

The image features a collection of SCAME electrical components against a red background. At the top, there are three red rectangular components, likely covers or housings, with circular cutouts. Below them, a white component is shown with its lid open, revealing a multi-pin connector. In the bottom left, a white connector with a grey cap is shown. On the right, a larger white component is shown with a circular cap and technical markings: 'SP+T-IP67-63A-6N/380-415V~', '504.6385', 'CE', and 'MADE IN ITALY'.

SYSTEM GENERAL CATALOGUE

 **SCAME**
electrical solutions

2016-2018



**GENERAL
CATALOGUE
2016-2018**
www.scame.com

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CONSULTATION CRITERIA

THE COMPANY

PRODUCTS CATALOGUE

TECHNICAL SHEETS

INDEX BY PRODUCT NUMBER

DEFINITION OF SYMBOLS








THE SCAME PRODUCT RANGE

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Industry




Plugs and inlets for industrial applications




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Distribution assemblies

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KIOSK Series
Distribution pedestals terminals for campsites, public areas and marinas

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Cable reels for industrial applications

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Domestic





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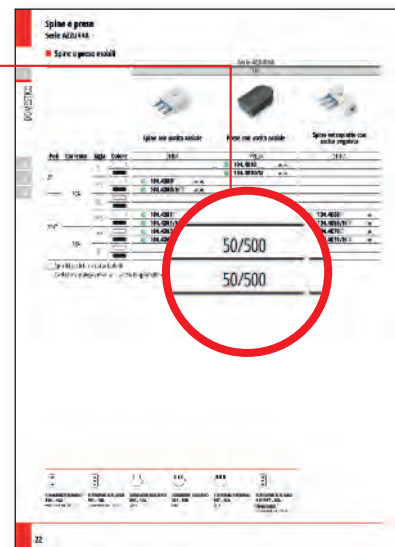
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Consultation criteria

1 Next to the item code, the quantity of pieces in each product package/packing unit is shown.

2 The assembled panels illustrated in this paper catalogue are only part of a wider range of available products; other combinations can be found on the Company website (www.scame.com) by means of the the dedicated app “CombiFINDER”. In case of specific needs, you can contact our Technical Information Centre (CIT) directly.



3 The second part of the catalogue contains, in alphabetical order by “Series” name, the TECHNICAL DATA SHEETS of the products illustrated in the catalogue.

4 This “SYSTEMS” catalogue should be completed with the “ECOMOBILITY”, “WIRING ACCESSORIES” and “ATEX” catalogues.



Scame: a tradition of innovation

IN FIFTY YEARS WE HAVE
WRITTEN A STORY OF
INNOVATION THAT HAS
ALWAYS PRESERVED THE
SPIRIT OF ITS ORIGINS.

Scame was founded amidst the enthusiasm of the Italian economic boom of the 60's and has always pursued its strive for excellence by continuous innovation. Today it is an international industrial group of about 800 people employed in 20 subsidiary and associated companies operating under the parent company headquartered in Parre (Bergamo) in Alta Valle Seriana. Scame has a capillary presence throughout Italy with its own sales agencies and operates worldwide with branches and loyal distributors.





Italy
Parre (Bergamo)

 **SCAME**_{ARGENTINA}
Argentina

 **SCAME**_{BULGARIA}
Bulgaria

 **SCAME**_{BRASIL}
Brazil

 **SCAME**_{CHILE}
Chile

 **SCAME-TOP**
China

 **SCAME-HR**
Croatia

 **SCAME-CZ**
Czech Republic

SOBEM  **SCAME**
France

 **SCAME**_{INDIA}
India



 **SCAME**_{POLSKA}
Poland

 **SCAME**_{PORTUGAL}
Portugal

 **SCAME**_{RO}
Romania

 **SCAME**_{SK}
Slovakia

 **SCAME**_{IBERICA}
Spain

 **SCAME**_{MIDDLE EAST}
U.A.E.

 **SCAME**_{UK}
United Kingdom

 **SCAME**_{UY}
Uruguay

 **SCAME**_{UA}
Ukraine

The catalogue and the internet site

AN INDUSTRIAL SYSTEMS CATALOGUE DIVIDED INTO 4 SECTIONS WITH OVER 10,000 ITEMS. MONOTHEMATIC CATALOGUES DEDICATED TO EX PRODUCTS, ELECTRIC VEHICLES RECHARGING SOLUTIONS AND WIRING ACCESSORIES. AN INTERNET SITE WITH VALUABLE INFORMATION AND UPDATES ON PRODUCT DEVELOPMENTS.

Red and white are our company colours and also the colours chosen for this catalogue: the simple elegance of white combined with vivid red, symbol of a dynamic and successful life. www.scame.com: a portal with the primary information, names and addresses of the entire distribution network, the products and their characteristics. Its internal search engines allow simple and flexible consultation of the information, providing real-time solutions to the many questions that arise during the distribution and use of electricity.



THE CONCEPT OF QUALITY
IS AN INTEGRAL PART OF
OUR CULTURE IN ALL ASPECTS
AND EVERY ACTIVITY OF
OUR WORK.

In 1993 Scame was among the first Italian companies to obtain the certification of its quality management system according to UNI EN ISO 9001 standards, renewed in 2002 according to Vision 2000. In 2003 Scame also obtained certification of its environmental management system according to UNI EN ISO 14001 standards which, by activating measures for improvement, continuous controls and appropriate corrective actions, fuels a virtuous circle of constant eco-friendly improvement.

In recognition of the health and safety of its work environment, in 2013 SCAME has been prized with BS OHSAS 18001 certification.



Technical and sales service

SEND AN E-MAIL TO
infotech@scame.com AND
YOU'LL RECEIVE THE
ANSWERS TO ALL
YOUR QUESTIONS ABOUT
TECHNICAL ASPECTS,
INSTALLATION PROCEDURES
AND CONFORMITY WITH
THE STANDARDS .

Scame technical information centre is able to promptly provide clear and complete answers to all your questions regarding the Scame products. The leading distributors of electrical material, with the support of our sales agencies and technical promoters, represent an additional capillary reference network. Information and updates can be found in the Info-point section of the internet site and in the newsletter sent periodically to the registered users.



infotech@scame.com

1

INDUSTRY

Systems and components for
electrical installations

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1.1

Plugs and inlets for industrial applications

- Plugs - IP44/IP54
- Plugs - IP66/IP67/IP69
- Flush mounting appliance inlets - IP44/IP54
- Flush mounting appliance inlets - IP66/IP67/IP69
- Surface mounting appliance inlets - IP44/IP54
- Surface mounting appliance inlets - IP66/IP67/IP69
- Accessories for plugs





Plugs and inlets for industrial applications

Plugs - IP44/IP54

OPTIMA Series >> Plugs

OPTIMA Series

213.



 Screw terminals

PLUG

IP44/IP54

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A			
					Part No.	10/50	Part No.	10/40		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	213.1630	10/50	213.3230	10/40		
		200-250V	Blue	6h	213.1633	10/50	213.3233	10/40		
		380-415V	Red	9h	213.1638	10/50	213.3238	10/40		
		480-500V	Black	7h	213.16336	10/50	213.32336	10/40		
		TST>50V	Grey	12h	213.16333	10/50	213.32333	10/40		
	>300-500Hz	>50V	Green	2h	213.16332	10/50	213.32332	10/40		
		DC	>50-250V	Grey	3h	213.16334	10/50	213.32334	10/40	
			>250V	Grey	8h	213.16338	10/50	213.32338	10/40	
		3P+E	50Hz 60Hz	100-130V	Yellow	4h	213.1631	10/50	213.3231	10/40
				200-250V	Blue	9h	213.1634	10/50	213.3234	10/40
380-415V	Red			6h	213.1636	10/50	213.3236	10/40		
380V 50Hz / 440V 60Hz	Red			3h	213.16364	10/50	213.32364	10/40		
480-500V	Black			7h	213.16366	10/50	213.32366	10/40		
>300-500Hz	600-690V		Black	5h	213.16367	10/50	213.32367	10/40		
	60Hz		440-460V	Red	11h	213.16365	10/50	213.32365	10/40	
	100-300Hz		>50V	Green	10h	213.16361	10/50	213.32361	10/40	
	>300-500Hz		>50V	Green	2h	213.16362	10/50	213.32362	10/40	
	3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	213.1632	10/50	213.3232	10/40
208-250V		Blue		9h	213.1635	10/50	213.3235	10/40		
346-415V		Red		6h	213.1637	10/50	213.3237	10/40		
380V 50Hz / 440V 60Hz		Red		3h	213.16374	10/50	213.32374	10/40		
480-500V		Black		7h	213.16376	10/50	213.32376	10/40		
>300-500Hz		600-690V	Black	5h	213.16377	10/50	213.32377	10/40		
		60Hz	440-460V	Red	11h	213.16375	10/50	213.32375	10/40	
		>300-500Hz	>50V	Green	2h	213.16372	10/50	213.32372	10/40	



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)

Plugs and inlets for industrial applications

Plugs - IP44/IP54



■ OPTIMA Series >> Plugs

OPTIMA Series

213.



Perforating terminals

PLUG

IP44/IP54

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	213.1630P	10/50
		200-250V		6h	213.1633P	10/50
		380-415V		9h	213.1638P	10/50
3P+E	50Hz 60Hz	200-250V		6h	213.1634P	10/50
		380-415V		6h	213.1636P	10/50
3P+N+E		346-415V		6h	213.1637P	10/50

OPTIMA Series

213.



Spring terminals

PLUG

IP44/IP54

CABLE GLAND

32A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	213.3230F	10/40
		200-250V		6h	213.3233F	10/40
		380-415V		9h	213.3238F	10/40
3P+E	50Hz 60Hz	200-250V		6h	213.3234F	10/40
		380-415V		6h	213.3236F	10/40
3P+N+E		346-415V		6h	213.3237F	10/40

1.1



Plugs and inlets for industrial applications

Plugs - IP44/IP54

■ OPTIMA Series >> Plugs

OPTIMA Series

213.



Mantle terminals

PLUG

IP44/IP54

CABLE GLAND

63A

Poles	Hz	Volt	Colour	h	Product Code	6/24	
2P+E	50Hz 60Hz	100-130V		4h	213.6330	6/24	
		200-250V		6h	213.6333	6/24	
		380-415V		9h	213.6338	6/24	
		480-500V		7h	213.63336	6/24	
		TST>50V		12h	213.63333	6/24	
	>300-500Hz	>50V		2h	213.63332	6/24	
	DC	>50-250V		3h	213.63334	6/24	
		>250V		8h	213.63338	6/24	
	3P+E	50Hz 60Hz	100-130V		4h	213.6331	6/24
			200-250V		9h	213.6334	6/24
380-415V				6h	213.6336	6/24	
380V 50Hz / 440V 60Hz				3h	213.63364	6/24	
480-500V				7h	213.63366	6/24	
600-690V			5h	213.63367	6/24		
60Hz		440-460V		11h	213.63365	6/24	
100-300Hz		>50V		10h	213.63361	6/24	
>300-500Hz		>50V		2h	213.63362	6/24	
3P+N+E		50Hz 60Hz	100-130V		4h	213.6332	6/24
	208-250V			9h	213.6335	6/24	
	346-415V			6h	213.6337	6/24	
	380V 50Hz / 440V 60Hz			3h	213.63374	6/24	
	480-500V		7h	213.63376	6/24		
	600-690V		5h	213.63377	6/24		
	60Hz	440-460V		11h	213.63375	6/24	
	>300-500Hz	>50V		2h	213.63372	6/24	



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals

Plugs and inlets for industrial applications

Plugs - IP44/IP54



■ OPTIMA Series >> Plugs [Transparent version]

OPTIMA Series

213.



Screw terminals



Perforating terminals

				PLUG				
				IP44/IP54				
				CABLE GLAND				
				16A				
Poles	Hz	Volt	Colour	h				
2P+E	50Hz 60Hz	100-130V	Yellow	4h	213.1630.TR	10/50	213.1630P.TR	10/50
		200-250V	Blue		213.1633.TR	10/50	213.1633P.TR	10/50
3P+E		380-415V		6h			213.1636P.TR	10/50
3P+N+E		346-415V	Red				213.1637P.TR	10/50

- Transparent grip



CONVENTIONAL WIRING
Screw terminals



FAST WIRING
Insulation perforating terminals

1.1



Plugs and inlets for industrial applications

Plugs - IP44/IP54

■ OPTIMA-REVERSE Series >> Plugs with phase inverter

OPTIMA-REVERSE Series

213.



 Screw terminals

PLUG

IP44/IP54

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Code	Part No.	Code
3P+E	50Hz 60Hz	380-415V	■	6h	213.1636RV	10/50	213.3236RV	10/40
3P+N+E		346-415V			213.1637RV	10/50	213.3237RV	10/40

- Phase inverter



OPTIMA-REVERSE Series

Operating principle of the phase inverter



Terminals
Screw terminals

Plugs and inlets for industrial applications

Plugs - IP44/IP54



EUREKA Series >> Plugs

EUREKA Series

221.



Screw terminals
[Angled outlet]

PLUG

IP44

CABLE SLEEVE

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Length	Part No.	Length
2P+E	50Hz 60Hz	100-130V		4h	221.1630	10/100	221.3230	10/60
		200-250V			221.1633	10/100	221.3233	10/60
3P+E		380-415V		6h	221.1636	10/100	221.3236	10/60
3P+N+E		346-415V			221.1637	10/100	221.3237	10/50

XENIA Series >> Plugs

XENIA Series

214.



Screw terminals

PLUG

IP44

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Length	Part No.	Length
2P+E	50Hz 60Hz	100-130V		4h	214.1630	50	214.3230	25
		200-250V			214.1633	50	214.3233	25
3P+E		380-415V		6h	214.1636	40	214.3236	25
3P+N+E		346-415V			214.1637	30	214.3237	20

1.1



Plugs and inlets for industrial applications

Plugs - IP66/IP67/IP69

OPTIMA Series >> Plugs

OPTIMA Series

218.























 Screw terminals

PLUG

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	10/40	Part No.	10/40	
2P+E	50Hz 60Hz	100-130V		4h	218.1630	10/40	218.3230	10/40	
		200-250V		6h	218.1633	10/40	218.3233	10/40	
		380-415V		9h	218.1638	10/40	218.3238	10/40	
		480-500V		7h	218.16336	10/40	218.32336	10/40	
		TST>50V		12h	218.16333	10/40	218.32333	10/40	
	>300-500Hz	>50V		2h	218.16332	10/40	218.32332	10/40	
	DC	>50-250V		3h	218.16334	10/40	218.32334	10/40	
		>250V		8h	218.16338	10/40	218.32338	10/40	
	3P+E	50Hz 60Hz	100-130V		4h	218.1631	10/40	218.3231	10/40
			200-250V		9h	218.1634	10/40	218.3234	10/40
380-415V				6h	218.1636	10/40	218.3236	10/40	
380V 50Hz / 440V 60Hz				3h	218.16364	10/40	218.32364	10/40	
480-500V				7h	218.16366	10/40	218.32366	10/40	
600-690V			5h	218.16367	10/40	218.32367	10/40		
60Hz		440-460V		11h	218.16365	10/40	218.32365	10/40	
100-300Hz		>50V		10h	218.16361	10/40	218.32361	10/40	
>300-500Hz		>50V		2h	218.16362	10/40	218.32362	10/40	
3P+N+E		50Hz 60Hz	100-130V		4h	218.1632	10/40	218.3232	10/40
	208-250V			9h	218.1635	10/40	218.3235	10/40	
	346-415V			6h	218.1637	10/40	218.3237	10/40	
	380V 50Hz / 440V 60Hz			3h	218.16374	10/40	218.32374	10/40	
	480-500V			7h	218.16376	10/40	218.32376	10/40	
	600-690V		5h	218.16377	10/40	218.32377	10/40		
	60Hz	440-460V		11h	218.16375	10/40	218.32375	10/40	
	>300-500Hz	>50V		2h	218.16372	10/40	218.32372	10/40	



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)

Plugs and inlets for industrial applications

Plugs - IP66/IP67/IP69



■ OPTIMA Series >> Plugs

OPTIMA Series

218.



Perforating terminals

Poles	Hz	Volt	Colour	h	PLUG	CABLE GLAND
2P+E	50Hz 60Hz	100-130V		4h	218.1630P	10/40
		200-250V		6h	218.1633P	10/40
		380-415V		9h	218.1638P	10/40
3P+E	50Hz 60Hz	200-250V		6h	218.1634P	10/40
		380-415V		9h	218.1636P	10/40
3P+N+E		346-415V		6h	218.1637P	10/40

OPTIMA Series

218.



Spring terminals

Poles	Hz	Volt	Colour	h	PLUG	CABLE GLAND
2P+E	50Hz 60Hz	100-130V		4h	218.3230F	10/40
		200-250V		6h	218.3233F	10/40
		380-415V		9h	218.3238F	10/40
3P+E	50Hz 60Hz	200-250V		6h	218.3234F	10/40
		380-415V		9h	218.3236F	10/40
3P+N+E		380V 50Hz / 440V 60Hz		3h	218.32364F	10/40
		346-415V		6h	218.3237F	10/40

1.1



Plugs and inlets for industrial applications

Plugs - IP66/IP67/IP69

OPTIMA Series >> Plugs

OPTIMA Series

218.



 Mantle terminals

PLUG

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	63A		125A	
					Part No.	6/24	Part No.	1/8
2P+E	50Hz 60Hz	100-130V	Yellow	4h	218.6330	6/24	218.12530	1/8
		200-250V	Blue	6h	218.6333	6/24	218.12533	1/8
		380-415V	Red	9h	218.6338	6/24	218.12538	1/8
		480-500V	Black	7h	218.63336	6/24	218.125336	1/8
		TST>50V	Grey	12h	218.63333	6/24	218.125333	1/8
	>300-500Hz	>50V	Green	2h	218.63332	6/24	218.125332	1/8
	DC	>50-250V	Grey	3h	218.63334	6/24	218.125334	1/8
		>250V	Grey	8h	218.63338	6/24	218.125338	1/8
3P+E	50Hz 60Hz	100-130V	Yellow	4h	218.6331	6/24	218.12531	1/8
		200-250V	Blue	9h	218.6334	6/24	218.12534	1/8
		380-415V	Red	6h	218.6336	6/24	218.12536	1/8
		380V 50Hz / 440V 60Hz	Red	3h	218.63364	6/24	218.125364	1/8
		480-500V	Black	7h	218.63366	6/24	218.125366	1/8
	600-690V	Black	5h	218.63367	6/24	218.125367	1/8	
	60Hz	440-460V	Red	11h	218.63365	6/24	218.125365	1/8
100-300Hz	>50V	Green	10h	218.63361	6/24	218.125361	1/8	
>300-500Hz	>50V	Green	2h	218.63362	6/24	218.125362	1/8	
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	218.6332	6/24	218.12532	1/8
		208-250V	Blue	9h	218.6335	6/24	218.12535	1/8
		346-415V	Red	6h	218.6337	6/24	218.12537	1/8
		380V 50Hz / 440V 60Hz	Red	3h	218.63374	6/24	218.125374	1/8
		480-500V	Black	7h	218.63376	6/24	218.125376	1/8
	600-690V	Black	5h	218.63377	6/24	218.125377	1/8	
	60Hz	440-460V	Red	11h	218.63375	6/24	218.125375	1/8
>300-500Hz	>50V	Green	2h	218.63372	6/24	218.125372	1/8	



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals

Plugs and inlets for industrial applications

Plugs - IP66/IP67/IP69



■ OPTIMA Series >> Plugs [Transparent version]

OPTIMA Series

218.



Perforating terminals



Screw terminals

					PLUG			
					IP66/IP67/IP69			
					CABLE GLAND			
					16A			
Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	218.1630P.TR	10/40	218.1630.TR	10/40
		200-250V	Blue	6h	218.1633P.TR	10/40	218.1633.TR	10/40

- Transparent grip

■ OPTIMA-REVERSE Series >> Plugs with phase inverter

OPTIMA-REVERSE Series

218.



Screw terminals

					PLUG			
					IP66/IP67/IP69			
					CABLE GLAND			
					16A		32A	
Poles	Hz	Volt	Colour	h	16A		32A	
3P+E	50Hz 60Hz	380-415V	Red	6h	218.1636RV	10/40	218.3236RV	10/40
3P+N+E		346-415V			218.1637RV	10/40	218.3237RV	10/40

- Phase inverter

1.1



Plugs and inlets for industrial applications

Plugs - IP66/IP67/IP69

■ OPTIMA-HD Series >> Plugs

OPTIMA-HD Series

218.





















 Screw terminals

PLUG

IP66/IP67/IP69

CABLE GLAND

Current	Poles	Hz	Volt	Colour	h	PLUG	CABLE GLAND
16A	2P+E	50Hz 60Hz	200-250V		6h	218.1633.KX	10/40
	3P+E		380-415V		6h	218.1636.KX	10/40
	3P+N+E		208-250V		9h	218.1635.KX	10/40
32A	3P+E	50Hz 60Hz	346-415V		6h	218.1637.KX	10/40
			200-250V		6h	218.3233.KX	10/40
	380-415V			3h	218.3236.KX	10/40	
	380V 50Hz / 440V 60Hz			3h	218.32364.KX	1/12	
	208-250V			9h	218.3235.KX	10/40	
3P+N+E	346-415V		6h	218.3237.KX	10/40		
63A	2P+E	60Hz	200-250V		6h	218.6333.KX	6/24
	3P+E		380-415V		11h	218.6336.KX	6/24
	3P+N+E		440-460V		11h	218.63365.KX	6/24
			208-250V		9h	218.6335.KX	6/24
125A	3P+E	50Hz 60Hz	346-415V		6h	218.6337.KX	6/24
			200-250V		6h	218.12533.KX	1/8
	380-415V			6h	218.12536.KX	1/8	
	208-250V			9h	218.12535.KX	1/8	
	3P+N+E		346-415V		6h	218.12537.KX	1/8

 High impact resistance

- High heat and fire resistance



Terminals
Screw terminals

Plugs and inlets for industrial applications

Plugs - IP66/IP67



EUREKA Series >> Plugs

EUREKA Series

226.



Screw terminals
[Angled outlet]

PLUG

IP66/IP67

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/100	Part No.	10/40
2P+E	50Hz 60Hz	100-130V	Yellow	4h	226.1630	10/100	226.3230	10/40
		200-250V	Blue	6h	226.1633	10/100	226.3233	10/40
380-415V		Red	3h	226.1636	10/100	226.3236	10/40	
380V 50Hz / 440V 60Hz		Black	5h	226.16367	10/100	226.32364	10/40	
600-690V		Black	5h	226.16367	10/100	226.32367	10/40	
3P+N+E		346-415V	Red	6h	226.1637	10/50	226.3237	10/40

1.1



Plugs and inlets for industrial applications

Flush mounting appliance inlets - IP44/IP54

OPTIMA Series >> Flush mounting appliance inlets

OPTIMA Series

243.



APPLIANCE INLET

IP44/IP54

75x75mm

100x110mm

Poles	Hz	Volt	Colour	h	75x75mm			100x110mm		
					16A	32A	63A			
2P+E	50Hz 60Hz	100-130V	Yellow	4h	243.1690	10/50	243.3290	10/50	243.6390	
		200-250V	Blue	6h	243.1693	10/50	243.3293	10/50	243.6393	10
		380-415V	Red	9h	243.1698	10/50	243.3298	10/50	243.6398	
		480-500V	Black	7h					243.63936	
	DC	TST>50V	Grey	12h					243.63933	
		>300-500Hz	>50V	Green	2h				243.63932	
		>50-250V	Grey	3h					243.63934	
		>250V	Grey	8h					243.63938	
3P+E	50Hz 60Hz	100-130V	Yellow	4h	243.1691	10/50	243.3291	10/50	243.6391	
		200-250V	Blue	9h	243.1694	10/50	243.3294	10/50	243.6394	
		380-415V	Red	6h	243.1696	10/50	243.3296	10/50	243.6396	10
		380V 50Hz / 440V 60Hz	Red	3h	243.16964	10/50	243.32964	10/50	243.63964	
	60Hz	480-500V	Black	7h					243.63966	
		600-690V	Black	5h					243.63967	
		440-460V	Red	11h	243.16965	10/50	243.32965	10/50	243.63965	
		>300-500Hz	>50V	Green	2h				243.63962	
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	243.1692	10/50	243.3292	10/40	243.6392	
		208-250V	Blue	9h	243.1695	10/50	243.3295	10/40	243.6395	
		346-415V	Red	6h	243.1697	10/50	243.3297	10/40	243.6397	10
		380V 50Hz / 440V 60Hz	Red	3h	243.16974	10/50	243.32974	10/40	243.63974	
	60Hz	480-500V	Black	7h					243.63976	
		600-690V	Black	5h					243.63977	
		440-460V	Red	11h	243.16975	10/50	243.32975	10/40	243.63975	
		>300-500Hz	>50V	Green	2h				243.63972	



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Screw terminals

Plugs and inlets for industrial applications

Flush mounting appliance inlets - IP44/IP54



■ OPTIMA-REVERSE Series >> Flush mounting appliance inlets with phase inverter

OPTIMA-REVERSE Series

243.



Screw terminals
[Straight outlet]

APPLIANCE INLET

IP44/IP54

75x75mm

Poles	Hz	Volt	Colour	h	16A		32A	
3P+E	50Hz 60Hz	380-415V		6h	243.1696RV	10/50	243.3296RV	10/50
3P+N+E		346-415V			243.1697RV	10/50	243.3297RV	10/40

- Phase inverter



OPTIMA-REVERSE Series
Operating principle of the phase inverter

1.1



Plugs and inlets for industrial applications

Flush mounting appliance inlets - IP44/IP54

EUREKA Series >> Appliance inlets

EUREKA Series

242.






 **Screw terminals**
[90° angled]

APPLIANCE INLET

IP44

70x87mm

PG 16

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	10/100	Part No.	10/60	
2P+E	50Hz 60Hz	100-130V		4h	242.1690	10/100	242.3290	10/60	
		200-250V		6h	242.1693	10/100	242.3293	10/60	
		380-415V		9h	242.1698	10/100	242.3298	10/60	
		480-500V		7h	242.16936		242.32936	10/60	
		TST>50V		12h	242.16933		242.32933		
	>300-500Hz	>50V		2h	242.16932	10/100	242.32932		
	DC	>50-250V		3h	242.16934	10/100	242.32934	10/60	
		>250V		8h	242.16938	10/100	242.32938	10/60	
	3P+E	50Hz 60Hz	100-130V		4h	242.1691	10/100	242.3291	10/60
			200-250V		9h	242.1694	10/100	242.3294	10/60
380-415V				6h	242.1696	10/100	242.3296	10/60	
380V 50Hz / 440V 60Hz				3h	242.16964		242.32964	10/60	
440-460V				11h	242.16965	10/100	242.32965	10/60	
480-500V				7h	242.16966	10/100	242.32966	10/60	
100-300Hz		600-690V		5h	242.16967	10/100	242.32967	10/60	
		>300-500Hz	>50V		10h	242.16961	10/100	242.32961	
3P+N+E		50Hz 60Hz	100-130V		4h	242.1692	10/60	242.3292	10/40
			208-250V		9h	242.1695	10/60	242.3295	10/40
	346-415V			6h	242.1697	10/60	242.3297	10/40	
	380V 50Hz / 440V 60Hz			3h	242.16974	10/60	242.32974	10	
	480-500V			7h	242.16976	10/60	242.32976	10	
	600-690V			5h	242.16977		242.32977	10	
	60Hz		440-460V		11h	242.16975		242.32975	10
	>300-500Hz	>50V		2h	242.16972	10/60	242.32972	10/40	



Terminals
Screw terminals

Plugs and inlets for industrial applications

Flush mounting appliance inlets - IP66/IP67/IP69



■ OPTIMA Series >> Flush mounting appliance inlets

OPTIMA Series

248.



Screw terminals
[Straight outlet]

APPLIANCE INLET

IP66/IP67/IP69

75x75mm

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	10/50	Part No.	10/50	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	248.1690	10/50	248.3290	10/50	
		200-250V	Blue	6h	248.1693	10/50	248.3293	10/50	
		380-415V	Red	9h	248.1698	10/50	248.3298	10/50	
		480-500V	Black	7h	248.16936	10/50	248.32936	10/50	
		TST>50V	Grey	12h	248.16933	10/50	248.32933	10/50	
	>300-500Hz	>50V	Green	2h	248.16932	10/50	248.32932	10/50	
	DC	>50-250V	Grey	3h	248.16934	10/50	248.32934	10/50	
		>250V	Grey	8h	248.16938	10/50	248.32938	10/50	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	248.1691	10/50	248.3291	10/50
			200-250V	Blue	9h	248.1694	10/50	248.3294	10/50
380-415V			Red	6h	248.1696	10/50	248.3296	10/50	
380V 50Hz / 440V 60Hz			Red	3h	248.16964	10/50	248.32964	10/50	
480-500V			Black	7h	248.16966	10/50	248.32966	10/50	
60-690V		Black	5h	248.16967	10/50	248.32967	10/50		
60Hz		440-460V	Red	11h	248.16965	10/50	248.32965	10/50	
100-300Hz		>50V	Green	10h	248.16961	10/50	248.32961	10/50	
>300-500Hz		>50V	Green	2h	248.16962	10/50	248.32962	10/50	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	248.1692	10/50	248.3292	10/40
	208-250V		Blue	9h	248.1695	10/50	248.3295	10/40	
	346-415V		Red	6h	248.1697	10/50	248.3297	10/40	
	380V 50Hz / 440V 60Hz		Red	3h	248.16974	10/50	248.32974	10/40	
	480-500V		Black	7h	248.16976	10/50	248.32976	10/40	
	600-690V	Black	5h	248.16977	10/50	248.32977	10/40		
	60Hz	440-460V	Red	11h	248.16975	10/50	248.32975	10/40	
	>300-500Hz	>50V	Green	2h	248.16972	10/50	248.32972	10/40	

1.1



Plugs and inlets for industrial applications

Flush mounting appliance inlets - IP66/IP67/IP69

OPTIMA Series >> Flush mounting appliance inlets

OPTIMA Series


























248.



 **Mantle terminals**
[Straight outlet]

APPLIANCE INLET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	APPLIANCE INLET			
					100x110mm		114x114mm	
					63A		125A	
2P+E	50Hz 60Hz	100-130V		4h	248.6390	10	248.12590	10
		200-250V		6h	248.6393	10	248.12593	10
		380-415V		9h	248.6398	10	248.12598	10
		480-500V		7h	248.63936	10	248.125936	10
		TST>50V		12h	248.63933	10	248.125933	10
	>300-500Hz	>50V		2h	248.63932	10	248.125932	10
	DC	>50-250V		3h	248.63934	10	248.125934	10
		>250V		8h	248.63938	10	248.125938	10
3P+E	50Hz 60Hz	100-130V		4h	248.6391	10	248.12591	10
		200-250V		9h	248.6394	10	248.12594	10
		380-415V		6h	248.6396	10	248.12596	10
		380V 50Hz / 440V 60Hz		3h	248.63964	10	248.125964	10
		480-500V		7h	248.63966	10	248.125966	10
	600-690V		5h	248.63967	10	248.125967	10	
	60Hz	440-460V		11h	248.63965	10	248.125965	10
	100-300Hz	>50V		10h	248.63961	10	248.125961	10
>300-500Hz	>50V		2h	248.63962	10	248.125962	10	
3P+N+E	50Hz 60Hz	100-130V		4h	248.6392	10	248.12592	10
		208-250V		9h	248.6395	10	248.12595	10
		346-415V		6h	248.6397	10	248.12597	10
		380V 50Hz / 440V 60Hz		3h	248.63974	10	248.125974	10
		480-500V		7h	248.63976	10	248.125976	10
	600-690V		5h	248.63977	10	248.125977	10	
	60Hz	440-460V		11h	248.63975	10	248.125975	10
	>300-500Hz	>50V		2h	248.63972	10	248.125972	10



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Screw terminals

Plugs and inlets for industrial applications

Flush mounting appliance inlets - IP66/IP67/IP69



■ OPTIMA-REVERSE Series >> Flush mounting appliance inlets with phase inverter

OPTIMA-REVERSE Series

248.




 **Screw terminals**
[Straight outlet]

APPLIANCE INLET

IP66/IP67/IP69

75x75mm

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/50	Part No.	10/50
3P+E	50Hz 60Hz	380-415V		6h	248.1696RV	10/50	248.3296RV	10/50
3P+N+E		346-415V			248.1697RV	10/50	248.3297RV	10/40

- Phase inverter



OPTIMA-REVERSE Series
Operating principle of the phase inverter

1.1



Plugs and inlets for industrial applications


Flush mounting appliance inlets - IP66/IP67

EUREKA Series >> Appliance inlets - 90° angled

EUREKA Series

247.



 **Screw terminals**
[90° angled]

APPLIANCE INLET

IP66/IP67

70x87mm

PG 16

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	10/100	Part No.	10/40	
2P+E	50Hz 60Hz	100-130V		4h	247.1690	10/100	247.3290	10/40	
		200-250V		6h	247.1693	10/100	247.3293	10/40	
		380-415V		9h	247.1698	10/100	247.3298	10/40	
		480-500V		7h	247.16936	10/100	247.32936	10/40	
		TST>50V		12h	247.16933		247.32933		
	>300-500Hz	>50V		2h	247.16932	10/100	247.32932		
	DC	>50-250V		3h	247.16934	10/100	247.32934	10/40	
		>250V		8h	247.16938		247.32938		
	3P+E	50Hz 60Hz	100-130V		4h	247.1691	10/60	247.3291	10/40
			200-250V		9h	247.1694	10/60	247.3294	10/40
380-415V				6h	247.1696	10/60	247.3296	10/40	
380V 50Hz / 440V 60Hz				3h	247.16964	10/60	247.32964	10/40	
480-500V				7h	247.16966	10/60	247.32966	10/40	
60Hz		440-460V		11h	247.16965	10/60	247.32965	10/40	
100-300Hz		>50V		10h	247.16961		247.32961	10/40	
>300-500Hz		>50V		2h	247.16962		247.32962		
3P+N+E		50Hz 60Hz	100-130V		4h	247.1692	10/50	247.3292	10/40
			208-250V		9h	247.1695	10/50	247.3295	10/40
	346-415V			6h	247.1697	10/50	247.3297	10/40	
	380V 50Hz / 440V 60Hz			3h	247.16974	10/50	247.32974	10/40	
	480-500V			7h	247.16976	10/50	247.32976	10	
	60Hz	440-460V		11h	247.16975		247.32975	10/40	
	>300-500Hz	>50V		2h	247.16972	10/50	247.32972	10/40	



Terminals
Screw terminals



Terminals
Mantle terminals (EASY-PLUG)

Plugs and inlets for industrial applications

Surface mounting appliance inlets - IP44/IP54



■ OPTIMA-TOP Series >> Surface mounting appliance inlets

OPTIMA-TOP Series

240.



Mantle terminals

APPLIANCE INLET

IP44/IP54

M40X1,5

63A

Poles	Hz	Volt	Colour	h	Product Code	Quantity	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	240.6390T	4	
		200-250V	Blue	6h	240.6393T	4	
		380-415V	Red	9h	240.6398T	4	
		480-500V	Black	7h	240.63936T		
		TST>50V	Grey	12h	240.63933T		
	>300-500Hz	>50V	Green	2h	240.63932T		
	DC	>50-250V	Grey	3h	240.63934T		
		>250V	Grey	8h	240.63938T		
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	240.6391T	4
			200-250V	Blue	9h	240.6394T	4
380-415V			Red	6h	240.6396T	4	
380V 50Hz / 440V 60Hz			Red	3h	240.63964T		
440-460V			Black	11h	240.63965T		
480-500V			Black	7h	240.63966T		
600-690V		Black	5h	240.63967T			
100-300Hz		>50V	Green	10h	240.63961T		
>300-500Hz		>50V	Green	2h	240.63962T		
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	240.6392T	4
	208-250V		Blue	9h	240.6395T	4	
	346-415V		Red	6h	240.6397T	4	
	380V 50Hz / 440V 60Hz		Red	3h	240.63974T		
	480-500V	Black	7h	240.63976T			
	600-690V	Black	5h	240.63977T			
	60Hz	440-460V	Red	11h	240.63975T		
	>300-500Hz	>50V	Green	2h	240.63972T		

- Cable gland included

1.1



Plugs and inlets for industrial applications

Surface mounting appliance inlets - IP66/IP67/IP69

■ OPTIMA-TOP Series >> Surface mounting appliance inlets

OPTIMA-TOP Series

245.



Mantle terminals

APPLIANCE INLET

IP66/IP67

Poles	Hz	Volt	Colour	h	M40X1,5				M63X1,5					
					63A		125A		63A		125A			
					Part No.	Qty	Part No.	Qty	Part No.	Qty	Part No.	Qty		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	245.6390T	4	245.12590T	1/4	245.6393T	4	245.12593T	1/4		
		200-250V	Blue	6h	245.6393T	4	245.12593T	1/4	245.6398T	4	245.12598T	1/4		
		380-415V	Red	9h	245.6398T	4	245.12598T	1/4	245.63936T	4	245.125936T	1/4		
		480-500V	Black	7h	245.63936T	4	245.125936T	1/4	245.63933T	4	245.125933T	1/4		
		TST>50V	Grey	12h	245.63933T	4	245.125933T	1/4	245.63932T	4	245.125932T	1/4		
	DC	>300-500Hz	>50V	Green	2h	245.63932T	4	245.125932T	1/4	245.63934T	4	245.125934T	1/4	
			>50-250V	Grey	3h	245.63934T	4	245.125934T	1/4	245.63938T	4	245.125938T	1/4	
		3P+E	50Hz 60Hz	100-130V	Yellow	4h	245.6391T	4	245.12591T	1/4	245.6394T	4	245.12594T	1/4
				200-250V	Blue	9h	245.6394T	4	245.12594T	1/4	245.6396T	4	245.12596T	1/4
				380-415V	Red	6h	245.6396T	4	245.12596T	1/4	245.63964T	4	245.125964T	1/4
380V 50Hz / 440V 60Hz	Black			3h	245.63964T	4	245.125964T	1/4	245.63966T	4	245.125966T	1/4		
480-500V	Black			7h	245.63966T	4	245.125966T	1/4	245.63967T	4	245.125967T	1/4		
3P+N+E	50Hz 60Hz	600-690V	Red	5h	245.63967T	4	245.125967T	1/4	245.63965T	4	245.125965T	1/4		
		440-460V	Red	11h	245.63965T	4	245.125965T	1/4	245.63961T	4	245.125961T	1/4		
		100-300Hz	Green	10h	245.63961T	4	245.125961T	1/4	245.63962T	4	245.125962T	1/4		
		>300-500Hz	Green	2h	245.63962T	4	245.125962T	1/4	245.6392T	4	245.12592T	1/4		
		100-130V	Yellow	4h	245.6392T	4	245.12592T	1/4	245.6395T	4	245.12595T	1/4		
3P+N+E	50Hz 60Hz	208-250V	Blue	9h	245.6395T	4	245.12595T	1/4	245.6397T	4	245.12597T	1/4		
		346-415V	Red	6h	245.6397T	4	245.12597T	1/4	245.63974T	4	245.125974T	1/4		
		380V 50Hz / 440V 60Hz	Black	3h	245.63974T	4	245.125974T	1/4	245.63976T	4	245.125976T	1/4		
		480-500V	Black	7h	245.63976T	4	245.125976T	1/4	245.63977T	4	245.125977T	1/4		
	60Hz	600-690V	Black	5h	245.63977T	4	245.125977T	1/4	245.63975T	4	245.125975T	1/4		
		440-460V	Red	11h	245.63975T	4	245.125975T	1/4	245.63972T	4	245.125972T	1/4		
		>300-500Hz	Green	2h	245.63972T	4	245.125972T	1/4						

- Cable gland included



Terminals
Mantle terminals (EASY-PLUG)

Plugs and inlets for industrial applications

Accessories for plugs



ACCESSORIES

570.



Description	Current	Poles	Cover for IP66/IP67/IP69 plugs	
PLUG CAP	16A 20A	2P+E	570.90163	10/100
		3P+E	570.90164	10/100
	30A 32A	3P+N+E	570.90165	10/100
		2/3P+E	570.90324	10/100
	60A 63A	ALL	570.9063	10
	100A 125A		570.9125	10

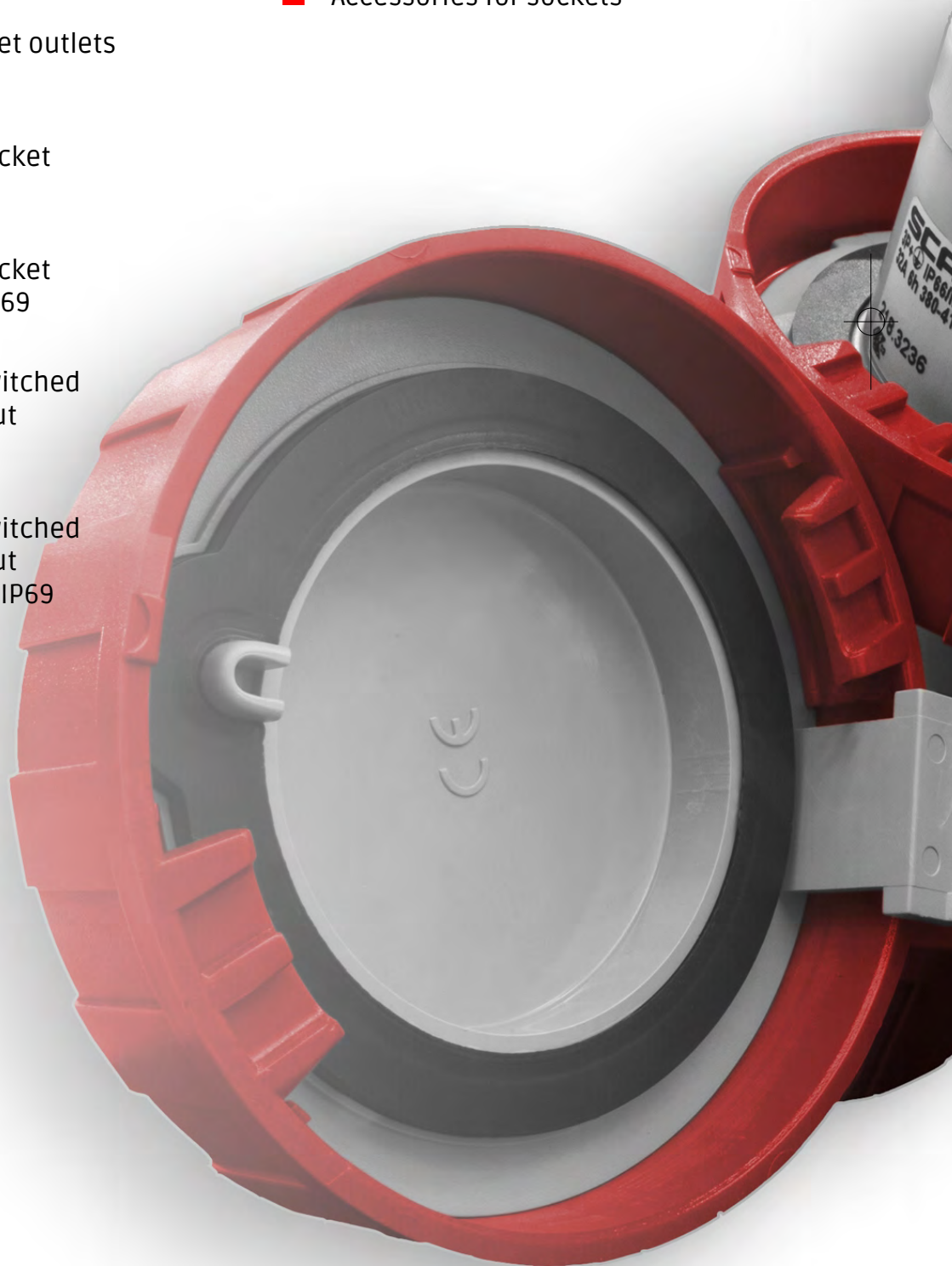
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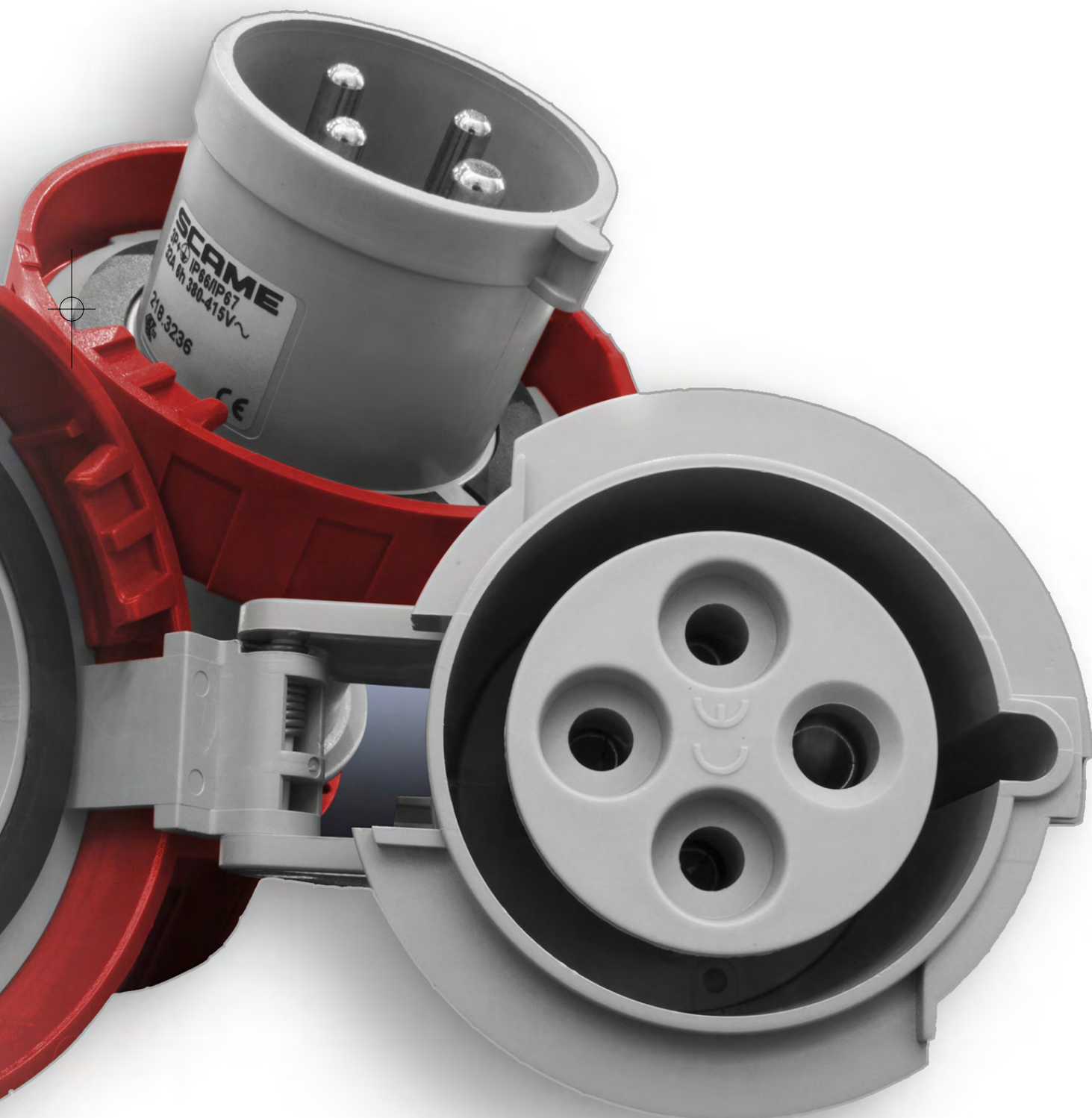


1.2

Connectors and sockets for industrial applications

- Connectors - IP44/IP54
- Connectors - IP66/IP67/IP69
- Flush mounting socket outlets - IP44/IP54
- Flush mounting socket outlets - IP66/IP67/IP69
- Surface mounting socket outlets - IP44/IP54
- Surface mounting socket outlets - IP66/IP67/IP69
- Surface mounting switched socket outlets without interlock - IP44/IP54
- Surface mounting switched socket outlets without interlock - IP66/IP67/IP69
- Domestic standard socket for industrial applications - IP54
- BS socket for industrial applications - IP66
- Accessories for sockets





SCAME
230V~ IP66/67
2A 5h 300-415V~
218.3236
CE

Connectors and sockets for industrial applications

Connectors - IP44/IP54

OPTIMA Series >> Connectors

OPTIMA Series

313.



 Screw terminals

CONNECTOR

IP44/IP54

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A			
					Part No.	10/50	Part No.	10/40		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	313.1640	10/50	313.3240	10/40		
		200-250V	Blue	6h	313.1643	10/50	313.3243	10/40		
		380-415V	Red	9h	313.1648	10/50	313.3248	10/40		
		480-500V	Black	7h	313.16436	10/50	313.32436	10/40		
		TST>50V	Grey	12h	313.16433	10/50	313.32433	10/40		
	>300-500Hz	>50V	Green	2h	313.16432	10/50	313.32432	10/40		
		DC	>50-250V	Grey	3h	313.16434	10/50	313.32434	10/40	
			>250V	Grey	8h	313.16438	10/50	313.32438	10/40	
		3P+E	50Hz 60Hz	100-130V	Yellow	4h	313.1641	10/50	313.3241	10/40
				200-250V	Blue	9h	313.1644	10/50	313.3244	10/40
380-415V	Red			6h	313.1646	10/50	313.3246	10/40		
380V 50Hz / 440V 60Hz	Black			3h	313.16464	10/50	313.32464	10/40		
480-500V	Black			7h	313.16466	10/50	313.32466	10/40		
>300-500Hz	600-690V		Black	5h	313.16467	10/50	313.32467	10/40		
	60Hz		440-460V	Red	11h	313.16465	10/50	313.32465	10/40	
	100-300Hz		>50V	Green	10h	313.16461	10/50	313.32461	10/40	
	>300-500Hz		>50V	Green	2h	313.16462	10/50	313.32462	10/40	
	3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	313.1642	10/50	313.3242	10/40
208-250V		Blue		9h	313.1645	10/50	313.3245	10/40		
346-415V		Red		6h	313.1647	10/50	313.3247	10/40		
380V 50Hz / 440V 60Hz		Black		3h	313.16474	10/50	313.32474	10/40		
480-500V		Black		7h	313.16476	10/50	313.32476	10/40		
>300-500Hz		600-690V	Black	5h	313.16477	10/50	313.32477	10/40		
		60Hz	440-460V	Red	11h	313.16475	10/50	313.32475	10/40	
		>300-500Hz	>50V	Green	2h	313.16472	10/50	313.32472	10/40	



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)

Connectors and sockets for industrial applications

Connectors - IP44/IP54



■ OPTIMA Series >> Connectors

OPTIMA Series

313.



Perforating terminals

CONNECTOR

IP44/IP54

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	313.1640P	10/50
		200-250V		6h	313.1643P	10/50
		380-415V		9h	313.1648P	10/50
3P+E	50Hz 60Hz	200-250V		6h	313.1644P	10/50
		380-415V		6h	313.1646P	10/50
3P+N+E		346-415V		6h	313.1647P	10/50

OPTIMA Series

313.



Spring terminals

CONNECTOR

IP44/IP54

CABLE GLAND

32A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	313.3240F	10/40
		200-250V		6h	313.3243F	10/40
		380-415V		9h	313.3248F	10/40
3P+E	50Hz 60Hz	200-250V		6h	313.3244F	10/40
		380-415V		6h	313.3246F	10/40
3P+N+E		346-415V		6h	313.3247F	10/40

1.2



Connectors and sockets for industrial applications

Connectors - IP44/IP54

■ OPTIMA Series >> Connectors

OPTIMA Series

313.



Mantle terminals

CONNECTOR

IP44/IP54

CABLE GLAND

63A

Poles	Hz	Volt	Colour	h	Product Code	6/24	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	313.6340	6/24	
		200-250V	Blue	6h	313.6343	6/24	
		380-415V	Red	9h	313.6348	6/24	
		480-500V	Black	7h	313.63436	6/24	
		TST>50V	Grey	12h	313.63433	6/24	
	>300-500Hz	>50V	Green	2h	313.63432	6/24	
	DC	>50-250V	Grey	3h	313.63434	6/24	
		>250V	Grey	8h	313.63438	6/24	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	313.6341	6/24
			200-250V	Blue	9h	313.6344	6/24
380-415V			Red	6h	313.6346	6/24	
380V 50Hz / 440V 60Hz			Red	3h	313.63464	6/24	
480-500V			Black	7h	313.63466	6/24	
600-690V		Black	5h	313.63467	6/24		
60Hz		440-460V	Red	11h	313.63465	6/24	
100-300Hz		>50V	Green	10h	313.63461	6/24	
>300-500Hz		>50V	Green	2h	313.63462	6/24	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	313.6342	6/24
	208-250V		Blue	9h	313.6345	6/24	
	346-415V		Red	6h	313.6347	6/24	
	380V 50Hz / 440V 60Hz		Red	3h	313.63474	6/24	
	480-500V		Black	7h	313.63476	6/24	
	600-690V	Black	5h	313.63477	6/24		
	60Hz	440-460V	Red	11h	313.63475	6/24	
	>300-500Hz	>50V	Green	2h	313.63472	6/24	



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals

Connectors and sockets for industrial applications

Connectors - IP44/IP54



■ OPTIMA Series >> Connectors [Transparent version]

OPTIMA Series

313.



Screw terminals



Perforating terminals

CONNECTOR

IP44/IP54

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h	CONNECTOR		CABLE GLAND	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	313.1640.TR	10/50	313.1640P.TR	10/50
		200-250V	Blue	6h	313.1643.TR	10/50	313.1643P.TR	10/50

- Transparent grip

1.2



Connectors and sockets for industrial applications

Connectors - IP44/IP54

■ OPTIMA Series >> Connectors [SAFE-IN]

OPTIMA Series

313.



Screw terminals

CONNECTOR

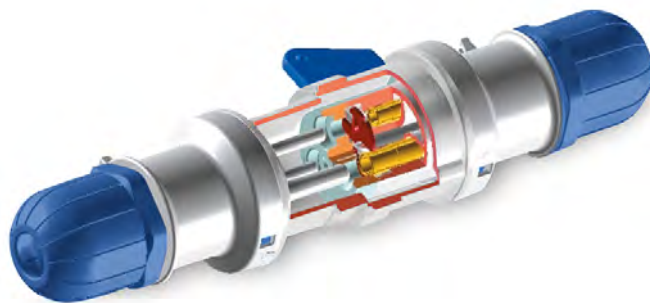
IP44/IP54

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	313.1640H	10/50
		200-250V		6h	313.1643H	10/50
		380-415V		9h	313.1648H	10/50
3P+E	50Hz 60Hz	200-250V		9h	313.1644H	10/50
		380-415V		6h	313.1646H	10/50
3P+N+E		346-415V			313.1647H	10/50

☞ Sockets with "SAFE-IN" safety device



THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.



Terminals
Screw terminals

Connectors and sockets for industrial applications

Connectors - IP44/IP54



EUREKA Series >> Connectors

EUREKA Series

321.



**Screw terminals
[Angled outlet]**

CONNECTOR

IP44

CABLE SLEEVE

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Length	Part No.	Length
2P+E	50Hz 60Hz	100-130V		4h	321.1640	10/100	321.3240	10/50
		200-250V			321.1643	10/100	321.3243	10/50
3P+E		380-415V		6h	321.1646	10/100	321.3246	10/50
3P+N+E		346-415V			321.1647	10/100	321.3247	10/50

XENIA Series >> Connectors

XENIA Series

314.



Screw terminals

CONNECTOR

IP44

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Length	Part No.	Length
2P+E	50Hz 60Hz	100-130V		4h	314.1640	40	314.3240	20
		200-250V			314.1643	40	314.3243	20
3P+E		380-415V		6h	314.1646	30	314.3246	20
3P+N+E		346-415V			314.1647	25	314.3247	15

1.2



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

OPTIMA Series >> Connectors

OPTIMA Series

318.



 Screw terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/40	Part No.	10/40
2P+E	50Hz 60Hz	100-130V		4h	318.1640	10/40	318.3240	10/40
		200-250V		6h	318.1643	10/40	318.3243	10/40
		380-415V		9h	318.1648	10/40	318.3248	10/40
		480-500V		7h	318.16436	10/40	318.32436	10/40
		TST>50V		12h	318.16433	10/40	318.32433	10/40
	>300-500Hz	>50V		2h	318.16432	10/40	318.32432	10/40
	DC	>50-250V		3h	318.16434	10/40	318.32434	10/40
>250V			8h	318.16438	10/40	318.32438	10/40	
3P+E	50Hz 60Hz	100-130V		4h	318.1641	10/40	318.3241	10/40
		200-250V		9h	318.1644	10/40	318.3244	10/40
		380-415V		6h	318.1646	10/40	318.3246	10/40
		380V 50Hz / 440V 60Hz		3h	318.16464	10/40	318.32464	10/40
		480-500V		7h	318.16466	10/40	318.32466	10/40
	600-690V		5h	318.16467	10/40	318.32467	10/40	
	60Hz	440-460V		11h	318.16465	10/40	318.32465	10/40
	100-300Hz	>50V		10h	318.16461	10/40	318.32461	10/40
	>300-500Hz	>50V		2h	318.16462	10/40	318.32462	10/40
3P+N+E	50Hz 60Hz	100-130V		4h	318.1642	10/40	318.3242	10/40
		208-250V		9h	318.1645	10/40	318.3245	10/40
		346-415V		6h	318.1647	10/40	318.3247	10/40
		380V 50Hz / 440V 60Hz		3h	318.16474	10/40	318.32474	10/40
		480-500V		7h	318.16476	10/40	318.32476	10/40
	600-690V		5h	318.16477	10/40	318.32477	10/40	
	60Hz	440-460V		11h	318.16475	10/40	318.32475	10/40
	>300-500Hz	>50V		2h	318.16472	10/40	318.32472	10/40



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)

Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69



■ OPTIMA Series >> Connectors

OPTIMA Series

318.



Perforating terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	318.1640P	10/40
		200-250V		6h	318.1643P	10/40
		380-415V		9h	318.1648P	10/40
3P+E	50Hz 60Hz	200-250V		6h	318.1644P	10/40
		380-415V		9h	318.1646P	10/40
3P+N+E		346-415V		6h	318.1647P	10/40

OPTIMA Series

318.



Spring terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

32A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	318.3240F	10/40
		200-250V		6h	318.3243F	10/40
		380-415V		9h	318.3248F	10/40
3P+E	50Hz 60Hz	200-250V		6h	318.3244F	10/40
		380-415V		9h	318.3246F	10/40
3P+N+E	50Hz 60Hz	380V 50Hz / 440V 60Hz		3h	318.32464F	10/40
		346-415V		6h	318.3247F	10/40

1.2



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

OPTIMA Series >> Connectors

OPTIMA Series

318.



 Mantle terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	63A		125A	
					Part No.	6/24	Part No.	1/8
2P+E	50Hz 60Hz	100-130V	Yellow	4h	318.6340	6/24	318.12540	1/8
		200-250V	Blue	6h	318.6343	6/24	318.12543	1/8
		380-415V	Red	9h	318.6348	6/24	318.12548	1/8
		480-500V	Black	7h	318.63436	6/24	318.125436	1/8
		TST>50V	Grey	12h	318.63433	6/24	318.125433	1/8
	DC	>50-250V	Grey	3h	318.63434	6/24	318.125434	1/8
		>250V	Grey	8h	318.63438	6/24	318.125438	1/8
3P+E	50Hz 60Hz	100-130V	Yellow	4h	318.6341	6/24	318.12541	1/8
		200-250V	Blue	9h	318.6344	6/24	318.12544	1/8
		380-415V	Red	6h	318.6346	6/24	318.12546	1/8
		380V 50Hz / 440V 60Hz	Red	3h	318.63464	6/24	318.125464	1/8
		480-500V	Black	7h	318.63466	6/24	318.125466	1/8
	60Hz	600-690V	Black	5h	318.63467	6/24	318.125467	1/8
		440-460V	Red	11h	318.63465	6/24	318.125465	1/8
		100-300Hz	Green	10h	318.63461	6/24	318.125461	1/8
		>300-500Hz	Green	2h	318.63462	6/24	318.125462	1/8
		100-130V	Yellow	4h	318.6342	6/24	318.12542	1/8
3P+N+E	50Hz 60Hz	208-250V	Blue	9h			318.12545	1/8
		346-415V	Red	6h	318.6347	6/24	318.12547	1/8
		380V 50Hz / 440V 60Hz	Red	3h	318.63474	6/24	318.125474	1/8
		480-500V	Black	7h	318.63476	6/24	318.125476	1/8
	60Hz	600-690V	Black	5h	318.63477	6/24	318.125477	1/8
		440-460V	Red	11h	318.63475	6/24	318.125475	1/8
		>300-500Hz	Green	2h	318.63472	6/24	318.125472	1/8



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals

Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69



■ OPTIMA Series >> Connectors (transparent version)

OPTIMA Series

318.



Perforating terminals



Screw terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h				
2P+E	50Hz 60Hz	100-130V	Yellow	4h	318.1640P.TR	10/40	318.1640.TR	10/40
		200-250V	Blue	6h	318.1643P.TR	10/40	318.1643.TR	10/40

- Transparent grip

1.2



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

■ OPTIMA Series >> Connectors [SAFE-IN]

OPTIMA Series

318.



Screw terminals

CONNECTOR

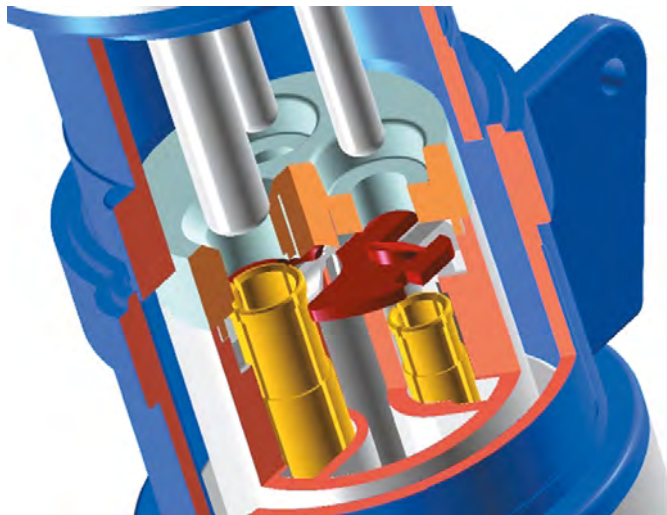
IP66/IP67/IP69

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	318.1640H	10/40
		200-250V		6h	318.1643H	10/40
		380-415V		9h	318.1648H	10/40
3P+E	50Hz 60Hz	200-250V		9h	318.1644H	10/40
		380-415V		6h	318.1646H	10/40
3P+N+E		346-415V		6h	318.1647H	10/40

Sockets with "SAFE-IN" safety device



SAFE-IN

Connector tube protective shutter for increased safety against direct contacts. (The SAFE-IN safety device).



Terminals
Screw terminals



Terminals
Mantle terminals (EASY-PLUG)

Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69



■ OPTIMA-HD Series >> Connectors [HEAVY DUTY]

OPTIMA-HD Series

318.



Screw terminals

Current	Poles	Hz	Volt	Colour	h	CONNECTOR	CABLE GLAND	
16A	2P+E	50Hz 60Hz	200-250V		6h	318.1643.KX	10/40	
	3P+E		380-415V			318.1646.KX	10/40	
	3P+N+E		346-415V			318.1647.KX	10/40	
2P+E	200-250V			318.3243.KX		10/40		
32A	3P+E		380-415V			3h	318.3246.KX	10/40
	3P+N+E		380V 50Hz / 440V 60Hz				318.32464.KX	1/12
		346-415V		318.3247.KX	10/40			
63A	2P+E	50Hz 60Hz	200-250V		6h	318.6343.KX	6/24	
	3P+E		380-415V			318.6346.KX	6/24	
	3P+N+E		346-415V			318.6347.KX	6/24	
125A	2P+E		200-250V			6h	318.12543.KX	1/8
	3P+E		380-415V				318.12546.KX	1/8
	3P+N+E		346-415V				318.12547.KX	1/8

- High impact resistance
- High heat and fire resistance



CONVENTIONAL WIRING
Cage clamp connectors

1.2



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

EUREKA Series >> Connectors

EUREKA Series

326.






 **Screw terminals**
[Angled outlet]

CONNECTOR

IP66/IP67

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/100	Part No.	10/40
2P+E	50Hz 60Hz	100-130V		4h	326.1640	10/100	326.3240	10/40
		200-250V		6h	326.1643	10/100	326.3243	10/40
3P+E	50Hz 60Hz	380-415V		3h	326.1646	10/100	326.3246	10/40
		380V 50Hz / 440V 60Hz		3h	326.1647	10/50	326.3247	10/40
3P+N+E		346-415V		6h	326.1647	10/50	326.3247	10/40

1

INDUSTRY

2

3

4



Terminals
Screw terminals



Terminals
Mantle terminals (EASY-PLUG)

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54



■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

413.



Screw terminals
[Angled outlet]



Mantle terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

Poles	Hz	Volt	Colour	h	70x87mm			84x106mm			100x110mm		
					16A			32A			63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	413.1660	10/100	413.3260	10/50	413.6360				
		200-250V	Blue	6h	413.1663	10/100	413.3263	10/50	413.6363	6/30			
		380-415V	Red	9h	413.1668	10/100	413.3268	10/50	413.6368				
		480-500V	Black	7h	413.16636	10/100	413.32636	10/50	413.63636				
		TST>50V	Grey	12h	413.16633	10/100	413.32633	10/50	413.63633				
	>300-500Hz	>50V	Green	2h	413.16632	10/100	413.32632	10/50	413.63632				
	DC	>50-250V	Grey	3h	413.16634	10/100	413.32634	10/50	413.63634				
		>250V	Grey	8h	413.16638	10/100	413.32638	10/50	413.63638				
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	413.1661	10/100	413.3261	10/50	413.6361			
			200-250V	Blue	9h	413.1664	10/100	413.3264	10/50	413.6364	6/30		
380-415V			Red	6h	413.1666	10/100	413.3266	10/50	413.6366	6/30			
380V 50Hz / 440V 60Hz			Red	3h	413.16664	10/100	413.32664	10/50	413.63664				
480-500V			Black	7h	413.16666	10/100	413.32666	10/50	413.63666				
60Hz		440-460V	Red	11h	413.16665	10/100	413.32665	10/50	413.63665				
100-300Hz		>50V	Green	10h	413.16661	10/100	413.32661	10/50	413.63661				
>300-500Hz		>50V	Green	2h	413.16662	10/100	413.32662	10/50	413.63662				
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	413.1662	10/100	413.3262	10/50	413.6362	6/30		
			208-250V	Blue	9h	413.1665	10/100	413.3265	10/50	413.6365			
	346-415V		Red	6h	413.1667	10/100	413.3267	10/50	413.6367	6/30			
	380V 50Hz / 440V 60Hz	Red	3h	413.16674	10/100	413.32674	10/50	413.63674					
	480-500V	Black	7h	413.16676	10/100	413.32676	10/50	413.63676					
	600-690V	Black	5h	413.16677	10/100	413.32677	10/50	413.63677					
	60Hz	440-460V	Red	11h	413.16675	10/100	413.32675	10/50	413.63675				
>300-500Hz	>50V	Green	2h	413.16672	10/100	413.32672	10/50	413.63672					

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54

OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

423.




























 **Mantle terminals**
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

100x110mm

Current	Poles	Hz	Volt	Colour	h		
63A	2P+E	50Hz 60Hz	100-130V		4h	423.6360	
			200-250V		6h	423.6363 6/30	
			380-415V		9h	423.6368	
			480-500V		7h	423.63636	
			TST>50V		12h	423.63633	
			>300-500Hz	>50V		2h	423.63632
	3P+E	50Hz 60Hz	>50-250V		3h	423.63634	
			>250V		8h	423.63638	
			100-130V		4h	423.6361	
			200-250V		9h	423.6364	
			380-415V		6h	423.6366 6/30	
			380V 50Hz / 440V 60Hz		3h	423.63664	
	3P+N+E	50Hz 60Hz	480-500V		7h	423.63666	
			600-690V		5h	423.63667	
			60Hz	440-460V		11h	423.63665
			100-300Hz	>50V		10h	423.63661
			>300-500Hz	>50V		2h	423.63662
			100-130V		4h	423.6362	
3P+N+E	50Hz 60Hz	208-250V		9h	423.6365		
		346-415V		6h	423.6367 6/30		
		380V 50Hz / 440V 60Hz		3h	423.63674		
		480-500V		7h	423.63676		
		600-690V		5h	423.63677		
		60Hz	440-460V		11h	423.63675	
>300-500Hz	>50V		2h	423.63672			



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Spring terminals (FAST WIRING)

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54



■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series







413.



 **Spring terminals**
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

Poles	Hz	Volt	Colour	h	70x87mm		84x106mm	
					16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	413.1660F	10/100	413.3260F	10/50
		200-250V		6h	413.1663F	10/100	413.3263F	10/50
		380-415V		9h	413.1668F	10/100	413.3268F	10/50
3P+E	50Hz 60Hz	200-250V			413.1664F	10/100	413.3264F	10/50
		380-415V			413.1666F	10/100	413.3266F	10/50
3P+N+E		346-415V		6h	413.1667F	10/100	413.3267F	10/50



FAST WIRING
Spring terminals

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Flush mounting sockets outlets [SAFE-IN]

OPTIMA Series

413.









 **Screw terminals**
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

70x87mm

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	413.1660H	10/100
		200-250V		6h	413.1663H	10/100
		380-415V		9h	413.1668H	10/100
3P+E	50Hz 60Hz	200-250V		9h	413.1664H	10/100
		380-415V		6h	413.1666H	10/100
3P+N+E		346-415V		6h	413.1667H	10/100

 Sockets with "SAFE-IN" safety device



THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.



Terminals
Screw terminals

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54



EUREKA Series >> Flush / surface mounting socket outlets

EUREKA Series

452.



Screw terminals
[90° angled outlet]

SOCKET OUTLET

IP44

70x87mm

PG 16

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/100	Part No.	10/40
2P+E	50Hz 60Hz	100-130V	Yellow	4h	452.1660	10/100	452.3260	10/40
		200-250V	Blue	6h	452.1663	10/100	452.3263	10/40
		380-415V	Red	9h	452.1668	10/100	452.3268	10/40
		480-500V	Black	7h	452.16636		452.32636	
		TST>50V	Grey	12h	452.16633		452.32633	
	>300-500Hz	>50V	Green	2h	452.16632		452.32632	
	DC	>50-250V	Grey	3h	452.16634		452.32634	10/40
		>250V	Grey	8h	452.16638		452.32638	
3P+E	50Hz 60Hz	100-130V	Yellow	4h	452.1661	10/60	452.3261	10/40
		200-250V	Blue	9h	452.1664	10/60	452.3264	10/40
		380-415V	Red	6h	452.1666	10/60	452.3266	10/40
		380V 50Hz / 440V 60Hz	Black	3h	452.16664		452.32664	10/40
		480-500V	Black	7h	452.16666		452.32666	
	60Hz	440-460V	Red	11h	452.16665		452.32665	10/40
	100-300Hz	>50V	Green	10h	452.16661	10/60	452.32661	
	>300-500Hz	>50V	Green	2h	452.16662		452.32662	
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	452.1662	10/60	452.3262	10/40
		208-250V	Blue	9h	452.1665	10/60	452.3265	10/40
		346-415V	Red	6h	452.1667	10/60	452.3267	10/40
		380V 50Hz / 440V 60Hz	Black	3h	452.16674		452.32674	10
		480-500V	Black	7h	452.16676		452.32676	10
	60Hz	440-460V	Red	11h	452.16675		452.32675	10
	>300-500Hz	>50V	Green	2h	452.16672	10/60	452.32672	10

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54

EUREKA Series >> Flush mounting socket outlets

EUREKA Series

422.



Screw terminals
[Straight outlet]

Screw terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP44

62x62mm

75x75mm

Poles	Hz	Volt	Colour	h	16A		32A			
					10/100	10/100	10/100	10/50		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	422.1660/R	10/100	422.1660	10/100	422.3260	10/50
		200-250V	Blue	6h	422.1663/R	10/100	422.1663	10/100	422.3263	10/50
		380-415V	Red	9h	422.1668/R	10/100	422.1668	10/100	422.3268	10/50
		480-500V	Black	7h			422.16636	10/100	422.32636	10/50
		TST>50V	Grey	12h			422.16633	10/100	422.32633	10/50
	>300-500Hz	>50V	Green	2h			422.16632	10/100	422.32632	10/50
	DC	>50-250V	Grey	3h			422.16634	10/100	422.32634	10/50
		>250V	Grey	8h			422.16638	10/100	422.32638	10/50
3P+E	50Hz 60Hz	100-130V	Yellow	4h			422.1661	10/100	422.3261	10/50
		200-250V	Blue	9h			422.1664	10/100	422.3264	10/50
		380-415V	Red	6h			422.1666	10/100	422.3266	10/50
		380V 50Hz / 440V 60Hz	Red	3h			422.16664	10/100	422.32664	10/50
		480-500V	Black	7h			422.16666	10/100	422.32666	10/50
	600-690V	Black	5h			422.16667	10/100	422.32667	10/50	
	60Hz	440-460V	Red	11h			422.16665	10/100	422.32665	10/50
100-300Hz	>50V	Green	10h			422.16661	10/100	422.32661	10/50	
>300-500Hz	>50V	Green	2h			422.16662	10/100	422.32662	10/50	
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h			422.1662	10/100	422.3262	10/50
		208-250V	Blue	9h			422.1665	10/100	422.3265	10/50
		346-415V	Red	6h			422.1667	10/100	422.3267	10/50
		380V 50Hz / 440V 60Hz	Red	3h			422.16674	10/100	422.32674	10/50
		480-500V	Black	7h			422.16676	10/100	422.32676	10/50
	600-690V	Black	5h			422.16677	10/100	422.32677	10/50	
	60Hz	440-460V	Red	11h			422.16675	10/100	422.32675	10/50
>300-500Hz	>50V	Green	2h			422.16672	10/100	422.32672	10/50	



Terminals
Screw terminals

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69



■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

418.



Screw terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	70x87mm		84x106mm		
					16A		32A		
					Part No.	10/100	Part No.	10/50	
2P+E	50Hz 60Hz	100-130V		4h	418.1660	10/100	418.3260	10/50	
		200-250V		6h	418.1663	10/100	418.3263	10/50	
		380-415V		9h	418.1668	10/100	418.3268	10/50	
		480-500V		7h	418.16636	10/100	418.32636	10/50	
		TST>50V		12h	418.16633	10/100	418.32633	10/50	
	>300-500Hz	>50V		2h	418.16632	10/100	418.32632	10/50	
	DC	>50-250V		3h	418.16634	10/100	418.32634	10/50	
		>250V		8h	418.16638	10/100	418.32638	10/50	
	3P+E	50Hz 60Hz	100-130V		4h	418.1661	10/100	418.3261	10/50
			200-250V		9h	418.1664	10/100	418.3264	10/50
380-415V				6h	418.1666	10/100	418.3266	10/50	
380V 50Hz / 440V 60Hz				3h	418.16664	10/100	418.32664	10/50	
480-500V				7h	418.16666	10/100	418.32666	10/50	
600-690V			5h	418.16667	10/100	418.32667	10/50		
60Hz		440-460V		11h	418.16665	10/100	418.32665	10/50	
100-300Hz		>50V		10h	418.16661	10/100	418.32661	10/50	
>300-500Hz		>50V		2h	418.16662	10/100	418.32662	10/50	
3P+N+E		50Hz 60Hz	100-130V		4h	418.1662	10/100		
	208-250V			9h	418.1665	10/100	418.3265	10/50	
	346-415V			6h	418.1667	10/100	418.3267	10/50	
	380V 50Hz / 440V 60Hz			3h	418.16674	10/100	418.32674	10/50	
	480-500V			7h	418.16676	10/100	418.32676	10/50	
	600-690V		5h	418.16677	10/100	418.32677	10/50		
	60Hz	440-460V		11h	418.16675	10/100	418.32675	10/50	
	>300-500Hz	>50V		2h	418.16672	10/100	418.32672	10/50	

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69

OPTIMA Series >> Flush mounting socket outlets


























OPTIMA Series

418.



 Mantle terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	FLUSH-MOUNTING SOCKET				
					100x110mm		114x114mm		
					63A		125A		
2P+E	50Hz 60Hz	100-130V		4h	418.6360	6/30	418.12560	1/10	
		200-250V		6h	418.6363	6/30	418.12563	1/10	
		380-415V		9h	418.6368	6/30	418.12568	1/10	
		480-500V		7h	418.63636	6/30	418.125636	1/10	
		TST>50V		12h	418.63633	6/30	418.125633	1/10	
	DC	>300-500Hz	>50V		2h	418.63632	6/30	418.125632	1/10
		>50-250V		3h	418.63634	6/30	418.125634	1/10	
		>250V		8h	418.63638	6/30	418.125638	1/10	
3P+E	50Hz 60Hz	100-130V		4h	418.6361	6/30	418.12561	1/10	
		200-250V		9h	418.6364	6/30	418.12564	1/10	
		380-415V		6h	418.6366	6/30	418.12566	1/10	
		380V 50Hz / 440V 60Hz		3h	418.63664	6/30	418.125664	1/10	
		480-500V		7h	418.63666	6/30	418.125666	1/10	
	60Hz	600-690V		5h	418.63667	6/30	418.125667	1/10	
		440-460V		11h	418.63665	6/30	418.125665	1/10	
		100-300Hz	>50V		10h	418.63661	6/30	418.125661	1/10
		>300-500Hz	>50V		2h	418.63662	6/30	418.125662	1/10
		3P+N+E	50Hz 60Hz	100-130V		4h	418.6362	6/30	418.12562
208-250V				9h	418.6365	6/30	418.12565	1/10	
346-415V				6h	418.6367	6/30	418.12567	1/10	
380V 50Hz / 440V 60Hz				3h	418.63674	6/30	418.125674	1/10	
60Hz	480-500V			7h	418.63676	6/30	418.125676	1/10	
	600-690V			5h	418.63677	6/30	418.125677	1/10	
	440-460V			11h	418.63675	6/30	418.125675	1/10	
	>300-500Hz		>50V		2h	418.63672	6/30	418.125672	1/10



Terminals
Mantle terminals (EASY-PLUG)

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69



■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

428.



Mantle terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	FLUSH-MOUNTING SOCKET				
					100x110mm		114x114mm		
					63A		125A		
2P+E	50Hz 60Hz	100-130V		4h	428.6360	6/30	428.12560	1/10	
		200-250V		6h	428.6363	6/30	428.12563	1/10	
		380-415V		9h	428.6368	6/30	428.12568	1/10	
		480-500V		7h	428.63636	6/30	428.125636	1/10	
		TST>50V		12h	428.63633	6/30	428.125633	1/10	
	DC	>300-500Hz	>50V		2h	428.63632	6/30	428.125632	1/10
			>50-250V		3h	428.63634	6/30	428.125634	1/10
		60Hz	>250V		8h	428.63638	6/30	428.125638	1/10
			100-130V		4h	428.6361	6/30	428.12561	1/10
			200-250V		9h	428.6364	6/30	428.12564	1/10
3P+E	50Hz 60Hz	380-415V		6h	428.6366	6/30	428.12566	1/10	
		380V 50Hz / 440V 60Hz		3h	428.63664	6/30	428.125664	1/10	
		480-500V		7h	428.63666	6/30	428.125666	1/10	
		600-690V		5h	428.63667	6/30	428.125667	1/10	
		60Hz	440-460V		11h	428.63665	6/30	428.125665	1/10
	>300-500Hz	100-300Hz	>50V		10h	428.63661	6/30	428.125661	1/10
		>300-500Hz	>50V		2h	428.63662	6/30	428.125662	1/10
		50Hz 60Hz	100-130V		4h	428.6362	6/30	428.12562	1/10
			208-250V		9h	428.6365	6/30	428.12565	1/10
			346-415V		6h	428.6367	6/30	428.12567	1/10
3P+N+E	50Hz 60Hz	380V 50Hz / 440V 60Hz		3h	428.63674	6/30	428.125674	1/10	
		480-500V		7h	428.63676	6/30	428.125676	1/10	
		600-690V		5h	428.63677	6/30	428.125677	1/10	
		60Hz	440-460V		11h	428.63675	6/30	428.125675	1/10
	>300-500Hz	>50V		2h	428.63672	6/30	428.125672	1/10	

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69

■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series







418.



 Spring terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	70x87mm		84x106mm	
					16A		32A	
					Part No.	10/100	Part No.	10/50
2P+E	50Hz 60Hz	100-130V		4h	418.1660F	10/100	418.3260F	10/50
		200-250V		6h	418.1663F	10/100	418.3263F	10/50
		380-415V		9h	418.1668F	10/100	418.3268F	10/50
3P+E	50Hz 60Hz	200-250V		9h	418.1664F	10/100	418.3264F	10/50
		380-415V		6h	418.1666F	10/100	418.3266F	10/50
3P+N+E		346-415V		6h	418.1667F	10/100	418.3267F	10/50



Terminals
Spring terminals (FAST WIRING)



Terminals
Screw terminals

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69



■ OPTIMA Series >> Flush mounting sockets outlets [SAFE-IN]

OPTIMA Series

418.



Screw terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

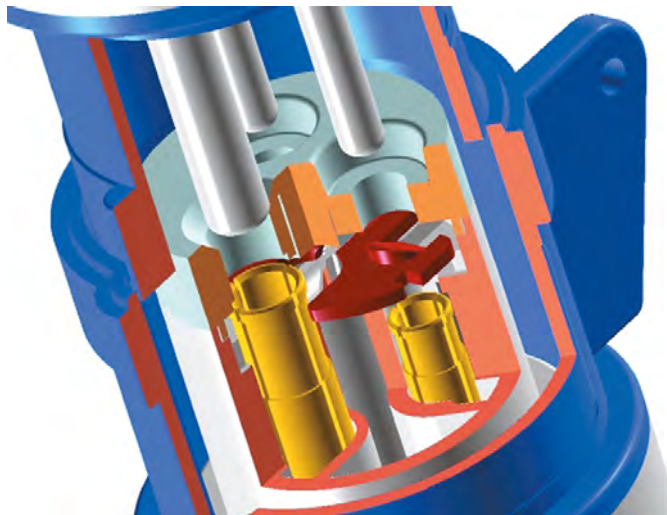
IP66/IP67/IP69

70x87mm

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	418.1660H	10/100
		200-250V		6h	418.1663H	10/100
		380-415V		9h	418.1668H	10/100
3P+E	50Hz 60Hz	200-250V		6h	418.1664H	10/100
		380-415V		6h	418.1666H	10/100
3P+N+E		346-415V		6h	418.1667H	10/100

☉ Sockets with "SAFE-IN" safety device



SAFE-IN

Connector tube protective shutter for increased safety against direct contacts. (The SAFE-IN safety device).

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69

EUREKA Series >> Flush / surface mounting socket outlets

EUREKA Series

457.









 **Screw terminals**
[90° angled outlet]

SOCKET OUTLET

IP66/IP67

70x87mm

PG 16

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/60	Part No.	10/40
2P+E	50Hz 60Hz	100-130V		4h	457.1660	10/60	457.3260	10/40
		200-250V		6h	457.1663	10/60	457.3263	10/40
		380-415V		9h	457.1668	10/60	457.3268	10/40
		480-500V		7h	457.16636		457.32636	10/40
		TST>50V		12h	457.16633		457.32633	
	>300-500Hz	>50V		2h	457.16632		457.32632	
	DC	>50-250V		3h	457.16634		457.32634	10/40
		>250V		8h	457.16638		457.32638	
3P+E	50Hz 60Hz	100-130V		4h	457.1661	10/50	457.3261	10/40
		200-250V		9h	457.1664	10/50	457.3264	10/40
		380-415V		6h	457.1666	10/50	457.3266	10/40
		380V 50Hz / 440V 60Hz		3h	457.16664		457.32664	10/40
		480-500V		7h	457.16666	10/50	457.32666	10/40
	600-690V		5h	457.16667		457.32667		
	60Hz	440-460V		11h	457.16665		457.32665	
	100-300Hz	>50V		10h	457.16661	10/50	457.32661	
>300-500Hz	>50V		2h	457.16662		457.32662		
3P+N+E	50Hz 60Hz	100-130V		4h	457.1662	10/50	457.3262	10/40
		208-250V		9h	457.1665	10/50	457.3265	10/40
		346-415V		6h	457.1667	10/50	457.3267	10/40
		380V 50Hz / 440V 60Hz		3h	457.16674	10/50	457.32674	10/40
		480-500V		7h	457.16676		457.32676	10
	600-690V		5h	457.16677		457.32677	10/40	
	60Hz	440-460V		11h	457.16675		457.32675	10/40
	>300-500Hz	>50V		2h	457.16672		457.32672	10



Terminals
Screw terminals

Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69



EUREKA Series >> Flush mounting socket outlets

EUREKA Series

427.



Screw terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67

75x75mm

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	10/100	Part No.	10/50	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	427.1660	10/100	427.3260	10/50	
		200-250V	Blue	6h	427.1663	10/100	427.3263	10/50	
		380-415V	Red	9h	427.1668	10/100	427.3268	10/50	
		480-500V	Black	7h	427.16636	10/100	427.32636	10/50	
		TST>50V	Grey	12h	427.16633	10/100	427.32633	10/50	
	>300-500Hz	>50V	Green	2h	427.16632	10/100	427.32632	10/50	
	DC	>50-250V	Grey	3h	427.16634	10/100	427.32634	10/50	
		>250V	Grey	8h	427.16638	10/100	427.32638	10/50	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	427.1661	10/100	427.3261	10/50
			200-250V	Blue	9h	427.1664	10/100	427.3264	10/50
380-415V			Red	6h	427.1666	10/100	427.3266	10/50	
380V 50Hz / 440V 60Hz			Red	3h	427.16664	10/100	427.32664	10/50	
480-500V			Black	7h	427.16666	10/100	427.32666	10/50	
60-690V		Black	5h	427.16667	10/100	427.32667	10/50		
60Hz		440-460V	Red	11h	427.16665	10/100	427.32665	10/50	
100-300Hz		>50V	Green	10h	427.16661	10/100	427.32661	10/50	
>300-500Hz		>50V	Green	2h	427.16662	10/100	427.32662	10/50	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	427.1662	10/100	427.3262	10/50
	208-250V		Blue	9h	427.1665	10/100	427.3265	10/50	
	346-415V		Red	6h	427.1667	10/100	427.3267	10/50	
	380V 50Hz / 440V 60Hz		Red	3h	427.16674	10/100	427.32674	10/50	
	480-500V		Black	7h	427.16676	10/100	427.32676	10/50	
	600-690V	Black	5h	427.16677	10/100	427.32677	10/50		
	60Hz	440-460V	Red	11h	427.16675	10/100	427.32675	10/50	
	>300-500Hz	>50V	Green	2h	427.16672	10/100	427.32672	10/50	

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-BASE Series

513.



 **BASE - Screw terminals**

SURFACE MOUNTING SOCKET

IP44/IP54




M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h	M20X1,5		M25X1,5		M32X1,5	
2P+E	50Hz 60Hz	100-130V		4h	513.1650	10/40			513.3250	10
		200-250V			513.1653	10/40			513.3253	10
3P+E	50Hz 60Hz	380-415V		6h			513.1656	10/40	513.3256	10
3P+N+E		346-415V				513.1657	10/40	513.3257	10	

- Open threaded cable entry
- Threaded cap/cable sleeve included

1
INDUSTRY

2

3

4



Terminals
Screw terminals

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



TOP - Screw terminals

SURFACE MOUNTING SOCKET

IP44

Poles	Hz	Volt	Colour	h	SURFACE MOUNTING SOCKET					
					M20X1,5	M25X1,5	M32X1,5			
					16A		32A			
2P+E	50Hz 60Hz	100-130V	Yellow	4h	513.1650T	10/40	513.3250T	10		
		200-250V	Blue	6h	513.1653T	10/40	513.3253T	10		
		380-415V	Red	9h	513.1658T	10/40	513.3258T	10		
		480-500V	Black	7h	513.16536T	10/40	513.32536T	10		
		TST>50V	Grey	12h	513.16533T	10/40	513.32533T	10		
	>300-500Hz	>50V	Green	2h	513.16532T	10/40	513.32532T	10		
	DC	>50-250V	Grey	3h	513.16534T	10/40	513.32534T	10		
		>250V	Grey	8h	513.16538T	10/40	513.32538T	10		
	3P+E	50Hz 60Hz	100-130V	Yellow	4h		513.1651T	10/40	513.3251T	10
			200-250V	Blue	9h		513.1654T	10/40	513.3254T	10
380-415V			Red	6h		513.1656T	10/40	513.3256T	10	
380V 50Hz / 440V 60Hz			Red	3h		513.16564T	10/40	513.32564T	10	
480-500V			Black	7h		513.16566T	10/40	513.32566T	10	
600-690V		Black	5h		513.16567T	10/40	513.32567T	10		
60Hz		440-460V	Red	11h		513.16565T	10/40	513.32565T	10	
100-300Hz		>50V	Green	10h		513.16561T	10/40	513.32561T	10	
>300-500Hz		>50V	Green	2h		513.16562T	10/40	513.32562T	10	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h		513.1652T	10/40	513.3252T	10
	208-250V		Blue	9h		513.1655T	10/40	513.3255T	10	
	346-415V		Red	6h		513.1657T	10/40	513.3257T	10	
	380V 50Hz / 440V 60Hz		Red	3h		513.16574T	10/40	513.32574T	10	
	480-500V		Black	7h		513.16576T	10/40	513.32576T	10	
	600-690V	Black	5h		513.16577T	10/40	513.32577T	10		
	60Hz	440-460V	Red	11h		513.16575T	10/40	513.32575T	10	
	>300-500Hz	>50V	Green	2h		513.16572T	10/40	513.32572T	10	

- Threaded break-through knock out
- Rubber threaded cable sleeve included

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



 **TOP - Spring terminals**

SURFACE MOUNTING SOCKET

IP44/IP54







M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h	M20X1,5		M25X1,5		M32X1,5	
2P+E	50Hz 60Hz	100-130V		4h	513.1650TF	10/40			513.3250TF	10
		200-250V		6h	513.1653TF	10/40			513.3253TF	10
		380-415V		9h	513.1658TF	10/40			513.3258TF	10
3P+E	50Hz 60Hz	200-250V					513.1654TF	10/40	513.3254TF	10
		380-415V		6h			513.1656TF	10/40	513.3256TF	10
3P+N+E		346-415V					513.1657TF	10/40	513.3257TF	10

- Threaded break-through knock out
- Rubber threaded cable sleeve included

1
INDUSTRY

2

3

4



Terminals
Spring terminals (FAST WIRING)



Terminals
Mantle terminals (EASY-PLUG)

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



TOP - Mantle terminals

SURFACE MOUNTING SOCKET

IP44

M40X1,5

63A

Poles	Hz	Volt	Colour	h	Product Code	Quantity	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	513.6350T	4	
		200-250V	Blue	6h	513.6353T	4	
		380-415V	Red	9h	513.6358T	4	
		480-500V	Black	7h	513.63536T		
		TST>50V	Grey	12h	513.63533T		
	>300-500Hz	>50V	Green	2h	513.63532T		
	DC	>50-250V	Grey	3h	513.63534T		
		>250V	Grey	8h	513.63538T		
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	513.6351T	4
			200-250V	Blue	9h	513.6354T	4
380-415V			Red	6h	513.6356T	4	
380V 50Hz / 440V 60Hz			Black	3h	513.63564T		
480-500V			Black	7h	513.63566T		
600-690V		Red	5h	513.63567T			
60Hz		440-460V	Red	11h	513.63565T		
100-300Hz		>50V	Green	10h	513.63561T		
>300-500Hz		>50V	Green	2h	513.63562T		
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	513.6352T	4
	208-250V		Blue	9h	513.6355T	4	
	346-415V		Red	6h	513.6357T	4	
	380V 50Hz / 440V 60Hz		Black	3h	513.63574T		
	480-500V		Black	7h	513.63576T		
	600-690V	Red	5h	513.63577T			
	60Hz	440-460V	Red	11h	513.63575T		
	>300-500Hz	>50V	Green	2h	513.63572T		

- Open threaded cable entry
- Cable gland included

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.









 **TOP - Screw terminals [SAFE-IN]**

SURFACE MOUNTING SOCKET

IP44/IP54

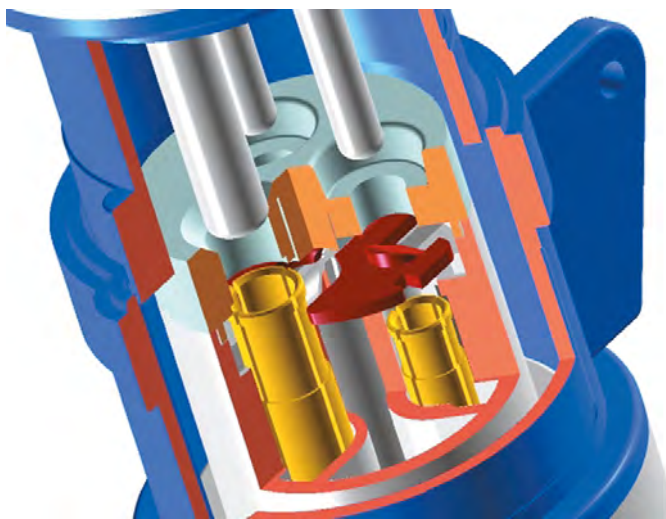
M20X1,5

M25X1,5

Poles	Hz	Volt	Colour	h	16A	
2P+E	50Hz 60Hz	100-130V		4h	513.1650TH	10/40
		200-250V		6h	513.1653TH	10/40
		380-415V		9h	513.1658TH	10/40
3P+E	50Hz 60Hz	200-250V				513.1654TH 10/40
		380-415V				513.1656TH 10/40
3P+N+E		346-415V		6h		513.1657TH 10/40

 Sockets with "SAFE-IN" safety device

- Threaded break-through knock out
- Rubber threaded cable sleeve included



SAFE-IN

Connector tube protective shutter for increased safety against direct contacts. (The SAFE-IN safety device).



Terminals
Screw terminals



FRENCH STANDARD 16A
Shuttered socket



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 16A
Shuttered socket



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



ARGENTINIAN STANDARD 10A
Unshuttered socket



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-COMBI Series

513.



COMBI - Screw terminals

SURFACE MOUNTING SOCKET

IP44/IP54

M32X1,5

Poles	Hz	Volt	Colour	h	Version	16A		32A	
						Code	Quantity	Code	Quantity
2P+E	200-250V	■	■	5h	FRENCH	513.1653-FN	10	513.3253-FF ¹	10
					GERMAN	513.1653-DN	10	513.3253-DF ¹	10
					ITALIAN P30	513.1653-PN	10	513.3253-PF ¹	10
					ITALIAN P40	513.1653-LN	10	513.3253-LF ¹	10
					BRITISH BS1363	513.1653-BN ¹	10	513.3253-BF ¹	10
					ARGENTINE	513.1653-AF ¹	10	513.3253-AF ¹	10
					BRAZILIAN	513.1653-CF ¹	10	513.3253-CF ¹	10
					DANISH	513.1653-KN	10	513.3253-KF ¹	10
					FRENCH	513.1656-FN	10	513.3256-FF ¹	10
					GERMAN	513.1656-DN	10	513.3256-DF ¹	10
					ITALIAN P30	513.1656-PN	10	513.3256-PF ¹	10
					ITALIAN P40	513.1656-LN	10	513.3256-LF ¹	10
					BRITISH BS1363	513.1656-BN ¹	10	513.3256-BF ¹	10
					ARGENTINE	513.1656-AF ¹	10	513.3256-AF ¹	10
BRAZILIAN	513.1656-CF ¹	10	513.3256-CF ¹	10					
3P+E	50Hz 60Hz	■	■	6h	DANISH	513.1656-KN	10	513.3256-KF ¹	10
					FRENCH	513.1657-FN	10	513.3257-FF ¹	10
					GERMAN	513.1657-DN	10	513.3257-DF ¹	10
					ITALIAN P30	513.1657-PN	10	513.3257-PF ¹	10
					ITALIAN P40	513.1657-LN	10	513.3257-LF ¹	10
					BRITISH BS1363	513.1657-BN ¹	10	513.3257-BF ¹	10
					ARGENTINE	513.1657-AF ¹	10	513.3257-AF ¹	10
					BRAZILIAN	513.1657-CF ¹	10	513.3257-CF ¹	10
					DANISH	513.1657-KN	10	513.3257-KF ¹	10
					FRENCH	513.1657-FN	10	513.3257-FF ¹	10
					GERMAN	513.1657-DN	10	513.3257-DF ¹	10
					ITALIAN P30	513.1657-PN	10	513.3257-PF ¹	10
					ITALIAN P40	513.1657-LN	10	513.3257-LF ¹	10
					BRITISH BS1363	513.1657-BN ¹	10	513.3257-BF ¹	10
ARGENTINE	513.1657-AF ¹	10	513.3257-AF ¹	10					
BRAZILIAN	513.1657-CF ¹	10	513.3257-CF ¹	10					
DANISH	513.1657-KN	10	513.3257-KF ¹	10					
3P+N+E	346-415V	■	■	6h	DANISH	513.1657-KN	10	513.3257-KF ¹	10

¹ Household socket protected by 10A fuse [time-delay] (included)

- Open threaded cable entry
- Rubber threaded cable sleeve included
- COMBI version: combining industrial and household sockets



DANISH STANDARD
Shuttered socket

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

512.



 **Screw terminals**
[Angled box]

SURFACE MOUNTING SOCKET

IP44/IP54

M20X1,5

M25X1,5

M32X1,5

Poles	Hz	Volt	Colour	h	16A		32A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	512.1650	10/50	512.3250	10/40	
		200-250V	Blue	6h	512.1653	10/50	512.3253	10/40	
		380-415V	Red	9h	512.1658	10/50	512.3258	10/40	
3P+E	50Hz 60Hz	100-130V	Yellow	4h		512.1651	10/50	512.3251	10/40
		200-250V	Blue	9h		512.1654	10/50	512.3254	10/40
		380-415V	Red	6h		512.1656	10/50	512.3256	10/40
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h		512.1652	10/50	512.3252	10/40
		208-250V	Blue	9h		512.1655	10/50	512.3255	10/40
		346-415V	Red	6h		512.1657	10/50	512.3257	10/40

- Open threaded cable entry
- Threaded cap/cable sleeve included



Terminals
Screw terminals

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

522.



Screw terminals
[Straight box]

SURFACE MOUNTING SOCKET

IP44/IP54

DRILLING POINT MARK

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Lead time	Part No.	Lead time
2P+E	50Hz 60Hz	100-130V	Yellow	4h	522.1650	10/50	522.3250	10/40
		200-250V	Blue	6h	522.1653	10/50	522.3253	10/40
		380-415V	Red	9h	522.1658	10/50	522.3258	10/40
3P+E	50Hz 60Hz	100-130V	Yellow	4h	522.1651	10/50	522.3251	10/40
		200-250V	Blue	9h	522.1654	10/50	522.3254	10/40
		380-415V	Red	6h	522.1656	10/50	522.3256	10/40
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	522.1652	10/50	522.3252	10/40
		208-250V	Blue	9h	522.1655	10/50	522.3255	10/40
		346-415V	Red	6h	522.1657	10/50	522.3257	10/40

- Blank side with drilling point mark
- Rubber cable sleeve included

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69

OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series


























518.



 **TOP - Screw terminals**

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	MOUNTING			10/40	10
					IP66/IP67/IP69				
					M20X1,5	M25X1,5	M32X1,5		
					16A	32A			
2P+E	50Hz 60Hz	100-130V		4h	518.1650T	10/40	518.3250T	10	
		200-250V		6h	518.1653T	10/40	518.3253T	10	
		380-415V		9h	518.1658T	10/40	518.3258T	10	
		480-500V		7h	518.16536T	10/40	518.32536T	10	
	DC	TST>50V		12h	518.16533T	10/40	518.32533T	10	
		>300-500Hz	>50V		2h	518.16532T	10/40	518.32532T	10
		>50-250V		3h	518.16534T	10/40	518.32534T	10	
		>250V		8h	518.16538T	10/40	518.32538T	10	
3P+E	50Hz 60Hz	100-130V		4h	518.1651T	10/40	518.3251T	10	
		200-250V		9h	518.1654T	10/40	518.3254T	10	
		380-415V		6h	518.1656T	10/40	518.3256T	10	
		380V 50Hz / 440V 60Hz		3h	518.16564T	10/40	518.32564T	10	
	60Hz	480-500V		7h	518.16566T	10/40	518.32566T	10	
		600-690V		5h	518.16567T	10/40	518.32567T	10	
		440-460V		11h	518.16565T	10/40	518.32565T	10	
		100-300Hz	>50V		10h	518.16561T	10/40	518.32561T	10
>300-500Hz	>50V		2h	518.16562T	10/40	518.32562T	10		
3P+N+E	50Hz 60Hz	100-130V		4h	518.1652T	10/40	518.3252T	10	
		208-250V		9h	518.1655T	10/40	518.3255T	10	
		346-415V		6h	518.1657T	10/40	518.3257T	10	
		380V 50Hz / 440V 60Hz		3h	518.16574T	10/40	518.32574T	10	
	60Hz	480-500V		7h	518.16576T	10/40	518.32576T	10	
		600-690V		5h	518.16577T	10/40	518.32577T	10	
		440-460V		11h	518.16575T	10/40	518.32575T	10	
		>300-500Hz	>50V		2h	518.16572T	10/40	518.32572T	10

- Threaded break-through knock out



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



TOP - Spring terminals

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	M20X1,5		M25X1,5		M32X1,5	
					16A		16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	518.1650TF	10/40			518.3250TF	10
		200-250V		6h	518.1653TF	10/40			518.3253TF	10
		380-415V		9h	518.1658TF	10/40			518.3258TF	10
3P+E	50Hz 60Hz	200-250V					518.1654TF	10/40	518.3254TF	10
		380-415V		6h			518.1656TF	10/40	518.3256TF	10
		380V 50Hz / 440V 60Hz		3h					518.32564TF	10
3P+N+E		346-415V		6h			518.1657TF	10/40	518.3257TF	10

- Threaded break-through knock out

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series


























518.



 **TOP - Mantle terminals**

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	M40X1,5		M63X1,5		
					63A		125A		
2P+E	50Hz 60Hz	100-130V		4h	518.6350T	4	518.12550T	1/4	
		200-250V		6h	518.6353T	4	518.12553T	1/4	
		380-415V		9h	518.6358T	4	518.12558T	1/4	
		480-500V		7h	518.63536T		518.125536T		
		TST>50V		12h	518.63533T		518.125533T		
	DC	>300-500Hz	>50V		2h	518.63532T		518.125532T	
		>50-250V		3h	518.63534T		518.125534T		
		>250V		8h	518.63538T		518.125538T		
3P+E	50Hz 60Hz	100-130V		4h	518.6351T	4	518.12551T	1/4	
		200-250V		9h	518.6354T	4	518.12554T	1/4	
		380-415V		6h	518.6356T	4	518.12556T	1/4	
		380V 50Hz / 440V 60Hz		3h	518.63564T		518.125564T		
		480-500V		7h	518.63566T		518.125566T		
	60Hz	600-690V		5h	518.63567T		518.125567T		
		440-460V		11h	518.63565T		518.125565T		
		100-300Hz	>50V		10h	518.63561T		518.125561T	
		>300-500Hz	>50V		2h	518.63562T		518.125562T	
		3P+N+E	50Hz 60Hz	100-130V		4h	518.6352T	4	518.12552T
208-250V				9h	518.6355T	4	518.12555T	1/4	
346-415V				6h	518.6357T	4	518.12557T	1/4	
380V 50Hz / 440V 60Hz				3h	518.63574T		518.125574T		
480-500V				7h	518.63576T		518.125576T		
60Hz	600-690V			5h	518.63577T		518.125577T		
	440-460V			11h	518.63575T		518.125575T		
	>300-500Hz		>50V		2h	518.63572T		518.125572T	

- Open threaded cable entry
- Cable gland included



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Screw terminals

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



TOP - Screw terminals [SAFE-IN]

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

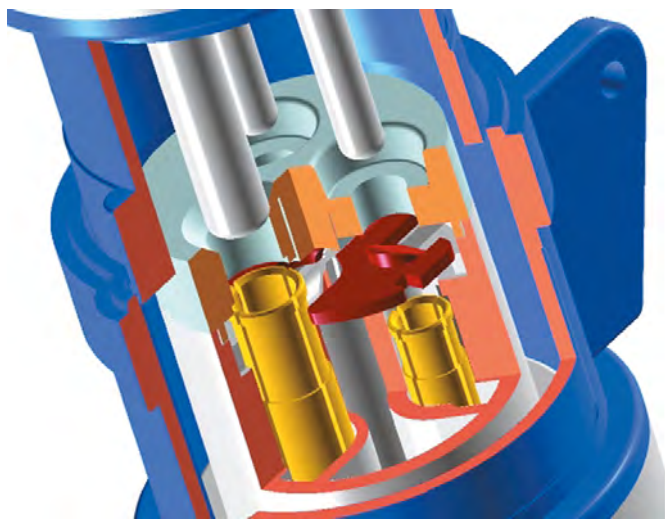
M20X1,5

M25X1,5

Poles	Hz	Volt	Colour	h	16A	
2P+E	50Hz 60Hz	100-130V		4h	518.1650TH	10/40
		200-250V		6h	518.1653TH	10/40
		380-415V		9h	518.1658TH	10/40
3P+E	50Hz 60Hz	200-250V				518.1654TH 10/40
		380-415V				518.1656TH 10/40
3P+N+E		346-415V		6h		518.1657TH 10/40

☉ Sockets with "SAFE-IN" safety device

- Threaded break-through knock out



SAFE-IN

Connector tube protective shutter for increased safety against direct contacts. (The SAFE-IN safety device).

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series











517.



 **Screw terminals**
[Angled box]

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	SURFACE MOUNTING SOCKET				
					M20X1,5	M25X1,5	M32X1,5		
					16A		32A		
2P+E		100-130V		4h	517.1650	10/50	517.3250	10/40	
		200-250V		6h	517.1653	10/50	517.3253	10/40	
		380-415V		9h	517.1658	10/50	517.3258	10/40	
3P+E	50Hz 60Hz	100-130V		4h		517.1651	10/50	517.3251	10/40
		200-250V		9h		517.1654	10/50	517.3254	10/40
		380-415V		6h		517.1656	10/50	517.3256	10/40
		380V 50Hz / 440V 60Hz		3h				517.32564	10/40
3P+N+E		100-130V		4h		517.1652	10/40	517.3252	10/40
		208-250V		9h		517.1655	10/40	517.3255	10/40
		346-415V		6h		517.1657	10/40	517.3257	10/40

- Open threaded cable entry
- Threaded cap/cable sleeve included



Terminals
Screw terminals

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

527.



Screw terminals
[Straight box]

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

DRILLING POINT MARK

Poles	Hz	Volt	Colour	h	16A		32A	
					Code	Dimensions	Code	Dimensions
2P+E	50Hz 60Hz	100-130V	Yellow	4h	527.1650	10/50	527.3250	10/40
		200-250V	Blue	6h	527.1653	10/50	527.3253	10/40
		380-415V	Red	9h	527.1658	10/50	527.3258	10/40
3P+E	50Hz 60Hz	100-130V	Yellow	4h	527.1651	10/50	527.3251	10/40
		200-250V	Blue	9h	527.1654	10/50	527.3254	10/40
		380-415V	Red	6h	527.1656	10/50	527.3256	10/40
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	527.1652	10/50	527.3252	10/40
		208-250V	Blue	9h	527.1655	10/50	527.3255	10/40
		346-415V	Red	6h	527.1657	10/50	527.3257	10/40

- Blank side with drilling point mark

1.2



Connectors and sockets for industrial applications

Surface mounting switched socket outlets without interlock - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.





 **TOP SWITCH - Screw terminals**

SURFACE MOUNTING SOCKET

IP44/IP54

M25X1,5

M32X1,5

Poles	Hz	Volt	Colour	h	16A		32A			
					Part No.	Qty	Part No.	Qty		
2P+E		200-250V			513.1653TS ^{1 2}	10	513.3253TS.A ^{1 2}	10	513.3253TS ³	10
3P+E	50Hz 60Hz	380-415V		6h	513.1656TS ^{1 2}	10	513.3256TS.A ^{1 2}	10	513.3256TS ³	10
3P+N+E		346-415V			513.1657TS ^{1 2}	10	513.3257TS.A ^{1 2}	10	513.3257TS ³	10

¹ Open threaded cable entry

² Threaded cap/cable sleeve included

³ Threaded break-through knock out



Terminals
Screw terminals



FRENCH STANDARD 16A
Shuttered socket



ARGENTINIAN STANDARD 10A
Unshuttered socket

Connectors and sockets for industrial applications

Surface mounting switched socket outlets without interlock - IP44/IP54



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-COMBI Series

513.



COMBI SWITCH - Screw terminals

SURFACE MOUNTING SOCKET

IP44/IP54

M32X1,5

Poles	Hz	Volt	Colour	h	Version	no.	16A		32A	
2P+E		200-250V	Blue		☺ FRENCH	1	513.1653-1FNS	8	513.3253-1FFS¹	8
					☒ ARGENTINE	2	513.1653-2AFS¹	8	513.3253-2AFS¹	8
					☺ FRENCH	1	513.1656-1FNS	8	513.3256-1FFS¹	8
					☒ ARGENTINE	2	513.1656-2AFS¹	8	513.3256-2AFS¹	8
3P+E	50Hz 60Hz	380-415V	Red	6h	☺ FRENCH	1	513.1657-1FNS	8	513.3257-1FFS¹	8
					☒ ARGENTINE	2	513.1657-2AFS¹	8	513.3257-2AFS¹	8
					☺ FRENCH	1	513.1657-1FNS	8	513.3257-1FFS¹	8
					☒ ARGENTINE	2	513.1657-2AFS¹	8	513.3257-2AFS¹	8

¹ Household socket protected by 10A fuse [time-delay] (included)

- Open threaded cable entry
- Rubber threaded cable sleeve included
- COMBI version: combining industrial and household sockets

1.2



Connectors and sockets for industrial applications

Surface mounting switched socket outlets without interlock - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-COMBI Series

513.




 **COMBI REVERSE
L-0-R - Screw
terminals**

SURFACE MOUNTING SOCKET

IP44/IP54

M32X1,5

Poles	Hz	Volt	Colour	h	Version	no.	16A		32A	
3P+E	50Hz 60Hz	380-415V		6h	☺ FRENCH	1	513.1656-1FNR	8	513.3256-1FFR ¹	8
						2	513.1656-2FNR	8	513.3256-2FFR ¹	8
3P+N+E		346-415V				1	513.1657-1FNR	8	513.3257-1FFR ¹	8
						2	513.1657-2FNR	8	513.3257-2FFR ¹	8

¹ Household socket protected by 10A fuse [time-delay] (included)

- Open threaded cable entry
- Rubber threaded cable sleeve included
- REVERSE L-0-R: With phase reversing switch
- COMBI version: combining industrial and household sockets

1
INDUSTRY

2

3

4



**FRENCH STANDARD
16A**
Shuttered socket



Terminals
Screw terminals

Connectors and sockets for industrial applications

Surface mounting switched socket outlets without interlock - IP66/IP67/IP69



■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



TOP SWITCH - Screw terminals

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

M25X1,5

M32X1,5

Poles	Hz	Volt	Colour	h	16A		32A			
					Part No.	Qty	Part No.	Qty		
2P+E		200-250V	Blue		518.1653TS ^{1 2}	10	518.3253TS.A ^{1 2}	10	518.3253TS ³	10
3P+E	50Hz 60Hz	380-415V	Red	6h	518.1656TS ^{1 2}	10	518.3256TS.A ^{1 2}	10	518.3256TS ³	10
3P+N+E		346-415V			518.1657TS ^{1 2}	10	518.3257TS.A ^{1 2}	10	518.3257TS ³	10

¹ Open threaded cable entry

² Threaded cap/cable sleeve included

³ Threaded break-through knock out

1.2



Connectors and sockets for industrial applications

Domestic standard socket for industrial applications - IP54

DOMO Series >> Flush mounting

DOMO Series

570.



50x60mm



70x87mm



70x87mm

FLUSH-MOUNTING SOCKET		SURFACE MOUNTING SOCKET	
50x60mm	70x87mm		
IP54			

Current	Poles	Volt	Version	Colour	DRILLING POINT MARK					
10A			ARGENTINE		570.2093	10/100	570.4093	10/100	570.4193 [2] [3]	9/90
13A			BRITISH BS1363		570.2041	10/100	570.4041	10/100	570.4141 [2] [3]	9/90
16A	2P+E	250V	FRENCH		570.2091	10/100	570.4091	10/100	570.4191 [2] [3]	9/90
					570.2591 [1]	10/100				
			GERMAN		570.2062	10/100	570.4062	10/100	570.4162 [2] [3]	9/90
			ITALIAN P30		570.2081	10/100	570.4081	10/100	570.4181 [2] [3]	9/90
			ITALIAN P40				570.4051	10/100	570.4151 [2] [3]	9/90
			ITALIAN P17/11		570.2071	10/100	570.4071	10/100	570.4171 [2] [3]	9/90
			GERMAN UNSHUTTER		570.2061 [1]	10/100	570.4061 [1]	10/100	570.4161 [1] [2] [3]	9/90
				570.2561 [1]	10/100					
20A			BRAZILIAN		570.2092	10/100	570.4092	10/100	570.4192 [2] [3]	9/90

- [1] Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.
- [2] Blank side with drilling point mark
- [3] Rubber cable sleeve included



570.2001

Accessory used to fix the DOMO Series sockets (50x60 mm) on the side entries of the ENERBOX Series



FRENCH STANDARD 16A
Shuttered socket



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 16A
Shuttered socket



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



ITALIAN STANDARD P17/11 16A (bivalente)
Shuttered socket CEI 23-50



ARGENTINIAN STANDARD 10A
Unshuttered socket



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002

Connectors and sockets for industrial applications

Domestic standard socket for industrial applications - IP54



DOMO Series

570.



With switch

SURF. MOUNT. SOCKET WITH SWITCH

IP54

Current	Poles	Volt	Version	Colour		
13A	2P+E	250V	BRITISH BS1363		570.7180	1/12

Accessories for plugs and sockets

ENCLOSURES ACCESSORIES

654.



Description	Flange	Notes	Colour	IP	Plates
CUT-OUT PLATE - With gasket	70x87mm	70x87 --> 50x60		IP66	654.0103 25



**GERMAN STANDARD
16A**
Unshuttered socket

1.2



Connectors and sockets for industrial applications

Domestic standard socket for industrial applications - IP54

Accessories for plugs and sockets

DOMO Series

570.



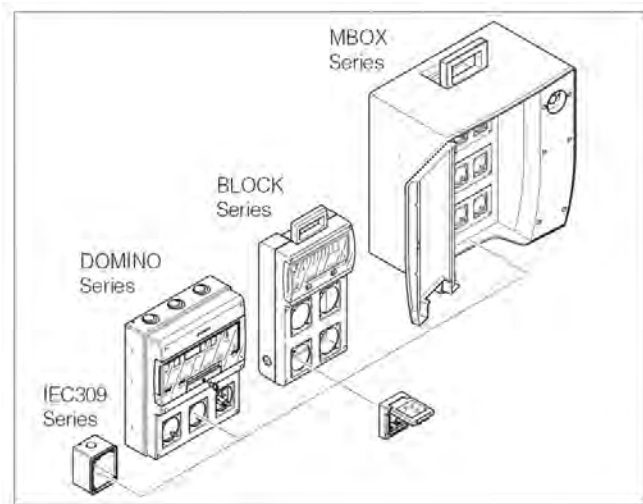
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INDUSTRY

Description	Flange	IP	Suitable for	Colour	Watertight cover	
CABINET FIXING					570.2001	10/100
FLUSH MOUNTING FRAME	70x87mm	IP55	EVOLUTION BTICINO	■	570.5052 ^[1]	10/100
					570.5012 ^{[1][2]}	10/100

[1] Modules snap into place.

[2] Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.

2
3
4



DOMO Series
Examples of installation (flange 70x87mm)



RJ45
Standard Ethernet



ITALIAN STANDARD P17/11 16A (bivalente)
Shuttered socket CEI 23-50



FRENCH STANDARD 16A
Shuttered socket



BRITISH STANDARD 15A
Shuttered socket BS 546



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 16A
Shuttered socket



BRITISH STANDARD 13A
Shuttered socket BS 1363-2

Connectors and sockets for industrial applications

BS socket for industrial applications - IP66



■ DOMOPLUS Series - Domestic standard sockets for industrial applications - IP66

DOMOPLUS Series

570.



Description	Version	Current Dimension	Flush mounting 70x87mm	Accessories
RJ45 OUTLET	RJ45		570.6481.50 ^[1] 1/12	
ENCLOSURE				570.6001 ^{[2] [3]} 1/12
GERMAN STANDARD SOCKET	GERMAN		570.6407 1/12	
ITALIAN P30 STANDARD SOCKET	ITALIAN P30	16A	570.6404 1/12	
ITALIAN P40 STANDARD SOCKET	ITALIAN P40		570.6405 1/12	
SINGLE UNSWITCHED SOCKET	BRITISH BS546	15A	570.6414 1/12	
	BRITISH BS1363	13A	570.6413 1/12	
ITALIAN P17/11 STANDARD SOCKET	ITALIAN P17/11 (DUAL USE)	16A	570.6403 1/12	
FRENCH STANDARD SOCKET	FRENCH		570.6411 1/12	
ARGENTINIAN STANDARD SOCKET	ARGENTINE	10A	570.6424 1/12	
NEOZELANDER STANDARD SOCKET	NEW ZELAND		570.6427 1/12	
SOUTH AFRICAN STANDARD SOCKET	SOUTH AFRICAN	16A	570.6428 1/12	
SWISS STANDARD SOCKET	SWISS	10A	570.6417 1/12	
BRAZILIAN STANDARD SOCKET	BRAZILIAN		570.6421 1/12	
PANEL MOUNTING ADAPTOR				570.6011 5

- [1] RJ45 - Cat.5E
- [2] Empty enclosure
- [3] Accepts SCAME EVOLUTION Series inserts.



570.6001
The empty container accepts EVOLUTION Series modules

SWISS STANDARD 10A Unshuttered socket SEV 1011:1998	ARGENTINIAN STANDARD 10A Unshuttered socket	BRAZILIAN STANDARD 10A Unshuttered socket ABNT NBR 14136:2002	NEW ZEALAND STANDARD 10A Unshuttered socket AS/NZS 3112	SOUTH AFRICAN STANDARD 16A Shuttered socket SANS 164:1 (2006)	IP66 Specifically high formulated gel seal to maintain protection degree when the plug is inserted

1.2



Connectors and sockets for industrial applications

Accessories for sockets

Boxes

DOMO Series

570.



Surface mounting boxes

Surface mounting boxes

Cable outlet	Current	Colour	SURFACE MOUNTING BOX			
			STRAIGHT		ANGLED	
			IP66/IP67/IP69			
DRILLING POINT MARK	16A		570.0016 ³ ₄	10/100	570.0116 ³ ₄	10
	32A		570.0032 ³ ₄	10	570.0132 ³ ₄	10
M20X1,5	16A				570.0116.20 ¹ ₂	10
M25X1,5	16A				570.0116.25 ¹ ₂	10
M32X1,5	32A				570.0132.32 ¹ ₂	10
M40X1,5	63A				570.M0163 ¹ ₂	6
M63X1,5	125A				570.M0125 ¹ ₂	6

- ¹ Open threaded cable entry
- ² Threaded cap/cable sleeve included
- ³ Blank side with drilling point mark
- ⁴ Rubber cable sleeve included
- Suitable for the sealing caps
- Supplied with socket fastening screws.

Kit

ENCLOSURES ACCESSORIES

654.



Description	Flange	Notes	Colour	IP	Flange adapter
CUT-OUT PLATE	84x106mm	84x106 --> 75x75		IP66	654.0108 5
- With gasket					

Connectors and sockets for industrial applications

Accessories for sockets



Kit

OPTIMA Series

654.



Description	Notes	Kit micro-switch (suitable for OPTIMA Series)	
MICROSWITCH KIT	16/32A NC	654.0392	10
	16/32A NO	654.0391	10
	63/125A NC	654.0394	10
	63/125A NO	654.0393	10

- Suited for flush mounting angled outlet versions only
- For inserted plug detection

OPTIMA-TOP Series

654.



Description	Notes	Kit accessories for plugs and sockets	
TERMINAL BLOCKS LOOP IN/OUT	6mm ²	654.0382	10/100

- For 5-pole OPTIMA-TOP executions

UNION Series

805.



Description	IP	Colour	Cable outlet	Kit accessories for plugs and sockets
THREADED CABLE SLEEVE	IP55		M20X1,5	805.5020 100/1000
			M25X1,5	805.5025 100/1000
			M32X1,5	805.5032 100/1000

1.2

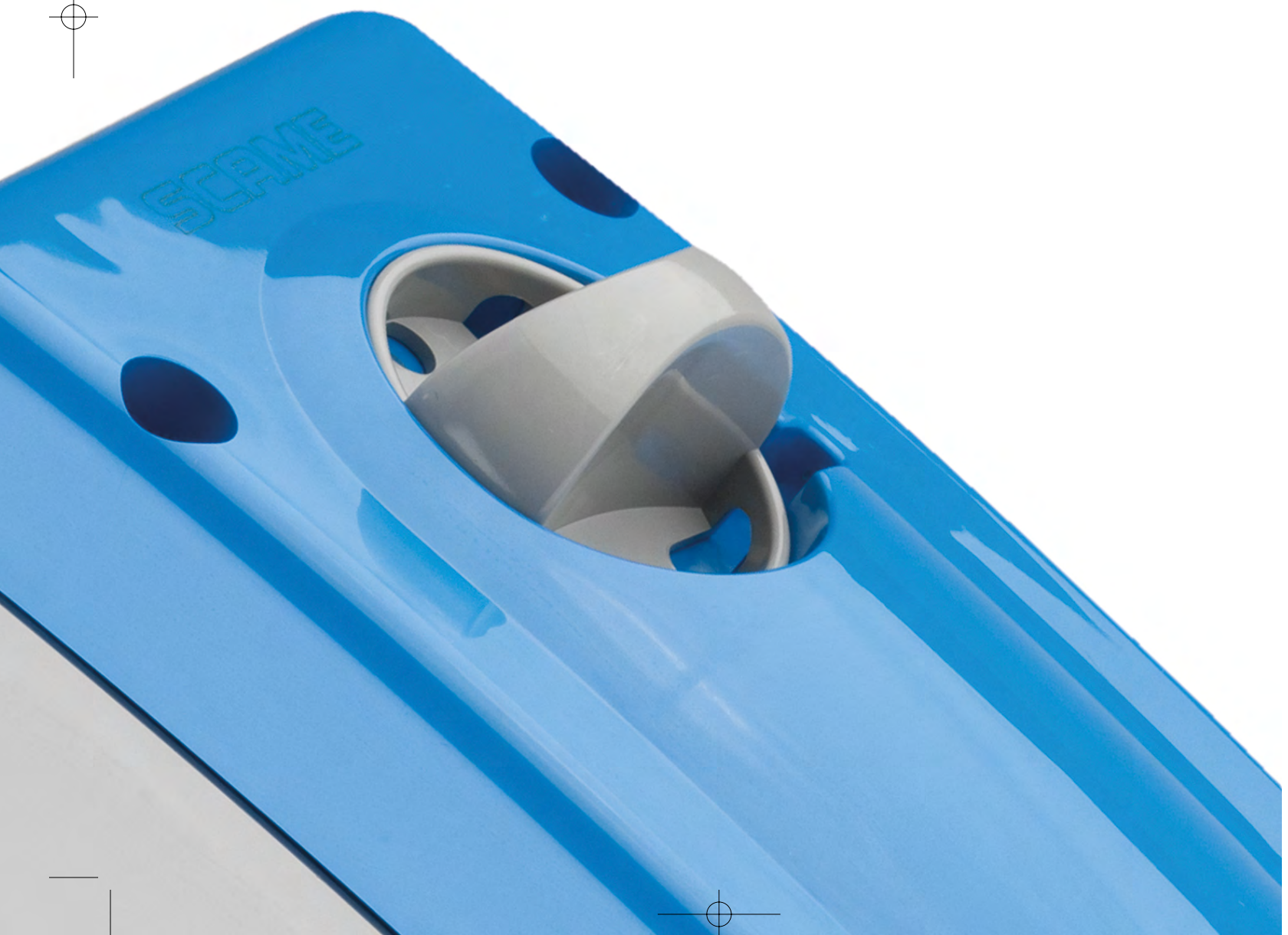


1.3

Switched interlocked sockets outlets

- **OMNIA Series**
Interlocked-switch socket outlets for industrial applications
- **OMNIAPLUS Series**
Domestic interlocked socket
- **OMNIA System**
Flush and surface mounting modular system
- **ADVANCE2 Series**
Interlocked-switch socket outlets for industrial applications
- **ADVANCE2 System**
Modular system for combination units - IP66
- **ADVANCE-GRP Series**
Interlocked-switch socket outlets for industrial applications
- **ADVANCE-GRP System**
Modular system - IP66





Switched interlocked sockets outlets

OMNIA Series

■ Rated voltage >50V >> Without fuse carrier >> Flush mounting

OMNIA Series

400.



IP44

INTERLOCKED SOCKET

IP44

136x125mm

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	6	Part No.	6	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	400.1670	6	400.3270	6	
		200-250V	Blue	6h	400.1683	6	400.3283	6	
		380-415V	Red	9h	400.1678	6	400.3278	6	
		480-500V	Black	7h	400.16836	6	400.32836	6	
		TST>50V	Grey	12h	400.16833	6	400.32833	6	
	>300-500Hz	>50V	Green	2h	400.16832 ^[1]	6	400.32832 ^[1]	6	
	DC	>50-250V	Grey	3h	400.16834 ^[2]	6	400.32834 ^[2]	6	
		>250V	Grey	8h	400.16838 ^[2]	6	400.32838 ^[2]	6	
3P+E	50Hz 60Hz	100-130V	Yellow	4h	400.1672	6	400.3272	6	
		200-250V	Blue	9h	400.1674	6	400.3274	6	
		380-415V	Red	6h	400.1686	6	400.3286	6	
		380V 50Hz / 440V 60Hz	Red	3h	400.16864	6	400.32864	6	
		480-500V	Black	7h	400.16866	6	400.32866	6	
	60Hz	440-460V	Red	11h	400.16865	6	400.32865	6	
	100-300Hz	>50V	Green	10h	400.16861 ^[1]	6	400.32861 ^[1]	6	
	>300-500Hz	>50V	Green	2h	400.16862 ^[1]	6	400.32862 ^[1]	6	
	3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	400.1679	6	400.3279	6
			208-250V	Blue	9h	400.1675	6	400.3275	6
346-415V			Red	6h	400.1687	6	400.3287	6	
380V 50Hz / 440V 60Hz			Red	3h	400.16874	6	400.32874	6	
480-500V			Black	7h	400.16876	6	400.32876	6	
60Hz		440-460V	Red	11h	400.16875	6	400.32875	6	
>300-500Hz		>50V	Green	2h	400.16872 ^[1]	6	400.32872 ^[1]	6	

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.

1

INDUSTRY

2

3

4

Switched interlocked sockets outlets

OMNIA Series



■ Rated voltage >50V >> Without fuse carrier >> Flush mounting

OMNIA Series

405.



IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

Poles	Hz	Volt	Colour	h	136x125mm								
					16A			32A			136x275mm		
					63A			63A			63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	405.1670	6	405.3270	6	405.6370	1/6			
		200-250V	Blue	6h	405.1683	6	405.3283	6	405.6383	1/6			
		380-415V	Red	9h	405.1678	6	405.3278	6	405.6378	1/6			
		480-500V	Black	7h	405.16836	6	405.32836	6	405.63836	1/6			
		TST>50V	Grey	12h	405.16833	6	405.32833	6	405.63833	1/6			
	>300-500Hz	>50V	Green	2h	405.16832 ¹	6	405.32832 ¹	6					
	DC	>50-250V	Grey	3h	405.16834 ²	6	405.32834 ²	6					
		>250V	Grey	8h	405.16838 ²	6	405.32838 ²	6					
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	405.1672	6	405.3272	6	405.6372	1/6		
			200-250V	Blue	9h	405.1674	6	405.3274	6	405.6374	1/6		
380-415V			Red	6h	405.1686	6	405.3286	6	405.6386	1/6			
380V 50Hz / 440V 60Hz			Red	3h	405.16864	6	405.32864	6					
480-500V			Black	7h	405.16866	6	405.32866	6	405.63866	1/6			
60-690V		Black	5h	405.16867 ³	6	405.32867 ³	6	405.63867 ³	1/6				
60Hz		440-460V	Red	11h	405.16865	6	405.32865	6	405.63865	1/6			
100-300Hz		>50V	Green	10h	405.16861 ¹	6	405.32861 ¹	6					
>300-500Hz		>50V	Green	2h	405.16862 ¹	6	405.32862 ¹	6					
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	405.1679	6	405.3279	6	405.6379	1/6		
	208-250V		Blue	9h	405.1675	6	405.3275	6	405.6375	1/6			
	346-415V		Red	6h	405.1687	6	405.3287	6	405.6387	1/6			
	380V 50Hz / 440V 60Hz		Red	3h	405.16874	6	405.32874	6					
	480-500V		Black	7h	405.16876	6	405.32876	6	405.63876	1/6			
	600-690V	Black	5h	405.16877 ³	6	405.32877 ³	6	405.63877 ³	1/6				
	60Hz	440-460V	Red	11h	405.16875	6	405.32875	6	405.63875	1/6			
	>300-500Hz	>50V	Green	2h	405.16872 ¹	6	405.32872 ¹	6					

¹ The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

² When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

³ Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.

1.3



Switched interlocked sockets outlets

OMNIA Series

■ Rated voltage >50V >> Without fuse carrier >> Surface mounting

OMNIA Series

500.



IP44

INTERLOCKED SOCKET

IP44

136x125mm

Poles	Hz	Volt	Colour	h	16A		32A			
					Part No.	6	Part No.	6		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	500.1670	6	500.3270	6		
		200-250V	Blue	6h	500.1683	6	500.3283	6		
		380-415V	Red	9h	500.1678	6	500.3278	6		
		480-500V	Black	7h	500.16836	6	500.32836	6		
		TST>50V	Grey	12h	500.16833	6	500.32833	6		
	DC	>300-500Hz	>50V	Green	2h	500.16832 ^[1]	6	500.32832 ^[1]	6	
		>50-250V	Grey	3h	500.16834 ^[2]	6	500.32834 ^[2]	6		
		>250V	Grey	8h	500.16838 ^[2]	6	500.32838 ^[2]	6		
		3P+E	50Hz 60Hz	100-130V	Yellow	4h	500.1672	6	500.3272	6
				200-250V	Blue	9h	500.1674	6	500.3274	6
380-415V	Red			6h	500.1686	6	500.3286	6		
380V 50Hz / 440V 60Hz	Red			3h	500.16864	6	500.32864	6		
480-500V	Black			7h	500.16866	6	500.32866	6		
60Hz	600-690V		Black	5h	500.16867 ^[3]	6	500.32867 ^[3]	6		
	440-460V		Red	11h	500.16865	6	500.32865	6		
	100-300Hz		>50V	Green	10h	500.16861 ^[1]	6	500.32861 ^[1]	6	
	>300-500Hz		>50V	Green	2h	500.16862 ^[1]	6	500.32862 ^[1]	6	
	3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	500.1679	6	500.3279	6
208-250V		Blue		9h	500.1675	6	500.3275	6		
346-415V		Red		6h	500.1687	6	500.3287	6		
380V 50Hz / 440V 60Hz		Red		3h	500.16874	6	500.32874	6		
480-500V		Black		7h	500.16876	6	500.32876	6		
60Hz		600-690V	Black	5h	500.16877 ^[3]	6	500.32877 ^[3]	6		
		440-460V	Red	11h	500.16875	6	500.32875	6		
		>300-500Hz	>50V	Green	2h	500.16872 ^[1]	6	500.32872 ^[1]	6	

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[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.
- Blank side with drilling point mark

Switched interlocked sockets outlets

OMNIA Series



■ Rated voltage >50V >> Without fuse carrier >> Surface mounting

OMNIA Series

505.



IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

Poles	Hz	Volt	Colour	h	136x125mm						
					16A		32A		136x275mm		
					63A		63A		63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	505.1670	6	505.3270	6	505.6370		
		200-250V	Blue	6h	505.1683	6	505.3283	6	505.6383	1/6	
		380-415V	Red	9h	505.1678	6	505.3278	6	505.6378		
		480-500V	Black	7h	505.16836	6	505.32836	6	505.63836		
		TST>50V	Grey	12h	505.16833	6	505.32833	6	505.63833		
	DC	>300-500Hz	>50V	Green	2h	505.16832 ^[1]	6	505.32832 ^[1]	6		
		>50-250V	Grey	3h	505.16834 ^[2]	6	505.32834 ^[2]	6	505.63834 ^[2]		
		>250V	Grey	8h	505.16838 ^[2]	6	505.32838 ^[2]	6			
		100-130V	Yellow	4h	505.1672	6	505.3272	6	505.6372		
		200-250V	Blue	9h	505.1674	6	505.3274	6	505.6374		
3P+E	50Hz 60Hz	380-415V	Red	6h	505.1686	6	505.3286	6	505.6386	1/6	
		380V 50Hz / 440V 60Hz	Red	3h	505.16864	6	505.32864	6			
		480-500V	Black	7h	505.16866	6	505.32866	6	505.63866		
		600-690V	Black	5h	505.16867 ^[3]	6	505.32867 ^[3]	6	505.63867 ^[3]		
		60Hz	440-460V	Red	11h	505.16865	6	505.32865	6	505.63865	
	100-300Hz	>50V	Green	10h	505.16861 ^[1]	6	505.32861 ^[1]	6			
	>300-500Hz	>50V	Green	2h	505.16862 ^[1]	6	505.32862 ^[1]	6			
	3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	505.1679	6	505.3279	6	505.6379	1/6
			208-250V	Blue	9h	505.1675	6	505.3275	6	505.6375	
			346-415V	Red	6h	505.1687	6	505.3287	6	505.6387	1/6
380V 50Hz / 440V 60Hz		Red	3h	505.16874	6	505.32874	6				
480-500V		Black	7h	505.16876	6	505.32876	6	505.63876			
600-690V		Black	5h	505.16877 ^[3]	6	505.32877 ^[3]	6	505.63877 ^[3]			
60Hz	440-460V	Red	11h	505.16875	6	505.32875	6	505.63875			
>300-500Hz	>50V	Green	2h	505.16872 ^[1]	6	505.32872 ^[1]	6				

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.
- Blank side with drilling point mark

1.3



Switched interlocked sockets outlets

OMNIA Series

■ Rated voltage >50V >> With fuse carrier >> Flush mounting

OMNIA Series

401.



IP44

INTERLOCKED SOCKET

IP44

136x125mm

Poles	Hz	Volt	Colour	h	16A		32A		
					Code	Current	Code	Current	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	401.1670	6	401.3270	6	
		200-250V	Blue	6h	401.1683	6	401.3283	6	
		380-415V	Red	9h	401.1678	6	401.3278	6	
		480-500V	Black	7h	401.16836	6			
		TST>50V	Grey	12h	401.16833	6			
	>300-500Hz	>50V	Green	2h	401.16832 ^[1]	6			
	DC	>50-250V	Grey	3h	401.16834 ^[2]	6			
		>250V	Grey	8h	401.16838 ^[2]	6			
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	401.1672	6	401.3272	6
			200-250V	Blue	9h	401.1674	6	401.3274	6
380-415V			Red	6h	401.1686	6	401.3286	6	
380V 50Hz / 440V 60Hz			Red	3h	401.16864	6			
480-500V			Black	7h	401.16866	6			
60Hz		440-460V	Red	11h	401.16867 ^[3]	6			
100-300Hz		>50V	Green	10h	401.16861 ^[1]	6			
>300-500Hz		>50V	Green	2h	401.16862 ^[1]	6			
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	401.1679	6	401.3279	6
			208-250V	Blue	9h	401.1675	6	401.3275	6
	346-415V		Red	6h	401.1687	6	401.3287	6	
	380V 50Hz / 440V 60Hz		Red	3h	401.16874	6			
	480-500V	Black	7h	401.16876	6				
	60Hz	440-460V	Red	11h	401.16877 ^[3]	6			
	>300-500Hz	>50V	Green	2h	401.16872 ^[1]	6			

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Fuses not supplied

Switched interlocked sockets outlets

OMNIA Series



■ Rated voltage >50V >> With fuse carrier >> Flush mounting

OMNIA Series

406.



IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

136x125mm

Poles	Hz	Volt	Colour	h	16A		32A		
					Code	Code	Code	Code	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	406.1670	6	406.3270	6	
		200-250V	Blue	6h	406.1683	6	406.3283	6	
		380-415V	Red	9h	406.1678	6	406.3278	6	
		480-500V	Black	7h	406.16836	6			
		TST>50V	Grey	12h	406.16833	6			
	>300-500Hz	DC	>50V	Green	2h	406.16832 ^[1]	6		
			>50-250V	Grey	3h	406.16834 ^[2]	6		
			>250V	Grey	8h	406.16838 ^[2]	6		
			100-130V	Yellow	4h	406.1672	6	406.3272	6
			200-250V	Blue	9h	406.1674	6	406.3274	6
3P+E	50Hz 60Hz	380-415V	Red	6h	406.1686	6	406.3286	6	
		380V 50Hz / 440V 60Hz	Black	3h	406.16864	6			
		480-500V	Black	7h	406.16866	6			
		600-690V	Black	5h	406.16867 ^[3]	6			
		60Hz	440-460V	Red	11h	406.16865	6		
	>300-500Hz	DC	100-300Hz	Green	10h	406.16861 ^[1]	6		
			>300-500Hz	Green	2h	406.16862 ^[1]	6		
			100-130V	Yellow	4h	406.1679	6	406.3279	6
			208-250V	Blue	9h	406.1675	6	406.3275	6
			346-415V	Red	6h	406.1687	6	406.3287	6
3P+N+E	50Hz 60Hz	380V 50Hz / 440V 60Hz	Black	3h	406.16874	6			
		480-500V	Black	7h	406.16876	6			
		600-690V	Black	5h	406.16877 ^[3]	6			
		60Hz	440-460V	Red	11h	406.16875	6		
	>300-500Hz	DC	>50V	Green	2h	406.16872 ^[1]	6		

- [1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.
- [2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.
- [3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.
 - Supplied with stainless steel fixing screws.
 - Fuses not supplied

1.3



Switched interlocked sockets outlets

OMNIA Series

■ Rated voltage >50V >> With fuse carrier >> Surface mounting

OMNIA Series

501.



IP44

INTERLOCKED SOCKET

IP44

136x125mm

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	Current (A)	Part No.	Current (A)
2P+E	50Hz 60Hz	100-130V	Yellow	4h	501.1670	6	501.3270	6
		200-250V	Blue	6h	501.1683	6	501.3283	6
		380-415V	Red	9h	501.1678	6	501.3278	6
		480-500V	Black	7h	501.16836	6		
		TST>50V	Grey	12h	501.16833	6		
	>300-500Hz	>50V	Green	2h	501.16832 ^[1]	6		
	DC	>50-250V	Grey	3h	501.16834 ^[2]	6		
		>250V	Grey	8h	501.16838 ^[2]	6		
3P+E	50Hz 60Hz	100-130V	Yellow	4h	501.1672	6	501.3272	6
		200-250V	Blue	9h	501.1674	6	501.3274	6
		380-415V	Red	6h	501.1686	6	501.3286	6
		380V 50Hz / 440V 60Hz	Red	3h	501.16864	6		
		480-500V	Black	7h	501.16866	6		
	60-690V	Black	5h	501.16867 ^[3]	6			
	60Hz	440-460V	Red	11h	501.16865	6		
100-300Hz	>50V	Green	10h	501.16861 ^[1]	6			
>300-500Hz	>50V	Green	2h	501.16862 ^[1]	6			
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	501.1679	6	501.3279	6
		208-250V	Blue	9h	501.1675	6	501.3275	6
		346-415V	Red	6h	501.1687	6	501.3287	6
		380V 50Hz / 440V 60Hz	Red	3h	501.16874	6		
		480-500V	Black	7h	501.16876	6		
	600-690V	Black	5h	501.16877 ^[3]	6			
	60Hz	440-460V	Red	11h	501.16875	6		
>300-500Hz	>50V	Green	2h	501.16872 ^[1]	6			

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.
- Blank side with drilling point mark
- Fuses not supplied

Switched interlocked sockets outlets

OMNIA Series



■ Rated voltage >50V >> With fuse carrier >> Surface mounting

OMNIA Series

506.



IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

136x125mm

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	Quantity	Part No.	Quantity	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	506.1670	6	506.3270	6	
		200-250V	Blue	6h	506.1683	6	506.3283	6	
		380-415V	Red	9h	506.1678	6	506.3278	6	
		480-500V	Black	7h	506.16836	6			
		TST>50V	Grey	12h	506.16833	6			
	>300-500Hz	DC	>50V	Green	2h	506.16832 ^[1]	6		
			>50-250V	Grey	3h	506.16834 ^[2]	6		
			>250V	Grey	8h	506.16838 ^[2]	6		
			100-130V	Yellow	4h	506.1672	6	506.3272	6
			200-250V	Blue	9h	506.1674	6	506.3274	6
3P+E	50Hz 60Hz	380-415V	Red	6h	506.1686	6	506.3286	6	
		380V 50Hz / 440V 60Hz	Black	3h	506.16864	6			
		480-500V	Black	7h	506.16866	6			
		600-690V	Black	5h	506.16867 ^[3]	6			
		60Hz	Red	11h	506.16865	6			
	>300-500Hz	DC	100-300Hz	Green	10h	506.16861 ^[1]	6		
			>50V	Green	2h	506.16862 ^[1]	6		
			100-130V	Yellow	4h	506.1679	6	506.3279	6
			208-250V	Blue	9h	506.1675	6	506.3275	6
			346-415V	Red	6h	506.1687	6	506.3287	6
3P+N+E	50Hz 60Hz	380V 50Hz / 440V 60Hz	Black	3h	506.16874	6			
		480-500V	Black	7h	506.16876	6			
		600-690V	Black	5h	506.16877 ^[3]	6			
		60Hz	Red	11h	506.16875	6			
	>300-500Hz	DC	>50V	Green	2h	506.16872 ^[1]	6		

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.
- Blank side with drilling point mark
- Fuses not supplied

1.3



Switched interlocked sockets outlets OMNIA Series

■ Extra low voltage <50V >> Flush mounting (with safety transformer)

OMNIA Series

1

INDUSTRY

400.

405.



With safety transformer
- IP44


With safety transformer
- IP66/IP67


INTERLOCKED SOCKET

IP44

IP66/IP67

136x125mm

Current	Poles	Hz	Volt	Colour	400.2416	6	405.2416	6
16A	2P	50Hz 60Hz	20-25V		400.2416	6	405.2416	6

 SELV transformer 220/24V~ 60VA (continuous duty)

- Unsuitable for ADVANCE2 System. Use box ref. 572.0309
- When plug is inserted a micro-switch is activated and closes the circuit

■ Extra low voltage <50V >> Flush mounting (without safety transformer)

OMNIA Series

400.

405.



Without safety transformer - IP44





Without safety transformer - IP66/IP67

INTERLOCKED SOCKET

IP44

IP66/IP67

136x125mm

Current	Poles	Hz	Volt	Colour	h	400.2420	6	405.2420	6
16A	2P	50Hz 60Hz	20-25V		12h	400.2420	6	405.2420	6
			40-50V		12h	400.2421	6	405.2421	6
32A			20-25V			400.2620	6	405.2620	6
			40-50V		12h	400.2621	6	405.2621	6

- The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.
- When plug is inserted a micro-switch is activated and closes the circuit

Switched interlocked sockets outlets

OMNIA Series



■ Extra low voltage <50V >> Surface mounting

OMNIA Series

500.

505.



Without safety transformer - IP44

Without safety transformer - IP66/IP67

INTERLOCKED SOCKET

IP44

IP66/IP67

136x125mm

Current	Poles	Hz	Volt	Colour	h	500.2420	505.2420
16A	2P	50Hz 60Hz	20-25V			500.2420	505.2420
			40-50V		12h	500.2421	505.2421
32A			20-25V			500.2620	505.2620
			40-50V		12h	500.2621	505.2621

- The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.
- Note: in case of mounting with ADVANCE2 System, use METRIC drilling point mark.
- When plug is inserted a micro-switch is activated and closes the circuit
- Blank side with drilling point mark



OMNIA Series
Flange 136x125mm

1.3



Switched interlocked sockets outlets

OMNIAPLUS Series

Flush mounting

OMNIAPLUS Series

409.



Without protection



Protection with fuse 6.3x32



Protection with MCB



Protection with RCBO

DOMESTIC INTERLOCKED SOCKET

2P+E

IP56

Current	Version	Without protection	Protection with fuse 6.3x32	Protection with MCB	Protection with RCBO
6A 16A	INDIAN	409.0429 1/6	409.1429 1/6	409.2429 1/6	409.3429 1/6
	SWISS	409.0417 1/6	409.1417 ^[2] 1/6	409.2417 1/6	409.3417 1/6
10A	ARGENTINE	409.0424 1/6	409.1424 ^[2] 1/6	409.2424 ^[3] 1/6	409.3424 ^[3] 1/6
	BRAZILIAN	409.0421 1/6	409.1421 ^[2] 1/6	409.2421 1/6	409.3421 1/6
	NEW ZELAND	409.0427 1/6	409.1427 1/6	409.2427 1/6	409.3427 1/6
13A	BRITISH BS1363	409.0413 1/6	409.1413 1/6	409.2413 1/6	409.3413 1/6
	ITALIAN P17/11 (DUAL USE)	409.0403 1/6	409.1403 ^[2] 1/6	409.2403 1/6	409.3403 1/6
	FRENCH	409.0411 1/6	409.1411 ^[2] 1/6	409.2411 1/6	409.3411 1/6
	GERMAN	409.0407 1/6	409.1407 ^[2] 1/6	409.2407 1/6	409.3407 1/6
16A	ITALIAN P30	409.0404 1/6	409.1404 ^[2] 1/6	409.2404 1/6	409.3404 1/6
	ITALIAN P40	409.0405 1/6	409.1405 ^[2] 1/6	409.2405 1/6	409.3405 1/6
	SOUTH AFRICAN	409.0428 1/6	409.1428 1/6	409.2428 1/6	409.3428 1/6
	GERMAN UNSHUTTER	409.0412 ^[1] 1/6	409.1412 ^[1] 1/6	409.2412 ^[1] 1/6	409.3412 ^[1] 1/6

^[1] Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

^[2] Fuses supplied

^[3] 10A (C10)



ITALIAN STANDARD P17/11 16A (bivalente)
Shuttered socket CEI 23-50



FRENCH STANDARD 16A
Shuttered socket



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 16A
Shuttered socket



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



SWISS STANDARD 10A
Unshuttered socket SEV 1011:1998



ARGENTINIAN STANDARD 10A
Unshuttered socket

Switched interlocked sockets outlets

OMNIAPLUS Series



Domestic interlocked socket

OMNIAPLUS Series

409.



Description	IP	Accessories
EMPTY DOMESTIC INTER. SOCKET	IP56	409.0400 1/6

- Not suitable with English, South African and Indian standards EVOLUTION Series socket outlets.



OMNIAPLUS Series
Application examples (MBOX - OMNIA- ADVANCE2 - DOMINO)



BRAZILIAN STANDARD 10A Unshuttered socket ABNT NBR 14136:2002	NEW ZEALAND STANDARD 10A Unshuttered socket AS/NZS 3112	SOUTH AFRICAN STANDARD 16A Shuttered socket SANS 164:1 (2006)	INDIAN STANDARD 6/16A Shuttered socket IS 1293:1988	GERMAN STANDARD 16A Unshuttered socket	IP66 Specifically high formulated gel seal to maintain protection degree when the plug is inserted

Switched interlocked sockets outlets

OMNIA System

Flush and surface mounting modular system

1
INDUSTRY

OMNIA System

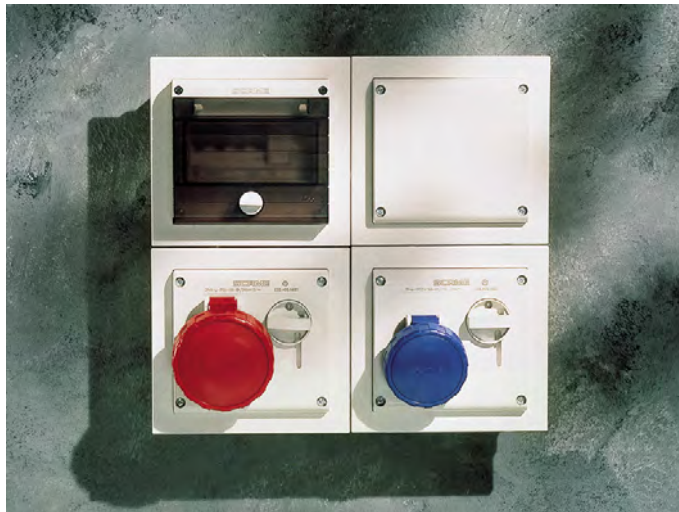
572.



Components for flush mounting installation

		BOX	BOX FOR PLASTERBOARD WALLS	COUPLING INSERT	FRAME
2	Dimension				IP55
	160x149x72mm	572.0200 ¹ ₂	6		
3	160x149x75mm		572.0205 ¹ ₂	6	
	174x163x19mm				572.0220 ³ ₄ 6/60
4				572.0210 6/60	

- ¹ Complete with coupling insert
- ² Suited for being walled up in buried systems
- ³ IP55 when assembled together with the relevant component.
- ⁴ To be used in conjunction with flush-mounted boxes



OMNIA System

Example of a flush mounting combination: consumer unit, junction box and OMNIA Series interlocked-switch socket outlet. IP55 weatherproof.

Switched interlocked sockets outlets OMNIA System



■ Flush and surface mounting modular system

OMNIA System

572.



Components for surface mounting installation - Box

Dimension	Notes	BOX		ENCLOSURE FOR SWITCH		BOX	
135x125x70mm	16-32A	572.0310	¹ ² ³	6	IP67		
135x275x89mm	63A					572.0308	1/6
136x125x85mm	OMNIA				572.3390	⁴	6
136x125x98mm	32A FUSE	572.0309		6			

¹ When joined with consumer unit (product 572.0120) [10W]

² Not suitable for items 400.2416 and 405.2416.

³ Except 32A fuse versions.

⁴ For fitting with Y1 switch size panel mounting version (R) and relevant front operators handleless (IP65).

- Blank side with drilling point mark
- IP67 when assembled together with the relevant component.

■ Components for surface mounting installation - Equipment enclosure MBOX

OMNIA System

572.



Blank cover



2 OMNIA

Dimension	Notes	BOX FOR WIRING ACCESSORIES	
136x275mm	2 OMNIA	572.0320	¹ 1/6
			IP67
			572.0322
			¹ 1/10

¹ IP67 when assembled together with the relevant component.

- Hole Ø 40.5 mm on the upper side
- They can be fitted into the MBOX5 enclosures
- For cable output, use tear-resistant cable glands fam. 805.
- Blank side with drilling point mark

1.3



Switched interlocked sockets outlets OMNIA System

Components for surface mounting installation

1
INDUSTRY

OMNIA System

572.



2 OMNIA + consumer units [6 DIN]



3 OMNIA + consumer units [6 DIN]



4 OMNIA + consumer units [16 DIN]

MODULAR ENCLOSURE

IP66

Dimension	Power		
136x472x146mm		572.0311	1
136x616x146mm	12W	572.0313	1
287x408x146mm			572.0315 1

- IP66 when coupled with the relevant component
- Power dissipation calculated in conformity with CEI 23-49 italian standards
- Blank side with drilling point mark






OMNIA System
Boxes flange 136x125mm

Switched interlocked sockets outlets OMNIA System




Components for surface mounting installation

		OMNIA System	
		572.	
			
	2 OMNIA + junction box	3 OMNIA + junction box	4 OMNIA + junction box
	MODULAR ENCLOSURE		
	IP66		
Dimension			
136x472x146mm	572.0312	1	
136x616x146mm			572.0314
287x408x146mm			572.0316
			1

- IP66 when coupled with the relevant component
- Power dissipation calculated in conformity with CEI 23-49 italian standards
- Blank side with drilling point mark

Common components

		OMNIA System	
		572.	
			
	Consumer unit assembly		
	CONSUMER UNIT ASSEMBLY		
	IP55		
Dimension	Notes		
136x125x25mm	6 DIN	572.0120	6

- When joined with surface mounting box (product 572.0310) [10W]
- Complete with locking knob, triangular locking key and stainless steel fixing screws.
- Installation in the flush mounting box through the frame item 572.0220.
- DIN modules and supports included.
- The consumer unit can also be installed in the IP66 DOMINO Series surface mounting enclosures.
- Power dissipation calculated in conformity with CEI 23-49 italian standards
- IP55 when assembled together with the relevant component.

1.3



Switched interlocked sockets outlets OMNIA System

Common components

1
INDUSTRY

OMNIA System
572.



Protection cover

2
3
4

Dimension	PROTECTION COVER
122x98x54mm	IP20
	572.0330 4

- Top and bottom cable entries.
- For panel mounting of OMNIA Series interlocked switch sockets outlets without fuse carrier.
- Supplied with 2 fixing screws.

Switched interlocked sockets outlets OMNIA System



■ Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



Description	Dimension	Suitable for	Kit folding stand
STAND KIT - Folding	376x691x70mm	DOMINO IP66 M550 OMNIA	654.0610 1



MOBIL Series

Support for DOMINO/OMNIA assemblies. The handy folding stand allows the panel to be transported even in limited-size motor vehicles .

1.3



Switched interlocked sockets outlets OMNIA System

Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



Blank plates

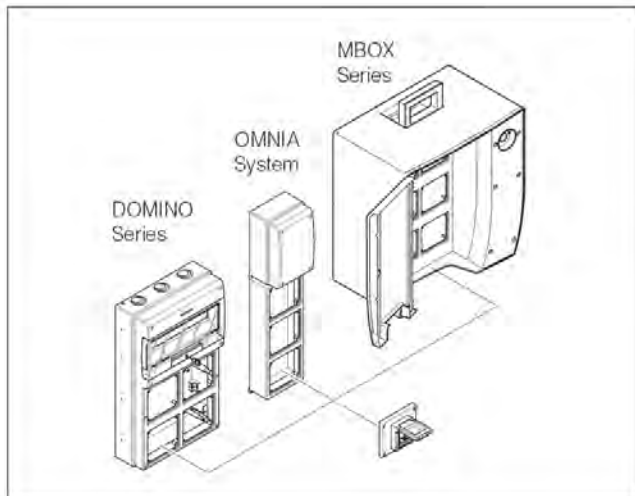
		BLANK PLATE FOR PANEL CUT OUTS	COVER WITH INSERT	CUT-OUT PLATE	
			136x125mm		
		OMNIA		16A [70x87]	32A [84x106]
Colour	IP	EVOLUTION	BTICINO		
	IP55	654.0122 ³	654.0121 ^{3 4}		
	IP66	654.0120 ^{1 2} 6/72		654.0125 ^{1 2} 6/72	654.0126 ^{1 2} 6/72

¹ Covers for OMNIA Series cutouts

² IP66 when coupled with the relevant component

³ Modules snap into place.

⁴ Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.



OMNIA Series

Examples of installation (flange 136x125mm)

1
INDUSTRY

2
3
4

Switched interlocked sockets outlets OMNIA System



Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



Description	Notes	Colour	Din	Blank plate for DIN modules	
BLANK PLATE FOR DIN MODULES	9x45mm		1/2 DIN	654.0420 ^[1]	25/400
	18x45mm	Grey	1 DIN	654.0410 ^[1]	25/250
	72x45mm		4 DIN	654.0400	25

^[1] To be fixed on DIN rail

- When put between the modular devices these plates help to dissipate heat

TOP22 Series

590.



Description	Colour	Switch size	Contact blocks	
NC CONTACT	Red	Y1	590.PL004001 ^[1]	10/60
		Y2	590.PL004003 ^[1]	10
NO CONTACT	Green	Y1	590.PL004002 ^[2]	10/60
		Y2	590.PL004004 ^[2]	10

^[1] NC=Normally closed

^[2] NO=Normally open

- Snap catch

1.3



Switched interlocked sockets outlets

ADVANCE2 Series

■ Rated operating voltage >50V >> Standard version

ADVANCE 2 Series

560.



Without fuse carrier IP44

INTERLOCKED SOCKET

IP44

106x240mm

M25X1,5

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	1/12	Part No.	1/12	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	560.1670	1/12	560.3270	1/12	
		200-250V	Blue	6h	560.1683	1/12	560.3283	1/12	
		380-415V	Red	9h	560.1678	1/12	560.3278	1/12	
		480-500V	Black	7h	560.16836	1/12	560.32836	1/12	
		TST>50V	Grey	12h	560.16833	1/12	560.32833	1/12	
	>300-500Hz	>50V	Green	2h	560.16832 ^[1]	1/12	560.32832 ^[1]	1/12	
	DC	>50-250V	Grey	3h	560.16834 ^[2]	1/12	560.32834 ^[2]	1/12	
		>250V	Grey	8h	560.16838 ^[2]	1/12	560.32838 ^[2]	1/12	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	560.1672	1/12	560.3272	1/12
			200-250V	Blue	9h	560.1674	1/12	560.3274	1/12
380-415V			Red	6h	560.1686	1/12	560.3286	1/12	
380V 50Hz / 440V 60Hz			Red	3h	560.16864	1/12	560.32864	1/12	
480-500V			Black	7h	560.16866	1/12	560.32866	1/12	
60Hz		440-460V	Red	11h	560.16865	1/12	560.32865	1/12	
600-690V		Black	5h	560.16867 ^[3]	1/12	560.32867 ^[3]	1/12		
100-300Hz		>50V	Green	10h	560.16861 ^[1]	1/12	560.32861 ^[1]	1/12	
>300-500Hz		>50V	Green	2h	560.16862 ^[1]	1/12	560.32862 ^[1]	1/12	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	560.1679	1/12	560.3279	1/12
	208-250V		Blue	9h	560.1675	1/12	560.3275	1/12	
	346-415V		Red	6h	560.1687	1/12	560.3287	1/12	
	380V 50Hz / 440V 60Hz		Red	3h	560.16874	1/12	560.32874	1/12	
	480-500V		Black	7h	560.16876	1/12	560.32876	1/12	
	60Hz	440-460V	Red	11h	560.16875	1/12	560.32875	1/12	
	600-690V	Black	5h	560.16877 ^[3]	1/12	560.32877 ^[3]	1/12		
	>300-500Hz	>50V	Green	2h	560.16872 ^[1]	1/12	560.32872 ^[1]	1/12	

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

1
INDUSTRY

2

3

4

Switched interlocked sockets outlets

ADVANCE2 Series



■ Rated operating voltage >50V >> Standard version

ADVANCE 2 Series

561.



Without fuse carrier
IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

Poles	Hz	Volt	Colour	h	106x240mm M25X1,5						136x390mm M40X1,5			
					16A		32A		63A					
2P+E	50Hz 60Hz	100-130V	Yellow	4h	561.1670	1/12	561.3270	1/12	561.6370 ^[4]	1/4				
		200-250V	Blue	6h	561.1683	1/12	561.3283	1/12	561.6383 ^[4]	1/4				
		380-415V	Red	9h	561.1678	1/12	561.3278	1/12	561.6378 ^[4]	1/4				
		480-500V	Black	7h	561.16836	1/12	561.32836	1/12	561.63836 ^[4]	1/4				
		TST>50V	Grey	12h	561.16833	1/12	561.32833	1/12	561.63833 ^[4]	1/4				
	>300-500Hz	>50V	Green	2h	561.16832 ^[1]	1/12	561.32832 ^[1]	1/12						
		DC	>50-250V	Grey	3h	561.16834 ^[2]	1/12	561.32834 ^[2]	1/12	561.63834 ^{[2][4]}	1/4			
			>250V	Grey	8h	561.16838 ^[2]	1/12	561.32838 ^[2]	1/12	561.63838 ^{[2][4]}	1/4			
		3P+E	50Hz 60Hz	100-130V	Yellow	4h	561.1672	1/12	561.3272	1/12	561.6372 ^[4]	1/4		
				200-250V	Blue	9h	561.1674	1/12	561.3274	1/12	561.6374 ^[4]	1/4		
380-415V	Red			6h	561.1686	1/12	561.3286	1/12	561.6386 ^[4]	1/4				
380V 50Hz / 440V 60Hz	Red			3h	561.16864	1/12	561.32864	1/12						
480-500V	Black			7h	561.16866	1/12	561.32866	1/12	561.63866 ^[4]	1/4				
>300-500Hz	600-690V		Black	5h	561.16867 ^[3]	1/12	561.32867 ^[3]	1/12	561.63867 ^{[3][4]}	1/4				
	60Hz		440-460V	Red	11h	561.16865	1/12	561.32865	1/12	561.63865 ^[4]	1/4			
	100-300Hz		>50V	Green	10h	561.16861 ^[1]	1/12	561.32861 ^[1]	1/12					
	>300-500Hz		>50V	Green	2h	561.16862 ^[1]	1/12	561.32862 ^[1]	1/12					
	3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	561.1679	1/12	561.3279	1/12	561.6379 ^[4]	1/4		
208-250V		Blue		9h	561.1675	1/12	561.3275	1/12	561.6375 ^[4]	1/4				
346-415V		Red		6h	561.1687	1/12	561.3287	1/12	561.6387 ^[4]	1/4				
380V 50Hz / 440V 60Hz		Red		3h	561.16874	1/12	561.32874	1/12						
480-500V		Black		7h	561.16876	1/12	561.32876	1/12	561.63876 ^[4]	1/4				
>300-500Hz		600-690V	Black	5h	561.16877 ^[3]	1/12	561.32877 ^[3]	1/12	561.63877 ^{[3][4]}	1/4				
		60Hz	440-460V	Red	11h	561.16875	1/12	561.32875	1/12	561.63875 ^[4]	1/4			
		>300-500Hz	>50V	Green	2h	561.16872 ^[1]	1/12	561.32872 ^[1]	1/12					

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

[4] [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

1.3



Switched interlocked sockets outlets

ADVANCE2 Series

■ Rated operating voltage >50V >> Standard version [FUSE]

ADVANCE 2 Series

562.



With fuse carrier IP44

INTERLOCKED SOCKET

IP44

106x240mm

M25X1,5

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	1/12	Part No.	1/12	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	562.1670	1/12	562.3270	1/12	
		200-250V	Blue	6h	562.1683	1/12	562.3283	1/12	
		380-415V	Red	9h	562.1678	1/12	562.3278	1/12	
		480-500V	Black	7h	562.16836	1/12	562.32836	1/12	
		TST>50V	Grey	12h	562.16833	1/12	562.32833	1/12	
	>300-500Hz	>50V	Green	2h	562.16832 ^[1]	1/12	562.32832 ^[1]	1/12	
	DC	>50-250V	Grey	3h	562.16834 ^[2]	1/12	562.32834 ^[2]	1/12	
		>250V	Grey	8h	562.16838 ^[2]	1/12	562.32838 ^[2]	1/12	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	562.1672	1/12	562.3272	1/12
			200-250V	Blue	9h	562.1674	1/12	562.3274	1/12
380-415V			Red	6h	562.1686	1/12	562.3286	1/12	
380V 50Hz / 440V 60Hz			Red	3h	562.16864	1/12	562.32864	1/12	
480-500V			Black	7h	562.16866	1/12	562.32866	1/12	
60Hz		440-460V	Red	11h	562.16865	1/12	562.32865	1/12	
600-690V		Black	5h	562.16867 ^[3]	1/12	562.32867 ^[3]	1/12		
100-300Hz		>50V	Green	10h	562.16861 ^[1]	1/12	562.32861 ^[1]	1/12	
>300-500Hz		>50V	Green	2h	562.16862 ^[1]	1/12	562.32862 ^[1]	1/12	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	562.1679	1/12	562.3279	1/12
	208-250V		Blue	9h	562.1675	1/12	562.3275	1/12	
	346-415V		Red	6h	562.1687	1/12	562.3287	1/12	
	380V 50Hz / 440V 60Hz		Red	3h	562.16874	1/12	562.32874	1/12	
	480-500V		Black	7h	562.16876	1/12	562.32876	1/12	
	60Hz	440-460V	Red	11h	562.16875	1/12	562.32875	1/12	
	600-690V	Black	5h	562.16877 ^[3]	1/12	562.32877 ^[3]	1/12		
	>300-500Hz	>50V	Green	2h	562.16872 ^[1]	1/12	562.32872 ^[1]	1/12	

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included
- Fuses not supplied

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Switched interlocked sockets outlets

ADVANCE2 Series



■ Rated operating voltage >50V >> Standard version [FUSE]

ADVANCE 2 Series

563.



With fuse carrier IP66/
IP67

INTERLOCKED SOCKET

IP66/IP67

106x240mm

136x390mm

M25X1,5

M40X1,5

Poles	Hz	Volt	Colour	h	16A		32A		63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	563.1670	1/12	563.3270	1/12	563.6370	1/4	
		200-250V	Blue	6h	563.1683	1/12	563.3283	1/12	563.6383	1/4	
		380-415V	Red	9h	563.1678	1/12	563.3278	1/12	563.6378	1/4	
		480-500V	Black	7h	563.16836	1/12	563.32836	1/12			
		TST>50V	Grey	12h	563.16833	1/12	563.32833	1/12	563.63833	1/4	
	>300-500Hz	>50V	Green	2h	563.16832	1/12	563.32832	1/12			
	DC	>50-250V	Grey	3h	563.16834	1/12	563.32834	1/12	563.63834	1/4	
		>250V	Grey	8h	563.16838	1/12	563.32838	1/12	563.63838	1/4	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	563.1672	1/12	563.3272	1/12	563.6372	1/4
			200-250V	Blue	9h	563.1674	1/12	563.3274	1/12	563.6374	1/4
380-415V			Red	6h	563.1686	1/12	563.3286	1/12	563.6386	1/4	
380V 50Hz / 440V 60Hz			Red	3h	563.16864	1/12	563.32864	1/12			
480-500V			Black	7h	563.16866	1/12	563.32866	1/12			
60Hz		440-460V	Red	11h	563.16865	1/12	563.32865	1/12			
100-300Hz		>50V	Green	10h	563.16861	1/12	563.32861	1/12			
>300-500Hz		>50V	Green	2h	563.16862	1/12	563.32862	1/12			
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	563.1679	1/12	563.3279	1/12	563.6379	1/4
			208-250V	Blue	9h	563.1675	1/12	563.3275	1/12	563.6375	1/4
	346-415V		Red	6h	563.1687	1/12	563.3287	1/12	563.6387	1/4	
	380V 50Hz / 440V 60Hz		Red	3h	563.16874	1/12	563.32874	1/12			
	480-500V		Black	7h	563.16876	1/12	563.32876	1/12			
	60Hz	440-460V	Red	11h	563.16875	1/12	563.32875	1/12			
	>300-500Hz	>50V	Green	2h	563.16872	1/12	563.32872	1/12			

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

[4] [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

[5] 400V only

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included
- Fuses not supplied

1.3



Switched interlocked sockets outlets

ADVANCE2 Series

■ Rated operating voltage >50V >> Standard version [DIN]

ADVANCE 2 Series

567.



With DIN rail (6 modules) IP44

INTERLOCKED SOCKET

IP44

136x390mm

M25X1,5

Poles	Hz	Volt	Colour	h	16A		32A		
					Part No.	Fuse	Part No.	Fuse	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	567.1670	1/4	567.3270	1/4	
		200-250V	Blue	6h	567.1683	1/4	567.3283	1/4	
		380-415V	Red	9h	567.1678	1/4	567.3278	1/4	
		480-500V	Black	7h	567.16836	1/4	567.32836	1/4	
		TST>50V	Grey	12h	567.16833	1/4	567.32833	1/4	
	>300-500Hz	>50V	Green	2h	567.16832 ^[1]	1/4	567.32832 ^[1]	1/4	
	DC	>50-250V	Grey	3h	567.16834 ^[2]	1/4	567.32834 ^[2]	1/4	
		>250V	Grey	8h	567.16838 ^[2]	1/4	567.32838 ^[2]	1/4	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	567.1672	1/4	567.3272	1/4
			200-250V	Blue	9h	567.1674	1/4	567.3274	1/4
380-415V			Red	6h	567.1686	1/4	567.3286	1/4	
380V 50Hz / 440V 60Hz			Red	3h	567.16864	1/4	567.32864	1/4	
480-500V			Black	7h	567.16866	1/4	567.32866	1/4	
60Hz		440-460V	Red	11h	567.16865	1/4	567.32865	1/4	
600-690V		Black	5h	567.16867 ^[3]	1/4	567.32867 ^[3]	1/4		
100-300Hz		>50V	Green	10h	567.16861 ^[1]	1/4	567.32861 ^[1]	1/4	
>300-500Hz		>50V	Green	2h	567.16862 ^[1]	1/4	567.32862 ^[1]	1/4	
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	567.1679	1/4	567.3279	1/4
	208-250V		Blue	9h	567.1675	1/4	567.3275	1/4	
	346-415V		Red	6h	567.1687	1/4	567.3287	1/4	
	380V 50Hz / 440V 60Hz		Red	3h	567.16874	1/4	567.32874	1/4	
	480-500V		Black	7h	567.16876	1/4	567.32876	1/4	
	60Hz	440-460V	Red	11h	567.16875	1/4	567.32875	1/4	
	600-690V	Black	5h	567.16877 ^[3]	1/4	567.32877 ^[3]	1/4		
	>300-500Hz	>50V	Green	2h	567.16872 ^[1]	1/4	567.32872 ^[1]	1/4	

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included
- [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

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Switched interlocked sockets outlets

ADVANCE2 Series



■ Rated operating voltage >50V >> Standard version [DIN]

ADVANCE 2 Series

568.



With DIN rail (6 modules) IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

136x390mm

Poles	Hz	Volt	Colour	h	M25X1,5		M40X1,5				
					16A	32A	63A				
2P+E	50Hz 60Hz	100-130V	Yellow	4h	568.1670	1/4	568.3270	1/4	568.6370	1/4	
		200-250V	Blue	6h	568.1683	1/4	568.3283	1/4	568.6383	1/4	
		380-415V	Red	9h	568.1678	1/4	568.3278	1/4	568.6378	1/4	
		480-500V	Black	7h	568.16836	1/4	568.32836	1/4	568.63836	1/4	
		TST>50V	Grey	12h	568.16833	1/4	568.32833	1/4	568.63833	1/4	
	>300-500Hz	>50V	Green	2h	568.16832 ^[1]	1/4	568.32832 ^[1]	1/4			
	DC	>50-250V	Grey	3h	568.16834 ^[2]	1/4	568.32834 ^[2]	1/4	568.63834 ^[2]	1/4	
		>250V	Grey	8h	568.16838 ^[2]	1/4	568.32838 ^[2]	1/4	568.63838 ^[2]	1/4	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	568.1672	1/4	568.3272	1/4	568.6372	1/4
			200-250V	Blue	9h	568.1674	1/4	568.3274	1/4	568.6374	1/4
380-415V			Red	6h	568.1686	1/4	568.3286	1/4	568.6386	1/4	
380V 50Hz / 440V 60Hz			Red	3h	568.16864	1/4	568.32864	1/4			
480-500V			Black	7h	568.16866	1/4	568.32866	1/4			
60Hz		440-460V	Red	11h	568.16865	1/4	568.32865	1/4			
100-300Hz		>50V	Green	10h	568.16861 ^[1]	1/4	568.32861 ^[1]	1/4			
>300-500Hz		>50V	Green	2h	568.16862 ^[1]	1/4	568.32862 ^[1]	1/4			
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	568.1679	1/4	568.3279	1/4	568.6379	1/4
			208-250V	Blue	9h	568.1675	1/4	568.3275	1/4	568.6375	1/4
	346-415V		Red	6h	568.1687	1/4	568.3287	1/4	568.6387	1/4	
	380V 50Hz / 440V 60Hz		Red	3h	568.16874	1/4	568.32874	1/4			
	480-500V	Black	7h	568.16876	1/4	568.32876	1/4				
	600-690V	Black	5h	568.16877 ^[3]	1/4	568.32877 ^[3]	1/4				
	60Hz	440-460V	Red	11h	568.16875	1/4	568.32875	1/4			
	>300-500Hz	>50V	Green	2h	568.16872 ^[1]	1/4	568.32872 ^[1]	1/4			

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

[4] 400V only

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included
- [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

1.3



Switched interlocked sockets outlets

ADVANCE2 Series

■ Rated operating voltage >50V >> HD version [HEAVY DUTY]

ADVANCE 2 HD Series

564.



With fuse carrier IP66/
IP67

INTERLOCKED SOCKET

IP66/IP67

106x240mm

136x390mm

M25X1,5

M40X1,5

Poles	Hz	Volt	Colour	h	16A		32A		63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	564.1670	1/12	564.3270	1/12	564.6370 ^[4]	1/4	
		200-250V	Blue	6h	564.1683	1/12	564.3283	1/12	564.6383 ^[4]	1/4	
		380-415V	Red	9h	564.1678	1/12	564.3278	1/12	564.6378 ^{[5][4]}	1/4	
		480-500V	Black	7h	564.16836	1/12	564.32836	1/12			
		TST>50V	Grey	12h	564.16833	1/12	564.32833	1/12	564.63833 ^[4]	1/4	
	>300-500Hz	>50V	Green	2h	564.16832 ^[1]	1/12	564.32832 ^[1]	1/12	564.63832 ^{[1][4]}	1/4	
	DC	>50-250V	Grey	3h	564.16834 ^[2]	1/12	564.32834 ^[2]	1/12	564.63834 ^{[2][4]}	1/4	
		>250V	Grey	8h	564.16838 ^[2]	1/12	564.32838 ^[2]	1/12	564.63838 ^{[2][4]}	1/4	
	3P+E	50Hz 60Hz	100-130V	Yellow	4h	564.1672	1/12	564.3272	1/12	564.6372 ^[4]	1/4
			200-250V	Blue	9h	564.1674	1/12	564.3274	1/12	564.6374 ^[4]	1/4
380-415V			Red	6h	564.1686	1/12	564.3286	1/12	564.6386 ^{[5][4]}	1/4	
380V 50Hz / 440V 60Hz			Red	3h	564.16864	1/12	564.32864	1/12			
480-500V			Black	7h	564.16866	1/12	564.32866	1/12			
60Hz		440-460V	Red	11h	564.16865	1/12	564.32865	1/12			
100-300Hz		>50V	Green	10h	564.16861 ^[1]	1/12	564.32861 ^[1]	1/12			
>300-500Hz		>50V	Green	2h	564.16862 ^[1]	1/12	564.32862 ^[1]	1/12			
3P+N+E		50Hz 60Hz	100-130V	Yellow	4h	564.1679	1/12	564.3279	1/12	564.6379 ^[4]	1/4
			208-250V	Blue	9h	564.1675	1/12	564.3275	1/12	564.6375 ^[4]	1/4
	346-415V		Red	6h	564.1687	1/12	564.3287	1/12	564.6387 ^{[5][4]}	1/4	
	380V 50Hz / 440V 60Hz	Red	3h	564.16874	1/12	564.32874	1/12				
	480-500V	Black	7h	564.16876	1/12	564.32876	1/12				
	600-690V	Black	5h	564.16877 ^[3]	1/12	564.32877 ^[3]	1/12				
	60Hz	440-460V	Red	11h	564.16875	1/12	564.32875	1/12			
>300-500Hz	>50V	Green	2h	564.16872 ^[1]	1/12	564.32872 ^[1]	1/12				

⚠ Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

[4] [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

[5] 400V only

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

Switched interlocked sockets outlets

ADVANCE2 Series



■ Rated operating voltage >50V >> HD version [HEAVY DUTY]

ADVANCE 2 HD Series

569.



With DIN rail (6 modules) IP66/IP67

INTERLOCKED SOCKET

IP66/IP67

136x390mm

Poles	Hz	Volt	Colour	h	M25X1,5			M40X1,5			
					16A	32A		63A			
2P+E	50Hz 60Hz	100-130V	Yellow	4h	569.1670	1/4	569.3270	1/4	569.6370	1/4	
		200-250V	Blue	6h	569.1683	1/4	569.3283	1/4	569.6383	1/4	
		380-415V	Red	9h	569.1678	1/4	569.3278	1/4	569.6378 ^[4]	1/4	
		480-500V	Black	7h	569.16836	1/4	569.32836	1/4			
		TST>50V	Grey	12h	569.16833	1/4	569.32833	1/4	569.63833	1/4	
	>300-500Hz	>50V	Green	2h	569.16832 ^[1]	1/4	569.32832 ^[1]	1/4	569.63832 ^[1]	1/4	
			Grey	3h	569.16834 ^[2]	1/4	569.32834 ^[2]	1/4	569.63834 ^[2]	1/4	
		DC	>250V	Grey	8h	569.16838 ^[2]	1/4	569.32838 ^[2]	1/4	569.63838 ^[2]	1/4
3P+E	50Hz 60Hz	100-130V	Yellow	4h	569.1672	1/4	569.3272	1/4	569.6372	1/4	
		200-250V	Blue	9h	569.1674	1/4	569.3274	1/4	569.6374	1/4	
		380-415V	Red	6h	569.1686	1/4	569.3286	1/4	569.6386 ^[4]	1/4	
		380V 50Hz / 440V 60Hz	Red	3h	569.16864	1/4	569.32864	1/4			
		480-500V	Black	7h	569.16866	1/4	569.32866	1/4			
	60Hz	600-690V	Black	5h	569.16867 ^[3]	1/4	569.32867 ^[3]	1/4			
		440-460V	Red	11h	569.16865	1/4	569.32865	1/4			
		100-300Hz	>50V	Green	10h	569.16861 ^[1]	1/4	569.32861 ^[1]	1/4		
		>300-500Hz	>50V	Green	2h	569.16862 ^[1]	1/4	569.32862 ^[1]	1/4		
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	569.1679	1/4	569.3279	1/4	569.6379	1/4	
		208-250V	Blue	9h	569.1675	1/4	569.3275	1/4	569.6375	1/4	
		346-415V	Red	6h	569.1687	1/4	569.3287	1/4	569.6387 ^[4]	1/4	
		380V 50Hz / 440V 60Hz	Red	3h	569.16874	1/4	569.32874	1/4			
		480-500V	Black	7h	569.16876	1/4	569.32876	1/4			
	60Hz	600-690V	Black	5h	569.16877 ^[3]	1/4	569.32877 ^[3]	1/4			
		440-460V	Red	11h	569.16875	1/4	569.32875	1/4			
		>300-500Hz	>50V	Green	2h	569.16872 ^[1]	1/4	569.32872 ^[1]	1/4		

⚠ Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

^[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

^[2] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

^[3] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

^[4] 400V only

- Supplied with stainless steel fixing screws.
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included
- [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

1.3



Switched interlocked sockets outlets

ADVANCE2 Series

■ Rated operating voltage <50V

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ADVANCE 2 Series

565.



Version with safety transformer

INTERLOCKED SOCKET

		IP44		IP66/IP67	
		106x240mm	136x390mm	106x240mm	136x390mm
Current	Poles	M25X1,5			
16A	2P 24V	565.2416	1/10	565.2516 [1][2]	1/4
				565.2416/S	1/10
				565.2516/S [1][2]	1/4

⊕ SELV transformer 220/24V~ 150VA (continuous duty).

[1] [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

[2] Provided protections: primary circuit (2A), secondary circuit (6A), fuses included.

- Supplied with stainless steel fixing screws.
- When plug is inserted a micro-switch is activated and closes the circuit
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

ADVANCE 2 HD Series

566.



Version with safety transformer (HD - Heavy Duty)

INTERLOCKED SOCKET

		IP44		IP66/IP67	
		106x240mm	136x390mm	106x240mm	136x390mm
Current	Poles	M25X1,5			
16A	2P 24V	566.2416	1/10	566.2516 [1][2]	1/4
				566.2416/S	1/10
				566.2516/S [1][2]	1/4

⊕ Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

⊕ SELV transformer 220/24V~ 150VA (continuous duty).

[1] [LARGE] Possibility to enter from the bottom (smooth walls with drilling point mark)

[2] Provided protections: primary circuit (2A), secondary circuit (6A), fuses included.

- Supplied with stainless steel fixing screws.
- When plug is inserted a micro-switch is activated and closes the circuit
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

Switched interlocked sockets outlets ADVANCE2 Series



■ Rated operating voltage <50V

ADVANCE 2 Series

565.



Version with DIN rail (6 modules)

INTERLOCKED SOCKET

IP44

IP66/IP67

106x240mm

M25X1,5

Current	Poles	Volt	Colour	h				
16A	2P	20-25V			565.2420	1/10	565.2420/S	1/10
		40-50V		12h	565.2421	1/10	565.2421/S	1/10
20-25V				565.2432	1/10	565.2432/S	1/10	
40-50V			12h	565.2433	1/10	565.2433/S	1/10	

- Supplied with stainless steel fixing screws.
- When plug is inserted a micro-switch is activated and closes the circuit
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

ADVANCE 2 HD Series

566.



Version with DIN rail (6 modules) (HD - Heavy Duty)

INTERLOCKED SOCKET

IP44

IP66/IP67

106x240mm

M25X1,5

Current	Poles	Volt	Colour	h				
16A	2P	20-25V			566.2420	1/10	566.2420/S	1/10
		40-50V		12h	566.2421	1/10	566.2421/S	1/10
20-25V				566.2432	1/10	566.2432/S	1/10	
40-50V			12h	566.2433	1/10	566.2433/S	1/10	

Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

- Supplied with stainless steel fixing screws.
- When plug is inserted a micro-switch is activated and closes the circuit
- Open threaded cable entry
- Cable gland included
- Threaded cap/cable sleeve included

1.3



Switched interlocked sockets outlets ADVANCE2 System

■ Standard version >> Compact module 106

ADVANCE 2 System

576.



1
INDUSTRY

Description	Version	IP	Notes	Dimension	Power	Modular bases	Enclosures
CONSUMER UNIT			10 DIN	212x150x110mm	14W		
			4 DIN	106x150x110mm	8W		
JUNCTION BOX 106	CUT-OUT SINGLE	IP66	16/32A	106x150x105mm			576.4301 ^[1] 12
	ONE-MODULE BLANK						
	TWO-MODULE BLANK						
MODULAR BASE 106			16-32A	106x434x18mm		576.4300 12	

[1] Metric break-through cable entry

[2] Power dissipation calculated in conformity with CEI 23-49 italian standards

■ Standard version >> Large module 136

ADVANCE 2 System

576.



Description	Version	IP	Notes	Dimension	Power	Modular bases	Enclosures
CONSUMER UNIT			13 DIN	272x150x110mm	17W		
			6 DIN	136x150x110mm	9W		
JUNCTION BOX 136	CUT-OUT SINGLE	IP66	16/32A	136x150x105mm			576.4321 ^[1] 12
	ONE-MODULE BLANK						
	TWO-MODULE BLANK						
MODULAR BASE 136			16-32-63A	136x584x18mm		576.4340 6	
ENCLOSURE FOR SWITCH		IP66	ADVANCE2	136x150x105mm			

[1] Metric break-through cable entry

[2] For fitting with Y1 switch size panel mounting version (R) and relevant front operators handless (IP65).

[3] Power dissipation calculated in conformity with CEI 23-49 italian standards

Switched interlocked sockets outlets ADVANCE2 System



ADVANCE 2 System

576.



Consumer units

576.4302²₁ 6



Enclosures

576.4303¹ 12



576.4304¹ 6



Consumer units

576.4305²₁ 6

ADVANCE 2 System

576.



Consumer units

576.4322³₁ 6



Enclosures

576.4323¹ 12



576.4324¹ 6



Consumer units

576.4325³₁ 6



Enclosures

576.4390²₁ 6

1.3



Switched interlocked sockets outlets ADVANCE2 System

■ HD version >> Compact module 106 HD - Heavy Duty

ADVANCE 2 HD System

578.



1
INDUSTRY

Description	Version	IP	Notes	Dimension	Power	Modular bases	Enclosures
CONSUMER UNIT			10 DIN	212x150x110mm	14W		
			4 DIN	106x150x110mm	8W		
JUNCTION BOX 106	ONE-MODULE BLANK	IP66		106x150x105mm			578.4301 ^[1] 12
	TWO-MODULE BLANK						
MODULAR BASE 106			16-32A	106x434x18mm		578.4300 12	

⚡ Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

[1] Metric break-through cable entry

[2] Power dissipation calculated in conformity with CEI 23-49 italian standards

2

3

4

■ HD version >> Large module 136 HD - Heavy Duty

ADVANCE 2 HD System

578.



Description	Version	IP	Notes	Dimension	Power	Modular bases	Enclosures
CONSUMER UNIT			13 DIN	272x150x110mm	17W		
			6 DIN	136x150x110mm	9W		
JUNCTION BOX 136	ONE-MODULE BLANK	IP66		136x150x105mm			578.4321 ^[1] 12
	TWO-MODULE BLANK			272x150x105mm			
MODULAR BASE 136			16-32-63A	136x584x18mm		578.4340 6	

⚡ Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

[1] Metric break-through cable entry

[2] Power dissipation calculated in conformity with CEI 23-49 italian standards

Switched interlocked sockets outlets ADVANCE2 System



ADVANCE 2 HD System

578.



Consumer units



Enclosures



Consumer units

578.4302²₁ 6

578.4304¹ 6

578.4305²₁ 6

ADVANCE 2 HD System

578.



Consumer units



Enclosures



Consumer units

578.4322²₁ 6

578.4324¹ 6

578.4325²₁ 6

1.3



Switched interlocked sockets outlets ADVANCE2 System

■ Modular system for combination units - IP66

ENCLOSURES ACCESSORIES

654.



Description

Kit accessories

TRIANGULAR LOCK KIT

654.0079 1/10

1
INDUSTRY

2

3

4

TOP22 Series

590.



Description	Colour	Switch size	Contact blocks
NC CONTACT	■	Y1	590.PL004001 ¹ 10/60
		Y2	590.PL004003 ¹ 10
NO CONTACT	■	Y1	590.PL004002 ² 10/60
		Y2	590.PL004004 ² 10

¹ NC=Normally closed

² NO=Normally open

- Snap catch

Switched interlocked sockets outlets

ADVANCE-GRP Series



Without base IP66/IP67/IP69

ADVANCE GRP Series

402.



Without fuse carrier

INTERLOCKED SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	130x260mm						170x380mm		
					16A		32A		63A		63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	402.1670	1/6	402.3270	1	402.6370	1			
		200-250V	Blue	6h	402.1683	1/6	402.3283	1/6	402.6383	1			
		380-415V	Red	9h	402.1678	1	402.3278	1	402.6378	1			
		480-500V	Black	7h	402.16836	1	402.32836	1	402.63836	1			
		TST>50V	Grey	12h	402.16833	1/6	402.32833	1	402.63833	1			
	>300-500Hz	>50V	Green	2h	402.16832 ^[1]	1	402.32832 ^[1]	1	402.63832 ^[1]	1			
3P+E	50Hz 60Hz	100-130V	Yellow	4h	402.1672	1	402.3272	1/6	402.6372	1			
		200-250V	Blue	9h	402.1674	1/6	402.3274	1/6	402.6374	1			
		380-415V	Red	6h	402.1686	1/6	402.3286	1/6	402.6386	1			
		380V 50Hz / 440V 60Hz	Black	3h	402.16864	1	402.32864	1/6	402.63864	1			
		480-500V	Black	7h	402.16866	1/6	402.32866	1/6	402.63866	1			
	60Hz	440-460V	Red	11h	402.16867 ^[2]	1/6	402.32867 ^[2]	1	402.63867 ^[2]	1			
	100-300Hz	>50V	Green	10h	402.16861 ^[1]	1	402.32861 ^[1]	1	402.63861 ^[1]	1			
	>300-500Hz	>50V	Green	2h	402.16862 ^[1]	1	402.32862 ^[1]	1/6	402.63862 ^[1]	1			
	3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	402.1679	1	402.3279	1	402.6379	1		
			208-250V	Blue	9h	402.1675	1	402.3275	1	402.6375	1		
346-415V			Red	6h	402.1687	1/6	402.3287	1/6	402.6387	1			
380V 50Hz / 440V 60Hz			Black	3h	402.16874	1	402.32874	1	402.63874	1			
480-500V			Black	7h	402.16876	1	402.32876	1	402.63876	1			
600-690V		Black	5h	402.16877 ^[2]	1	402.32877 ^[2]	1	402.63877 ^[2]	1				
60Hz		440-460V	Red	11h	402.16875	1	402.32875	1	402.63875	1			
>300-500Hz	>50V	Green	2h	402.16872 ^[1]	1	402.32872 ^[1]	1	402.63872 ^[1]	1				

[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

[2] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Empty base: ADVANCE-GRP System (fam. 579)

1.3



Switched interlocked sockets outlets

ADVANCE-GRP Series

Without base IP66/IP67/IP69

ADVANCE GRP Series

403.



Without fuse carrier
[With "i-Device"]

INTERLOCKED SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	130x260mm						170x380mm		
					16A			32A			63A		
					16A	32A	63A	16A	32A	63A	16A	32A	63A
2P+E	50Hz 60Hz	100-130V	Yellow	4h	403.1670	1/6	403.3270	1/6	403.6370	1			
		200-250V	Blue	6h	403.1683	1/6	403.3283	1/6	403.6383	1			
		380-415V	Red	9h	403.1678	1	403.3278	1	403.6378	1			
		480-500V	Black	7h	403.16836	1	403.32836	1	403.63836	1			
		TST>50V	Grey	12h	403.16833	1	403.32833	1	403.63833	1			
		>300-500Hz	>50V	Green	2h	403.16832 ^[1]	1	403.32832 ^[1]	1	403.63832 ^[1]	1		
3P+E	50Hz 60Hz	100-130V	Yellow	4h	403.1672	1	403.3272	1	403.6372	1			
		200-250V	Blue	9h	403.1674	1/6	403.3274	1	403.6374	1			
		380-415V	Red	6h	403.1686	1/6	403.3286	1/6	403.6386	1			
		380V 50Hz / 440V 60Hz	Black	3h	403.16864	1	403.32864	1/6	403.63864	1			
		480-500V	Black	7h	403.16866	1	403.32866	1	403.63866	1			
		600-690V	Black	5h	403.16867 ^[2]	1	403.32867 ^[2]	1	403.63867 ^[2]	1			
		60Hz	440-460V	Red	11h	403.16865	1	403.32865	1	403.63865	1		
		100-300Hz	>50V	Green	10h	403.16861 ^[1]	1	403.32861 ^[1]	1	403.63861 ^[1]	1		
		>300-500Hz	>50V	Green	2h	403.16862 ^[1]	1	403.32862 ^[1]	1	403.63862 ^[1]	1		
		3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	403.1679	1	403.3279	1	403.6379	1	
208-250V	Blue			9h	403.1675	1	403.3275	1	403.6375	1			
346-415V	Red			6h	403.1687	1/6	403.3287	1/6	403.6387	1			
380V 50Hz / 440V 60Hz	Black			3h	403.16874	1	403.32874	1	403.63874	1			
480-500V	Black			7h	403.16876	1	403.32876	1	403.63876	1			
600-690V	Black			5h	403.16877 ^[2]	1	403.32877 ^[2]	1	403.63877 ^[2]	1			
60Hz	440-460V			Red	11h	403.16875	1	403.32875	1	403.63875	1		
>300-500Hz	>50V			Green	2h	403.16872 ^[1]	1	403.32872 ^[1]	1	403.63872 ^[1]	1		

^[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

^[2] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Empty base: ADVANCE-GRP System (fam. 579)
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

Switched interlocked sockets outlets

ADVANCE-GRP Series



Without base IP66/IP67/IP69

ADVANCE GRP Series

402.



With fuse carrier

INTERLOCKED SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	130x260mm			170x380mm		
					16A		32A		63A	
					Part No.	1/6	Part No.	1/6	Part No.	1/6
2P+E	50Hz 60Hz	100-130V	Yellow	4h	402.1670-F	1/6	402.3270-F	1	402.6370-F	1
		200-250V	Blue	6h	402.1683-F	1/6	402.3283-F	1/6	402.6383-F	1
		380-415V	Red	9h	402.1678-F	1	402.3278-F	1	402.6378-F	1
		480-500V	Black	7h	402.16836-F	1	402.32836-F	1	402.63836-F	1
		TST>50V	Grey	12h	402.16833-F	1	402.32833-F	1	402.63833-F	1
>300-500Hz	>50V	Green	2h	402.16832-F^[1]	1	402.32832-F^[1]	1	402.63832-F^[1]	1	
3P+E	50Hz 60Hz	100-130V	Yellow	4h	402.1672-F	1	402.3272-F	1	402.6372-F	1
		200-250V	Blue	9h	402.1674-F	1/6	402.3274-F	1	402.6374-F	1
		380-415V	Red	6h	402.1686-F	1/6	402.3286-F	1/6	402.6386-F	1
		380V 50Hz / 440V 60Hz	Black	3h	402.16864-F	1	402.32864-F	1/6	402.63864-F	1
		480-500V	Black	7h	402.16866-F	1	402.32866-F	1	402.63866-F	1
	600-690V	Black	5h	402.16867-F^[2]	1/6	402.32867-F^[2]	1	402.63867-F^[2]	1	
	60Hz	440-460V	Red	11h	402.16865-F	1	402.32865-F	1/6	402.63865-F	1
	100-300Hz	>50V	Green	10h	402.16861-F^[1]	1	402.32861-F^[1]	1	402.63861-F^[1]	1
	>300-500Hz	>50V	Green	2h	402.16862-F^[1]	1	402.32862-F^[1]	1	402.63862-F^[1]	1
	3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	402.1679-F	1	402.3279-F	1	402.6379-F
208-250V			Blue	9h	402.1675-F	1/6	402.3275-F	1/6	402.6375-F	1
346-415V			Red	6h	402.1687-F	1/6	402.3287-F	1/6	402.6387-F	1
380V 50Hz / 440V 60Hz			Black	3h	402.16874-F	1	402.32874-F	1/6	402.63874-F	1
480-500V			Black	7h	402.16876-F	1	402.32876-F	1	402.63876-F	1
600-690V		Black	5h	402.16877-F^[2]	1	402.32877-F^[2]	1	402.63877-F^[2]	1	
60Hz		440-460V	Red	11h	402.16875-F	1	402.32875-F	1/6	402.63875-F	1
>300-500Hz	>50V	Green	2h	402.16872-F^[1]	1	402.32872-F^[1]	1	402.63872-F^[1]	1	

^[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

^[2] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Empty base: ADVANCE-GRP System (fam. 579)

1.3



Switched interlocked sockets outlets

ADVANCE-GRP Series

Without base IP66/IP67/IP69

ADVANCE GRP Series

403.



With fuse carrier [With "i-Device"]

INTERLOCKED SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	130x260mm						170x380mm		
					16A		32A		63A		63A		
2P+E	50Hz 60Hz	100-130V	Yellow	4h	403.1670-F	1	403.3270-F	1/6	403.6370-F	1			
		200-250V	Blue	6h	403.1683-F	1/6	403.3283-F	1/6	403.6383-F	1			
		380-415V	Red	9h	403.1678-F	1/6	403.3278-F	1	403.6378-F	1			
		480-500V	Black	7h	403.16836-F	1	403.32836-F	1	403.63836-F	1			
		TST>50V	Grey	12h	403.16833-F	1	403.32833-F	1	403.63833-F	1			
		>300-500Hz	>50V	Green	2h	403.16832-F ^[1]	1	403.32832-F ^[1]	1	403.63832-F ^[1]	1		
3P+E	50Hz 60Hz	100-130V	Yellow	4h	403.1672-F	1	403.3272-F	1	403.6372-F	1			
		200-250V	Blue	9h	403.1674-F	1	403.3274-F	1	403.6374-F	1			
	50Hz 60Hz	380-415V	Red	6h	403.1686-F	1/6	403.3286-F	1/6	403.6386-F	1			
		380V 50Hz / 440V 60Hz	Black	3h	403.16864-F	1	403.32864-F	1	403.63864-F	1			
		480-500V	Black	7h	403.16866-F	1	403.32866-F	1	403.63866-F	1			
		600-690V	Black	5h	403.16867-F ^[2]	1	403.32867-F ^[2]	1	403.63867-F ^[2]	1			
	60Hz	440-460V	Red	11h	403.16865-F	1	403.32865-F	1	403.63865-F	1			
	100-300Hz	>50V	Green	10h	403.16861-F ^[1]	1	403.32861-F ^[1]	1	403.63861-F ^[1]	1			
	>300-500Hz	>50V	Green	2h	403.16862-F ^[1]	1	403.32862-F ^[1]	1	403.63862-F ^[1]	1			
	3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	403.1679-F	1	403.3279-F	1	403.6379-F	1		
208-250V			Blue	9h	403.1675-F	1	403.3275-F	1	403.6375-F	1			
50Hz 60Hz		346-415V	Red	6h	403.1687-F	1/6	403.3287-F	1/6	403.6387-F	1			
		380V 50Hz / 440V 60Hz	Black	3h	403.16874-F	1	403.32874-F	1/6	403.63874-F	1			
		480-500V	Black	7h	403.16876-F	1	403.32876-F	1	403.63876-F	1			
600-690V		Black	5h	403.16877-F ^[2]	1	403.32877-F ^[2]	1	403.63877-F ^[2]	1				
60Hz		440-460V	Red	11h	403.16875-F	1	403.32875-F	1	403.63875-F	1			
>300-500Hz	>50V	Green	2h	403.16872-F ^[1]	1	403.32872-F ^[1]	1	403.63872-F ^[1]	1				

^[1] The maximum amount of current available, taking into account the maximum overheating temperature allowed by the relevant standards, must be downgraded with respect to the nominal current by 25% for products with frequencies ranging above 100 Hz; contact Scame Technical Service for further information.

^[2] Pay special attention when selecting the appropriate fuse with respect to the tension of the installation.

- Supplied with stainless steel fixing screws.
- Empty base: ADVANCE-GRP System (fam. 579)
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

Switched interlocked sockets outlets

ADVANCE-GRP Series



Without base IP66/IP67/IP69

ADVANCE GRP Series

403.



With MCB

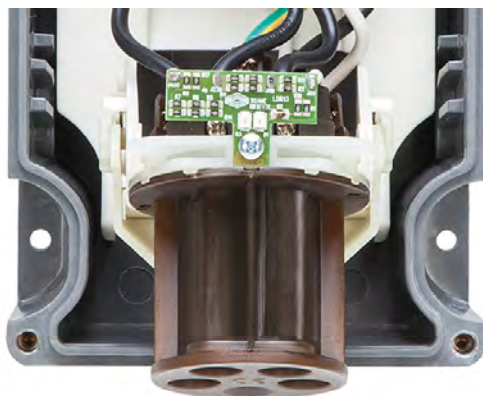
INTERLOCKED SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	130x260mm		170x380mm			
					16A	32A	63A			
2P+E	50Hz 60Hz	100-130V	Yellow	4h	403.1670-M	1/6	403.3270-M	1/6	403.6370-M	1
		200-250V	Blue	6h	403.1683-M	1/6	403.3283-M	1/6	403.6383-M	1
		380-415V	Red	9h	403.1678-M	1/6	403.3278-M	1/6	403.6378-M	1
3P+E	50Hz 60Hz	100-130V	Yellow	4h	403.1672-M	1/6	403.3272-M	1/6	403.6372-M	1
		200-250V	Blue	9h	403.1674-M	1/6	403.3274-M	1/6	403.6374-M	1
		380-415V	Red	6h	403.1686-M	1/6	403.3286-M	1/6	403.6386-M	1
3P+N+E	50Hz 60Hz	380V 50Hz / 440V 60Hz	Red	3h	403.16864-M	1	403.32864-M	1	403.63864-M	1
		60Hz	440-460V		11h	403.16865-M	1	403.32865-M	1	403.63865-M
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	403.1679-M	1/6	403.3279-M	1/6	403.6379-M	1
		208-250V	Blue	9h	403.1675-M	1/6	403.3275-M	1/6	403.6375-M	1
		346-415V	Red	6h	403.1687-M	1/6	403.3287-M	1/6	403.6387-M	1
3P+N+E	60Hz	380V 50Hz / 440V 60Hz	Red	3h	403.16874-M	1	403.32874-M	1	403.63874-M	1
		60Hz	440-460V		11h	403.16875-M	1	403.32875-M	1	403.63875-M

☼ With power indicating led

- MCB = Miniature circuit breaker with thermal magnetic trip unit
- Supplied with stainless steel fixing screws.
- Empty base: ADVANCE-GRP System (fam. 579)



Voltage presence indicator led

1.3



Switched interlocked sockets outlets

ADVANCE-GRP Series

■ Surface mounting IP66 (125A)

ADVANCE GRP Series

503.



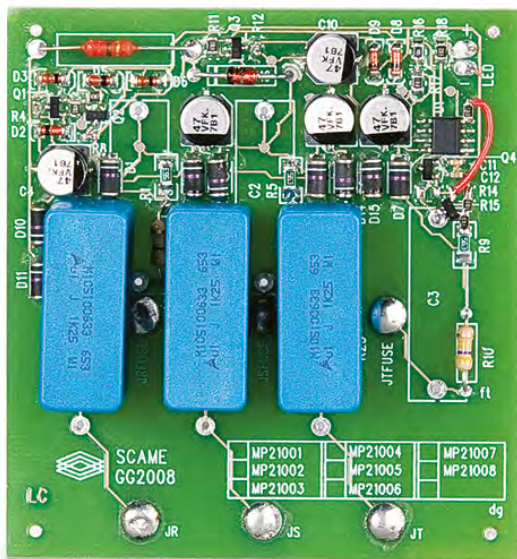
With switch-disconnector [With "i-Device"]

INTERLOCKED SOCKET

IP66

Current	Poles	Hz	Volt	Colour	h	Ex	503.12583	503.12586	503.125865	503.12587
125A	2P+E	50Hz 60Hz	200-250V	Blue	6h	II 3D	1	1	1	1
	3P+E		380-415V	Red	11h		1	1	1	1
		60Hz	440-460V	Red	6h		1	1	1	1
	3P+N+E	50Hz 60Hz	346-415V	Red	6h		1	1	1	1

- Blank side with drilling point mark
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.



i-Device

An electronic device controls (*Intelligence Device*) the status of the interlocked socket, monitoring the electrical functionality:

- operation of the signalling and control card is guaranteed even when the load is not connected;

INDICATOR LIGHT ON

- indicates that the fuses are not open and all the phases are present;

- indicates that the socket outlet is powered correctly;

INDICATOR LIGHT FLASHING

- signals the interruption of one or more fuses;

- signals the absence of a phase(*);

INDICATOR LIGHT OFF

- indicates that the socket outlet is not powered.

(*) For single-phase products in the event of phase/neutral loss led signaling appears off.

1
INDUSTRY

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3
4

Switched interlocked sockets outlets

ADVANCE-GRP Series



■ Surface mounting IP66 (125A)

ADVANCE GRP Series

503.



With switch-disconnector and fuse
[With "i-Device"]

							INTERLOCKED SOCKET	
							IP66	
Current	Poles	Hz	Volt	Colour	h	Ex		
125A	2P+E	50Hz 60Hz	>50-250V	Grey	3h		503.125834-F ^[1]	1
			200-250V	Blue			503.12583-F	1
	3P+E		380-415V	Red	6h	II 3D	503.12586-F	1
	3P+N+E		346-415V				503.12587-F	1

[1] When using DC we recommend that you make sure of implementing the protection scheme that is most suitable for the system involved; contact Scame Technical Service for further information.

- Blank side with drilling point mark
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

ADVANCE GRP Series

503.



With fuse and switch
[With "i-Device"]

							INTERLOCKED SOCKET	
							IP66	
Current	Poles	Hz	Volt	Colour	h	Ex		
125A	2P+E	50Hz 60Hz	200-250V	Blue	6h	II 3D	503.12583-FS	1
			380-415V	Red			503.12586-FS	1
	3P+N+E		346-415V			503.12587-FS	1	

- Blank side with drilling point mark
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

1.3



Switched interlocked sockets outlets

ADVANCE-GRP Series

■ Surface mounting IP66 (125A)

ADVANCE GRP Series



503.



With MCCB [With "i-Device"]

INTERLOCKED SOCKET

IP66

Current	Poles	Hz	Volt	Colour	h	Ex			
125A	2P+E	50Hz 60Hz	200-250V		6h	II 3D		1	
	3P+E		380-415V						503.12583-M
	3P+N+E		346-415V						503.12586-M
								503.12587-M	

- MCCB = Molded case circuit breaker with thermal magnetic trip unit
- Blank side with drilling point mark
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

ADVANCE GRP Series



503.



With MCCB & RCD [With "i-Device"]

INTERLOCKED SOCKET

IP66

Current	Poles	Hz	Volt	Colour	h	Ex			
125A	2P+E	50Hz 60Hz	200-250V		6h	II 3D		1	
	3P+E		380-415V						503.12583-RM
	3P+N+E		346-415V						503.12586-RM
								503.12587-RM	

- MCCB & RCD = Molded case circuit breaker with thermal magnetic and residual current release trip unit
- Blank side with drilling point mark
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.

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INDUSTRY

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Switched interlocked sockets outlets

ADVANCE-GRP Series



■ Surface mounting IP66 (125A)

ADVANCE GRP Series

503.



With contactor [With "i-Device"]

INTERLOCKED SOCKET

Current	Poles	Hz	Volt	Colour	h	Ex	INTERLOCKED SOCKET	
125A	2P+E	50Hz 60Hz	200-250V		6h	II 3D	IP66	
	3P+E		380-415V				503.12583-T	1
	3P+N+E		346-415V				503.12586-T	1
							503.12587-T	1

- Blank side with drilling point mark
- [i-Device]: an electronic device controls ("Intelligence Device") the status of the interlocked socket, monitoring the electrical functionality.



APPLICATION EXAMPLE

1.3



Switched interlocked sockets outlets

ADVANCE-GRP Series

■ Extra low voltage <50V - IP66/IP67/IP69

ADVANCE-GRP[<50V] Series

403.



Version with safety transformer - Panel mounting

INTERLOCKED SOCKET

IP66/IP67/IP69

130x260mm

Poles	Volt	Colour	h	16A		32A	
				Code	Rating	Code	Rating
2P	20-25V	■	12h	403.2420	1/6	403.2620	1/6
	24V			403.2416 [⊕]	1/6		
	40-50V	□		403.2421	1/6	403.2621	1/6

[⊕] SELV transformer 220/24V~ 150VA (continuous duty).

- For the choice of bases, refer to the 16A-32A module.
- Supplied with stainless steel fixing screws.
- When plug is inserted a micro-switch is activated and closes the circuit
- Empty base: ADVANCE-GRP System (fam. 579)



AS panels

Example of Mega Panel available in customized configuration.

1

INDUSTRY

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Switched interlocked sockets outlets

ADVANCE-GRP System



Empty bases IP66/IP67/IP69

ADVANCE-GRP System

579.



Empty base 16A-32A

Empty base 63A

Notes	Dimension	MODULAR BASES	
		IP66/IP67/IP69	
16A-32A	130x260mm	579.5100	1
63A	170x380mm	579.5200	1

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- IP66/IP67/IP69 when coupled with the respective component.
- Blank side with drilling point mark

ADVANCE-GRP System

579.



Empty base 16-32A with junction box

Empty base 16-32A with junction box (double)

Empty base 63A with junction box

Notes	Dimension	Power	MODULAR BASES	
			IP66/IP67/IP69	
16A-32A	130x460mm	9W	579.5110	1
	260x460mm	16W	579.5120	1
63A	170x580mm	9W	579.5210	1

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- IP66/IP67/IP69 when coupled with the respective component.
- Blank side with drilling point mark

1.3



Switched interlocked sockets outlets

ADVANCE-GRP System

Empty bases IP66/IP67/IP69

1
INDUSTRY

ADVANCE-GRP System

579.



Empty base 16-32A with
DIN rail

Empty base 16-32A with
DIN rail (double)

Empty base 63A with
DIN rail

MODULAR BASES

IP66/IP67/IP69

Notes	Dimension	Power			
16A-32A - 13 DIN	260x460mm	16W			
16A-32A - 6 DIN	130x460mm	13W	579.5111	1	
63A - 8 DIN	170x580mm				579.5211 1

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- IP66/IP67/IP69 when coupled with the respective component.
- Blank side with drilling point mark



APPLICATION EXAMPLE

Switched interlocked sockets outlets

ADVANCE-GRP System



Modular system - IP66

ADVANCE-GRP System

579.



Modular plate

Dimension	MODULAR PLATE				
	2x16-32A + 1x63A	2x16-32A + 2x63A	3x16-32A	3x16-32A + 1x63A	4x16-32A
390x555mm			579.0030		
430x685mm	579.0021				
520x555mm					579.0040
560x685mm				579.0031	
610x685mm		579.0022			



579.0021
Composition example: 3x16-32A



579.0031
Composition example: 3x16-32A + 1x63A

1.3



Switched interlocked sockets outlets ADVANCE-GRP System

Accessories

ADVANCE-GRP System

579.



Description	Cable outlet	Current	Kit microswitch	Junction box kit	Coupling kit
ADAPTOR COUPLING KIT	M32X1,5				579.0332 ^{[4][5]} 12
MICROSWITCH KIT		16A 32A 63A	579.0100 ^{[1][2]} 12		
		125A	579.0125 ^{[3][1]} 1		
JUNCTION_BOX KIT	M40X1,5			579.0200 ^{[4][5]} 1/12	
	M50X1,5			579.0201 ^{[4][5]} 1/12	

^[1] For plug-inserted control; not suitable for electrically interlocked socket.

^[2] Max 1 kit for 16A-32A sockets; Max 2 kit for 63A sockets.

^[3] Max. 2 kits

^[4] Includes cable gland and gasket

^[5] IP66/IP67/IP69 when coupled with the respective component.

Modular system - IP66

TOP22 Series

590.



Description	Colour	Switch size	Contact blocks
NC CONTACT		Y1	590.PL004001 ^[1] 10/60
		Y2	590.PL004003 ^[1] 10
NO CONTACT		Y1	590.PL004002 ^[2] 10/60
		Y2	590.PL004004 ^[2] 10

^[1] NC=Normally closed

^[2] NO=Normally open

- Snap catch

Switched interlocked sockets outlets

ADVANCE-GRP System



Modular system - IP66

ADVANCE-GRP System

579.



Description	IP	Notes	Accessories	
BLANK PLATE FOR DIN MODULES			579.0450	10
BASE BLANK COVER	IP66/IP67/IP69	16A-32A	579.5001 ^[2]	10
SCREW KNOBS KIT			579.0400 ^[1]	12

[1] For bases with control units instead of screws for closing the doors

[2] Cover used to close the socket compartment; allows other devices to be installed

1.3

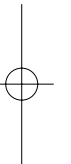
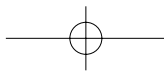


1.4

Plugs and sockets for special applications

- AMR System - Automated Meter Reading
- Plugs and sockets for industrial applications <50V~
- Events and exhibitions products
- Industrial plugs and sockets for military use
- Plugs and sockets UL/CSA
- Seven poles plugs and sockets
- OPTIMA-METAL Series - Industrial connectors





Plugs and sockets for special applications

AMR System - Automated Meter Reading

■ ADVANCE-GRP [AMR] Series >> Panel mounting IP66/IP67/IP69

ADVANCE-GRP[AMR] Series

403.



AMR Without fuse carrier [AMR]

INTERLOCKED SOCKET

IP66/IP67/IP69

Current	Poles	Volt	Colour	h	130x260mm		170x380mm	
					Model	Quantity	Model	Quantity
16A	2P+E	200-250V	Blue	6h	403.AMR1683	1		
	3P+E	380-415V	Red		403.AMR1686	1		
	3P+N+E	346-415V	Red		403.AMR1687	1		
32A	2P+E	200-250V	Blue	3h	403.AMR3283	1		
	3P+E	380-415V	Red		403.AMR3286	1		
		380V 50Hz / 440V 60Hz	Red		403.AMR32864	1		
	3P+N+E	346-415V	Red		403.AMR3287	1		
63A	2P+E	200-250V	Blue	6h			403.AMR6383	1
	3P+E	380-415V	Red				403.AMR6386	1
	3P+N+E	346-415V	Red				403.AMR6387	1

- Supplied with stainless steel fixing screws.

1

INDUSTRY

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AMR
AUTOMATED METER READING

Plugs and sockets for special applications

AMR System - Automated Meter Reading



■ ADVANCE-GRP [AMR] Series >> Panel mounting IP66/IP67/IP69

ADVANCE-GRP[AMR] Series

403.



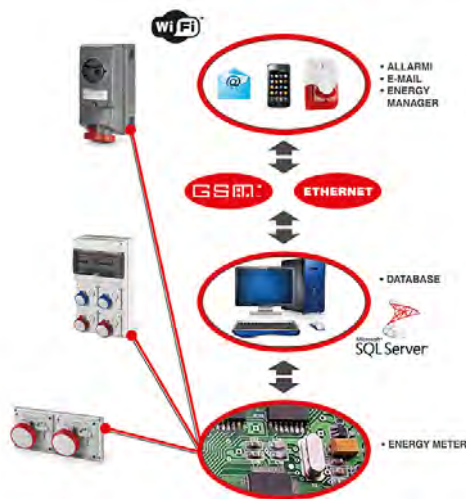
AMR With fuse carrier
[AMR]

INTERLOCKED SOCKET

IP66/IP67/IP69

Current	Poles	Volt	Colour	h	130x260mm		170x380mm	
					Model	Quantity	Model	Quantity
16A	2P+E	200-250V	Blue	6h	403.AMR1683-F	1		
	3P+E	380-415V	Red		403.AMR1686-F	1		
	3P+N+E	346-415V	Red		403.AMR1687-F	1		
32A	2P+E	200-250V	Blue	3h	403.AMR3283-F	1		
	3P+E	380-415V	Red		403.AMR3286-F	1		
	3P+N+E	380V 50Hz / 440V 60Hz	Red		403.AMR32864-F	1		
63A	2P+E	200-250V	Blue	6h			403.AMR6383-F	1
	3P+E	380-415V	Red				403.AMR6386-F	1
	3P+N+E	346-415V	Red				403.AMR6387-F	1

- Supplied with stainless steel fixing screws.



AMR System

The products of the AMR System, from the acronym AMR (Automated Meter Reading), feature advanced technology. Thanks to the AMR system, you can acquire energy consumption data, measure currents and power, analyse grid parameters and send/receive alarm messages through text message or by e-mail.

1.4



Plugs and sockets for special applications

AMR System - Automated Meter Reading

■ ADVANCE-GRP [AMR] Series >> Panel mounting IP66/IP67/IP69

ADVANCE-GRP[AMR] Series

403.



AMR With MCB [AMR]

INTERLOCKED SOCKET

IP66/IP67/IP69

Current	Poles	Volt	Colour	h	130x260mm		170x380mm	
					Model	Quantity	Model	Quantity
16A	2P+E	200-250V	Blue	6h	403.AMR1683-M	1		
	3P+E	380-415V	Red		403.AMR1686-M	1		
	3P+N+E	346-415V	Red		403.AMR1687-M	1		
32A	2P+E	200-250V	Blue	3h	403.AMR3283-M	1		
	3P+E	380-415V	Red		403.AMR3286-M	1		
	3P+N+E	380V 50Hz / 440V 60Hz	Red		403.AMR32864-M	1		
	3P+N+E	346-415V	Red		403.AMR3287-M	1		
63A	2P+E	200-250V	Blue	6h			403.AMR6383-M	1
	3P+E	380-415V	Red				403.AMR6386-M	1
	3P+N+E	346-415V	Red				403.AMR6387-M	1

- MCB = Miniature circuit breaker with thermal magnetic trip unit
- Supplied with stainless steel fixing screws.



AMR System

Example of container terminal applications

I/O MANAGEMENT

- Auxiliary input
- Earth presence control
- Inserted plug control
- Manoeuvre status
- Device internal temperature
- Sending of alarms



AMR
AUTOMATED METER READING

Plugs and sockets for special applications

AMR System - Automated Meter Reading



■ ADVANCE-GRP [AMR] Series >> Surface mounting IP66 (125A)

ADVANCE-GRP[AMR] Series

503.



AMF With switch-disconnector [AMR]

AMF With switch-disconnector and fuse [AMR]

AMF With MCCB [AMR]

INTERLOCKED SOCKET

IP66

Current	Poles	Volt	Colour	h	503.AMR12583	503.AMR12583-F	503.AMR12583-M
125A	2P+E	200-250V	Blue	6h	1	1	1
	3P+E	380-415V	Red		1	1	1
	3P+N+E	346-415V			1	1	1

1 MCCB = Molded case circuit breaker with thermal magnetic trip unit

- Blank side with drilling point mark

■ Components

SCABOX Series

686.



AMF Current transformer

Description	Notes	686.AMRTA-005	686.AMRTA-032	686.AMRTA-063	686.AMRTA-125	686.AMRTA-225
CURRENT TRANSFORMER	TA 5A					
	TA 32A					
	TA 63A					
	TA 125A					
	TA 225A					

1.4



Plugs and sockets for special applications

AMR System - Automated Meter Reading

Components

SCABOX Series

686.



1
INDUSTRY

Description	IP	GW	Colour	Dimension	AMF AMR-BOX
AMR-BOX WI-FI TA5A	IP56	GW 650°C		300x220x120mm	686.AMR209-01

2
3
4



AMR-BOX System

- [1] Earth connection
- [2] R-S-T-N power supply
- [3] Connection TA/5A
- [4] Energy meeter reading
- [5] Out contact NO/NC (load control)



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AMR
AUTOMATED METER READING

Plugs and sockets for special applications

AMR System - Automated Meter Reading



Management

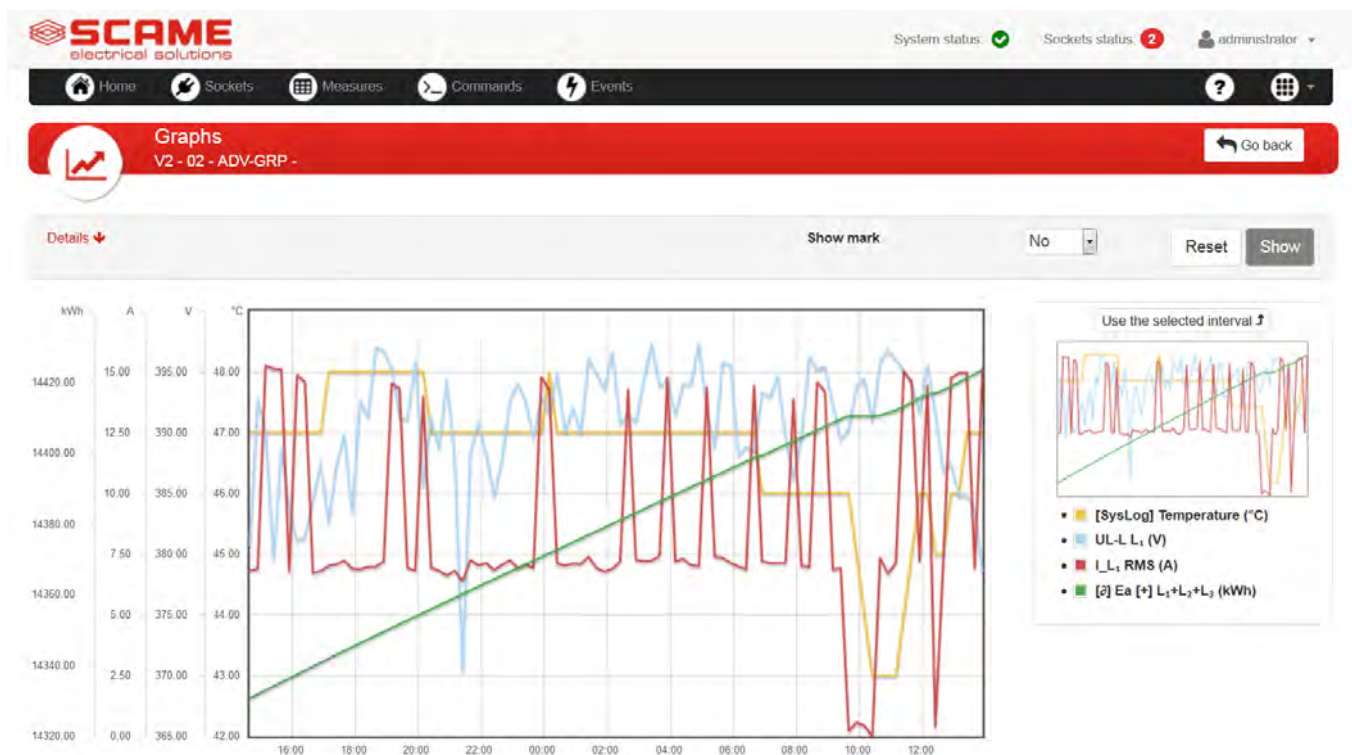
ADVANCE-GRP[AMR] Series

499.



Description	Notes	AMR Software
MANAGMENT SOFTWARE	BASIC PACKAGE SOFTWARE	499.AMRSW-000 ¹
	LICENSE 001: 1 DEVICE	499.AMRSW-001
	LICENSE 010: 10 DEVICES	499.AMRSW-010
	LICENSE 030: 30 DEVICES	499.AMRSW-030
	LICENSE 060: 60 DEVICES	499.AMRSW-060
	LICENSE 100: 100 DEVICES	499.AMRSW-100
	LICENSE 999: FULL	499.AMRSW-999

¹ The software can be downloaded from SCAME website [www.scame.com]



AMR - Software
Load management and remote controls

1.4



Plugs and sockets for special applications

Plugs and sockets for industrial applications <50V~

IEC309 Series - Plugs and connectors

IEC309 Series

230.

235.



Plugs - IP44

Plugs - IP66/IP67

PLUG

Current	Poles	Hz	Volt	Colour	h	PLUG			
						IP44	IP66/IP67		
16A	2P	50Hz 60Hz	20-25V	Green	12h	230.1600	10/100	235.1600	10/100
			40-50V	White	12h	230.1601	10/100	235.1601	10/100
		20-25V 40-50V	100-200Hz	White	4h	230.16010	10/100	235.16010	10/100
			300Hz	Green	2h	230.16012	10/100	235.16012	10/100
			400Hz	Green	3h	230.16014	10/100	235.16014	10/100
			>400-500Hz	White	11h	230.16015	10/100	235.16015	10/100
	DC	White	10h	230.1602	10/100	235.1602	10/100		
	3P	50Hz 60Hz	20-25V	Green	12h	230.1604	10/100	235.1604	10/100
			40-50V	White	12h	230.1603	10/100	235.1603	10/100
		20-25V 40-50V	100-200Hz	White	4h	230.16030	10/100	235.16030	10/100
			300Hz	Green	2h	230.16032	10/100	235.16032	10/100
			400Hz	Green	3h	230.16034	10/100	235.16034	10/100
>400-500Hz			White	11h	230.16035	10/100	235.16035	10/100	
32A	2P	50Hz 60Hz	20-25V	Green	12h	230.3200	10/100	235.3200	10/100
			40-50V	White	12h	230.3201	10/100	235.3201	10/100
		20-25V 40-50V	100-200Hz	White	4h	230.32010	10/100	235.32010	10/100
			300Hz	Green	2h	230.32012	10/100	235.32012	10/100
			400Hz	Green	3h	230.32014	10/100	235.32014	10/100
			>400-500Hz	White	11h	230.32015	10/100	235.32015	10/100
	DC	White	10h	230.3202	10/100	235.3202	10/100		
	3P	50Hz 60Hz	20-25V	Green	12h	230.3204	10/100	235.3204	10/100
			40-50V	White	12h	230.3203	10/100	235.3203	10/100
		20-25V 40-50V	100-200Hz	White	4h	230.32030	10/100	235.32030	10/100
			300Hz	Green	2h	230.32032	10/100	235.32032	10/100
			400Hz	Green	3h	230.32034	10/100	235.32034	10/100
>400-500Hz			White	11h	230.32035	10/100	235.32035	10/100	

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Plugs and sockets for special applications
Plugs and sockets for industrial applications <50V~



IEC309 Series

330.

335.



Connectors - IP44

Connectors - IP66/IP67

CONNECTOR			
IP44		IP66/IP67	
330.1605	10/100	335.1605	10/100
330.1606	10/100	335.1606	10/100
330.16060	10/100	335.16060	10/100
330.16062	10/100	335.16062	10/100
330.16064	10/100	335.16064	10/100
330.16065	10/100	335.16065	10/100
330.1607	10/100	335.1607	10/100
330.1609	10/100	335.1609	10/100
330.1608	10/100	335.1608	10/100
330.16080	10/100	335.16080	10/100
330.16082	10/100	335.16082	10/100
330.16084	10/100	335.16084	10/100
330.16085	10/100	335.16085	10/100
330.3205	10/100	335.3205	10/50
330.3206	10/100	335.3206	10/50
330.32060	10/100	335.32060	10/50
330.32062	10/100	335.32062	10/50
330.32064	10/100	335.32064	10/50
330.32065	10/100	335.32065	10/50
330.3207	10/100	335.3207	10/50
330.3209	10/100	335.3209	10/50
330.3208	10/100	335.3208	10/50
330.32080	10/100	335.32080	10/50
330.32082	10/100	335.32082	10/50
330.32084	10/100	335.32084	10/50
330.32085	10/100	335.32085	10/50

1.4



Plugs and sockets for special applications

Plugs and sockets for industrial applications <50V~

IEC309 Series - Flush mounting socket outlets

IEC309 Series

430.



Flush mounting socket outlets [Angled outlet] - IP44

Flush mounting socket outlets [Straight outlet] - IP44

FLUSH-MOUNTING SOCKET

IP44

Current	Poles	Hz	Volt	Colour	h	70x87mm		55x55mm	
						Part No.	10/100	Part No.	10/100
16A	2P	50Hz 60Hz	20-25V	Green	12h	430.1615	10/100	430.1615/R	10/100
			40-50V	White	12h	430.1616	10/100	430.1616/R	10/100
		20-25V 40-50V	100-200Hz	White	4h	430.16160	10/100	430.16160/R	10/100
			300Hz	Green	2h	430.16162	10/100	430.16162/R	10/100
			400Hz	Green	3h	430.16164	10/100	430.16164/R	10/100
			>400-500Hz	White	11h	430.16165	10/100	430.16165/R	10/100
	DC	White	10h	430.1617	10/100	430.1617/R	10/100		
	3P	50Hz 60Hz	20-25V	Green	12h	430.1619	10/100	430.1619/R	10/100
			40-50V	White	12h	430.1618	10/100	430.1618/R	10/100
		20-25V 40-50V	100-200Hz	White	4h	430.16180	10/100	430.16180/R	10/100
			300Hz	Green	2h	430.16182	10/100	430.16182/R	10/100
			400Hz	Green	3h	430.16184	10/100	430.16184/R	10/100
>400-500Hz			White	11h	430.16185	10/100	430.16185/R	10/100	
32A	2P	50Hz 60Hz	20-25V	Green	12h	430.3215	10/100	430.3215/R	10/100
			40-50V	White	12h	430.3216	10/100	430.3216/R	10/100
		20-25V 40-50V	100-200Hz	White	4h	430.32160	10/100	430.32160/R	10/100
			300Hz	Green	2h	430.32162	10/100	430.32162/R	10/100
			400Hz	Green	3h	430.32164	10/100	430.32164/R	10/100
			>400-500Hz	White	11h	430.32165	10/100	430.32165/R	10/100
	DC	White	10h	430.3217	10/100	430.3217/R	10/100		
	3P	50Hz 60Hz	20-25V	Green	12h	430.3219	10/100	430.3219/R	10/100
			40-50V	White	12h	430.3218	10/100	430.3218/R	10/100
		20-25V 40-50V	100-200Hz	White	4h	430.32180	10/100	430.32180/R	10/100
			300Hz	Green	2h	430.32182	10/100	430.32182/R	10/100
			400Hz	Green	3h	430.32184	10/100	430.32184/R	10/100
>400-500Hz			White	11h	430.32185	10/100	430.32185/R	10/100	

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INDUSTRY

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Plugs and sockets for special applications
Plugs and sockets for industrial applications <50V~



IEC309 Series

435.



Flush mounting socket outlets [Angled outlet] - IP66/IP67



Flush mounting socket outlets [Straight outlet] - IP66/IP67

FLUSH-MOUNTING SOCKET
IP66/IP67

70x87mm		55x55mm	
435.1615	10/100	435.1615/R	10/100
435.1616	10/100	435.1616/R	10/100
435.16160	10/100	435.16160/R	10/100
435.16162	10/100	435.16162/R	10/100
435.16164	10/100	435.16164/R	10/100
435.16165	10/100	435.16165/R	10/100
435.1617	10/100	435.1617/R	10/100
435.1619	10/100	435.1619/R	10/100
435.1618	10/100	435.1618/R	10/100
435.16180	10/100	435.16180/R	10/100
435.16182	10/100	435.16182/R	10/100
435.16184	10/100	435.16184/R	10/100
435.16185	10/100	435.16185/R	10/100
435.3215	10/100	435.3215/R	10/100
435.3216	10/100	435.3216/R	10/100
435.32160	10/100	435.32160/R	10/100
435.32162	10/100	435.32162/R	10/100
435.32164	10/100	435.32164/R	10/100
435.32165	10/100	435.32165/R	10/100
435.3217	10/100	435.3217/R	10/100
435.3219	10/100	435.3219/R	10/100
435.3218	10/100	435.3218/R	10/100
435.32180	10/100	435.32180/R	10/100
435.32182	10/100	435.32182/R	10/100
435.32184	10/100	435.32184/R	10/100
435.32185	10/100	435.32185/R	10/100

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Plugs and sockets for special applications

Plugs and sockets for industrial applications <50V~

IEC309 Series - Surface mounting socket outlets

IEC309 Series

530.



Surface mounting socket outlets [Straight box] - IP44

Surface mounting socket outlets [Angled box] - IP44

SURFACE MOUNTING SOCKET

IP44

Current	Poles	Hz	Volt	Colour	h	SURFACE MOUNTING SOCKET			
						DRILLING POINT MARK	M20X1,5		
16A	2P	50Hz 60Hz	20-25V			530.1610 ^{[1][2]}	10/50	530.01610 ^{[3][4]}	10/50
			40-50V		12h	530.1611 ^{[1][2]}	10/50	530.01611 ^{[3][4]}	10/50
		20-25V 40-50V	100-200Hz		4h	530.16110 ^{[1][2]}	10/50	530.016110 ^{[3][4]}	10/50
			300Hz		2h	530.16112 ^{[1][2]}	10/50	530.016112 ^{[3][4]}	10/50
			400Hz		3h	530.16114 ^{[1][2]}	10/50	530.016114 ^{[3][4]}	10/50
			>400-500Hz		11h	530.16115 ^{[1][2]}	10/50	530.016115 ^{[3][4]}	10/50
	DC		10h	530.1612 ^{[1][2]}	10/50	530.01612 ^{[3][4]}	10/50		
	3P	50Hz 60Hz	20-25V			530.1614 ^{[1][2]}	10/50	530.01614 ^{[3][4]}	10/50
			40-50V		12h	530.1613 ^{[1][2]}	10/50	530.01613 ^{[3][4]}	10/50
		20-25V 40-50V	100-200Hz		4h	530.16130 ^{[1][2]}	10/50	530.016130 ^{[3][4]}	10/50
			300Hz		2h	530.16132 ^{[1][2]}	10/50	530.016132 ^{[3][4]}	10/50
			400Hz		3h	530.16134 ^{[1][2]}	10/50	530.016134 ^{[3][4]}	10/50
>400-500Hz				11h	530.16135 ^{[1][2]}	10/50	530.016135 ^{[3][4]}	10/50	
32A	2P	50Hz 60Hz	20-25V			530.3210 ^{[1][2]}	10/50		
			40-50V		12h	530.3211 ^{[1][2]}	10/50		
		20-25V 40-50V	100-200Hz		4h	530.32110 ^{[1][2]}	10/50		
			300Hz		2h	530.32112 ^{[1][2]}	10/50		
			400Hz		3h	530.32114 ^{[1][2]}	10/50		
			>400-500Hz		11h	530.32115 ^{[1][2]}	10/50		
	DC		10h	530.3212 ^{[1][2]}	10/50				
	3P	50Hz 60Hz	20-25V			530.3214 ^{[1][2]}	10/50		
			40-50V		12h	530.3213 ^{[1][2]}	10/50		
		20-25V 40-50V	100-200Hz		4h	530.32130 ^{[1][2]}	10/50		
			300Hz		2h	530.32132 ^{[1][2]}	10/50		
			400Hz		3h	530.32134 ^{[1][2]}	10/50		
>400-500Hz				11h	530.32135 ^{[1][2]}	10/50			

- [1] Blank side with drilling point mark
- [2] Rubber cable sleeve included
- [3] Open threaded cable entry
- [4] Threaded cap/cable sleeve included

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Plugs and sockets for special applications

Plugs and sockets for industrial applications <50V~



IEC309 Series

530.		535.		
Surface mounting socket outlets [Angled box] - IP44		Surface mounting socket outlets [Angled box] - IP66/IP67		
SURFACE MOUNTING SOCKET				
IP44		IP66/IP67		
M25X1,5	M20X1,5	M25X1,5	DRILLING POINT MARK	
	535.01610 ³ / ₄	10/50	535.1610 ¹ / ₂	10/50
	535.01611 ³ / ₄	10/50	535.1611 ¹ / ₂	10/50
	535.016110 ³ / ₄	10/50	535.16110 ¹ / ₂	10/50
	535.016112 ³ / ₄	10/50	535.16112 ¹ / ₂	10/50
	535.016114 ³ / ₄	10/50	535.16114 ¹ / ₂	10/50
	535.016115 ³ / ₄	10/50	535.16115 ¹ / ₂	10/50
	535.01612 ³ / ₄	10/50	535.1612 ¹ / ₂	10/50
	535.01614 ³ / ₄	10/50	535.1614 ¹ / ₂	10/50
	535.01613 ³ / ₄	10/50	535.1613 ¹ / ₂	10/50
	535.016130 ³ / ₄	10/50	535.16130 ¹ / ₂	10/50
	535.016132 ³ / ₄	10/50	535.16132 ¹ / ₂	10/50
	535.016134 ³ / ₄	10/50	535.16134 ¹ / ₂	10/50
	535.016135 ³ / ₄	10/50	535.16135 ¹ / ₂	10/50
	530.03210 ³ / ₄	10/50	535.03210 ³ / ₄	10/50
	530.03211 ³ / ₄	10/50	535.03211 ³ / ₄	10/50
	530.032110 ³ / ₄	10/50	535.032110 ³ / ₄	10/50
	530.032112 ³ / ₄	10/50	535.032112 ³ / ₄	10/50
	530.032114 ³ / ₄	10/50	535.032114 ³ / ₄	10/50
	530.032115 ³ / ₄	10/50	535.032115 ³ / ₄	10/50
	530.03212 ³ / ₄	10/50	535.03212 ³ / ₄	10/50
	530.03214 ³ / ₄	10/50	535.03214 ³ / ₄	10/50
	530.03213 ³ / ₄	10/50	535.03213 ³ / ₄	10/50
	530.032130 ³ / ₄	10/50	535.032130 ³ / ₄	10/50
	530.032132 ³ / ₄	10/50	535.032132 ³ / ₄	10/50
	530.032134 ³ / ₄	10/50	535.032134 ³ / ₄	10/50
	530.032135 ³ / ₄	10/50	535.032135 ³ / ₄	10/50
			535.3210 ¹ / ₂	10/50
			535.3211 ¹ / ₂	10/50
			535.32110 ¹ / ₂	10/50
			535.32112 ¹ / ₂	10/50
			535.32114 ¹ / ₂	10/50
			535.32115 ¹ / ₂	10/50
			535.3212 ¹ / ₂	10/50
			535.3214 ¹ / ₂	10/50
			535.3213 ¹ / ₂	10/50
			535.32130 ¹ / ₂	10/50
			535.32132 ¹ / ₂	10/50
			535.32134 ¹ / ₂	10/50
			535.32135 ¹ / ₂	10/50

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Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP44/IP54 versions >> Plugs / Inlets (black version)

OPTIMA Series

213.







 Screw terminals

PLUG

IP44/IP54

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
					Part No.	10/50	Part No.	10/40
2P+E	50Hz 60Hz	200-250V		6h	213.1633.K	10/50	213.3233.K	10/40
3P+E		380-415V			213.1636.K	10/50	213.3236.K	10/40
3P+N+E		208-250V		9h	213.1635.K	10/50	213.3235.K	10/40
		346-415V		6h	213.1637.K	10/50	213.3237.K	10/40

- Black-coloured

OPTIMA Series

213.





 Perforating terminals

PLUG

IP44/IP54

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A	
					Part No.	10/50
2P+E	50Hz 60Hz	200-250V		6h	213.1633P.K	10/50
3P+E		380-415V			213.1636P.K	10/50
3P+N+E		346-415V			213.1637P.K	10/50

- Black-coloured



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals





Terminals
Spring terminals (FAST WIRING)



Plugs and sockets for special applications

Events and exhibitions products



■ OPTIMA Series - IP44/IP54 versions >> Plugs / Inlets (black version)

					OPTIMA Series	
					213.	
						
					 Spring terminals	
					PLUG	
					IP44/IP54	
					CABLE GLAND	
					32A	
Poles	Hz	Volt	Colour	h		
2P+E		200-250V	■		213.3233F.K	10/40
3P+E	50Hz 60Hz	380-415V	■	6h	213.3236F.K	10/40
3P+N+E		346-415V	■		213.3237F.K	10/40
- Black-coloured						

					OPTIMA Series	
					243.	
						
					 Screw terminals [Straight outlet]	
					APPLIANCE INLET	
					IP44/IP54	
					75x75mm	
Poles	Hz	Volt	Colour	h	16A	32A
2P+E		200-250V	■		243.1693.K	10/50
3P+E	50Hz 60Hz	380-415V	■	6h	243.1696.K	10/50
3P+N+E		346-415V	■		243.1697.K	10/40
- Black-coloured						

1.4



Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP44/IP54 versions >> Connectors (black version)

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OPTIMA Series

313.



Screw terminals

Current	Poles	Hz	Volt	Colour	h	CONNECTOR	CABLE GLAND
16A	2P+E	50Hz 60Hz	200-250V		6h	313.1643.K	10/50
	3P+E		380-415V		6h	313.1646.K	10/50
	3P+N+E		208-250V		9h	313.1645.K	10/50
			346-415V		9h	313.1647.K	10/50
32A	2P+E	50Hz 60Hz	200-250V		6h	313.3243.K	10/40
	3P+E		380-415V		6h	313.3246.K	10/40
	3P+N+E		208-250V		9h	313.3245.K	10/40
			346-415V		6h	313.3247.K	10/40




- Black-coloured

OPTIMA Series

313.



Perforating terminals

Current	Poles	Hz	Volt	Colour	h	CONNECTOR	CABLE GLAND
16A	2P+E	50Hz 60Hz	200-250V		6h	313.1643P.K	10/50
	3P+E		380-415V			313.1646P.K	10/50
	3P+N+E		346-415V			313.1647P.K	10/50

- Black-coloured



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)

Plugs and sockets for special applications

Events and exhibitions products



■ OPTIMA Series - IP44/IP54 versions >> Connectors (black version)

OPTIMA Series

313.



Spring terminals

Current	Poles	Hz	Volt	Colour	h
32A	2P+E	50Hz 60Hz	200-250V		6h
	3P+E		380-415V		
	3P+N+E		346-415V		

- Black-coloured

CONNECTOR

IP44/IP54

CABLE GLAND

313.3243F.K 10/40

313.3246F.K 10/40

313.3247F.K 10/40

OPTIMA Series

313.



Screw terminals
[SAFE-IN]

Current	Poles	Hz	Volt	Colour	h
16A	2P+E	50Hz 60Hz	200-250V		6h
	3P+E		380-415V		
	3P+N+E		346-415V		

Sockets with "SAFE-IN" safety device

- Black-coloured

CONNECTOR

IP44/IP54

CABLE GLAND

313.1643H.K 10/50

313.1646H.K 10/50

313.1647H.K 10/50

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Plugs and sockets for special applications

Events and exhibitions products

OPTIMA Series - IP44/IP54 versions >> Flush mounting socket outlets (black version)

OPTIMA Series







413.



 **Screw terminals**
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

Current	Poles	Hz	Volt	Colour	h	70x87mm		84x106mm	
						Model	Rating	Model	Rating
16A	2P+E	50Hz 60Hz	200-250V		6h	413.1663.K	10/100		
	3P+E		380-415V			413.1666.K	10/100		
	3P+N+E		346-415V			413.1667.K	10/100		
32A	2P+E	50Hz 60Hz	200-250V		6h			413.3263.K	10/50
	3P+E		380-415V					413.3266.K	10/50
	3P+N+E		346-415V					413.3267.K	10/50

- Black-coloured



APPLICATION EXAMPLE



Terminals
Screw terminals

Plugs and sockets for special applications

Events and exhibitions products



■ OPTIMA Series - IP44/IP54 versions >> Flush mounting socket outlets (black version)

OPTIMA Series

413.





 **Screw terminals
[Angled outlet]
[SAFE-IN]**

FLUSH-MOUNTING SOCKET

IP44/IP54

70x87mm

Current	Poles	Hz	Volt	Colour	h		
16A	2P+E	50Hz 60Hz	200-250V		6h	413.1663H.K	10/100
	3P+E		380-415V			413.1666H.K	10/100
	3P+N+E		346-415V			413.1667H.K	10/100

 Sockets with "SAFE-IN" safety device

- Black-coloured



THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.

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Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP44/IP54 versions >> Flush mounting socket outlets (black version)

OPTIMA Series







413.



 **Spring terminals**
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

Current	Poles	Hz	Volt	Colour	h	70x87mm		84x106mm	
						Product Code	Quantity	Product Code	Quantity
16A	2P+E	50Hz 60Hz	200-250V		6h	413.1663F.K	10/100		
	3P+E		380-415V			413.1666F.K	10/100		
	3P+N+E		346-415V			413.1667F.K	10/100		
32A	2P+E	50Hz 60Hz	200-250V		6h			413.3263F.K	10/50
	3P+E		380-415V					413.3266F.K	10/50
	3P+N+E		346-415V					413.3267F.K	10/50

- Black-coloured

EUREKA Series

422.



 **Screw terminals**
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP44

Current	Poles	Hz	Volt	Colour	h	62x62mm	
						Product Code	Quantity
16A	2P+E	50Hz 60Hz	200-250V		6h	422.1663/R.K	10/100

- Black-coloured



Terminals
Spring terminals (FAST WIRING)



Terminals
Screw terminals

Plugs and sockets for special applications

Events and exhibitions products



■ OPTIMA Series - IP44/IP54 versions >> Flush mounting socket outlets (black version)

EUREKA Series

422.



Screw terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP44

75x75mm

Current	Poles	Hz	Volt	Colour	h		
16A	2P+E	50Hz 60Hz	200-250V		6h	422.1663.K	10/100
32A	3P+N+E		346-415V			422.3267.K	10/50

- Black-coloured

■ OPTIMA Series - IP66/IP67/IP69 versions >> Plugs / inlets (black version)

OPTIMA Series

218.



Screw terminals

PLUG

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	200-250V		6h	218.1633.K	10/40	218.3233.K	10/40
3P+E		380-415V			218.1636.K	10/40	218.3236.K	10/40
3P+N+E		346-415V			218.1637.K	10/40	218.3237.K	10/40

- Black-coloured

1.4



Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP66/IP67/IP69 versions >> Plugs / inlets (black version)

OPTIMA Series

218.





 **Perforating terminals**

PLUG

IP66/IP67/IP69

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	200-250V		6h	218.1633P.K	10/40
3P+E		380-415V			218.1636P.K	10/40
3P+N+E		346-415V			218.1637P.K	10/40

- Black-coloured

OPTIMA Series

218.





 **Spring terminals**

PLUG

IP66/IP67/IP69

CABLE GLAND

32A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	200-250V		6h	218.3233F.K	10/40
3P+E		380-415V			218.3236F.K	10/40
3P+N+E		346-415V			218.3237F.K	10/40

- Black-coloured



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Mantle terminals (EASY-PLUG)











Terminals
Screw terminals

Plugs and sockets for special applications






Events and exhibitions products



■ OPTIMA Series - IP66/IP67/IP69 versions >> Plugs / inlets (black version)

						OPTIMA Series	
						218.	
							
						 Mantle terminals	
						PLUG IP66/IP67/IP69 CABLE GLAND	
Current	Poles	Hz	Volt	Colour	h		
63A	2P+E	50Hz 60Hz	200-250V		6h	218.6333.K	6/24
	3P+E		380-415V			218.6336.K	6/24
	3P+N+E		346-415V			218.6337.K	6/24
125A	2P+E	50Hz 60Hz	200-250V		6h	218.12533.K	1/8
	3P+E		380-415V			218.12536.K	1/8
	3P+N+E		346-415V			218.12537.K	1/8

- Black-coloured

						OPTIMA Series	
						248.	
							
						 Screw terminals	
						APPLIANCE INLET IP66/IP67/IP69 75x75mm	
Poles	Hz	Volt	Colour	h	16A	32A	
2P+E	50Hz 60Hz	200-250V		6h	248.1693.K	248.3293.K	10/50
3P+E		380-415V			248.1696.K	248.3296.K	10/50
3P+N+E		346-415V			248.1697.K	248.3297.K	10/40

- Black-coloured



Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP66/IP67/IP69 versions >> Plugs / inlets (black version)

OPTIMA Series


248.



 **Mantle terminals**
[Straight outlet]

APPLIANCE INLET

IP66/IP67/IP69

Current	Poles	Hz	Volt	Colour	h	100x110mm	114x114mm
63A	3P+N+E	50Hz 60Hz	346-415V		6h	248.6397.K	10
125A						248.12597.K	10

- Black-coloured







■ OPTIMA Series - IP66/IP67/IP69 versions >> Connectors (black version)

OPTIMA Series

318.



 **Screw terminals**

Current	Poles	Hz	Volt	Colour	h	CONNECTOR	CABLE GLAND
16A	2P+E	50Hz 60Hz	200-250V		6h	318.1643.K	10/40
	3P+E		380-415V			318.1646.K	10/40
	3P+N+E		346-415V			318.1647.K	10/40
32A	2P+E	50Hz 60Hz	200-250V		6h	318.3243.K	10/40
	3P+E		380-415V			318.3246.K	10/40
	3P+N+E		346-415V			318.3247.K	10/40

- Black-coloured



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)





Terminals
Perforating terminals (FAST WIRING)



Plugs and sockets for special applications

Events and exhibitions products



■ OPTIMA Series - IP66/IP67/IP69 versions >> Connectors (black version)

						OPTIMA Series	
						318.	
							
						 Perforating terminals	
						CONNECTOR	
						IP66/IP67/IP69	
						CABLE GLAND	
Current	Poles	Hz	Volt	Colour	h		
16A	2P+E	50Hz 60Hz	200-250V		6h	318.1643P.K	10/40
	3P+E		380-415V			318.1646P.K	10/40
	3P+N+E		346-415V			318.1647P.K	10/40
- Black-coloured							

						OPTIMA Series	
						318.	
							
						 Spring terminals	
						CONNECTOR	
						IP66/IP67/IP69	
						CABLE GLAND	
Current	Poles	Hz	Volt	Colour	h		
32A	2P+E	50Hz 60Hz	200-250V		6h	318.3243F.K	10/40
	3P+E		380-415V			318.3246F.K	10/40
	3P+N+E		346-415V			318.3247F.K	10/40
- Black-coloured							

1.4

Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP66/IP67/IP69 versions >> Connectors (black version)

1

INDUSTRY

2

3







4

OPTIMA Series

318.



Mantle terminals

						CONNECTOR	
						IP66/IP67/IP69	
						CABLE GLAND	
Current	Poles	Hz	Volt	Colour	h		
63A	2P+E	50Hz 60Hz	200-250V		6h	318.6343.K	6/24
	3P+E		380-415V			318.6346.K	6/24
	3P+N+E		346-415V			318.6347.K	6/24
125A	2P+E	50Hz 60Hz	200-250V		6h	318.12543.K	1/8
	3P+E		380-415V			318.12546.K	1/8
	3P+N+E		346-415V			318.12547.K	1/8




- Black-coloured

OPTIMA Series

318.



Screw terminals [SAFE-IN]

						CONNECTOR	
						IP66/IP67/IP69	
						CABLE GLAND	
Current	Poles	Hz	Volt	Colour	h		
16A	2P+E	50Hz 60Hz	200-250V		6h	318.1643H.K	10/40
	3P+E		380-415V			318.1646H.K	10/40
	3P+N+E		346-415V			318.1647H.K	10/40

 Sockets with "SAFE-IN" safety device

- Black-coloured



Terminals
Mantle terminals (EASY-PLUG)











Terminals
Screw terminals




Plugs and sockets for special applications
Events and exhibitions products



OPTIMA Series - IP66/IP67/IP69 versions >> Flush mounting socket outlets (black version)

							OPTIMA Series	
							418.	
								
							 Screw terminals [Angled outlet]	
							FLUSH-MOUNTING SOCKET	
							IP66/IP67/IP69	
							70x87mm	84x106mm
Current	Poles	Hz	Volt	Colour	h			
16A	2P+E	50Hz 60Hz	200-250V		6h	418.1663.K	10/100	
	3P+E		380-415V			418.1666.K	10/100	
	3P+N+E		346-415V			418.1667.K	10/100	
32A	2P+E	50Hz 60Hz	200-250V		6h		418.3263.K	10/50
	3P+E		380-415V				418.3266.K	10/50
	3P+N+E		346-415V				418.3267.K	10/50

- Black-coloured

							OPTIMA Series	
							418.	
								
							 Mantle terminals [Angled outlet]	
							FLUSH-MOUNTING SOCKET	
							IP66/IP67/IP69	
							100x110mm	
Current	Poles	Hz	Volt	Colour	h			
63A	3P+N+E	50Hz 60Hz	346-415V		6h	418.6367.K	6/30	

- Black-coloured

1.4

Plugs and sockets for special applications

Events and exhibitions products

■ OPTIMA Series - IP66/IP67/IP69 versions >> Flush mounting socket outlets (black version)

1
INDUSTRY

OPTIMA Series

418.





 **Screw terminals**
[Angled outlet]
[SAFE-IN]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

70x87mm

Current	Poles	Hz	Volt	Colour	h		
16A	2P+E	50Hz 60Hz	200-250V		6h	418.1663H.K	10/100
	3P+E		380-415V			418.1666H.K	10/100
	3P+N+E		346-415V			418.1667H.K	10/100

 Sockets with "SAFE-IN" safety device

- Black-coloured

OPTIMA Series

418.







 **Spring terminals**
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

70x87mm

84x106mm

Current	Poles	Hz	Volt	Colour	h		
16A	2P+E	50Hz 60Hz	200-250V		6h	418.1663F.K	10/100
	3P+E		380-415V			418.1666F.K	10/100
	3P+N+E		346-415V			418.1667F.K	10/100
32A	2P+E	50Hz 60Hz	200-250V		6h	418.3263F.K	10/50
	3P+E		380-415V			418.3266F.K	10/50
	3P+N+E		346-415V			418.3267F.K	10/50

- Black-coloured



Terminals
Spring terminals (FAST WIRING)



Terminals
Screw terminals



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A

Plugs and sockets for special applications

Events and exhibitions products



■ ADAPTO Series - One-way adaptors

						ADAPTO Series	
						610.	
						With IEC 309 industrial plug	
						ONE-WAY ADAPTOR	
						IP20	
Supply	Current	Poles	Volt	Sockets		Notes	
				16A			
				2P+E			
Appliance inlet IEC309 16A	16A	2P+E	250V	1	2	2 BIV.+1 P30	610.388.N 10/100
				1	1	ITALIAN P17/11 BIV.	610.380.N 10/100

- For temporary use only
- Black-coloured

						ADAPTO Series	
						610.	
						With domestic plug	
						ONE-WAY ADAPTOR	
						IP20	
Supply	Current	Poles	Volt	Sockets		Notes	
				16A			
				2P+E			
Appliance inlet 16A IT Std	16A	2P+E	250V	1	1	ITALIAN S17	610.384.N 10/100

- For temporary use only
- Black-coloured

1.4



Plugs and sockets for special applications

Industrial plugs and sockets for military use

EUREKA-MIL Series

EUREKA - MIL Series

1

INDUSTRY

215.

216.



Plugs

Current	Poles	Hz	Volt	Colour	h	PLUG	
						CABLE GLAND	
16A	2P+E	50/60Hz	200-250V		6h	215.86333	
	3P+E		380-415V			215.86336	1
	3P+N+E		346-415V			215.86337	1
32A	2P+E	50/60Hz	200-250V		6h	215.83233	
	3P+E		380-415V			215.83236	1/5
	3P+N+E		346-415V			215.83237	1/5
63A	2P+E	50/60Hz	200-250V		6h	215.812533	
	3P+E		380-415V			215.812536	1
	3P+N+E		346-415V			215.812537	1
125A	2P+E	50/60Hz	200-250V		6h	215.812533	
	3P+E		380-415V			215.812536	1
	3P+N+E		346-415V			215.812537	1

- Green-coloured



Terminals
Screw terminals

Plugs and sockets for special applications

Industrial plugs and sockets for military use



EUREKA-MIL Series

EUREKA - MIL Series

247.



Appliance inlets
[Straight outlet]

APPLIANCE INLET

IP67

Current	Poles	Hz	Volt	Colour	h	120x120mm		145x145mm	
						Part No.	Part No.	Part No.	Part No.
16A	2P+E	50/60Hz	200-250V	Blue	6h	247.81693	1/5		
	3P+E		380-415V	Red		247.81696			
	3P+N+E		346-415V			247.81697	1/5		
32A	2P+E	50/60Hz	200-250V	Blue	6h	247.83293	1/5		
	3P+E		380-415V	Red		247.83296			
	3P+N+E		346-415V			247.83297	1/5		
63A	2P+E	50/60Hz	200-250V	Blue	6h	247.86393			
	3P+E		380-415V	Red		247.86396			
	3P+N+E		346-415V			247.86397	1		
125A	2P+E	50/60Hz	200-250V	Blue	6h			247.812593	
	3P+E		380-415V	Red				247.812596	
	3P+N+E		346-415V					247.812597	

- Green-coloured



APPLICATION EXAMPLE



Plugs and sockets for special applications

Industrial plugs and sockets for military use

EUREKA-MIL Series

EUREKA - MIL Series

315.

316.











 **Straight connectors**

CONNECTOR

IP67

CABLE GLAND

Current	Poles	Hz	Volt	Colour	h	CONNECTOR	CABLE GLAND
16A	2P+E	50/60Hz	200-250V		6h		
	3P+E		380-415V				316.81643 1/5
	3P+N+E		346-415V			316.81646	
32A	2P+E		200-250V				316.83243 1/5
	3P+E		380-415V				316.83246
	3P+N+E		346-415V			316.83247 1/5	
63A	2P+E		200-250V				315.86343 1
	3P+E		380-415V				315.86346
	3P+N+E		346-415V			315.86347 1	
125A	2P+E	200-250V			315.812543		
	3P+E	380-415V			315.812546 1		
	3P+N+E	346-415V		315.812547			

- Green-coloured



Terminals
Screw terminals

Plugs and sockets for special applications

Industrial plugs and sockets for military use



EUREKA-MIL Series

EUREKA - MIL Series

427.



Panel mounting sockets outlets [Straight outlet]

FLUSH-MOUNTING SOCKET

IP67

Current	Poles	Hz	Volt	Colour	h	FLUSH-MOUNTING SOCKET		
						100x100mm	120x120mm	145x145mm
16A	2P+E	50/60Hz	200-250V		6h	427.81663	1/5	
	3P+E		380-415V			427.81666		
	3P+N+E		346-415V			427.81667	1/5	
32A	2P+E	50/60Hz	200-250V		6h	427.83263	1/5	
	3P+E		380-415V			427.83266		
	3P+N+E		346-415V			427.83267	1/5	
63A	2P+E	50/60Hz	200-250V		6h		427.86363	
	3P+E		380-415V				427.86366	
	3P+N+E		346-415V				427.86367	1
125A	2P+E	50/60Hz	200-250V		6h			427.812563
	3P+E		380-415V					427.812566
	3P+N+E		346-415V					427.812567

- Green-coloured

1.4



Plugs and sockets for special applications

Industrial plugs and sockets for military use

EUREKA-MIL Series

ACCESSORIES

570.



1
INDUSTRY

Description	Current	Poles	Cover for IP67 plugs
PLUG CAP	16A 20A	2P+E	570.80163 10/100
		3P+E	570.80164 10/100
		3P+N+E	570.80165 10/100
	30A 32A	2/3P+E	570.80325 10/100
			570.80324 10/100
	60A 63A	ALL	570.8063 10
100A 125A		570.8125 10	

- Green-coloured



SNAP-ON DEVICE

Snap-action opening and closing

A patented "SNAP-ON" device provides snap-action opening and closing of EUREKA Series plugs and sockets. The "SNAP-ON" device significantly cuts down on wiring time: it opens by pressing down on the spring with a tool and closes simply by twisting the grip or the insert.



2P+E 16A



3P+E 16A



3P+N+E 16A

Plugs and sockets for special applications

Industrial plugs and sockets for military use



EUREKA-MIL Series

ADAPTO Series

603.



Sockets

Adaptors

Current	Poles	Volt	16A			MULTI-WAY ADAPTOR	
			2P+E	3P+E	3P+N+E	IP66	Terminal block 16mm ²
16A	2P+E	230V	3			603.83505-062	1/10
	3P+E			3		603.83505-063	
	3P+N+E	400V	2	1		603.83505-059	
			2		1	603.83505-061	1/10
					3	603.83505-064	

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.
- Green-coloured

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

■ Series I [International] - IP44 splashproof

EUREKA[PIN&SLEEVE] Series

SCM.



 **Plugs IP44**

 **Appliance inlets IP44 [Straight outlet]**









PLUG

APPLIANCE INLET

IP44

120x120mm

CABLE SLEEVE

Current	Poles	Hz	Volt	Colour	h	CABLE SLEEVE			
16A	2P 3W	50/60Hz	100-130V		4h	SCM316P4S	1/5	SCM316B4S	1/5
			200-250V		6h	SCM316P6S	1/5	SCM316B6S	1/5
	3P 4W		380-415V		6h	SCM416P6S	1/5	SCM416B6S	1/5
	4P 5W		346-415V		6h	SCM516P6S	1/5		
32A	2P 3W	50/60Hz	100-130V		4h	SCM332P4S	1/5		
			200-250V		6h	SCM332P6S	1/5	SCM332B6S	1/5
	3P 4W		380-415V		3h	SCM432P6S	1/5	SCM432B6S	1/5
	4P 5W		380V 50Hz / 440V 60Hz 346-415V		6h	SCM532P6S	1/5	SCM532B6S	1/5

- UL classified



INTERNATIONAL RATINGS
Products certified by UL laboratories according to standards IEC60309-1 and IEC60309-2



Terminals
Screw terminals

Plugs and sockets for special applications

Plugs and sockets UL/CSA



EUREKA[PIN&SLEEVE] Series

SCM.



Straight connectors IP44



Panel mounting sockets outlets IP44 [Straight outlet]

CONNECTOR		RECEPTACLE	
		IP44	
		100x100mm	
CABLE SLEEVE			
SCM316C4S	1/5	SCM316R4S	1/5
SCM316C6S	1/5	SCM316R6S	1/5
SCM416C6S	1/5	SCM416R6S	1/5
SCM516C6S	1/5	SCM516R6S	1/5
SCM332C4S	1/5	SCM332R4S	1/5
SCM332C6S	1/5	SCM332R6S	1/5
SCM432C6S	1/5	SCM432R6S	1/5
SCM532C6S	1/5	SCM432R3S	1/5
		SCM532R6S	1/5

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

■ Series I [International] - IP67 watertight

EUREKA[PIN&SLEEVE] Series

SCM.



Plugs IP67

Appliance inlets IP67 [Straight outlet]

PLUG

APPLIANCE INLET

IP67

120x120mm

CABLE GLAND

Current	Poles	Hz	Volt	Colour	h	CABLE GLAND			
16A	2P 3W	50/60Hz	100-130V		4h	SCM316P4W	1/5	SCM316B4W	1/5
			200-250V		6h	SCM316P6W	1/5	SCM316B6W	1/5
	3P 4W		380-415V		6h	SCM416P6W	1/5	SCM416B6W	1/5
	4P 5W		346-415V		6h	SCM516P6W	1/5	SCM516B6W	1/5
32A	2P 3W	50/60Hz	100-130V		4h	SCM332P4W	1/5	SCM332B4W	1/5
			200-250V		6h	SCM332P6W	1/5	SCM332B6W	1/5
	380-415V			6h	SCM432P6W	1/5	SCM432B6W	1/5	
	3P 4W		380V 50Hz / 440V 60Hz		3h	SCM432P3W	1/5		
	4P 5W		600-690V		5h	SCM432P5W	1/5		
63A	380V 50Hz / 440V 60Hz		3h						
	4P 5W	346-415V		6h	SCM532P6W	1/5	SCM532B6W	1/5	
	2P 3W	200-250V		6h	SCM363P6W	1	SCM363B6W	1	
	3P 4W	380-415V		6h	SCM463P6W	1	SCM463B6W	1	
	4P 5W	600-690V		5h	SCM463P5W				
125A	4P 5W	346-415V		6h	SCM563P6W	1	SCM563B6W	1	
	2P 3W	200-250V		6h	SCM3125P6W	1			
	3P 4W	380-415V		6h	SCM4125P6W	1			
	4P 5W	346-415V		6h	SCM5125P6W	1			

- UL classified



INTERNATIONAL RATINGS

Products certified by UL laboratories according to standards IEC60309-1 and IEC60309-2



Terminals
Screw terminals

Plugs and sockets for special applications

Plugs and sockets UL/CSA



EUREKA[PIN&SLEEVE] Series

SCM.



Appliance inlets
IP67 [Straight
outlet]

Straight
connectors IP67

Panel mounting
sockets outlets
IP67 [Straight
outlet]

APPLIANCE INLET		CONNECTOR		RECEPTACLE		
145x145mm		CABLE GLAND		IP67		
				100x100mm	120x120mm	145x145mm
		SCM316C4W	1/5	SCM316R4W	1/5	
		SCM316C6W	1/5	SCM316R6W	1/5	
		SCM416C6W	1/5	SCM416R6W	1/5	
		SCM516C6W	1/5	SCM516R6W	1/5	
		SCM332C4W	1/5	SCM332R4W	1/5	
		SCM332C6W	1/5	SCM332R6W	1/5	
		SCM432C6W	1/5	SCM432R6W	1/5	
		SCM432C3W	1/5			
				SCM432R5W		
				SCM432R3W	1/5	
		SCM532C6W	1/5	SCM532R6W	1/5	
		SCM363C6W	1		SCM363R6W	1
		SCM463C6W	1		SCM463R6W	1
					SCM463R5W	
		SCM563C6W	1		SCM563R6W	1
SCM3125B6W	1	SCM3125C6W	1			SCM3125R6W
SCM4125B6W	1	SCM4125C6W	1			SCM4125R6W
SCM5125B6W	1	SCM5125C6W	1			SCM5125R6W

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

■ Series II [North America] - IP44 splashproof [20A-30A]

EUREKA[PIN&SLEEVE] Series

SCM.

1
INDUSTRY



Straight plugs IP44

Appliance inlets IP44 [Straight outlet]

Poles	Volt	Colour	h	CABLE SLEEVE		APPLIANCE INLET	
				20A	30A	20A	30A
2P 3W	125V		4h	SCM320P4S 1/5	SCM330P4S 1/5	SCM320B4S 1/5	SCM330B4S 1/5
	250V		6h	SCM320P6S ^{[1][2]} 1/5	SCM330P6S ^{[1][2]} 1/5	SCM320B6S ^[1] 1/5	SCM330B6S ^[1] 1/5
	277V		5h	SCM320P5S 1/5		SCM320B5S 1/5	
	480V		7h	SCM320P7S 1/5	SCM330P7S 1/5	SCM320B7S 1/5	SCM330B7S 1/5
	550VDC		8h		SCM330P8S 1/5		SCM330B8S 1/5
3P 4W	125/250V		12h	SCM420P12S 1/5	SCM430P12S 1/5	SCM420B12S 1/5	SCM430B12S 1/5
	3Ø250V		9h	SCM420P9S ^[1] 1/5	SCM430P9S ^[1] 1/5	SCM420B9S 1/5	SCM430B9S 1/5
	380-415V		6h	SCM420P6S ^{[1][2]} 1/5	SCM430P6S ^{[1][2]} 1/5	SCM420B6S ^[1] 1/5	SCM430B6S ^[1] 1/5
	3Ø480V		7h	SCM420P7S 1/5	SCM430P7S 1/5	SCM420B7S 1/5	SCM430B7S 1/5
	3Ø600V		5h	SCM420P5S 1/5	SCM430P5S 1/5	SCM420B5S 1/5	SCM430B5S 1/5
4P 5W	3ØY120/208V		9h	SCM520P9S ^[1] 1/5	SCM530P9S ^[1] 1/5	SCM520B9S 1/5	SCM530B9S 1/5
	200/346V 240/415V		6h	SCM520P6S ^{[1][2]} 1/5	SCM530P6S ^{[1][2]} 1/5	SCM520B6S ^[1] 1/5	SCM530B6S ^[1] 1/5
	3ØY347/600V		5h	SCM520P5S 1/5	SCM530P5S 1/5	SCM520B5S 1/5	SCM530B5S 1/5
	480V		7h	SCM520P7S 1/5	SCM530P7S 1/5	SCM520B7S 1/5	SCM530B7S 1/5

[1] Dual ratings - Products with dual classification: Series I (International) and Series II (North America)

[2] Products with dual certifications: UL listed (North America) and ENEC (International)

- UL listed



Terminals
Screw terminals

Plugs and sockets for special applications

Plugs and sockets UL/CSA



EUREKA[PIN&SLEEVE] Series

SCM.



Straight connectors IP44



Panel mounting sockets outlets IP44 [Straight outlet]

CONNECTOR				RECEPTACLE			
CABLE SLEEVE				100x100mm			
20A		30A		20A		30A	
SCM320C4S	1/5	SCM330C4S	1/5	SCM320R4S	1/5	SCM330R4S	1/5
SCM320C6S ^{[1][2]}	1/5	SCM330C6S ^{[1][2]}	1/5	SCM320R6S ^[1]	1/5	SCM330R6S ^[1]	1/5
SCM320C5S	1/5			SCM320R5S	1/5		
SCM320C7S		SCM330C7S	1/5	SCM320R7S		SCM330R7S	
		SCM330C8S	1			SCM330R8S	1/5
SCM420C12S	1/5	SCM430C12S	1/5	SCM420R12S	1/5	SCM430R12S	1/5
SCM420C9S ^[1]	1/5	SCM430C9S ^[1]	1/5	SCM420R9S	1/5	SCM430R9S	1/5
SCM420C6S ^{[1][2]}	1/5	SCM430C6S ^{[1][2]}	1/5	SCM420R6S ^[1]	1/5	SCM430R6S ^[1]	1/5
SCM420C7S	1/5	SCM430C7S		SCM420R7S	1/5	SCM430R7S	1/5
SCM420C5S	1/5	SCM430C5S	1/5	SCM420R5S	1/5	SCM430R5S	1/5
SCM520C9S ^[1]	1	SCM530C9S ^[1]	1/5	SCM520R9S	1/5	SCM530R9S	1/5
SCM520C6S ^{[1][2]}	1/5	SCM530C6S ^{[1][2]}	1/5	SCM520R6S ^[1]	1/5	SCM530R6S ^[1]	1/5
SCM520C5S	1/5	SCM530C5S		SCM520R5S	1/5	SCM530R5S	
SCM520C7S	1/5	SCM530C7S	1/5	SCM520R7S	1/5	SCM530R7S	1/5

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

■ Series II [North America] - IP67 watertight [20A-30A]

EUREKA[PIN&SLEEVE] Series

SCM.

1
INDUSTRY



Straight plugs IP67

Appliance inlets IP67 [Straight outlet]

PLUG

APPLIANCE INLET

IP67

120x120mm

CABLE GLAND

Poles	Volt	Colour	h	20A		30A		20A		30A	
				Model	1/5	Model	1/5	Model	1/5	Model	1/5
2P 3W	125V	Yellow	4h	SCM320P4W	1/5	SCM330P4W	1/5	SCM320B4W	1/5	SCM330B4W	1/5
	250V	Blue	6h	SCM320P6W ^{[1][2]}	1/5	SCM330P6W ^{[1][2]}	1/5	SCM320B6W ^[1]	1/5	SCM330B6W ^[1]	1/5
	277V	Grey	5h	SCM320P5W	1/5			SCM320B5W	1/5		
	480V	Red	7h	SCM320P7W	1/5	SCM330P7W	1/5	SCM320B7W	1/5	SCM330B7W	1/5
	550VDC	Black	8h			SCM330P8W	1/5			SCM330B8W	1/5
3P 4W	125/250V	Orange	12h	SCM420P12W	1/5	SCM430P12W	1/5	SCM420B12W	1/5	SCM430B12W	1/5
	3Ø250V	Blue	9h	SCM420P9W ^[1]	1/5	SCM430P9W ^[1]	1/5	SCM420B9W	1/5	SCM430B9W	1/5
	380-415V	Red	6h	SCM420P6W ^{[1][2]}	1/5	SCM430P6W ^{[1][2]}	1/5	SCM420B6W ^[1]	1/5	SCM430B6W ^[1]	1/5
	3Ø480V	Red	7h	SCM420P7W	1/5	SCM430P7W	1/5	SCM420B7W	1/5	SCM430B7W	1/5
	3Ø600V	Black	5h	SCM420P5W	1/5	SCM430P5W	1/5	SCM420B5W	1/5	SCM430B5W	1/5
4P 5W	3ØY120/208V	Blue	9h	SCM520P9W ^[1]	1/5	SCM530P9W ^[1]	1/5	SCM520B9W	1/5	SCM530B9W	1/5
	200/346V 240/415V	Red	6h	SCM520P6W ^{[1][2]}	1/5	SCM530P6W ^{[1][2]}	1/5	SCM520B6W ^[1]	1/5	SCM530B6W ^[1]	1/5
	3ØY347/600V	Black	5h	SCM520P5W	1/5	SCM530P5W	1/5	SCM520B5W		SCM530B5W	
	480V	Red	7h	SCM520P7W	1/5	SCM530P7W	1/5	SCM520B7W	1/5	SCM530B7W	1/5

[1] Dual ratings - Products with dual classification: Series I (International) and Series II (North America)

[2] Products with dual certifications: UL listed (North America) and ENEC (International)

- UL listed



Terminals
Screw terminals

Plugs and sockets for special applications

Plugs and sockets UL/CSA



EUREKA[PIN&SLEEVE] Series

SCM.



Straight connectors IP67



Panel mounting sockets outlets IP67 [Straight outlet]

CONNECTOR				RECEPTACLE			
CABLE GLAND				100x100mm			
20A		30A		20A		30A	
SCM320C4W	1/5	SCM330C4W	1/5	SCM320R4W	1/5	SCM330R4W	1/5
SCM320C6W ^{[1][2]}	1/5	SCM330C6W ^{[1][2]}	1/5	SCM320R6W ^[1]	1/5	SCM330R6W ^[1]	1/5
SCM320C5W	1/5			SCM320R5W	1/5		
SCM320C7W	1/5	SCM330C7W	1/5	SCM320R7W	1/5	SCM330R7W	1/5
		SCM330C8W	1			SCM330R8W	1/5
SCM420C12W	1/5	SCM430C12W	1/5	SCM420R12W	1/5	SCM430R12W	1/5
SCM420C9W ^[1]	1/5	SCM430C9W ^[1]	1/5	SCM420R9W	1/5	SCM430R9W	1/5
SCM420C6W ^{[1][2]}	1/5	SCM430C6W ^{[1][2]}	1/5	SCM420R6W ^[1]	1/5	SCM430R6W ^[1]	1/5
SCM420C7W	1/5	SCM430C7W	1/5	SCM420R7W	1/5	SCM430R7W	1/5
SCM420C5W	1/5	SCM430C5W	1/5	SCM420R5W	1/5	SCM430R5W	1/5
SCM520C9W ^[1]	1/5	SCM530C9W ^[1]	1/5	SCM520R9W	1/5	SCM530R9W	1/5
SCM520C6W ^{[1][2]}	1/5	SCM530C6W ^{[1][2]}	1/5	SCM520R6W ^[1]	1/5	SCM530R6W ^[1]	1/5
SCM520C5W	1/5	SCM530C5W	1/5	SCM520R5W	1/5	SCM530R5W	1/5
SCM520C7W	1/5	SCM530C7W	1/5	SCM520R7W	1/5	SCM530R7W	1/5

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

■ Series II [North America] - IP67 watertight [60A-100A]

EUREKA[PIN&SLEEVE] Series

SCM.



Straight plugs IP67

Appliance inlets IP67 [Straight outlet]

		PLUG		APPLIANCE INLET	
		IP67			
		120x120mm		145x145mm	
		CABLE GLAND			
		60A		100A	
Poles	Volt	Colour	h	60A	100A
	>50-250V	Grey	3h	SCM360P3W 1	SCM360B3W 1
	125V	Yellow	4h	SCM360P4W 1	SCM360B4W 1
2P 3W	250V	Blue	6h	SCM360P6W ^{[1][2]} 1	SCM360B6W ^[1] 1
	277V	Grey	5h	SCM360P5W 1	SCM360B5W 1
	480V	Red	7h	SCM360P7W 1	SCM360B7W 1
	550VDC	Black	8h	SCM360P8W 1	SCM360B8W 1
	125/250V	Orange	12h	SCM460P12W 1	SCM460B12W 1
3P 4W	3Ø250V	Blue	9h	SCM460P9W ^[1] 1	SCM460B9W 1
	380-415V	Green	6h	SCM460P6W ^{[1][2]} 1/6	SCM460B6W ^[1] 1/10
	3Ø480V	Red	7h	SCM460P7W 1	SCM460B7W 1
	3Ø600V	Black	5h	SCM460P5W 1	SCM460B5W 1
	3ØY120/208V	Blue	9h	SCM560P9W ^[1] 1	SCM560B9W 1
4P 5W	200/346V 240/415V	Red	6h	SCM560P6W ^{[1][2]} 1/6	SCM560B6W ^[1] 1/10
	3ØY347/600V	Black	5h	SCM560P5W 1	SCM560B5W 1
	400VDC	Black	8h	SCM560P8W 1	SCM560B8W 1
	480V	Red	7h	SCM560P7W 1	SCM560B7W 1

[1] Dual ratings - Products with dual classification: Series I (International) and Series II (North America)

[2] Products with dual certifications: UL listed (North America) and ENEC (International)

- UL listed



NORTH AMERICAN RATINGS

Products certified by UL laboratories according to standards UL1682 and UL1686



ENEC certified

Products with dual certifications: UL listed (North America) and ENEC (International)



Terminals
Screw terminals

Plugs and sockets for special applications

Plugs and sockets UL/CSA



EUREKA[PIN&SLEEVE] Series

SCM.



Straight connectors IP67



Panel mounting sockets outlets IP67 [Straight outlet]

CONNECTOR				RECEPTACLE			
IP67				120x120mm		145x145mm	
CABLE GLAND							
60A		100A		60A		100A	
SCM360C3W	1			SCM360R3W	1		
SCM360C4W	1	SCM3100C4W		SCM360R4W	1	SCM3100R4W	
SCM360C6W ^{[1][2]}	1	SCM3100C6W ^[1]	1	SCM360R6W ^[1]	1	SCM3100R6W ^[1]	1
SCM360C5W	1	SCM3100C5W		SCM360R5W	1	SCM3100R5W	
SCM360C7W	1	SCM3100C7W		SCM360R7W	1	SCM3100R7W	
SCM360C8W	1	SCM3100C8W	1	SCM360R8W	1	SCM3100R8W	1
SCM460C12W	1	SCM4100C12W	1	SCM460R12W	1	SCM4100R12W	1
SCM460C9W ^[1]	1	SCM4100C9W ^[1]	1	SCM460R9W	1	SCM4100R9W	1
SCM460C6W ^{[1][2]}	1	SCM4100C6W ^[1]	1/6	SCM460R6W ^[1]	1/10	SCM4100R6W ^[1]	1/10
SCM460C7W	1	SCM4100C7W	1	SCM460R7W	1	SCM4100R7W	1
SCM460C5W	1	SCM4100C5W	1	SCM460R5W	1	SCM4100R5W	1
SCM560C9W ^[1]	1	SCM5100C9W ^[1]	1	SCM560R9W	1	SCM5100R9W	1
SCM560C6W ^{[1][2]}	1/6	SCM5100C6W ^[1]	1/6	SCM560R6W ^[1]	1/10	SCM5100R6W ^[1]	1/10
SCM560C5W	1	SCM5100C5W	1	SCM560R5W	1	SCM5100R5W	1
		SCM5100C8W	1			SCM5100R8W	1
SCM560C7W	1	SCM5100C7W	1	SCM560R7W	1	SCM5100R7W	1

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

Accessories

EUREKA[PIN&SLEEVE] Series

SCM.



1

INDUSTRY

Description	IP	Version	Liquid tight adapters	
LIQUID TIGHT ADAPTER	IP67	20A 3-4 WIRE 1/2" NPT	SCMSAA12	5
		20A 5 WIRE 1/2" NPT	SCMSAB12	5
		30A 3-4 WIRE 3/4" NPT	SCMSAB34	5
		30A 5 WIRE 1" NPT	SCMSAC100	5
		60A 3-4-5 WIRE 1 1/4" NPT	SCMSAC125	5
		30A 5 WIRE 3/4" NPT	SCMSAC34	5
		100A 3-4-5 WIRE 1 1/4" NPT	SCMSAD125	5

- UL listed
- For attaching flexible liquidtight metal conduit to Scame EUREKA[PIN&SLEEVE] Series plugs and connectors

PIN & SLEEVE
Example of applications



Plugs and sockets for special applications

Plugs and sockets UL/CSA



■ Accessories

EUREKA[PIN&SLEEVE] Series

SCM.



Description	IP	Version	Non-metallic Back-Boxes	
BACK BOX	IP67	100x100mm - SMALL	SCMBB01	1/12
		120x120mm - MEDIUM	SCMBB02	1/12
		145x145mm - LARGE	SCMBB03	1/6

- For fixed plugs and sockets EUREKA Series [PIN&SLEEVE]
- UL listed

BACK-BOXES
Ground plate and ground terminals



1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

Accessories

ACCESSORIES

570.



1

INDUSTRY

Description	Current	Poles	Cover for IP66/IP67/IP69 plugs	
PLUG CAP	16A 20A	2P+E	570.90163	10/100
		3P+E	570.90164	10/100
	30A 32A	3P+N+E	570.90165	10/100
			570.90325	10/100
		2/3P+E	570.90324	10/100
	60A 63A	ALL	570.9063	10
	100A 125A		570.9125	10

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Plugs and sockets for special applications

Plugs and sockets UL/CSA



■ ADVANCE-GRP[HD] Series - Interlocked-switch socket outlets >> Without base IP66/67/69 - Type 12, 3R, 4, 4X - Watertight

ADVANCE-GRP[PIN&SLEEVE] Series

SCM.



Without fuse carrier

Current	Poles	Volt	Colour	h	INTERLOCKED SOCKET			
					IP66/IP67/IP69			
20A	2P 3W	125V		4h	SCM320MI4W-NB	1/6		
		250V		6h	SCM320MI6W-NB	1/6		
		480V		7h	SCM320MI7W-NB	1/6		
	3P 4W	125/250V		12h	SCM420MI12W-NB	1/6		
		3Ø250V		9h	SCM420MI9W-NB	1/6		
		3Ø480V		7h	SCM420MI7W-NB	1/6		
		3Ø600V		5h	SCM420MI5W-NB	1/6		
		3ØY120/208V		9h	SCM520MI9W-NB	1/6		
		3ØY347/600V		5h	SCM520MI5W-NB	1/6		
	4P 5W	480V		7h	SCM520MI7W-NB	1/6		
		30A	2P 3W	125V		4h	SCM330MI4W-NB	1/6
				250V		6h	SCM330MI6W-NB	1/6
480V				7h	SCM330MI7W-NB	1/6		
3P 4W	125/250V			12h	SCM430MI12W-NB	1/6		
	3Ø250V			9h	SCM430MI9W-NB	1/6		
	3Ø480V			7h	SCM430MI7W-NB	1/6		
	3Ø600V		5h	SCM430MI5W-NB	1/6			
4P 5W	3ØY120/208V		9h	SCM530MI9W-NB	1/6			
	3ØY347/600V		5h	SCM530MI5W-NB	1/6			
	480V		7h	SCM530MI7W-NB	1/6			
32A	3P 4W	380V 50Hz / 440V 60Hz		3h	SCM432MI3W-NB	1/6		
		250V		6h	SCM360MI6W-NB	1		
		480V		7h	SCM360MI7W-NB	1		
60A	3P 4W	3Ø250V		9h	SCM460MI9W-NB	1		
		3Ø600V		5h	SCM460MI5W-NB	1		
		3ØY120/208V		9h	SCM560MI9W-NB	1		
	4P 5W	3ØY347/600V		5h	SCM560MI5W-NB	1		
		480V		7h	SCM560MI7W-NB	1/1		

☼ With power indicating led

- UL listed
- To be matched with the respective bases
- Empty base: ADVANCE-GRP System (fam. 579)



NORTH AMERICAN RATINGS

Products certified by UL laboratories according to standards UL1682 and UL1686

1.4



Plugs and sockets for special applications

Plugs and sockets UL/CSA

■ **ADVANCE-GRP[HD] Series - Interlocked-switch socket outlets >> Surface mounting IP66/67/69 - Type 12K, 3R, 4, 4X - Watertight**

ADVANCE-GRP[PIN&SLEEVE] Series

SCM.



Without fuse carrier

Current	Poles	Volt	Colour	h	INTERLOCKED SOCKET		
					IP66/IP67/IP69		
20A	2P 3W	125V	Yellow	4h	SCM320MI4W	1/6	
		250V	Blue	6h	SCM320MI6W	1/6	
		480V	Red	7h	SCM320MI7W	1/6	
	3P 4W	125/250V	Orange	12h	SCM420MI12W	1/6	
		3Ø250V	Blue	9h	SCM420MI9W	1/6	
		3Ø480V	Red	7h	SCM420MI7W	1/6	
		3Ø600V	Black	5h	SCM420MI5W	1/6	
		3ØY120/208V	Blue	9h	SCM520MI9W	1/6	
		3ØY347/600V	Black	5h	SCM520MI5W	1/6	
	4P 5W	480V	Red	7h	SCM520MI7W	1/6	
	30A	2P 3W	125V	Yellow	4h	SCM330MI4W	1/6
			250V	Blue	6h	SCM330MI6W	1/6
480V			Red	7h	SCM330MI7W	1/6	
3P 4W		125/250V	Orange	12h	SCM430MI12W	1/6	
		3Ø250V	Blue	9h	SCM430MI9W	1/6	
		3Ø480V	Red	7h	SCM430MI7W	1/6	
		3Ø600V	Black	5h	SCM430MI5W	1/6	
		3ØY120/208V	Blue	9h	SCM530MI9W	1/6	
		3ØY347/600V	Black	5h	SCM530MI5W	1/6	
4P 5W		480V	Red	7h	SCM530MI7W	1/6	
32A		3P 4W	380V 50Hz / 440V 60Hz	Red	3h	SCM432MI3W	1/6
60A		2P 3W	250V	Blue	6h	SCM360MI6W	1
	480V		Red	7h	SCM360MI7W	1	
	3Ø250V		Blue	9h	SCM460MI9W	1	
	3P 4W	3Ø480V	Red	7h	SCM460MI7W	1	
		3Ø600V	Black	5h	SCM460MI5W	1	
		3ØY120/208V	Blue	9h	SCM560MI9W	1	
	4P 5W	3ØY347/600V	Black	5h	SCM560MI5W	1	
		480V	Red	7h	SCM560MI7W	1/1	

☼ With power indicating led

- UL listed

- Already supplied with simple single bottom

1
INDUSTRY

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4

Plugs and sockets for special applications

Plugs and sockets UL/CSA



■ ADVANCE-GRP[HD] Series - Interlocked-switch socket outlets >> Surface mounting IP66/67/69 - Type 12K, 3R, 4, 4X - Watertight

ADVANCE-GRP[PIN&SLEEVE] Series

SCM.



Without fuse carrier -
With consumer units

Current	Poles	Volt	Colour	h	INTERLOCKED SOCKET		
					IP66/IP67/IP69		
20A	2P 3W	125V		4h	SCM320MI4W-C	1/6	
		250V		6h	SCM320MI6W-C	1/6	
		480V		7h	SCM320MI7W-C	1/6	
	3P 4W	125/250V		12h	SCM420MI12W-C	1/6	
		3Ø250V		9h	SCM420MI9W-C	1/6	
		3Ø480V		7h	SCM420MI7W-C	1/6	
		3Ø600V		5h	SCM420MI5W-C	1/6	
		4P 5W	3ØY120/208V		9h	SCM520MI9W-C	1/6
			3ØY347/600V		5h	SCM520MI5W-C	1/6
	30A	2P 3W	480V		7h	SCM520MI7W-C	1/6
			125V		4h	SCM330MI4W-C	1/6
			250V		6h	SCM330MI6W-C	1/6
3P 4W		480V		7h	SCM330MI7W-C	1/6	
		125/250V		12h	SCM430MI12W-C	1/6	
		3Ø250V		9h	SCM430MI9W-C	1/6	
		3Ø480V		7h	SCM430MI7W-C	1/6	
		3Ø600V		5h	SCM430MI5W-C	1/6	
		4P 5W	3ØY120/208V		9h	SCM530MI9W-C	1/6
3ØY347/600V				5h	SCM530MI5W-C	1/6	
32A		3P 4W	480V		7h	SCM530MI7W-C	1/6
			380V 50Hz / 440V 60Hz		3h	SCM432MI3W-C	1/6
	250V			6h	SCM360MI6W-C	1	
60A	2P 3W	480V		7h	SCM360MI7W-C	1	
		3Ø250V		9h	SCM460MI9W-C	1	
		3Ø480V		7h	SCM460MI7W-C	1	
	3P 4W	3Ø600V		5h	SCM460MI5W-C	1	
		3ØY120/208V		9h	SCM560MI9W-C	1	
		3ØY347/600V		5h	SCM560MI5W-C	1	
	4P 5W	480V		7h	SCM560MI7W-C	1	

☼ With power indicating led

- UL listed

- Already supplied with single bottom with control unit for installation of protective switches or other devices from DIN guide



NORTH AMERICAN RATINGS

Products certified by UL laboratories according to standards UL1682 and UL1686

1.4



Plugs and sockets for special applications

Seven poles plugs and sockets

■ OPTIMA-SEVEN Series - IP44 versions

OPTIMA-SEVEN Series

213.

240.



Plugs

Surface mounting
appliance inlets

PLUG

APPLIANCE INLET

IP44

M25X1,5

Current	Poles	Hz	Volt	Colour	h	OPTIMA-SEVEN Series			
16A	6P+E	50Hz 60Hz	380-415V	Red	6h	213.1637-7	10	240.1697-7 ¹ ₂	10
32A						213.3237-7	10	240.3297-7 ¹ ₂	10

¹ Open threaded cable entry

² Threaded cap/cable sleeve included

- Screw terminals

■ OPTIMA-SEVEN Series - IP66/IP67 versions

OPTIMA-SEVEN Series

218.

245.



Plugs

Surface mounting
appliance inlets

PLUG

APPLIANCE INLET

IP66/IP67

M25X1,5

Current	Poles	Hz	Volt	Colour	h	OPTIMA-SEVEN Series			
16A	6P+E	50Hz 60Hz	380-415V	Red	6h	218.1637-7	10	245.1697-7 ¹ ₂	5
32A						218.3237-7	10	245.3297-7 ¹ ₂	5

¹ Open threaded cable entry

² Threaded cap/cable sleeve included

- Screw terminals

1

INDUSTRY

2

3





4

Plugs and sockets for special applications





Seven poles plugs and sockets



OPTIMA-SEVEN Series

243.	313.	413.	512.
			
Flush mounting appliance inlets	Connectors	Flush mounting socket outlets	Surface mounting socket outlets
APPLIANCE INLET	CONNECTOR	FLUSH-MOUNTING SOCKET	SURFACE MOUNTING SOCKET
75x75mm	IP44	75x75mm	
	M25X1,5		M25X1,5
243.1697-7 10	313.1647-7 10	413.1667-7 10	512.1657-7 1 2 10
243.3297-7 10	313.3247-7 10	413.3267-7 10	512.3257-7 1 2 10

OPTIMA-SEVEN Series

248.	318.	418.	517.
			
Flush mounting appliance inlets	Connectors	Flush mounting socket outlets	Surface mounting socket outlets
APPLIANCE INLET	CONNECTOR	FLUSH-MOUNTING SOCKET	SURFACE MOUNTING SOCKET
75x75mm	IP66/IP67	75x75mm	
	M25X1,5		M25X1,5
248.1697-7 10	318.1647-7 10	418.1667-7 10	517.1657-7 1 2 5
248.3297-7 10	318.3247-7 10	418.3267-7 10	517.3257-7 1 2 5

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

■ ALUMINIUM versions [lever closing] >> HDAL250 Type - Max 250A - Up to 1.000V

OPTIMA-METAL Series

899.



Socket

IP	Current	Poles	Volt	Cable section	SOCKET	
IP67	250A	3P+E	1000V	50-70 mm ²	899.AL2DE350V ^[1]	1
				70 mm ²	899.AL2DE370 ^[2]	1
				95 mm ²	899.AL2DE395 ^[2]	1
		3P+N+E		50-70 mm ²	899.AL2DE450V ^[1]	1
				70 mm ²	899.AL2DE470 ^[2]	1

[1] Screw terminals

[2] Crimp terminals

OPTIMA-METAL Series

899.



Angled plug 60°

IP	Current	Poles	Volt	Cable section	PLUG	
IP67	250A	3P+E	1000V	50-70 mm ²	899.AL2PR350V ^[1]	1
				70 mm ²	899.AL2PR370 ^[2]	1
				95 mm ²	899.AL2PR395 ^[2]	1
		3P+N+E		50-70 mm ²	899.AL2PR450V ^[1]	1
				70 mm ²	899.AL2PR470 ^[2]	1

[1] Screw terminals

[2] Crimp terminals

1
INDUSTRY

2

3

4

Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



■ ALUMINIUM versions [lever closing] >> HDAL250 Type - Max 250A - Up to 1.000V

OPTIMA-METAL Series

899.



Connector

IP	Current	Poles	Volt	Cable section	CONNECTOR	
					Model	Terminals
IP67	250A	3P+E	1000V	50-70 mm ²	899.AL2CE350VS ^[1]	1
				70 mm ²	899.AL2CE370S ^[2]	1
				95 mm ²	899.AL2CE395S ^[2]	1
		3P+N+E		50-70 mm ²	899.AL2CE450VS ^[1]	1
				70 mm ²	899.AL2CE470S ^[2]	1

[1] Screw terminals

[2] Crimp terminals



APPLICATION EXAMPLE

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

■ ALUMINIUM versions [lever closing] >> HDAL500 Type - Max 570A - Up to 1.000V

OPTIMA-METAL Series

899.



Socket

IP	Current	Poles	Volt	Cable section	SOCKET	
					Part Number	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AL5DE395	1
		3P+N+E		120 mm ²	899.AL5DE412	1
				150 mm ²	899.AL5DE415	1
		370A		95 mm ²	899.AL5DE495	1
				120 mm ²	899.AL5DE312	1
	150 mm ²			899.AL5DE315	1	
	420A	3P+N+E		185 mm ²	899.AL5DE318	1
				150 mm ²	899.AL5DE415-16	1
	500A	185 mm ²		899.AL5DE418-16	1	
	570A	3P+E		240 mm ²	899.AL5DE324-18	1

- Crimp terminals

OPTIMA-METAL Series

899.



Angled plug 60°

IP	Current	Poles	Volt	Cable section	PLUG	
					Part Number	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AL5PR395	1
		3P+N+E		120 mm ²	899.AL5PR412	1
				150 mm ²	899.AL5PR415	1
		370A		95 mm ²	899.AL5PR495	1
				120 mm ²	899.AL5PR312	1
	150 mm ²			899.AL5PR315	1	
	420A	3P+N+E		185 mm ²	899.AL5PR318	1
				150 mm ²	899.AL5PR415-16	1
	500A	185 mm ²		899.AL5PR418-16	1	
	570A	3P+E		240 mm ²	899.AL5PR324-18	1

- Crimp terminals

1
INDUSTRY

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Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



ALUMINIUM versions [lever closing] >> HDAL500 Type - Max 570A - Up to 1.000V

OPTIMA-METAL Series

899.



Straight plug

IP	Current	Poles	Volt	Cable section	PLUG	
					Model	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AL5PR395S	1
		3P+N+E		120 mm ²	899.AL5PR412S	1
				150 mm ²	899.AL5PR415S	1
		370A		3P+E	95 mm ²	899.AL5PR495S
	120 mm ²				899.AL5PR312S	1
	420A	3P+E		150 mm ²	899.AL5PR315S	1
				185 mm ²	899.AL5PR318S	1
	500A	3P+N+E		150 mm ²	899.AL5PR415S-16	1
				185 mm ²	899.AL5PR418S-16	1
	570A	3P+E		240 mm ²	899.AL5PR324S-18	1

- Crimp terminals

OPTIMA-METAL Series

899.



Connector

IP	Current	Poles	Volt	Cable section	CONNECTOR	
					Model	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AL5CE395S	1
		3P+N+E		120 mm ²	899.AL5CE412S	1
				150 mm ²	899.AL5CE415S	1
		370A		3P+E	95 mm ²	899.AL5CE495S
	120 mm ²				899.AL5CE312S	1
	420A	3P+E		150 mm ²	899.AL5CE315S	1
				185 mm ²	899.AL5CE318S	1
	500A	3P+N+E		150 mm ²	899.AL5CE415S-16	1
				185 mm ²	899.AL5CE418S-16	1
	570A	3P+E		240 mm ²	899.AL5CE324S-18	1

- Crimp terminals

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

■ ALUMINIUM versions [lever closing] >> HDAL800 Type - Max 800A - Up to 1.000V

OPTIMA-METAL Series

899.



Socket

IP	Current	Poles	Volt	Cable section	SOCKET	
IP67	570A	3P+E	1000V	240 mm ²	899.AL8DF324	1
		3P+N+E			899.AL8DF424	1
	800A	3P+E		899.AL8DF330	1	
		3P+N+E		899.AL8DF430	1	

- Crimp terminals

OPTIMA-METAL Series

899.



Straight plug

IP	Current	Poles	Volt	Cable section	PLUG	
IP67	570A	3P+E	1000V	240 mm ²	899.AL8PM324S	1
		3P+N+E			899.AL8PM424S	1
	800A	3P+E		899.AL8PM330S	1	
		3P+N+E		899.AL8PM430S	1	

- Crimp terminals

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INDUSTRY

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Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



ALUMINIUM versions [lever closing] >> HDAL800 Type - Max 800A - Up to 1.000V

OPTIMA-METAL Series

899.



Connector

IP	Current	Poles	Volt	Cable section	CONNECTOR	
IP67	570A	3P+E	1000V	240 mm ²	899.AL8CF324S	1
		3P+N+E			899.AL8CF424S	1
	800A	3P+E		899.AL8CF330S	1	
		3P+N+E		899.AL8CF430S	1	

- Crimp terminals

ALUMINIUM versions [lever closing]

OPTIMA-METAL Series

899.



Description	Notes	IP	Accessories	
PLUG CAP	HDAL250	IP67	899.AL2PC	1
	HDAL500		899.AL5PC	1
	HDAL800		899.AL8PC	1

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

■ ALUMINIUM versions [screw closing] >> HDAS250 Type - Max 250A - Up to 1.000V

OPTIMA-METAL Series

899.



Socket

IP	Current	Poles	Volt	Cable section	SOCKET	
IP67	250A	3P+E	1000V	50-70 mm ²	899.AS2DE350V ^[1]	1
				70 mm ²	899.AS2DE370 ^[2]	1
				95 mm ²	899.AS2DE395 ^[2]	1
		3P+N+E		50-70 mm ²	899.AS2DE450V ^[1]	1
				70 mm ²	899.AS2DE470 ^[2]	1

[1] Screw terminals

[2] Crimp terminals

OPTIMA-METAL Series

899.



Straight plug

IP	Current	Poles	Volt	Cable section	PLUG	
IP67	250A	3P+E	1000V	50-70 mm ²	899.AS2PR350V ^[1]	1
				70 mm ²	899.AS2PR370 ^[2]	1
				95 mm ²	899.AS2PR395 ^[2]	1
		3P+N+E		50-70 mm ²	899.AS2PR450V ^[1]	1
				70 mm ²	899.AS2PR470 ^[2]	1

[1] Screw terminals

[2] Crimp terminals

1

INDUSTRY

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Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



ALUMINIUM versions [screw closing] >> HDAS250 Type - Max 250A - Up to 1.000V

OPTIMA-METAL Series

899.



Appliance inlet

IP	Current	Poles	Volt	Cable section	APPLIANCE INLET	
IP67	250A	3P+E	1000V	50-70 mm ²	899.AS2AR350V ¹	1
				70 mm ²	899.AS2AR370 ²	1
				95 mm ²	899.AS2AR395 ²	1
		3P+N+E		50-70 mm ²	899.AS2AR450V ¹	1
				70 mm ²	899.AS2AR470 ²	1

¹ Screw terminals

² Crimp terminals

OPTIMA-METAL Series

899.



Connector

IP	Current	Poles	Volt	Cable section	CONNECTOR	
IP67	250A	3P+E	1000V	50-70 mm ²	899.AS2CE350V ¹	1
				70 mm ²	899.AS2CE370 ²	1
				95 mm ²	899.AS2CE395 ²	1
		3P+N+E		50-70 mm ²	899.AS2CE450V ¹	1
				70 mm ²	899.AS2CE470 ²	1

¹ Screw terminals

² Crimp terminals

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

■ ALUMINIUM versions [screw closing] >> HDAS500 Type - Max 570A - Up to 1.000V

OPTIMA-METAL Series

899.



Socket

IP	Current	Poles	Volt	Cable section	SOCKET	
					Part Number	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AS5DE395	1
				120 mm ²	899.AS5DE412	1
	3P+N+E	150 mm ²		899.AS5DE415	1	
		95 mm ²		899.AS5DE495	1	
	370A	3P+E		120 mm ²	899.AS5DE312	1
				150 mm ²	899.AS5DE315	1
	420A	3P+N+E		185 mm ²	899.AS5DE318	1
				150 mm ²	899.AS5DE415-16	1
	500A	185 mm ²		899.AS5DE418-16	1	
	570A	3P+E		240 mm ²	899.AS5DE324-18	1

- Crimp terminals

OPTIMA-METAL Series

899.



Straight plug

IP	Current	Poles	Volt	Cable section	PLUG	
					Part Number	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AS5PR395	1
				120 mm ²	899.AS5PR412	1
	3P+N+E	150 mm ²		899.AS5PR415	1	
		95 mm ²		899.AS5PR495	1	
	370A	3P+E		120 mm ²	899.AS5PR312	1
				150 mm ²	899.AS5PR315	1
	420A	3P+N+E		185 mm ²	899.AS5PR318	1
				150 mm ²	899.AS5PR415-16	1
	500A	185 mm ²		899.AS5PR418-16	1	
	570A	3P+E		240 mm ²	899.AS5PR324-18	1

- Crimp terminals

1

INDUSTRY

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Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



ALUMINIUM versions [screw closing] >> HDAS500 Type - Max 570A - Up to 1.000V

OPTIMA-METAL Series

899.



Appliance inlet

IP	Current	Poles	Volt	Cable section	APPLIANCE INLET	
					Part Number	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AS5AR395	1
		3P+N+E		120 mm ²	899.AS5AR412	1
				150 mm ²	899.AS5AR415	1
		370A		3P+E	95 mm ²	899.AS5AR495
	120 mm ²				899.AS5AR312	1
	420A	3P+E		150 mm ²	899.AS5AR315	1
				185 mm ²	899.AS5AR318	1
	500A	3P+N+E		150 mm ²	899.AS5AR415-16	1
				185 mm ²	899.AS5AR418-16	1
	570A	3P+E		240 mm ²	899.AS5AR324-18	1

- Crimp terminals

OPTIMA-METAL Series

899.



Connector

IP	Current	Poles	Volt	Cable section	CONNECTOR	
					Part Number	Quantity
IP67	320A	3P+E	1000V	95 mm ²	899.AS5CE395	1
		3P+N+E		120 mm ²	899.AS5CE412	1
				150 mm ²	899.AS5CE415	1
		370A		3P+E	95 mm ²	899.AS5CE495
	120 mm ²				899.AS5CE312	1
	420A	3P+E		150 mm ²	899.AS5CE315	1
				185 mm ²	899.AS5CE318	1
	500A	3P+N+E		150 mm ²	899.AS5CE415-16	1
				185 mm ²	899.AS5CE418-16	1
	570A	3P+E		240 mm ²	899.AS5CE324-18	1

- Crimp terminals

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

■ ALUMINIUM versions [screw closing] >> HDAS800 Type - Max 800A - Up to 1.000V

OPTIMA-METAL Series

899.



Socket

IP	Current	Poles	Volt	Cable section	SOCKET	
IP67	570A	3P+E	1000V	240 mm ²	899.AS8DF324	1
		3P+N+E			899.AS8DF424	1
	800A	3P+E		899.AS8DF330	1	
		3P+N+E		899.AS8DF430	1	

- Crimp terminals

OPTIMA-METAL Series

899.



Straight plug

IP	Current	Poles	Volt	Cable section	PLUG	
IP67	570A	3P+E	1000V	240 mm ²	899.AS8PM324	1
		3P+N+E			899.AS8PM424	1
	800A	3P+E		899.AS8PM330	1	
		3P+N+E		899.AS8PM430	1	

- Crimp terminals

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INDUSTRY

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Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



ALUMINIUM versions [screw closing] >> HDAS800 Type - Max 800A - Up to 1.000V

OPTIMA-METAL Series

899.



Appliance inlet

IP	Current	Poles	Volt	Cable section	APPLIANCE INLET	
IP67	570A	3P+E	1000V	240 mm ²	899.AS8AM324	1
		3P+N+E			899.AS8AM424	1
	800A	3P+E		899.AS8AM330	1	
		3P+N+E		899.AS8AM430	1	

- Crimp terminals

OPTIMA-METAL Series

899.



Connector

IP	Current	Poles	Volt	Cable section	CONNECTOR	
IP67	570A	3P+E	1000V	240 mm ²	899.AS8CF324	1
		3P+N+E			899.AS8CF424	1
	800A	3P+E		899.AS8CF330	1	
		3P+N+E		899.AS8CF430	1	

- Crimp terminals

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

ALUMINIUM versions [screw closing]

OPTIMA-METAL Series

899.



1

INDUSTRY

Description	Notes	IP	Accessories
CAP	HDAS250	IP67	899.AS2PC 1
	HDAS500		899.AS5PC 1
	HDAS800		899.AS8PC 1

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Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



SWITCHED INTERLOCKED SOCKETS versions [lever closing] >> HDIN250 Type - 250A

OPTIMA-METAL Series

899.



	With switch-disconnector	With switch-disconnector and fuse	With MCCB	With MCCB & RCD
INTERLOCKED SOCKET				
IP67				
250A				
Poles Volt				
3P+E	440V			899.IN25086RM ^[2]
	690V	899.IN25086	899.IN25086F	899.IN25086M ^[1]
3P+N+E	440V			899.IN25087RM ^[2]
	690V	899.IN25087	899.IN25087F	899.IN25087M ^[1]

^[1] MCCB = Molded case circuit breaker with thermal magnetic trip unit

^[2] MCCB & RCD = Molded case circuit breaker with thermal magnetic and residual current release trip unit

- To be mated with HDAL250 plugs



OPTIMA-METAL Series
Application example

1.4



Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors

ALUMINIUM versions [disconnectors] >> HSD200 Type - 200A/250A

OPTIMA-METAL Series

899.

1
INDUSTRY



Appliance inlet

Socket

Plug

APPLIANCE INLET

SOCKET

PLUG

Current	Poles	Volt	h	APPLIANCE INLET		SOCKET		PLUG	
200A	3P+N+E	380-440V				IP67			
		220-250V	6h	899.SD2A30E03	1	899.SD2D30E03	1	899.SD2P30E01 ¹	1
250A	3P+E			899.SD2A30E01	1	899.SD2D30E01	1	899.SD2P30E01 ¹	1
	3P+N+E	380-440V		899.SD2A3NE01	1	899.SD2D3NE01	1	899.SD2P30E01 ¹	1

- ¹ Rubber handle
- Screw terminals

ALUMINIUM versions [disconnectors]

OPTIMA-METAL Series

899.



Description

IP

Accessories: handles

RUBBER HANDLES		899.SD2G	1		
ALUMINUM HANDLES	IP67			899.SD2GM	1
ANGLED ALUMINUM HANDLES				899.SD2GMA	1

Plugs and sockets for special applications

OPTIMA-METAL Series - Industrial connectors



ALUMINIUM versions [disconnectors]

OPTIMA-METAL Series

899.



Description	IP	Accessories: box and plug cap	
FLUSH MOUNTING BOX		899.SD2LB ¹	1
SURFACE MOUNTING BOX	IP67		899.SD2WAS ¹ 1
PLUG CAP		899.SD2PC	1

¹ For fixed plugs and sockets

1.4

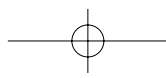
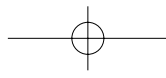


1.5

Switchgears

- **COMMAND Series**
Low-voltage rotary switchgear and controlgear
- **ISOLATORS Series**
Switch-disconnectors IP65
- **TOP22 Series**
Control and signalling accessories





Switchgears

COMMAND Series

Switch disconnectors

COMMAND Series

590.



Base mounting [16A-40A]

Version	Current	Poles	Switch size	SWITCH DISCONNECTOR		
BOX (B)	16A	2P	Y1	590.YA162B ¹	6	
		3P		590.YA163B ¹	6	
		4P		590.YA164B ¹	6	
		3P+N		590.YA165B ^{2 1}	6	
	20A	6P	Y3	590.YA166B ^{3 4}	6	
		8P		590.YA168B ^{3 2 4}	6	
	25A	2P	Y1	590.YA202B ¹	6	
		3P		590.YA203B ¹	6	
		4P		590.YA204B ¹	6	
		3P+N		590.YA205B ^{2 1}	6	
	32A	6P	Y3	590.YA256B ^{3 4}	6	
		8P		590.YA258B ^{3 2 4}	6	
	40A	2P	Y1	590.YA322B ¹	6	
		3P		590.YA323B ¹	6	
		4P		590.YA324B ¹	6	
		3P+N		590.YA325B ^{2 1}	6	
40A		6P	Y3	590.YA326B ^{3 4}	6	
		8P		590.YA328B ^{3 2 4}	6	
		2P		Y1	590.YA402B ¹	6
		3P			590.YA403B ¹	6
4P	590.YA404B ¹	6				
3P+N	590.YA405B ^{2 1}	6				
40A	6P	Y3	590.YA406B ^{3 4}	6		
	8P		590.YA408B ^{3 2 4}	6		

¹ DIN rail fixing

² With late break and early make neutral pole

³ Equipped with direct handle

⁴ DIN rail / screw fixing

- BOX (B) = Base mounting

1

INDUSTRY

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■ Switch disconnectors

COMMAND Series

590.



Base mounting
[63A-160A]

Version	Current	Poles	Switch size	SWITCH DISCONNECTOR	
63A	3P+N	Y2	2P	590.YA632B ^[4]	6
			3P	590.YA633B ^[4]	6
			4P	590.YA634B ^[4]	6
			3P+N	590.YA635B ^{[3][4]}	6
	6P	Y4		590.YA636B ^{[1][2]}	6
				590.YA638B ^{[1][3][2]}	6
80A	3P+N	Y2	2P	590.YA802B ^[4]	6
			3P	590.YA803B ^[4]	6
			4P	590.YA804B ^[4]	6
			3P+N	590.YA805B ^{[3][4]}	6
	6P	Y4		590.YA806B ^{[1][2]}	6
				590.YA808B ^{[1][3][2]}	6
100A	3P+N	Y4	3P	590.YA1003B ^{[1][2]}	6
			4P	590.YA1004B ^{[1][2]}	6
			3P+N	590.YA1005B ^{[1][3][2]}	6
			6P	590.YA1006B ^{[1][2]}	6
	8P	Y5		590.YA1008B ^{[1][3][2]}	6
125A	3P+N	Y5		590.YA1253B ^{[1][2]}	6
				590.YA1255B ^{[1][3][2]}	6
	6P		590.YA1256B ^{[1][2]}	6	
	8P		590.YA1258B ^{[1][3][2]}	6	
160A	3P+N	Y5		590.YA1603B ^{[1][2]}	5
				590.YA1605B ^{[1][3][2]}	5
	6P		590.YA1606B ^{[1][2]}	6	
	8P		590.YA1608B ^{[1][3][2]}	6	

- ^[1] Equipped with direct handle
- ^[2] DIN rail / screw fixing
- ^[3] With late break and early make neutral pole
- ^[4] DIN rail fixing
- BOX (B) = Base mounting

1.5



Switchgears

COMMAND Series

Switch disconnectors

COMMAND Series

590.



Panel mounting

Version	Current	Poles	Switch size	SWITCH DISCONNECTOR		
REAR (R)	16A	2P	Y1	590.YA162R	6	
		3P		590.YA163R	6	
		4P		590.YA164R	6	
		3P+N		590.YA165R^[1]	6	
	32A	2P		590.YA322R	6	
		3P		590.YA323R	6	
		4P		590.YA324R	6	
		3P+N		590.YA325R^[1]	6	
	40A	2P		590.YA402R	6	
		3P		590.YA403R	6	
		4P		590.YA404R	6	
		3P+N		590.YA405R^[1]	6	
	63A	2P		Y2	590.YA632R	6
		3P			590.YA633R	6
		4P			590.YA634R	6
		3P+N			590.YA635R^[1]	6
80A	2P	590.YA802R	6			
	3P	590.YA803R	6			
	4P	590.YA804R	6			
	3P+N	590.YA805R^[1]	6			
100A	3P	590.YA1003R	6			
	4P	590.YA1004R	6			

^[1] With late break and early make neutral pole

- REAR (R) = Panel mounting

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INDUSTRY

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4

■ Switch disconnectors

COMMAND Series

590.



Base mounting
[160A-1600A]

Version	Current	Poles	Switch size	SWITCH DISCONNECTOR	
BOX (B)	160A	3P	K1	590.K16003B	1
		3P+N		590.K16005B ¹	1
	200A	3P	K2	590.K20003B	1
		3P+N		590.K20005B ¹	1
	250A	3P	K2	590.K25003B	1
		3P+N		590.K25005B ¹	1
	315A	3P	K2	590.K31503B	1
		3P+N		590.K31505B ¹	1
	400A	3P	K3	590.K40003B	1
		3P+N		590.K40005B ¹	1
	500A	3P	K3	590.K50003B	1
		3P+N		590.K50005B ¹	1
	630A	3P	K4	590.K63003B	1
		3P+N		590.K63005B ¹	1
	800A	3P	K4	590.K80003B	1
		3P+N		590.K80005B ¹	1
	1000A	3P	K5	590.K100003B	1
		3P+N		590.K100005B ¹	1
	1250A	3P	K5	590.K125003B	1
		3P+N		590.K125005B ¹	1
	1600A	3P	K6	590.K160003B	1
		3P+N		590.K160005B ¹	1

- ¹ With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Door interlock handle and 200mm shaft included
 - BOX (B) = Base mounting
 - Screw fixing

1.5



Switchgears

COMMAND Series

Switch disconnectors [DC - Direct Current]

COMMAND Series

590.



Base mounting - Direct current (DC)

Version	Current	Poles in series	Switch size	SWITCH DISCONNECTOR	
BOX (B)	15A	4	D1	590.DC0815 ^[2]	6
	16A		Y1	590.DC0416 ^[1]	6
	20A	5		590.DC0820 ^[2]	6
	25A	6	D3	590.DC0825 ^[2]	6
	30A	8		590.DC0830 ^[2]	6
	40A		D5	590.DC0840 ^[2]	6

^[1] DIN rail fixing

^[2] DIN rail / screw fixing

- Equipped with direct handle
- Links already wired
- BOX (B) = Base mounting

Switch disconnectors [FUSES]

COMMAND Series

590.



Base mounting - With fuse carrier [Type gG] 16A - 32A

Version	Current	Poles	Switch size	Fuse type	SWITCH DISCONNECTOR FUSES	
BOX (B)	16A	2P	F1	gG 10,3x38mm	590.YF162B	6
		3P			590.YF163B	6
		4P			590.YF164B	6
	3P+N	590.YF165B ^[1]			6	
	32A	2P			590.YF322B	6
		3P			590.YF323B	6
4P		590.YF324B	6			
		3P+N	590.YF325B ^[1]	6		

^[1] With late break and early make neutral pole

- Fuses not supplied
- BOX (B) = Base mounting
- DIN rail fixing

■ **Switch disconnectors [FUSES]**

COMMAND Series

590.



**Base mounting with fuse carrier [Type BS]
63A - 630A**

Version	Current	Poles	Switch size	Fuse type	SWITCH DISCONNECTOR FUSES	
BOX (B)	63A	3P	KF1	BS	590.KFB6303B	1
		3P+N			590.KFB6305B ¹	1
	80A	3P	KF1		590.KFB8003B	1
		3P+N			590.KFB8005B ¹	1
	100A	3P	KF1		590.KFB10003B	1
		3P+N			590.KFB10005B ¹	1
	125A	3P	KF2		590.KFB12503B	1
		3P+N			590.KFB12505B ¹	1
	160A	3P	KF2		590.KFB16003B	1
		3P+N			590.KFB16005B ¹	1
	200A	3P	KF3		590.KFB20003B	1
		3P+N			590.KFB20005B ¹	1
	250A	3P	KF3		590.KFB25003B	1
		3P+N			590.KFB25005B ¹	1
	315A	3P	KF4		590.KFB31503B	1
		3P+N			590.KFB31505B ¹	1
	400A	3P	KF4		590.KFB40003B	1
		3P+N			590.KFB40005B ¹	1
	630A	3P	KF5		590.KFB63003B	1
		3P+N			590.KFB63005B ¹	1

- ¹ With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Door interlock handle and 200mm shaft included
 - Fuses not supplied
 - BOX (B) = Base mounting
 - Screw fixing

1.5



Switchgears

COMMAND Series

Switch disconnectors [FUSES]

COMMAND Series

590.



Base mounting - With fuse carrier [Type DIN-NH]
63A - 630A

SWITCH DISCONNECTOR FUSES

Version	Current	Poles	Switch size	Fuse type		
BOX (B)	63A	3P	KF1	DIN-HN	590.KFD6303B	1
		3P+N			590.KFD6305B ^[1]	1
	80A	3P	KF2		590.KFD8003B	1
		3P+N			590.KFD8005B ^[1]	1
	100A	3P	KF3		590.KFD10003B	1
		3P+N			590.KFD10005B ^[1]	1
	125A	3P	KF4		590.KFD12503B	1
		3P+N			590.KFD12505B ^[1]	1
	160A	3P	KF5		590.KFD16003B	1
		3P+N			590.KFD16005B ^[1]	1
	200A	3P	KF1		590.KFD20003B	1
		3P+N			590.KFD20005B ^[1]	1
	250A	3P	KF2		590.KFD25003B	1
		3P+N			590.KFD25005B ^[1]	1
	315A	3P	KF3		590.KFD31503B	1
		3P+N			590.KFD31505B ^[1]	1
	400A	3P	KF4		590.KFD40003B	1
		3P+N			590.KFD40005B ^[1]	1
	630A	3P	KF5		590.KFD63003B	1
		3P+N			590.KFD63005B ^[1]	1

- ^[1] With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Door interlock handle and 200mm shaft included
 - Fuses not supplied
 - BOX (B) = Base mounting
 - Screw fixing



I-O-II
Change-Over Switches [I-O-II]

Change-over switches [I-O-II]

COMMAND Series

590.



Base mounting

Version	Current	Poles	Switch size	CHANGE OVER SWITCH		
BOX (B)	16A	3P	C1	590.YA163B-C	6	
		3P+N		590.YA165B-C^[1]	6	
	25A	3P		590.YA253B-C	6	
		3P+N		590.YA255B-C^[1]	6	
	32A	3P		C2	590.YA323B-C	6
		3P+N			590.YA325B-C^[1]	6
	40A	3P	590.YA403B-C		6	
		3P+N	590.YA405B-C^[1]		6	
	63A	3P	C3		590.YA633B-C	6
		3P+N			590.YA635B-C^[1]	6
	80A	3P		590.YA803B-C	6	
		3P+N		590.YA805B-C^[1]	6	
	100A	3P		C3	590.YA1003B-C	6
		3P+N			590.YA1005B-C^[1]	6
	125A	3P	590.YA1253B-C		6	
		3P+N	590.YA1255B-C^[1]		6	
	160A	3P	590.YA1603B-C		6	
		3P+N	590.YA1605B-C^[1]		6	

- ^[1] With late break and early make neutral pole
- Handle padlockable in OFF (1 padlock) position
 - Equipped with direct handle
 - BOX (B) = Base mounting

1.5



Switchgears COMMAND Series

Accessories

1
INDUSTRY

COMMAND Series



590.



Front operator handles 48X48mm

FRONT OPERATOR

IP65

Switch size	Ø	Dimension	EMERGENCY		GENERAL	
						
F1 Y1	standard	48x48mm	590.YM48B1 ^[1]	1/10	590.YM48B2 ^[1]	1/10
			590.YM48R1 ^[2]	1/10	590.YM48R2 ^[2]	1/10
	ø22mm		590.YM50B1 ^[1]	10	590.YM50B2 ^[1]	10
			590.YM50R1 ^[2]	10	590.YM50R2 ^[2]	10

[1] For base mounting version with door interlock (B)

[2] For panel mounting version (R)

- Shaft not included (to buy separately)
- For general use and emergency switches.
- Handle not padlockable

COMMAND Series



590.



Front operator handles 48X48mm - Padlockable

FRONT OPERATOR PADLOCKABLE

IP65

Switch size	Ø	Dimension	EMERGENCY		GENERAL	
						
F1 Y1	standard	48x48mm	590.YM49B1 ^[1]	1/10	590.YM49B2 ^[1]	1/10
			590.YM49R1 ^[2]	1/10	590.YM49R2 ^[2]	1/10
	ø22mm		590.YM51B1 ^[1]	10	590.YM51B2 ^[1]	10
			590.YM51R1 ^[2]	10	590.YM51R2 ^[2]	10

[1] For base mounting version with door interlock (B)

[2] For panel mounting version (R)

- Shaft not included (to buy separately)
- For general use and emergency switches.
- Handle padlockable in OFF only (3 padlocks)

■ Accessories

COMMAND Series

590.



Front operator handles
67X67mm

FRONT OPERATOR PADLOCKABLE

IP65

Switch size	Ø	Dimension	EMERGENCY		GENERAL	
F1 Y1	standard	67x67mm	590.YM67B1 ¹	1/10	590.YM67B2 ¹	1/10
			590.YM67R1 ²	1/10	590.YM67R2 ²	1/10
	ø22mm		590.YM68B1 ¹	10	590.YM68B2 ¹	10
			590.YM68R1 ²	10	590.YM68R2 ²	10
Y2	standard	67x67mm	590.YM67B6 ¹	1/10	590.YM67B7 ¹	1/10
			590.YM67R6 ²	1/10	590.YM67R7 ²	1/10
	ø22mm		590.YM68B6 ¹	10	590.YM68B7 ¹	10

¹ For base mounting version with door interlock (B)

² For panel mounting version (R)

- Shaft not included (to buy separately)
- For general use and emergency switches.
- Handle padlockable in OFF only (3 padlocks)

COMMAND Series

590.



Front operator handles
Ø80mm

FRONT OPERATOR PADLOCKABLE

IP65

Switch size	Ø	Dimension	EMERGENCY		GENERAL	
Y3 Y4 Y5	ø22mm	Ø80mm	590.YM80B1	5	590.YM80B2	5
C1 C2 C3						590.YM80B2-C

- Shaft not included (to buy separately)
- Handle padlockable in OFF only (3 padlocks)
- For base mounting version with door interlock (B)

1.5



Switchgears COMMAND Series

Accessories

1

INDUSTRY



COMMAND Series

590.



Front operator handles
70x87mm

FRONT OPERATOR FOR SWITCHES

Switch size	Dimension	EMERGENCY		GENERAL	
					
Y1	70x87mm	590.YM70R1	10	590.YM70R2	10
Y2		590.YM70R6	10	590.YM70R7	10

- For general use and emergency switches.
- They can only be applied to SCAME enclosure system 70x87mm socket cut out
- Handle padlockable in OFF only (3 padlocks)
- For panel mounting version (R)
- Shaft included

2


3

4

COMMAND Series

590.



Description	IP	Colour	Switch size	Direct handle
DIRECT HANDLE	IP65		F1 Y1	590.YMC1 10
			Y2	590.YMC2 10

- Shaft included
- For base mounting version (B)

Switchgears COMMAND Series



Accessories

COMMAND Series

590.



Description	Switch size	Direct handle kit for DIN rail window
WINDOW FOR DIN RAIL - Shaft included - For base mounting version (B)	Y1	590.YMDIN 10



APPLICATION EXAMPLE

1.5



Switchgears COMMAND Series

Accessories

COMMAND Series

590.



1
INDUSTRY

Description	IP	Version	Switch size	Notes	Front operator handles
FRONT OPERATOR	IP65	EMERGENCY	KF1 KF2 K2		590.KMM100EM 10
			KF3 KF4 K3 K4		590.KMM300EM 10
			KF5 K5	DOUBLE	590.KMM550EM 10
					590.KMM500EM 10
			K6	DOUBLE	590.KMM600EM 10
		GENERAL	KF1 KF2 K2		590.KMM100GE 10
				KF3 KF4 K3 K4	
			KF5 K5	DOUBLE	590.KMM550GE 10
					590.KMM500GE 10
			K6	DOUBLE	590.KMM600GE 10

- Shaft not included (to buy separately)
- Handle padlockable in OFF only (3 padlocks)
- For base mounting version (B)



Double
Door interlock handle: "double" handle

Switchgears COMMAND Series



Accessories

COMMAND Series

590.



Description	Switch size	Dimension	Notes	Shaft for front operator handles	
SHAFT	KF1 KF2 K2	200mm		590.KMA200A 10	
		300mm		590.KMA300A 10	
		400mm		590.KMA400A 10	
	KF3 KF4 KF5 K3 K4 K5	200mm		590.KMA200B 10	
		300mm		590.KMA300B 10	
		400mm		590.KMA400B 10	
	F1 Y1	185mm		590.YMA185 10/100	
		300mm	[5x5mm]	590.YMA300 10	
		70mm		590.YMA070 10/100	
		85mm		590.YMA085 10/100	
	Y2	185mm		590.YMB185 10/100	
		300mm	[6x6mm]	590.YMB300 10	
		85mm		590.YMB085 10/100	
	Y3 Y4 Y5 D1 D3 D5	100mm		590.YMA101 10/100	
		200mm	[5x5mm]	590.YMA201 10/100	
			300mm		590.YMA301 10/100

- To buy along with front operator handle
- For base mounting version (B)

COMMAND Series

590.



Description	Switch size	Shaft-hub
SHAFT-HUB REINFORCING RING	Y3 Y4 Y5 C1 C2 C3 D1 D3 D5	590.YMZZ 10/50

- Assembled instead of the handle, it reduces the switch height by 5mm
- To buy along with front operator handle
- For base mounting version (B)

1.5



Switchgears COMMAND Series

Accessories

1
INDUSTRY

ADVANCE 2 System

576.

OMNIA System

572.



Single junction box

IP	Notes	Dimension	ENCLOSURE FOR SWITCH	
IP66	ADVANCE2	136x150x105mm	576.4390 ^[3]	6
IP67	OMNIA	136x125x85mm	572.3390 ^{[1][2]}	6

^[1] Blank side with drilling point mark

^[2] IP67 when assembled together with the relevant component.

^[3] Metric break-through cable entry

- For fitting with Y1 switch size panel mounting version (R) and relevant front operators handleless (IP65).

COMMAND Series

590.



Description	Switch size	Suitable for	Terminal protection cover	
TERMINAL PROTECTION COVER	KF1	TOP TERMINALS	590.KMT11	10
		BOTTOM TERMINALS	590.KMT12	10
	KF2 K2	TOP TERMINALS	590.KMT21	10
		BOTTOM TERMINALS	590.KMT22	10
	KF3 K3	TOP TERMINALS	590.KMT31	10
		BOTTOM TERMINALS	590.KMT32	10
	KF4 K4	TOP TERMINALS	590.KMT41	10
		BOTTOM TERMINALS	590.KMT42	10
	KF5 K5	TOP TERMINALS	590.KMT51	10
		BOTTOM TERMINALS	590.KMT52	10

■ **Accessories**

COMMAND Series

590.



Description	Switch size	Protection screen fuses	
PROTECTION SCREEN FUSES	KF1	590.KFS1	1/6
	KF2	590.KFS2	1/6
	KF3	590.KFS3	1/10
	KF4	590.KFS4	1/10
	KF5	590.KFS5	1/10

TOP22 Series

590.



Description	Colour	Switch size	Contact blocks	
NC CONTACT		Y1	590.PL004001 ^[1]	10/60
		Y2	590.PL004003 ^[1]	10
NO CONTACT		Y1	590.PL004002 ^[2]	10/60
		Y2	590.PL004004 ^[2]	10

[1] NC=Normally closed

[2] NO=Normally open

- Snap catch

1.5



Switchgears COMMAND Series

Accessories

1

INDUSTRY

TOP22 Series

590.



Description	Switch size	Notes	Contact blocks
CHANGE OVER CONTACT - Break before main contacts	Y3 Y4 Y5 C1 C2 C3	15A 250V~ - 10A 415V~	590.PL005 50

2

3

4

TOP22 Series

590.



Description	Switch size	Contact blocks
AUXILIARY CONTACT 1NA+1NC	KF1 KF2 K2	590.PL006011 10
	KF3 KF5 K3 K5 K6	590.PL006012 10
	KF4 K4	590.PL006013 10
AUXILIARY CONTACT 2NA+2NC	KF1 KF2 K2	590.PL006021 10
	KF3 KF5 K3 K5 K6	590.PL006022 10
	KF4 K4	590.PL006023 10

- Break before main contacts

Switchgears

ISOLATORS Series



■ Enclosed switch disconnectors >> Flush mounting - Thermoplastic version [OMNIA enclosure]

ISOLATORS Series

590.



For emergency switching



For general use

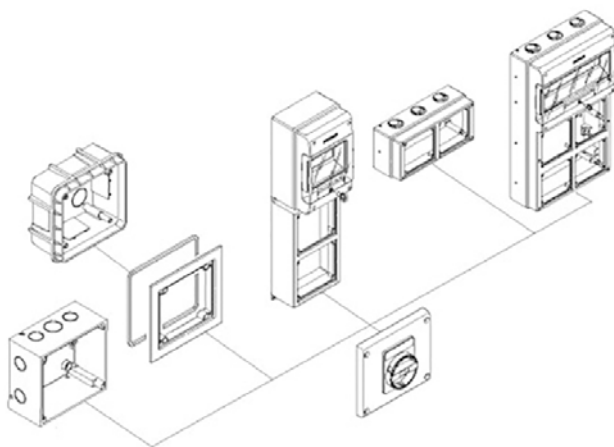
				SWITCH DISCONNECTOR			
				IP65			
				EMERGENCY		GENERAL	
Current	Poles	Switch size	Dimension				
20A	2P	Y1	136x125mm	590.ER2002 ^[3]	1/12	590.GR2002 ^[1]	1/12
	3P			590.ER2003 ^[3]	1/12	590.GR2003 ^[1]	1/12
	4P			590.ER2004 ^[3]	1/12	590.GR2004 ^[1]	1/12
	3P+N			590.ER2005 ^{[3][2]}	1/12	590.GR2005 ^{[1][2]}	1/12
32A	2P	Y1	136x125mm	590.ER3202 ^[3]	1/12	590.GR3202 ^[1]	1/12
	3P			590.ER3203 ^[3]	1/12	590.GR3203 ^[1]	1/12
	4P			590.ER3204 ^[3]	1/12	590.GR3204 ^[1]	1/12
	3P+N			590.ER3205 ^{[3][2]}	1/12	590.GR3205 ^{[1][2]}	1/12
40A	2P	Y1	136x125mm	590.ER4002 ^[3]	1/12	590.GR4002 ^[1]	1/12
	3P			590.ER4003 ^[3]	1/12	590.GR4003 ^[1]	1/12
	4P			590.ER4004 ^[3]	1/12	590.GR4004 ^[1]	1/12
	3P+N			590.ER4005 ^{[3][2]}	1/12	590.GR4005 ^{[1][2]}	1/12

^[1] Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

^[2] With late break and early make neutral pole

^[3] Handle padlockable in OFF only (3 padlocks)

- With panel mounting version (R) switch



1.5



Switchgears ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version [16A÷40A] [OMNIA enclosure]

ISOLATORS Series

590.

1

INDUSTRY



For emergency



For general use

SWITCH DISCONNECTOR

IP65

EMERGENCY

GENERAL

Current	Poles	Switch size	Dimension	SWITCH DISCONNECTOR			
				EMERGENCY	GENERAL		
20A	2P	Y1	136x125x84mm	590.EM2002 ^[3]	1/12	590.GE2002 ^[1]	1/12
	3P			590.EM2003 ^[3]	1/12	590.GE2003 ^[1]	1/12
	4P			590.EM2004 ^[3]	1/12	590.GE2004 ^[1]	1/12
	3P+N			590.EM2005 ^{[3][2]}	1/12	590.GE2005 ^{[1][2]}	1/12
32A	2P	Y1	136x125x84mm	590.EM3202 ^[3]	1/12	590.GE3202 ^[1]	1/12
	3P			590.EM3203 ^[3]	1/12	590.GE3203 ^[1]	1/12
	4P			590.EM3204 ^[3]	1/12	590.GE3204 ^[1]	1/12
	3P+N			590.EM3205 ^{[3][2]}	1/12	590.GE3205 ^{[1][2]}	1/12
40A	2P	Y1	136x125x84mm	590.EM4002 ^[3]	1/12	590.GE4002 ^[1]	1/12
	3P			590.EM4003 ^[3]	1/12	590.GE4003 ^[1]	1/12
	4P			590.EM4004 ^[3]	1/12	590.GE4004 ^[1]	1/12
	3P+N			590.EM4005 ^{[3][2]}	1/12	590.GE4005 ^{[1][2]}	1/12

^[1] Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

^[2] With late break and early make neutral pole

^[3] Handle padlockable in OFF only (3 padlocks)

- OMNIA Series enclosure
- Blank side with drilling point mark
- Equipped with door interlock

Switchgears

ISOLATORS Series



■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version [16A÷40A] GE

ISOLATORS Series

590.



For general use [SPECIAL]



For general use

SWITCH DISCONNECTOR

IP65

GENERAL

Current	Poles	Switch size	Dimension	SWITCH DISCONNECTOR		GENERAL	
				590.EL	1/5	590.GE	1/5
16A	6P	Y3	155x210x107mm	590.EL1606	1/5	590.GE1606	1/5
	8P			590.EL1608 ¹	1/5	590.GE1608 ¹	1/5
20A	2P	Y1	105x150x82mm	590.EL2012	1/12	590.GE2012	1/12
	3P			590.EL2013	1/12	590.GE2013	1/12
	4P			590.EL2015 ¹	1/12	590.GE2015 ¹	1/12
	3P+N						
25A	6P	Y3	155x210x107mm	590.EL2506	1/5	590.GE2506	1/5
	8P			590.EL2508 ¹	1/5	590.GE2508 ¹	1/5
	2P			590.EL3212	1/12	590.GE3212	1/12
	3P			590.EL3213	1/12	590.GE3213	1/12
32A	4P	Y1	105x150x82mm	590.EL3214	1/12	590.GE3214	1/12
	3P+N			590.EL3215 ¹	1/12	590.GE3215 ¹	1/12
	6P			590.EL3206	1/5	590.GE3206	1/5
	8P			590.EL3208 ¹	1/5	590.GE3208 ¹	1/5
40A	2P	Y1	105x150x82mm	590.EL4012	1/12	590.GE4012	1/12
	3P			590.EL4013	1/12	590.GE4013	1/12
	4P			590.EL4014	1/12	590.GE4014	1/12
	3P+N			590.EL4015 ¹	1/12	590.GE4015 ¹	1/12
	6P			590.EL4006	1/5	590.GE4006	1/5
	8P			590.EL4008 ¹	1/5	590.GE4008 ¹	1/5

¹ With late break and early make neutral pole

- Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- Equipped with door interlock
- Break-through cable entries

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version [16A÷40A] EM

ISOLATORS Series

590.



For emergency

SWITCH DISCONNECTOR

IP65

EMERGENCY



Current	Poles	Switch size	Dimension				
16A	6P	Y3	155x210x107mm	590.EM1606	1/5		
	8P			590.EM1608 ^[1]	1/5		
20A	2P	Y1	105x150x82mm	590.EM2012	1/12		
	3P			590.EM2013	1/12		
	4P			590.EM2014	1/12		
	3P+N			590.EM2015 ^[1]	1/12		
	6P			590.EM2506	1/5		
25A	8P	Y3	155x210x107mm	590.EM2508 ^[1]	1/5		
	2P			590.EM3212	1/12		
32A	3P	Y1	105x150x82mm	590.EM3213	1/12		
	4P			590.EM3214	1/12		
	3P+N			590.EM3215 ^[1]	1/12		
	6P			Y3	155x210x107mm	590.EM3206	1/5
	8P					590.EM3208 ^[1]	1/5
40A	2P	Y1	105x150x82mm	590.EM4012	1/12		
	3P			590.EM4013	1/12		
	4P			590.EM4014	1/12		
	3P+N			590.EM4015 ^[1]	1/12		
	6P			Y3	155x210x107mm	590.EM4006	1/5
8P	590.EM4008 ^[1]	1/5					

- [1] With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Equipped with door interlock
 - Break-through cable entries

1

INDUSTRY

2

3

4

■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version [63A÷160A] GE

ISOLATORS Series

590.



For general use [SPECIAL]

For general use

Current	Poles	Switch size	Dimension	SWITCH DISCONNECTOR			
				IP65	IP55	IP65	
				GENERAL			
63A	2P	Y2	155x210x107mm	590.EL6302 ¹	1/5	590.GE6302 ¹	1/5
	3P			590.EL6303 ¹	1/5	590.GE6303 ¹	1/5
	4P					590.GE6304 ¹	1/5
	3P+N		590.EL6305 ^{2,1}	1/5	590.GE6305 ^{2,1}	1/5	
	6P	Y4	228x308x128mm			590.GE6306 ³	1
	8P					590.GE6308 ^{2,3}	1
80A	2P	Y2	155x210x107mm	590.EL8002 ¹	1/5	590.GE8002 ¹	1/5
	3P			590.EL8003 ¹	1/5	590.GE8003 ¹	1/5
	4P					590.GE8004 ¹	1/5
	3P+N		590.EL8005 ^{2,1}	1/5	590.GE8005 ^{2,1}	1/5	
	6P	Y4	228x308x128mm			590.GE8006 ³	1
	8P					590.GE8008 ^{2,3}	1
100A	3P	Y2	155x210x107mm	590.EL10003 ¹	1/5	590.GE10003 ¹	1/5
	3P+N			590.EL10005 ^{2,1}	1/5	590.GE10005 ^{2,1}	1/5
	6P	Y4	228x308x128mm			590.GE10006 ³	1
	8P					590.GE10008 ^{2,3}	1
125A	3P	Y5	308x388x128mm		590.GE12503 ³	1	
	3P+N			590.GE12505 ^{2,3}	1		
	6P				590.GE12506 ³	1	
	8P				590.GE12508 ^{2,3}	1	
160A	3P	Y5	308x388x128mm		590.GE16003 ³	1	
	3P+N			590.GE16005 ^{2,3}	1		
	6P				590.GE16006 ³	1	
	8P				590.GE16008 ^{2,3}	1	

¹ Break-through cable entries

² With late break and early make neutral pole

³ Blank sides

- Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- Equipped with door interlock

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version [63A÷160A] EM

ISOLATORS Series

590.



For emergency

SWITCH DISCONNECTOR

IP55

IP65

EMERGENCY

Current	Poles	Switch size	Dimension	EMERGENCY	
63A	2P	Y2	155x210x107mm		
	3P			590.EM6302 ^[1]	1/5
	4P			590.EM6303 ^[1]	1/5
	3P+N			590.EM6304 ^[1]	1/5
	6P	Y4	228x308x128mm	590.EM6305 ^{[2][1]}	1/5
	8P			590.EM6306 ^[3]	1
80A	2P	Y2	155x210x107mm		
	3P			590.EM6308 ^{[2][3]}	1
	4P			590.EM8002 ^[1]	1/5
	3P+N			590.EM8003 ^[1]	1/5
	6P	Y4	228x308x128mm	590.EM8004 ^[1]	1/5
	8P			590.EM8005 ^{[2][1]}	1/5
100A	3P	Y2	155x210x107mm		
	3P+N			590.EM8006 ^[3]	1
	6P	Y4	228x308x128mm	590.EM8008 ^{[2][3]}	1
	8P			590.EM10003 ^[1]	1/5
	3P			590.EM10005 ^{[2][1]}	1/5
	3P+N			590.EM10006 ^[3]	1
125A	6P	Y5	308x388x128mm	590.EM10008 ^{[2][3]}	1
	8P			590.EM12503 ^[3]	1
	3P	Y5	308x388x128mm	590.EM12505 ^{[2][3]}	1
	3P+N			590.EM12506 ^[3]	1
	6P			590.EM12508 ^{[2][3]}	1
	8P			590.EM16003 ^[3]	1
160A	3P	Y5	308x388x128mm	590.EM16005 ^{[2][3]}	1
	3P+N			590.EM16006 ^[3]	1
	6P	Y5	308x388x128mm	590.EM16008 ^{[2][3]}	1
	8P			590.EM16003 ^[3]	1
	3P			590.EM16005 ^{[2][3]}	1
	3P+N			590.EM16006 ^[3]	1

[1] Break-through cable entries

[2] With late break and early make neutral pole

[3] Blank sides

- Handle padlockable in OFF only (3 padlocks)
- Equipped with door interlock

1
INDUSTRY

2

3

4

■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version

ISOLATORS Series

590.



For general use

SWITCH DISCONNECTOR

IP65

GENERAL

Current	Poles	Dimension		
20A			590.GE2021	1/12
32A	1P	82x120x69mm	590.GE3221	1/12
40A			590.GE4021	1/12

- Single pole switch, not suitable to receive door-locking kit.
- Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- Break-through cable entries
- Suitable to switch single phase motor loads or other inductive loads
- Integrated switch

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting [HD] - Engineering plastic version - Heavy Duty

ISOLATORS-HD Series

590.

1

INDUSTRY



For emergency

For general use

SWITCH DISCONNECTOR

IP66

EMERGENCY

GENERAL

Current	Poles	Switch size	Dimension	EMERGENCY		GENERAL	
				590.JEM	1/12	590.JGE	1/12
20A	2P	Y1	226x306x115mm	590.JEM2002	1/12	590.JGE2002	1/12
	3P			590.JEM2003	1/12	590.JGE2003	1/12
	3P+N			590.JEM2005^[1]	1/12	590.JGE2005^[1]	1/12
32A	2P			590.JEM3202	1/12	590.JGE3202	1/12
	3P			590.JEM3203	1/12	590.JGE3203	1/12
	3P+N			590.JEM3205^[1]	1/12	590.JGE3205^[1]	1/12
40A	2P			590.JEM4002	1/12	590.JGE4002	1/12
	3P			590.JEM4003	1/12	590.JGE4003	1/12
	3P+N			590.JEM4005^[1]	1/12	590.JGE4005^[1]	1/12

^[1] With late break and early make neutral pole

- Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- Blank side with drilling point mark



HD
Heavy Duty

■ Enclosed switch disconnectors >> Surface mounting - Aluminium version [16A÷40A] GE

ISOLATORS Series

590.



For general use [SPECIAL]



For general use

Current	Poles	Switch size	Dimension	SWITCH DISCONNECTOR			
				IP65		GENERAL	
16A	6P	Y3	150x210x107mm	590.HEL1606	1/5	590.HGE1606	1/5
	8P			590.HEL1608 ¹	1/5	590.HGE1608 ¹	1/5
20A	2P	Y1	105x150x82mm	590.HEL2002	1/12	590.HGE2002	1/12
	3P			590.HEL2003	1/12	590.HGE2003	1/12
	4P			590.HEL2005 ¹	1/12	590.HGE2005 ¹	1/12
	3P+N						
	6P						
25A	6P	Y3	150x210x107mm	590.HEL2506	1/5	590.HGE2506	1/5
	8P			590.HEL2508 ¹	1/5	590.HGE2508 ¹	1/5
	2P			590.HEL3202	1/12	590.HGE3202	1/12
	3P			590.HEL3203	1/12	590.HGE3203	1/12
	4P			590.HEL3205 ¹	1/12	590.HGE3205 ¹	1/12
32A	6P	Y3	150x210x107mm	590.HEL3206	1/5	590.HGE3206	1/5
	8P			590.HEL3208 ¹	1/5	590.HGE3208 ¹	1/5
	2P			590.HEL4002	1/12	590.HGE4002	1/12
	3P			590.HEL4003	1/12	590.HGE4003	1/12
	4P			590.HEL4005 ¹	1/12	590.HGE4005 ¹	1/12
40A	6P	Y3	150x210x107mm	590.HEL4006	1/5	590.HGE4006	1/5
	8P			590.HEL4008 ¹	1/5	590.HGE4008 ¹	1/5

- ¹ With late break and early make neutral pole
- Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 - Equipped with door interlock
 - Open threaded cable entry with cap / cable sleeve

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting - Aluminium version [16A÷40A] EM

ISOLATORS Series

590.



For emergency switching

SWITCH DISCONNECTOR

IP65

EMERGENCY

Current	Poles	Switch size	Dimension		
16A	6P	Y3	150x210x107mm	590.HEM1606	1/5
	8P			590.HEM1608 ^[1]	1/5
20A	2P	Y1	105x150x82mm	590.HEM2002	1/12
	3P			590.HEM2003	1/12
	4P			590.HEM2004	1/12
	3P+N			590.HEM2005 ^[1]	1/12
	6P			590.HEM2506	1/5
25A	8P	Y3	150x210x107mm	590.HEM2508 ^[1]	1/5
	2P			590.HEM3202	1/12
32A	3P	Y1	105x150x82mm	590.HEM3203	1/12
	4P			590.HEM3204	1/12
	3P+N			590.HEM3205 ^[1]	1/12
	6P			590.HEM3206	1/5
	8P			590.HEM3208 ^[1]	1/5
40A	2P	Y1	105x150x82mm	590.HEM4002	1/12
	3P			590.HEM4003	1/12
	4P			590.HEM4004	1/12
	3P+N			590.HEM4005 ^[1]	1/12
	6P			590.HEM4006	1/5
	8P	Y3	150x210x107mm	590.HEM4008 ^[1]	1/5

- [1] With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Equipped with door interlock
 - Open threaded cable entry with cap / cable sleeve

1
INDUSTRY

2

3

4

■ Enclosed switch disconnectors >> Surface mounting - Aluminium version [63A÷160A] GE

ISOLATORS Series

590.



For general use [SPECIAL]



For general use

				SWITCH DISCONNECTOR			
				IP65			
				GENERAL			
Current	Poles	Switch size	Dimension				
63A	2P	Y2	150x210x107mm	590.HEL6302 ¹	1/5	590.HGE6302 ¹	1/5
	3P			590.HEL6303 ¹	1/5	590.HGE6303 ¹	1/5
	4P			590.HEL6304 ¹	1/5	590.HGE6304 ¹	1/5
	3P+N	Y4	264x315x122mm	590.HEL6305 ^{2 1}	1/5	590.HGE6305 ^{2 1}	1/5
	6P			590.HGE6306	1	590.HGE6306	1
	8P			590.HGE6308 ²	1	590.HGE6308 ²	1
80A	2P	Y2	150x210x107mm	590.HEL8002 ¹	1/5	590.HGE8002 ¹	1/5
	3P			590.HEL8003 ¹	1/5	590.HGE8003 ¹	1/5
	4P			590.HEL8004 ¹	1/5	590.HGE8004 ¹	1/5
	3P+N	Y4	264x315x122mm	590.HEL8005 ^{2 1}	1/5	590.HGE8005 ^{2 1}	1/5
	6P			590.HGE8006 ³	1	590.HGE8006 ³	1
	8P			590.HGE8008 ^{2 3}	1	590.HGE8008 ^{2 3}	1
100A	3P	Y2	150x210x107mm	590.HEL10003 ³	1/5	590.HGE10003 ¹	1/5
	3P+N			590.HEL10005 ^{2 3}	1/5	590.HGE10005 ^{2 1}	1/5
	6P	Y4	264x315x122mm	590.HGE10006 ³	1	590.HGE10006 ³	1
	8P			590.HGE10008 ^{2 3}	1	590.HGE10008 ^{2 3}	1
125A	3P	Y5	315x410x128mm	590.HGE12503 ³	1	590.HGE12503 ³	1
	3P+N			590.HGE12505 ^{2 3}	1	590.HGE12505 ^{2 3}	1
	6P			590.HGE12506 ³	1	590.HGE12506 ³	1
	8P			590.HGE12508 ^{2 3}	1	590.HGE12508 ^{2 3}	1
160A	3P	Y5	315x410x128mm	590.HGE16003 ³	1	590.HGE16003 ³	1
	3P+N			590.HGE16005 ^{2 3}	1	590.HGE16005 ^{2 3}	1
	6P			590.HGE16006 ³	1	590.HGE16006 ³	1
	8P			590.HGE16008 ^{2 3}	1	590.HGE16008 ^{2 3}	1

¹ Open threaded cable entry with cap / cable sleeve

² With late break and early make neutral pole

³ Blank sides

- Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- Equipped with door interlock

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting - Aluminium version [63A÷160A] EM

ISOLATORS Series

590.



For emergency switching

SWITCH DISCONNECTOR

IP65

EMERGENCY

Current	Poles	Switch size	Dimension		
63A	2P	Y2	150x210x107mm	590.HEM6302 ^[1]	1/5
	3P			590.HEM6303 ^[1]	1/5
	4P			590.HEM6304 ^[1]	1/5
	3P+N			590.HEM6305 ^{[2][1]}	1/5
	6P	Y4	264x315x122mm	590.HEM6306 ^[3]	1
8P	590.HEM6308 ^{[2][3]}			1	
80A	2P	Y2	150x210x107mm	590.HEM8002 ^[1]	1/5
	3P			590.HEM8003 ^[1]	1/5
	4P			590.HEM8004 ^[1]	1/5
	3P+N			590.HEM8005 ^{[2][1]}	1/5
	6P	Y4	264x315x122mm	590.HEM8006 ^[3]	1
8P	590.HEM8008 ^{[2][3]}			1	
100A	3P	Y2	150x210x107mm	590.HEM10003 ^[1]	1/5
	3P+N			590.HEM10005 ^{[2][1]}	1/5
	6P	Y4	264x315x122mm	590.HEM10006 ^[3]	1
	8P			590.HEM10008 ^{[2][3]}	1
125A	3P	Y5	315x410x128mm	590.HEM12503 ^[3]	1
	3P+N			590.HEM12505 ^{[2][3]}	1
	6P			590.HEM12506 ^[3]	1
	8P			590.HEM12508 ^{[2][3]}	1
160A	3P	Y5	315x410x128mm	590.HEM16003 ^[3]	1
	3P+N			590.HEM16005 ^{[2][3]}	1
	6P			590.HEM16006 ^[3]	1
	8P			590.HEM16008 ^{[2][3]}	1

[1] Open threaded cable entry with cap / cable sleeve

[2] With late break and early make neutral pole

[3] Blank sides

- Handle padlockable in OFF only (3 padlocks)
- Equipped with door interlock

1

INDUSTRY

2

3

4

Switchgears

ISOLATORS Series



■ Enclosed switch disconnectors >> Surface mounting - Aluminium version [100A÷160A] - High wiring capacity terminals

ISOLATORS Series

590.



For emergency switching



For general use

SWITCH DISCONNECTOR

IP65

EMERGENCY

GENERAL

Current	Poles	Switch size	Dimension	EMERGENCY	GENERAL
100A	3P	K1	264x315x112mm	590.HEM10003.W ^{[5][2]}	590.HGE10003.W ^{[1][2]}
	3P+N			590.HEM10005.W ^{[5][3][2]}	590.HGE10005.W ^{[1][3][2]}
125A	3P	K1	315x410x150mm	590.HEM12503.W ^{[5][4]}	590.HGE12503.W ^{[1][4]}
	3P+N			590.HEM12505.W ^{[5][3][4]}	590.HGE12505.W ^{[1][3][4]}
160A	3P	K2	315x410x150mm	590.HEM16003.W ^{[5][4]}	590.HGE16003.W ^{[1][4]}
	3P+N			590.HEM16005.W ^{[5][3][4]}	590.HGE16005.W ^{[1][3][4]}

[1] Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

[2] Open threaded cable entry with cap / cable sleeve

[3] With late break and early make neutral pole

[4] Blank sides

[5] Handle padlockable in OFF only (3 padlocks)

- Switch and enclosure increased dimensions

1.5



Switchgears

ISOLATORS Series

Enclosed switch disconnectors >> Surface mounting - Stainless steel version

ISOLATORS Series

590.



For emergency switching

For general use

SWITCH DISCONNECTOR

IP65

EMERGENCY

GENERAL

Current	Poles	Switch size	Dimension	EMERGENCY		GENERAL	
				590.SEM	1/12	590.SGE	1/12
16A	6P	Y3	226x306x115mm	590.SEM1606	1/12	590.SGE1606	1/12
	2P			590.SEM2002	1/12	590.SGE2002	1/12
20A	3P	Y1	125x165x90mm	590.SEM2003	1/12	590.SGE2003	1/12
	3P+N			590.SEM2005 ^[1]	1	590.SGE2005 ^[1]	1/12
25A	6P	Y3	226x306x115mm	590.SEM2506	1/12	590.SGE2506	1/12
	2P			590.SEM3202	1/12	590.SGE3202	1/12
32A	3P	Y1	125x165x90mm	590.SEM3203	1/12	590.SGE3203	1/12
	3P+N			590.SEM3205 ^[1]	1	590.SGE3205 ^[1]	1
	6P	Y3	226x306x115mm	590.SEM3206	1/12	590.SGE3206	1/12
40A	2P			590.SEM4002	1/12	590.SGE4002	1/12
	3P	Y1	125x165x90mm	590.SEM4003	1/12	590.SGE4003	1
	3P+N			590.SEM4005 ^[1]	1/12	590.SGE4005 ^[1]	1/12
63A	6P	Y3	226x306x115mm	590.SEM4006	1/12	590.SGE4006	1
	3P		176x226x90mm	590.SEM6303	1/5	590.SGE6303	1
	3P+N			590.SEM6305 ^[1]	1/5	590.SGE6305 ^[1]	1
80A	6P		226x306x115mm	590.SEM6306	1/5	590.SGE6306	1/5
	3P	Y4	176x226x90mm	590.SEM8003	1/5	590.SGE8003	1/5
	3P+N			590.SEM8005 ^[1]	1/5	590.SGE8005 ^[1]	1/5
100A	6P		226x306x115mm	590.SEM8006	1/5	590.SGE8006	1/5
	3P		176x226x90mm	590.SEM10003	1/5	590.SGE10003	1/5
	3P+N			590.SEM10005 ^[1]	1/5	590.SGE10005 ^[1]	1/5
125A	6P		226x306x115mm	590.SEM10006	1/5	590.SGE10006	1
	3P			590.SEM12503	1/5	590.SGE12503	1/5
	3P+N			590.SEM12505 ^[1]	1/5	590.SGE12505 ^[1]	1/5
160A	6P	Y5	312x412x115mm	590.SEM12506	1/5	590.SGE12506	1/5
	3P			590.SEM16003	1	590.SGE16003	1
	3P+N			590.SEM16005 ^[1]	1	590.SGE16005 ^[1]	1
	6P			590.SEM16006	1	590.SGE16006	1

^[1] With late break and early make neutral pole

- Handle padlockable in OFF only (3 padlocks)
- Equipped with door interlock
- Blank sides

1
INDUSTRY

2

3

4

■ Enclosed switch disconnectors >> Surface mounting - Metal version (HR) - High Rating

ISOLATORS Series

590.



For general use [TOP/
BOTTOM]

For emergency switching
[TOP/BOTTOM]

SWITCH DISCONNECTOR

IP65

GENERAL

EMERGENCY

Current	Poles	Switch size	Dimension	GENERAL	EMERGENCY
160A	3P	K2	500x300x150mm	590.KGE16003 ¹	590.KEM16003 ¹
	3P+N			590.KGE16005 ^{2 1}	590.KEM16005 ^{2 1}
200A	3P	K2	300x500x150mm	590.KGE20003 ¹	590.KEM20003 ¹
	3P+N			590.KGE20005 ^{2 1}	590.KEM20005 ^{2 1}
250A	3P	K2	300x500x150mm	590.KGE25003 ¹	590.KEM25003 ¹
	3P+N			590.KGE25005 ^{2 1}	590.KEM25005 ^{2 1}
315A	3P	K3	400x600x200mm	590.KGE31503 ¹	590.KEM31503 ¹
	3P+N			590.KGE31505 ^{2 1}	590.KEM31505 ^{2 1}
400A	3P	K3	400x600x200mm	590.KGE40003 ¹	590.KEM40003 ¹
	3P+N			590.KGE40005 ^{2 1}	590.KEM40005 ^{2 1}
500A	3P	K3	400x600x200mm	590.KGE50003 ¹	590.KEM50003 ¹
	3P+N			590.KGE50005 ^{2 1}	590.KEM50005 ^{2 1}
630A	3P	K4	500x700x250mm	590.KGE63003 ¹	590.KEM63003 ¹
	3P+N			590.KGE63005 ^{2 1}	590.KEM63005 ^{2 1}
800A	3P	K4	500x700x250mm	590.KGE80003 ¹	590.KEM80003 ¹
	3P+N			590.KGE80005 ^{2 1}	590.KEM80005 ^{2 1}
1000A	3P	K5	500x700x250mm	590.KGE100003 ¹	590.KEM100003 ¹
	3P+N			590.KGE100005 ^{2 1}	590.KEM100005 ^{2 1}
1250A	3P	K5	500x700x250mm	590.KGE125003 ¹	590.KEM125003 ¹
	3P+N			590.KGE125005 ^{2 1}	590.KEM125005 ^{2 1}
1600A	3P	K6	600x1000x300mm	590.KGE160003 ³	590.KEM160003 ³
	3P+N			590.KGE160005 ^{2 3}	590.KEM160005 ^{2 3}

¹ Full current neutral pole up to 1250A

² With late break and early make neutral pole

³ Neutral pole 1250A. Full current neutral pole on request.

- Handle padlockable in OFF only (3 padlocks)
- TOP/BOTTOM = Top/Bottom connection
- Equipped with door interlock
- Gland plate cable entry

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnectors >> Surface mounting - Metal version (HR) - High Rating

ISOLATORS Series

590.



For general use
[BOTTOM/BOTTOM]

SWITCH DISCONNECTOR

IP65

GENERAL

Current	Poles	Switch size	Dimension		
160A	3P	K2	500x300x150mm	590.KGE16003B ^[1]	1
	3P+N			590.KGE16005B ^{[2][1]}	1
200A	3P	K2	300x500x150mm	590.KGE20003B ^[1]	1
	3P+N			590.KGE20005B ^{[2][1]}	1
250A	3P	K2	300x500x150mm	590.KGE25003B ^[1]	1
	3P+N			590.KGE25005B ^{[2][1]}	1
315A	3P	K3	400x600x200mm	590.KGE31503B ^[1]	1
	3P+N			590.KGE31505B ^{[2][1]}	1
400A	3P	K3	400x600x200mm	590.KGE40003B ^[1]	1
	3P+N			590.KGE40005B ^{[2][1]}	1
500A	3P	K3	500x700x250mm	590.KGE50003B ^[1]	1
	3P+N			590.KGE50005B ^{[2][1]}	1
630A	3P	K4	800x800x300mm	590.KGE63003B ^[1]	1
	3P+N			590.KGE63005B ^{[2][1]}	1
800A	3P	K4	800x800x300mm	590.KGE80003B ^[1]	1
	3P+N			590.KGE80005B ^{[2][1]}	1
1000A	3P	K5	1000x1000x300mm	590.KGE100003B ^[1]	1
	3P+N			590.KGE100005B ^{[2][1]}	1
1250A	3P	K5	1000x1000x300mm	590.KGE125003B ^[1]	1
	3P+N			590.KGE125005B ^{[2][1]}	1
1600A	3P	K6	1000x1000x300mm	590.KGE160003B ^[3]	1
	3P+N			590.KGE160005B ^{[2][3]}	1

[1] Full current neutral pole up to 1250A

[2] With late break and early make neutral pole

[3] Neutral pole 1250A. Full current neutral pole on request.

- Handle padlockable in OFF only (3 padlocks)
- BOTTOM/BOTTOM = Bottom/Bottom connection with busbar
- Equipped with door interlock
- Gland plate cable entry

1

INDUSTRY

2

3

4

Switchgears
ISOLATORS Series



■ Enclosed switch disconnectors >> Surface mounting - Thermoplastic version [DC]

ISOLATORS Series

590.



For general use [DC]

SWITCH DISCONNECTOR

IP55

IP65

GENERAL

Current	Poles	Poles in series	Switch size	Dimension		
15A	DC	3	Y1	105x150x127mm	590.DCGE0815 [1][2]	1/10
16A		4		105x150x98mm	590.DCGE0416 [1][2]	1/12
20A		5	Y3	105x150x127mm	590.DCGE0820 [1][2]	1/10
25A		6		155x210x122mm	590.DCGE0825 [1][2]	1/5
30A		8			590.DCGE0830 [1][2]	1/5
40A				Y5	228x308x173mm	590.DCGE0840 [3][4]

[1] Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

[2] Break-through cable entries

[3] Handle padlockable in OFF only (3 padlocks)

[4] Blank sides

- Equipped with door interlock

1.5



Switchgears

ISOLATORS Series

Enclosed switch disconnecter [FUSES] >> Surface mounting - Thermoplastic version

ISOLATORS Series

590.



For emergency

For general use

SWITCH DISCONNECTOR

IP55

EMERGENCY

GENERAL

Current	Poles	Switch size	Fuse type	Dimension	EMERGENCY	GENERAL
16A	2P	F1	gG 10,3x38mm	190x240x125mm	590.EMF1602	590.GEF1602
	3P				590.EMF1603	590.GEF1603
	4P				590.EMF1604	590.GEF1604
	3P+N				590.EMF1605 ^[1]	590.GEF1605 ^[1]
32A	2P	F1	gG 10,3x38mm	190x240x125mm	590.EMF3202	590.GEF3202
	3P				590.EMF3203	590.GEF3203
	4P				590.EMF3204	590.GEF3204
	3P+N				590.EMF3205 ^[1]	590.GEF3205 ^[1]
63A	3P	KF1	DIN-HN	300x380x170mm	590.EMD6303	590.GED6303
			BS		590.EMB6303	590.GEB6303
	3P+N		DIN-HN		590.EMD6305 ^[1]	590.GED6305 ^[1]
			BS		590.EMB6305 ^[1]	590.GEB6305 ^[1]
80A	3P	KF1	DIN-HN	300x380x170mm	590.EMD8003	590.GED8003
			BS		590.EMB8003	590.GEB8003
	3P+N		DIN-HN		590.EMD8005 ^[1]	590.GED8005 ^[1]
			BS		590.EMB8005 ^[1]	590.GEB8005 ^[1]
100A	3P	KF2	DIN-HN	370x450x180mm	590.EMD10003	590.GED10003
			BS		590.EMB10003	590.GEB10003
	3P+N		DIN-HN		590.EMD10005 ^[1]	590.GED10005 ^[1]
			BS		590.EMB10005 ^[1]	590.GEB10005 ^[1]
125A	3P	KF2	DIN-HN	370x450x180mm	590.EMD12503	590.GED12503
			BS		590.EMB12503	590.GEB12503
	3P+N		DIN-HN		590.EMD12505 ^[1]	590.GED12505 ^[1]
			BS		590.EMB12505 ^[1]	590.GEB12505 ^[1]
160A	3P	KF2	DIN-HN	370x450x180mm	590.EMD16003	590.GED16003
			BS		590.EMB16003	590.GEB16003
	3P+N		DIN-HN		590.EMD16005 ^[1]	590.GED16005 ^[1]
			BS		590.EMB16005 ^[1]	590.GEB16005 ^[1]

[1] With late break and early make neutral pole

- Handle padlockable in OFF only (3 padlocks)
- Equipped with door interlock
- Blank sides

1

INDUSTRY

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4

Switchgears

ISOLATORS Series



Enclosed switch disconnecter [FUSES] >> Surface mounting - Aluminium version

ISOLATORS Series

590.



For emergency switching



For general use

Current	Poles	Switch size	Fuse type	Dimension	SWITCH DISCONNECTOR	
					IP65	
					EMERGENCY	GENERAL
16A	2P	F1	gG 10,3x38mm	217x253x93mm	590.HEMF1602	590.HGEF1602
	3P				590.HEMF1603	590.HGEF1603
	4P				590.HEMF1604	590.HGEF1604
	3P+N				590.HEMF1605¹	590.HGEF1605¹
32A	2P	KF1	gG 10,3x38mm	217x253x93mm	590.HEMF3202	590.HGEF3202
	3P				590.HEMF3203	590.HGEF3203
	4P				590.HEMF3204	590.HGEF3204
	3P+N				590.HEMF3205¹	590.HGEF3205¹
63A	3P	KF1	DIN-HN	315x410x128mm	590.HEMD6303	590.HGED6303
			BS		590.HEMB6303	590.HGEB6303
	3P+N		DIN-HN		590.HEMD6305¹	590.HGED6305¹
			BS		590.HEMB6305¹	590.HGEB6305¹
80A	3P	KF1	DIN-HN	315x410x128mm	590.HEMD8003	590.HGED8003
			BS		590.HEMB8003	590.HGEB8003
	3P+N		DIN-HN		590.HEMD8005¹	590.HGED8005¹
			BS		590.HEMB8005¹	590.HGEB8005¹

- ¹ With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Equipped with door interlock
 - Blank sides

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnecter [FUSES] >> Surface mounting - Metal version (HR) - High Rating [Fuse DIN-NH]

ISOLATORS Series

590.



For general use [TOP/
BOTTOM]

For emergency switching
[TOP/BOTTOM]

SWITCH DISCONNECTOR

IP65

GENERAL

EMERGENCY

Current	Poles	Switch size	Fuse type	Dimension	GENERAL	EMERGENCY
100A	3P	KF2	DIN-HN	300x500x200mm	590.KGED10003	590.KEMD10003
	3P+N				590.KGED10005 ^[1]	590.KEMD10005 ^[1]
125A	3P	KF2	DIN-HN	300x500x200mm	590.KGED12503	590.KEMD12503
	3P+N				590.KGED12505 ^[1]	590.KEMD12505 ^[1]
160A	3P	KF2	DIN-HN	300x500x200mm	590.KGED16003	590.KEMD16003
	3P+N				590.KGED16005 ^[1]	590.KEMD16005 ^[1]
200A	3P	KF3	DIN-HN	400x600x200mm	590.KGED20003	590.KEMD20003
	3P+N				590.KGED20005 ^[1]	590.KEMD20005 ^[1]
250A	3P	KF3	DIN-HN	400x600x200mm	590.KGED25003	590.KEMD25003
	3P+N				590.KGED25005 ^[1]	590.KEMD25005 ^[1]
315A	3P	KF4	DIN-HN	500x700x250mm	590.KGED31503	590.KEMD31503
	3P+N				590.KGED31505 ^[1]	590.KEMD31505 ^[1]
400A	3P	KF4	DIN-HN	500x700x250mm	590.KGED40003	590.KEMD40003
	3P+N				590.KGED40005 ^[1]	590.KEMD40005 ^[1]
630A	3P	KF5	DIN-HN	600x800x300mm	590.KGED63003	590.KEMD63003
	3P+N				590.KGED63005 ^[1]	590.KEMD63005 ^[1]

^[1] With late break and early make neutral pole

- Handle padlockable in OFF only (3 padlocks)
- TOP/BOTTOM = Top/Bottom connection
- Equipped with door interlock
- Gland plate cable entry

1

INDUSTRY

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3

4

■ Enclosed switch disconnecter [FUSES] >> Surface mounting - Metal version (HR) - High Rating [Fuse BS]

ISOLATORS Series

590.



For general use [TOP/
BOTTOM]

For emergency switching
[TOP/BOTTOM]

SWITCH DISCONNECTOR

IP65

GENERAL

EMERGENCY

Current	Poles	Switch size	Fuse type	Dimension	SWITCH DISCONNECTOR	
					GENERAL	EMERGENCY
100A	3P	KF2	BS	300x500x200mm	590.KGEB10003	590.KEMB10003
	3P+N				590.KGEB10005 ¹	590.KEMB10005 ¹
125A	3P	KF2	BS	300x500x200mm	590.KGEB12503	590.KEMB12503
	3P+N				590.KGEB12505 ¹	590.KEMB12505 ¹
160A	3P	KF2	BS	300x500x200mm	590.KGEB16003	590.KEMB16003
	3P+N				590.KGEB16005 ¹	590.KEMB16005 ¹
200A	3P	KF3	BS	400x600x200mm	590.KGEB20003	590.KEMB20003
	3P+N				590.KGEB20005 ¹	590.KEMB20005 ¹
250A	3P	KF3	BS	400x600x200mm	590.KGEB25003	590.KEMB25003
	3P+N				590.KGEB25005 ¹	590.KEMB25005 ¹
315A	3P	KF4	BS	500x700x250mm	590.KGEB31503	590.KEMB31503
	3P+N				590.KGEB31505 ¹	590.KEMB31505 ¹
400A	3P	KF4	BS	500x700x250mm	590.KGEB40003	590.KEMB40003
	3P+N				590.KGEB40005 ¹	590.KEMB40005 ¹
630A	3P	KF5	BS	600x800x300mm	590.KGEB63003	590.KEMB63003
	3P+N				590.KGEB63005 ¹	590.KEMB63005 ¹

- ¹ With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - TOP/BOTTOM = Top/Bottom connection
 - Equipped with door interlock
 - Gland plate cable entry

1.5



Switchgears

ISOLATORS Series

■ Enclosed switch disconnecter [FUSES] >> Surface mounting - Metal version (HR) - High Rating

ISOLATORS Series

590.



For general use
[BOTTOM/BOTTOM]

SWITCH DISCONNECTOR

IP65

GENERAL

Current	Poles	Switch size	Fuse type	Dimension	
100A	3P	KF1	DIN-HN	300x500x200mm	590.KGED10003B
			BS		590.KGEB10003B
	3P+N		DIN-HN		590.KGED10005B ^[1]
			BS		590.KGEB10005B ^[1]
125A	3P		DIN-HN		590.KGED12503B
			BS		590.KGEB12503B
	3P+N		DIN-HN		590.KGED12505B ^[1]
			BS		590.KGEB12505B ^[1]
160A	3P	DIN-HN	590.KGED16003B		
		BS	590.KGEB16003B		
	3P+N	DIN-HN	590.KGED16005B ^[1] 1		
		BS	590.KGEB16005B ^[1]		
200A	3P	KF2	DIN-HN	400x600x250mm	590.KGED20003B
			BS		590.KGEB20003B
	3P+N		DIN-HN		590.KGED20005B ^[1]
			BS		590.KGEB20005B ^[1]
250A	3P		DIN-HN		590.KGED25003B
			BS		590.KGEB25003B
	3P+N		DIN-HN		590.KGED25005B ^[1] 1
			BS		590.KGEB25005B ^[1]

^[1] With late break and early make neutral pole

- Handle padlockable in OFF only (3 padlocks)
- BOTTOM/BOTTOM = Bottom/Bottom connection with busbar
- Equipped with door interlock
- Gland plate cable entry



I-O-II
Change-Over Switches [I-O-II]

■ Enclosed change-over switch disconnectors >> Surface mounting - Thermoplastic version

ISOLATORS Series

590.



For general use [I-O-II]

ENCLOSED CHANGE OVER SWITCH

IP55

IP65

GENERAL

Current	Poles	Switch size	Dimension				
16A	3P	C1	155x210x107mm		590.GE1603-C ⁵ ⁶ 1/5		
	3P+N				590.GE1605-C ⁵ ⁴ ⁶ 1/5		
25A	3P				590.GE2503-C ⁵ ⁶ 1/5		
	3P+N				590.GE2505-C ⁵ ⁴ ⁶ 1/5		
32A	3P				590.GE3203-C ⁵ ⁶ 1/5		
	3P+N				590.GE3205-C ⁵ ⁴ ⁶ 1/5		
40A	3P				590.GE4003-C ⁵ ⁶ 1/5		
	3P+N				590.GE4005-C ⁵ ⁴ ⁶ 1/5		
63A	3P			C2	228x308x128mm		590.GE6303-C ¹ ² ³ 1
	3P+N						590.GE6305-C ¹ ² ⁴ ³ 1
80A	3P						590.GE8003-C ¹ ² ³ 1
	3P+N						590.GE8005-C ¹ ² ⁴ ³ 1
100A	3P		590.GE10003-C ¹ ² ³ 1				
	3P+N		590.GE10005-C ¹ ² ⁴ ³ 1				
125A	3P	C3	308x388x128mm				590.GE12503-C ¹ ² ³ 1
	3P+N						590.GE12505-C ¹ ² ⁴ ³ 1
160A	3P						590.GE16003-C ¹ ² ³ 1
	3P+N						590.GE16005-C ¹ ² ⁴ ³ 1

- ¹ Handle padlockable in OFF only (3 padlocks)
- ² Equipped with door interlock
- ³ Blank sides
- ⁴ With late break and early make neutral pole
- ⁵ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- ⁶ Break-through cable entries

1.5



Switchgears

ISOLATORS Series

■ Enclosed change-over switch disconnectors >> Surface mounting - Aluminium version

ISOLATORS Series

590.



For general use [I-O-II]

ENCLOSED CHANGE OVER SWITCH

IP65

GENERAL

Current	Poles	Switch size	Dimension				
16A	3P	C1	150x210x107mm	590.HGE1603-C ^{[5][6]}	1/5		
	3P+N			590.HGE1605-C ^{[5][4][6]}	1/5		
25A	3P			590.HGE2503-C ^{[5][6]}	1/5		
	3P+N			590.HGE2505-C ^{[5][4][6]}	1/5		
32A	3P			590.HGE3203-C ^{[5][6]}	1/5		
	3P+N			590.HGE3205-C ^{[5][4][6]}	1/5		
40A	3P			590.HGE4003-C ^{[5][6]}	1/5		
	3P+N			590.HGE4005-C ^{[5][4][6]}	1/5		
63A	3P			C2	264x315x122mm	590.HGE6303-C ^{[1][2][3]}	1
	3P+N					590.HGE6305-C ^{[1][2][4][3]}	1
80A	3P					590.HGE8003-C ^{[1][2][3]}	1
	3P+N					590.HGE8005-C ^{[1][2][4][3]}	1
100A	3P	590.HGE10003-C ^{[1][2][3]}	1				
	3P+N	590.HGE10005-C ^{[1][2][4][3]}	1				
125A	3P	C3	315x410x128mm	590.HGE12503-C ^{[1][2][3]}	1		
	3P+N			590.HGE12505-C ^{[1][2][4][3]}	1		
160A	3P			590.HGE16003-C ^{[1][2][3]}	1		
	3P+N			590.HGE16005-C ^{[1][2][4][3]}	1		

- [1] Handle padlockable in OFF only (3 padlocks)
- [2] Equipped with door interlock
- [3] Blank sides
- [4] With late break and early make neutral pole
- [5] Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
- [6] Open threaded cable entry with cap / cable sleeve



I-O-II
Change-Over Switches [I-O-II]

■ Enclosed change-over switch disconnectors >> Surface mounting - Stainless steel version

ISOLATORS Series

590.



For general use [I-O-II]

ENCLOSED CHANGE OVER SWITCH

IP65

GENERAL

Current	Poles	Switch size	Dimension	Model	Lead time	
16A	3P	C1	226x306x115mm	590.SGE1603-C	1/12	
	3P+N			590.SGE1605-C¹	1/12	
25A	3P			590.SGE2503-C	1/12	
	3P+N			590.SGE2505-C¹	1/12	
32A	3P			590.SGE3203-C	1/12	
	3P+N			590.SGE3205-C¹	1/12	
40A	3P		590.SGE4003-C	1/12		
	3P+N		590.SGE4005-C¹	1/12		
63A	3P		590.SGE6303-C	1/12		
	3P+N		590.SGE6305-C¹	1/12		
80A	3P		C2	312x412x115mm	590.SGE8003-C	1/12
	3P+N				590.SGE8005-C¹	1/12
100A	3P	590.SGE10003-C			1/12	
	3P+N	590.SGE10005-C¹			1/12	
125A	3P	590.SGE12503-C			1/12	
	3P+N	590.SGE12505-C¹			1/12	
160A	3P	590.SGE16003-C	1/12			
	3P+N	590.SGE16005-C¹	1/12			

- ¹ With late break and early make neutral pole
- Handle padlockable in OFF only (3 padlocks)
 - Equipped with door interlock
 - Blank sides

1.5



Switchgears

ISOLATORS Series

Switch-disconnectors IP65

ISOLATORS Series

590.



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INDUSTRY

Description	Switch size	Suitable for	Accessoires: dook-locking	
DOOR-LOCKING KIT	Y1	THERMOPLASTIC ENCLOSURES	590.BK040	12
		ALUMINIUM ENCLOSURES	590.BK040H	12
	Y2	THERMOPLASTIC ENCLOSURES	590.BK080	5
		ALUMINIUM ENCLOSURES	590.BK080H	5

2



3

4

TOP22 Series

590.



Description	Colour	Switch size	Contact blocks	
NC CONTACT		Y1	590.PL004001 ^[1]	10/60
		Y2	590.PL004003 ^[1]	10
NO CONTACT		Y1	590.PL004002 ^[2]	10/60
		Y2	590.PL004004 ^[2]	10

[1] NC=Normally closed

[2] NO=Normally open

- Snap catch

■ **Switch-disconnectors IP65**

TOP22 Series

590.



Description	Switch size	Notes	Contact blocks
CHANGE OVER CONTACT	Y3 Y4 Y5 C1 C2 C3	15A 250V~ - 10A 415V~	590.PL005 50
- Break before main contacts			

TOP22 Series

590.



Description	Switch size	Contact blocks
AUXILIARY CONTACT 1NA+1NC	KF1 KF2 K2	590.PL006011 10
	KF3 KF5 K3 K5 K6	590.PL006012 10
	KF4 K4	590.PL006013 10
AUXILIARY CONTACT 2NA+2NC	KF1 KF2 K2	590.PL006021 10
	KF3 KF5 K3 K5 K6	590.PL006022 10
	KF4 K4	590.PL006023 10

- Break before main contacts

1.5



Switchgears

ISOLATORS Series

Switch-disconnectors IP65

COMMAND Series

590.



1

INDUSTRY

2

3

4

Description	Switch size	Suitable for	Terminal protection cover	
TERMINAL PROTECTION COVER	KF1	TOP TERMINALS	590.KMT11	10
		BOTTOM TERMINALS	590.KMT12	10
	KF2 K2	TOP TERMINALS	590.KMT21	10
		BOTTOM TERMINALS	590.KMT22	10
	KF3 K3	TOP TERMINALS	590.KMT31	10
		BOTTOM TERMINALS	590.KMT32	10
	KF4 K4	TOP TERMINALS	590.KMT41	10
		BOTTOM TERMINALS	590.KMT42	10
	KF5 K5	TOP TERMINALS	590.KMT51	10
		BOTTOM TERMINALS	590.KMT52	10

■ Auxiliary control equipments >> Push buttons

TOP22 Series

590.



Description	Version	Colour	Push buttons - Flush button
PUSH BUTTON	FLUSH		590.PPRN5 1/10
			590.PPRN8 1/10
			590.PPRN1 1/10
			590.PPRN2 1/10

- Fixing by metal ring nut-hole diameter 22mm.
- Clamping of the baseplate to the equipment by swing lever.
- Provided with contact carrier base plate.

TOP22 Series

590.



Description	Version	Colour	Push buttons - Protruding button
PUSH BUTTON	PROTRUDING		590.PPSN8 1/10
			590.PPSN1 1/10

1.5



Switchgears

TOP22 Series

Auxiliary control equipments >> Push buttons

TOP22 Series

590.



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INDUSTRY

Description	Version	Colour	Push buttons - Illuminated flush button	
PUSH BUTTON	ILLUMINATED FLUSH		590.PPRL5	1/10
			590.PPRL2	1/10

2

3

4

- Fixing by metal ring nut-hole diameter 22mm.
- Clamping of the baseplate to the equipment by swing lever.
- Provided with contact carrier base plate.

TOP22 Series

590.



Description	Version	Colour	Ø	Mushroom-head emergency push buttons	
EMERGENCY PUSH BUTTON	RELEASE BY ROTATION		ø40mm	590.PPFN1R4N	1/10
			ø60mm	590.PPFN1R6N	1/10
	RELEASE BY KEY		ø40mm	590.PPFN1C4N	1/10
	WITHOUT LOCKING			590.PPFN1M4N	1/10

- According to EN60418

Switchgears TOP22 Series



Auxiliary control equipments >> Selectors

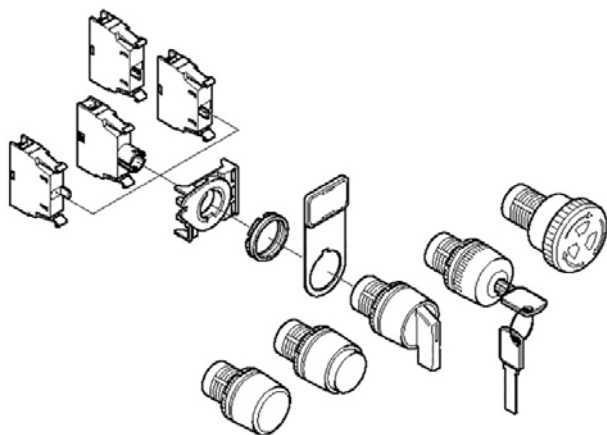
TOP22 Series

590.



Description	Version	Colour	Selectors - Key selectors	Selectors - Lever selectors
LEVER SELECTOR	2 PULSE POSITIONS	■		590.PSLN8D2 1/10
	2 STEADY POSITIONS			590.PSLN8D0 1/10
	3 PULSE POSITIONS			590.PSLN8T3 1/10
	3 STEADY POSITIONS			590.PSLN8T0 1/10
KEY SELECTOR	2 STEADY POSITIONS		590.PSCR8DOC ^[1] 10	
	3 STEADY POSITIONS		590.PSCR8TOC ^[1] 10	

[1] Key drawing when on "zero" position



1.5



Switchgears

TOP22 Series

Auxiliary control equipments

TOP22 Series

590.



1
INDUSTRY

Description	Colour	Ø	Notes	Enbloc pilot lamps (LED 220V)	
PILOT LAMP		ø22mm	LED	590.PLML5L220	10
				590.PLML4L220	10
				590.PLML1L220	10
				590.PLML2L220	10
				590.PLML3L220	10

TOP22 Series

590.



Description	Colour	Switch size	Contact blocks	
LAMPHOLDER			590.PL004007 ³	10/60
NC CONTACT		Y1	590.PL004001 ¹	10/60
NO CONTACT			590.PL004002 ²	10/60

¹ NC=Normally closed

² NO=Normally open

³ Maximum direct power supply 250V with max 2W bulbs.

- Snap catch

Switchgears

TOP22 Series



Auxiliary control equipments

	TOP22 Series 590.
--	----------------------



Description	Accessories
PIN WRENCH	590.PCF 10

	TOP22 Series 590.
--	----------------------



Description	Colour	Accessories
LEGEND PLATE		590.PPTN8 10/100

	TOP22 Series 590.
--	----------------------



Description	Accessories
NEUTRAL LABEL	590.PTA00 10/100

1.5



Switchgears

TOP22 Series

Auxiliary control equipments

TOP22 Series

590.



Description

Colour

Notes

Accessories

Description	Colour	Notes	Accessories
EMERGENCY MARKER		ENG	590.PTE/A 10/100
		ITA	590.PTE/I 10/100

TOP22 Series

590.



Description

Colour

Ø

Accessories

Description	Colour	Ø	Accessories
CAP		ø22mm	590.PTRN8 10/100

ENCLOSURES ACCESSORIES

654.



Description

Flange

Suitable for

Colour

IP

Blank plates

Description	Flange	Suitable for	Colour	IP	Blank plates
CUT-OUT PLATE	70x87mm	1 x TOP22		IP66	654.0101Y 25
		2 x TOP22			654.0101 25

- With gasket
- For components TOP22 Series.

Switchgears TOP22 Series



Control stations

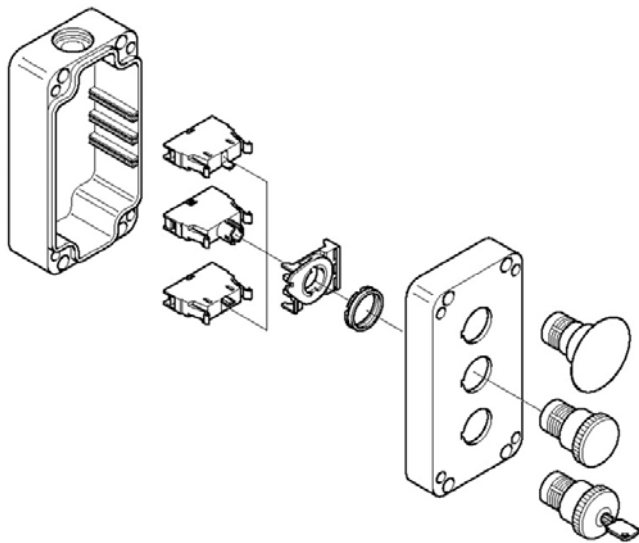
TOP22 Series

590.



Description	IP	Colour	No. of places	Enclosures
ENCLOSURE	IP65		1 MOD.	590.PR01K 1/12
			2 MOD.	590.PR02K 1/10
			3 MOD.	590.PR03K 1/10
			4 MOD.	590.PR04K
			6 MOD.	590.PR06K

- Empty enclosures for auxiliary control equipment.



1.5



Switchgears

TOP22 Series

Control stations

1
INDUSTRY

TOP22 Series

590.



Complete push-button panel

COMPLETE PUSH BUTTON PANEL

IP65

No. of places

No. of places	Model	Quantity
1 MOD.	590.PR01RN8	1/12
2 MOD.	590.PR02A	1/10
3 MOD.	590.PR03A	1/10

- Enclosures complete with control and indicator lamp.

TOP22 Series

590.



Push-button panel [Ø60-90mm]

COMPLETE PUSH BUTTON PANEL

EMERGENCY PUSH BUTTON

IP65

RELEASE BY ROTATION

UNSTABLE

No. of places Ø

No. of places	Ø	Model	Quantity
1 MOD.	Ø60mm	590.PR01R6N ^{[1][2]}	12
	Ø90mm	590.PG8M9W10 ^{[4][5]}	12
		590.PG1M9W01 ^{[1][2][3]}	12

[1] Supplied with 1 NC contact block.

[2] Mushroom push-buttons for emergency stop

[3] Spring terminals

[4] Enclosures complete with control and indicator lamp.

[5] Supplied with 1 NO contact block.

Switchgears TOP22 Series



Control stations

TOP22 Series

590.



Emergency push-button
panel

EMERGENCY PUSH BUTTON

IP65

No. of places	Notes	RELEASE BY KEY		RELEASE BY ROTATION			
		590.PRO1C4N	1/12	590.PRO1R4N	1/12	590.PRO1R4S	1/12
1 MOD.	VISUAL SIGNAL						

- Supplied with 1 NC contact block.
- Mushroom push-buttons for emergency stop

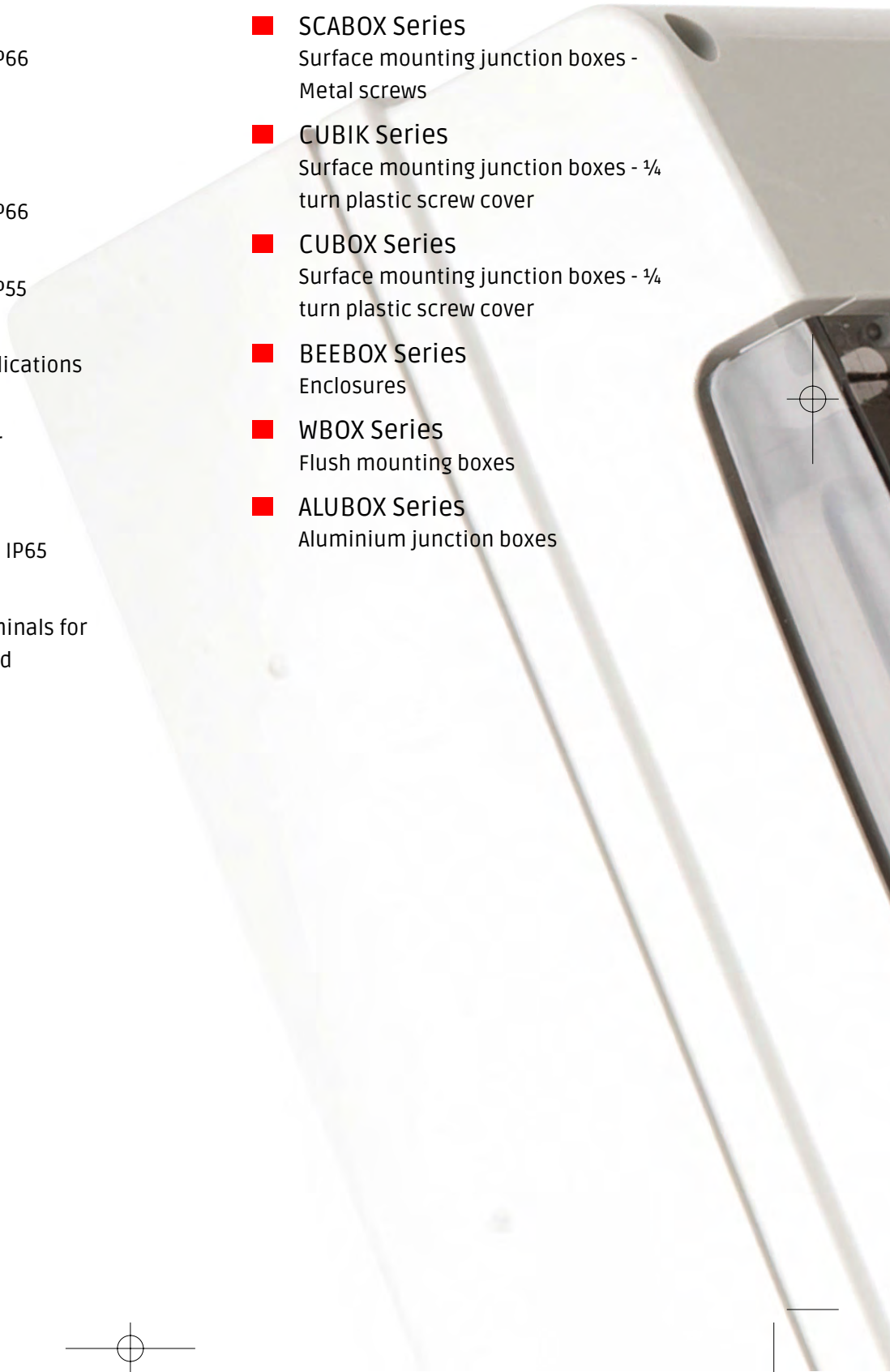
1.5



1.6

Empty enclosures

- **DOMINO IP66 Series**
Consumer units and enclosures
- **DOMINO IP40 Series**
Consumer units
- **DOMINO System**
Distribution assemblies - IP66
- **FLAT Series**
Enclosures
- **BLOCK Series**
Distribution assemblies - IP66
- **ENERBOX Series**
Distribution assemblies - IP55
- **ADAPTO Series**
Adaptors for industrial applications
- **MBOX Series**
Distribution assemblies for construction site
- **EASYBOX Series**
Weather-proof enclosures - IP65
- **KIOSK Series**
Distribution pedestals terminals for campsites, public areas and marinas
- **GOMMA Series**
Rubber distribution assemblies
- **EMERGENCY Series**
Emergency switchboards
- **SCABOX Series**
Surface mounting junction boxes - Metal screws
- **CUBIK Series**
Surface mounting junction boxes - ¼ turn plastic screw cover
- **CUBOX Series**
Surface mounting junction boxes - ¼ turn plastic screw cover
- **BEEBOX Series**
Enclosures
- **WBOX Series**
Flush mounting boxes
- **ALUBOX Series**
Aluminium junction boxes





Empty enclosures DOMINO IP66 Series

■ Consumer units IP66 >> M135

DOMINO IP66 Series [enclosure]

672.



2 DIN

CONSUMER UNIT

SURFACE MOUNTING

IP66

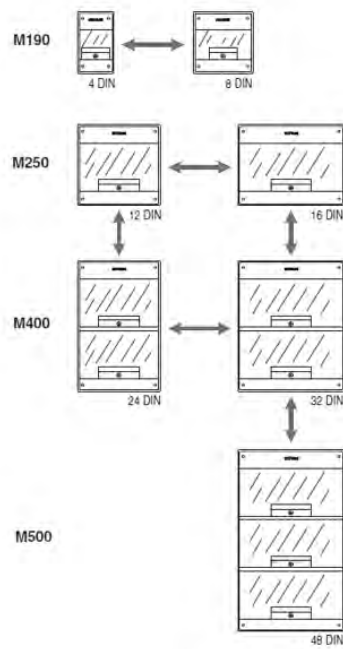
672.2002

1/24

Modularity	No. Modules	Dimension	Power
M135	2 MOD.	135x76x102mm	6W

- Power dissipation calculated in conformity with CEI 23-49 italian standards

DOMINO IP66 Series
Modularity



Empty enclosures DOMINO IP66 Series



■ Consumer units IP66 >> M190

DOMINO IP66 Series [enclosure]

672.



4 DIN



8 DIN

CONSUMER UNIT

SURFACE MOUNTING

Modularity	No. Modules	Dimension	Power	IP66	
M190	4 MOD.	190x112x106mm	10W	672.2004	1/16
	8 MOD.	190x184x106mm	14W	672.2008 672.2008.1101 ¹	1/10 1/10

¹.1101: tinted window (standard) + with label + with triangular key + with IP00 connection device 1(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

■ Consumer units IP66 >> M250

DOMINO IP66 Series [enclosure]

672.



12 DIN



16 DIN

CONSUMER UNIT

SURFACE MOUNTING

Modularity	No. Modules	Dimension	Power	IP66	
M250	12 MOD.	250x256x140mm	22W	672.2012 672.2012.1101 ¹	1/9 1/9
	16 MOD.	250x328x140mm	28W	672.2016 672.2016.1101 ¹	1/6 1/6

¹.1101: tinted window (standard) + with label + with triangular key + with IP00 connection device 1(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

1.6



Empty enclosures DOMINO IP66 Series

Consumer units IP66 >> M400

1
INDUSTRY

DOMINO IP66 Series [enclosure]

672.



24 DIN



32 DIN

CONSUMER UNIT

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M400	24 MOD.	400x256x140mm	30W	672.4024	1/6
				672.4024.1102 ^[1]	1/6
	32 MOD.	400x328x140mm	47W		672.4032 1/4
					672.4032.1102 ^[1] 1/4

[1] .1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

Consumer units IP66 >> M550

DOMINO IP66 Series [enclosure]

672.



48 DIN

CONSUMER UNIT

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M550	48 MOD.	550x328x140mm	54W	672.5048	1/3
				672.5048.1102 ^[1]	1/3

[1] .1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

Empty enclosures DOMINO IP66 Series



■ Consumer units IP66 >> M700

DOMINO IP66 Series [enclosure]

672.



64 DIN

CONSUMER UNIT

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M700	64 MOD.	700x328x140mm	60W	672.7064	1
				672.7064.1102 ¹	1

¹.1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

1.6



Empty enclosures DOMINO IP66 Series

■ Modular enclosures - IP66 >> Enclosures with blank front panel >> M150

DOMINO IP66 Series [enclosure]

672.



BOX

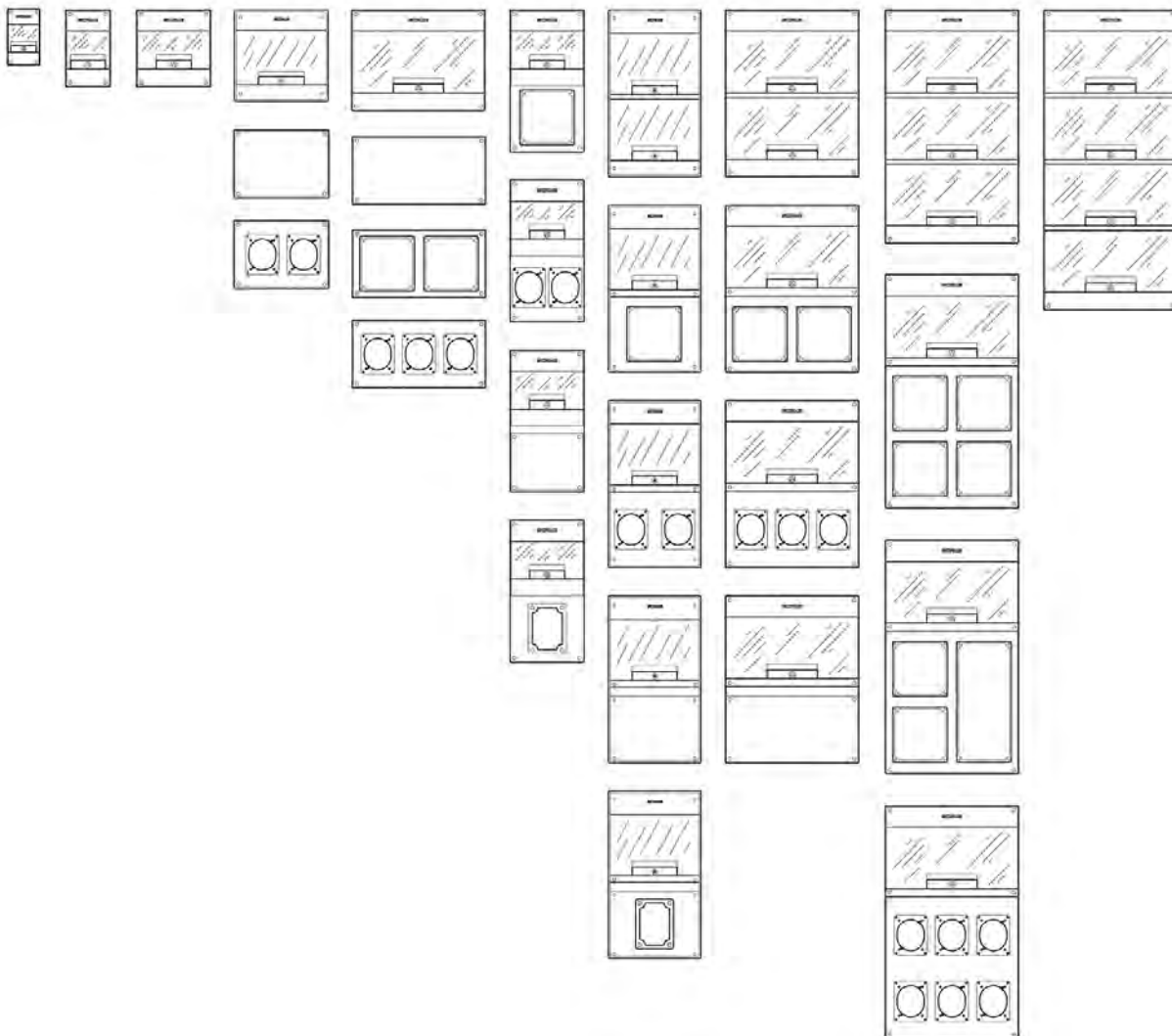
MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	Dimension	Power		
M150	150x256x115mm	18W	672.1101	6
	150x328x115mm	20W	672.1100	1/6

- Power dissipation calculated in conformity with CEI 23-49 italian standards



DOMINO IP66 System
Modularity

Empty enclosures

DOMINO IP66 Series



■ Modular enclosures - IP66 >> Enclosures with blank front panel >> M340

DOMINO IP66 Series [enclosure]

672.



8 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M340	8 MOD.	340x184x106mm	14W	672.2100	1/10

- Power dissipation calculated in conformity with CEI 23-49 italian standards

■ Modular enclosures - IP66 >> Enclosures with blank front panel >> M400

DOMINO IP66 Series [enclosure]

672.



12 DIN



16 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M400	12 MOD.	400x256x140mm	22W	672.3100	1/6
	16 MOD.	400x328x140mm	28W	672.3100.1102 ^[1]	6
				672.4116	1/4

[1].1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

1.6



Empty enclosures DOMINO IP66 Series

■ Modular enclosures - IP66 >> Enclosures with blank front panel >> M550

DOMINO IP66 Series [enclosure]

672.

1

INDUSTRY



16 DIN



24 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power			
	16 MOD.	550x328x140mm		672.5116	1/3	
M550	24 MOD.	550x477x150mm	28W			672.5122 3
						672.5122.1102 ^[1] 3

[1] .1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

■ Modular enclosures - IP66 >> Enclosures with OMNIA Series cutouts >> M150

DOMINO IP66 Series [enclosure]

672.



2 OMNIA

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	Dimension	Power		
M150	150x328x115mm	20W	672.1200	1/6

- Power dissipation calculated in conformity with CEI 23-49 italian standards

Empty enclosures

DOMINO IP66 Series



■ Modular enclosures - IP66 >> Enclosures with OMNIA Series cutouts >> M340

DOMINO IP66 Series [enclosure]

672.



1 OMNIA - 8 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

Modularity	No. Modules	Dimension	Power	IP66	
M340	8 MOD.	340x184x106mm	14W	672.2200	1/10

- Power dissipation calculated in conformity with CEI 23-49 italian standards

■ Modular enclosures - IP66 >> Enclosures with OMNIA Series cutouts >> M400

DOMINO IP66 Series [enclosure]

672.



1 OMNIA - 12 DIN



2 OMNIA - 16 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

Modularity	No. Modules	Dimension	Power	IP66	
M400	12 MOD.	400x256x140mm	22W	672.3200	1/6
	16 MOD.	400x328x140mm	28W	672.4216	1/4

- Power dissipation calculated in conformity with CEI 23-49 italian standards

1.6



Empty enclosures DOMINO IP66 Series

■ Modular enclosures - IP66 >> Enclosures with OMNIA Series cutouts >> M550

DOMINO IP66 Series [enclosure]

672.



4 OMNIA - 16 DIN



4 OMNIA + 2 OPTIMA -
24 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power	672.5416	1/3	672.5622 ^[1]	3
M550	16 MOD.	550x328x140mm	28W				
	24 MOD.	550x477x150mm					

^[1] With cutouts to contain 4 OMNIA Series 16A or 32A and 2 OPTIMA Series 16A or 32A

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- Connection device to be fixed in the upper side.



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1

INDUSTRY

2

3

4

Empty enclosures DOMINO IP66 Series



■ Modular enclosures - IP66 >> Enclosures with OMNIA Series cutouts >> M550 (63A)

DOMINO IP66 Series [enclosure]

672.



2+1(63A) OMNIA - 16
DIN



4+1(63A) OMNIA - 24
DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M550	16 MOD.	550x328x140mm	28W	672.5316 ^[1]	1/3
	24 MOD.	550x477x150mm		672.5522 ^[2]	3

[1] With cutouts to contain 2 OMNIA Series 16A or 32A and 1 OMNIA Series 63A.

[2] With cutouts to contain 4 OMNIA Series 16A or 32A and 1 OMNIA Series 63A

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- Connection device to be fixed in the upper side.



DOMINO IP66 Series
Flange 136x125mm (16A/32A)
Flange 136x275mm (63A)

1.6



Empty enclosures DOMINO IP66 Series

■ Modular enclosures - IP66 >> Enclosures with OPTIMA Series cutouts >> M150

DOMINO IP66 Series [enclosure]

672.



3 SOCKETS

2 SOCKETS

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	Dimension	Power		
M150	150x256x115mm	18W	672.1300	1/6
	150x328x115mm	20W		
			672.1301	6

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

■ Modular enclosures - IP66 >> Enclosures with OPTIMA Series cutouts >> M340

DOMINO IP66 Series [enclosure]

672.



2 SOCKETS - 8 DIN

1 SOCKET 32A - 8 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

IP66

Modularity	No. Modules	Dimension	Power		
M340	8 MOD.	340x184x106mm	14W	672.2300 ^[1]	1/10
				672.2301 ^[2]	1/10

[1] 16A (70x87mm)

[2] 32A (84x106mm).

- Power dissipation calculated in conformity with CEI 23-49 italian standards

Empty enclosures DOMINO IP66 Series



■ Modular enclosures - IP66 >> Enclosures with OPTIMA Series cutouts >> M400

DOMINO IP66 Series [enclosure]

672.



2 SOCKETS - 12 DIN

1 SOCKET 63A - 12 DIN

3 SOCKETS - 16 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

Modularity	No. Modules	Dimension	Power	IP66	
M400	12 MOD.	400x256x140mm	22W	672.3300 ¹ ²	1/6
	16 MOD.	400x328x140mm	28W	672.3302 ³	1/6
				672.4316 ²	1/4

¹ Connection device to be fixed in the upper side.

² 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

³ 63A (100x110mm)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

■ Modular enclosures - IP66 >> Enclosures with OPTIMA Series cutouts >> M550

DOMINO IP66 Series [enclosure]

672.



6 SOCKETS - 16 DIN

8 SOCKETS - 24 DIN

MODULAR ENCLOSURE

SURFACE MOUNTING

Modularity	No. Modules	Dimension	Power	IP66	
M550	16 MOD.	550x328x140mm	28W	672.5616	1/3
	24 MOD.	550x477x150mm		672.5822	3
				672.5822.1102 ¹	3

¹ .1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

- 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

1.6



Empty enclosures DOMINO IP66 Series

■ Modular enclosures - IP66 >> Single components >> M150(x256)

DOMINO System

674.



BASE

BLANK COVER

2 SOCKETS 70x87MM

Dimension	WALL MOUNTING BASE	BLANK COVER	COVER WITH OPTIMA CUTOUTS
150x256mm		674.1101 6	674.1301 ^[1] 6
150x256x115mm	674.1001 6		

[1] 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

■ Modular enclosures - IP66 >> Single components >> M150(x328)

DOMINO System

674.



BASE

BLANK COVER

2 OMNIA

3 SOCKETS 70x87MM

Dimension	WALL MOUNTING BASE	BLANK COVER	COVER WITH OMNIA CUTOUTS	COVER WITH OPTIMA CUTOUTS
150x328mm		674.1100 1/6	674.1200 1/6	674.1300 ^[1] 1/6
150x328x115mm	674.1000 1/6			

[1] 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

1
INDUSTRY

2

3

4

Empty enclosures DOMINO IP40 Series



■ Surface mounting version >> Modular consumer units

DOMINO IP40 Series [surface]

673.



Without window

CONSUMER UNIT

SURFACE MOUNTING

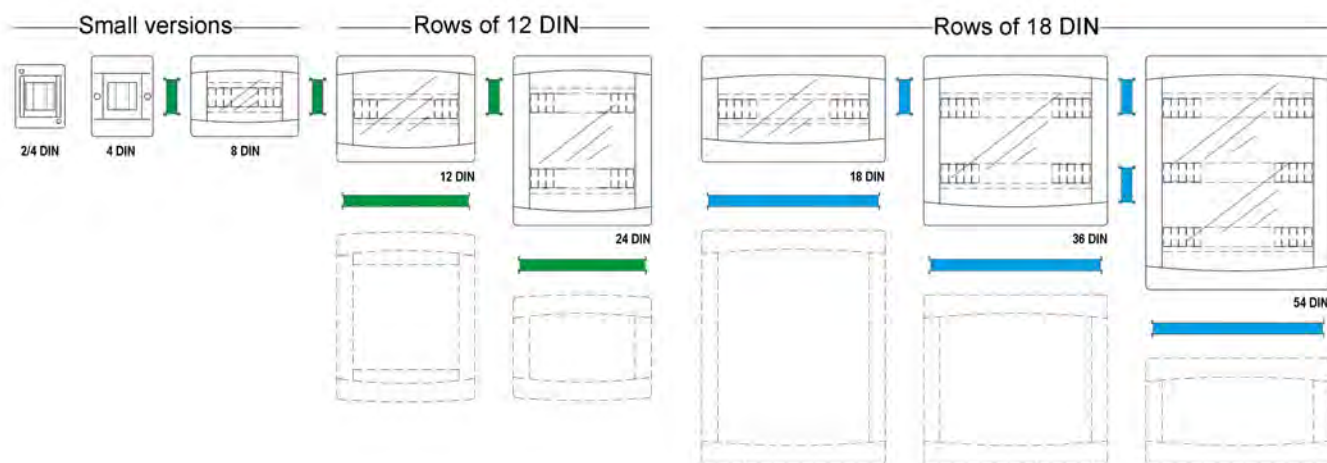
Modularity	No. Modules	Dimension	Power	IP40			
				Code	Ratio	Code	Ratio
2/4 DIN	2/4 MOD.	130x97x84mm	9W	673.2102B	1/36	673.2102	1/36
4 DIN	4+1/2 MOD.	190x135x108mm	11W	673.2104B	1/24	673.2104	1/24
8 DIN	8+2 MOD.	190x254x108mm	18W	673.2108B	1/12	673.2108	1/12
				673.2108B.0012 ^[1]	1/10		
12 DIN	12+2 MOD.	250x326x108mm	25W (50W*)	673.2112B	1/7	673.2112	1/7
				673.2112B.0012 ^[1]	1/6		
18 DIN	18+2 MOD.	250x434x140mm	43W (85W*)	673.2118B	1/6	673.2118	1/6
				673.2118B.0012 ^[1]	1	673.2118.0011 ^[2]	1/6
24 DIN	24+4 MOD.	400x326x108mm	41W (87W*)	673.4124B	1/5	673.4124	1/5
				673.4124B.0012 ^[1]	1		
36 DIN	36+4 MOD.	400x434x140mm	75W (108W*)	673.4136B	1/4	673.4136	1/4
				673.4136B.0012 ^[1]	1		
54 DIN	54+6 MOD.	550x434x140mm	103W (140W*)	673.5154B	1/2	673.5154	1/2
				673.5154B.0012 ^[1]	1		

[1] .0012: without label + with IP00 connection devices 2(5x10mm² - 5x16mm²)

[2] .0011: without label + with IP00 connection device 1(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

- (*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.



DOMINO IP40 Series
Modularity

1.6



Empty enclosures DOMINO IP40 Series

■ Surface mounting version >> Modular consumer units

DOMINO IP40 Series [surface]

673.



With window

CONSUMER UNIT

SURFACE MOUNTING

IP40

Modularity	No. Modules	Dimension	Power	IP40			
8 DIN	8+1 MOD.	190x254x108mm	17W	673.2008B	1/12	673.2008	1/12
				673.2008B.2010 ^[2]	1/12	673.2008.1102 ^[1]	1/12
				673.2008B.2012 ^[3]	1/10		
12 DIN	12+1 MOD.	250x326x108mm	24W (48W*)	673.2012B	1/7	673.2012	1/7
				673.2012B.2010 ^[2]	1/7	673.2012.1102 ^[1]	6
				673.2012B.2012 ^[3]	1/6		
18 DIN	18+1 MOD.	250x434x140mm	42W (74W*)	673.2018B	1/6	673.2018	1/6
				673.2018B.2010 ^[2]	1/6		
				673.2018B.2012 ^[3]	1		
24 DIN	24+4 MOD.	400x326x108mm	35W (63W*)	673.4024B	1/5	673.4024	1/5
				673.4024B.2010 ^[2]	1/5		
				673.4024B.2012 ^[3]	1		
36 DIN	36+4 MOD.	400x434x140mm	57W (96W*)	673.4036B	1/4	673.4036	1/4
				673.4036B.2010 ^[2]	1/4		
				673.4036B.2012 ^[3]	1		
54 DIN	54+5 MOD.	550x434x140mm	75W (125W*)	673.5054B	1/2	673.5054	1/2
				673.5054B.2010 ^[2]	1/2		
				673.5054B.2012 ^[3]	1		

^[1].1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

^[2].2010: white window + without label + without triangular key + without connection device

^[3].2012: white window + without label + without triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

- Power dissipation calculated in conformity with CEI 23-49 italian standards

- (*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

1

INDUSTRY

2

3

4

Empty enclosures DOMINO IP40 Series



■ Flush mounting version >> Modular consumer units

DOMINO IP40 Series [flush]

675.



With window

CONSUMER UNIT

FLUSH MOUNTING

Modularity	No. Modules	Dimension	Power	IP40			
				Model	Accessories	Model	Accessories
4 DIN	4+1/2 MOD.	180x150x75mm	17W	675.2104B ^[4]	1/38	675.2104 ^[4]	1/38
8 DIN	8+1 MOD.	210x254x75mm	21W	675.2008B	1/10	675.2008	1/10
				675.2008B.2010 ^[2]	1/10	675.2008.1102 ^[1]	1/10
				675.2008B.2012 ^[3]	1/6		
12 DIN	12+1 MOD.	270x326x75mm	32W	675.2012B	1/7	675.2012	1/7
				675.2012B.2010 ^[2]	1/7	675.2012.1102 ^[1]	1/7
				675.2012B.2012 ^[3]	1/4		
18 DIN	18+1 MOD.	270x434x75mm	36W	675.2018B	1/7	675.2018	1/7
				675.2018B.2010 ^[2]	1/7		
				675.2018B.2012 ^[3]	1		
24 DIN	24+4 MOD.	420x326x95mm	52W (74W*)	675.4024B	1/5	675.4024	1/5
				675.4024B.2010 ^[2]	1/5		
				675.4024B.2012 ^[3]	1		
36 DIN	36+4 MOD.	420x434x95mm	61W	675.4036B	1/3	675.4036	1/3
				675.4036B.2010 ^[2]	1/3		
				675.4036B.2012 ^[3]	1		
54 DIN	54+3 MOD.	570x434x95mm	71W	675.5054B	1/2	675.5054	1/2
				675.5054B.2010 ^[2]	1/2		
				675.5054B.2012 ^[3]	1		

[1] .1102: tinted window (standard) + with label + with triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

[2] .2010: white window + without label + without triangular key + without connection device

[3] .2012: white window + without label + without triangular key + with IP00 connection devices 2(5x10mm² - 5x16mm²)

[4] Without window.

- Power dissipation calculated in conformity with CEI 23-49 italian standards

- (*) Power dissipation calculated when 2 consumer units are on top of each other joined by specially designed accessories.

1.6



Empty enclosures DOMINO System

Accessories for modular enclosures

1
INDUSTRY

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	Fixing pole kit	
MOUNTING/FIXING PLATE	DOMINO IP66 M340	■	654.0655	4
	DOMINO IP66 M400		654.0657	1
	DOMINO IP66 M550		654.0652	2
	DOMINO IP66 M700		654.0656	4
METAL POLE	DOMINO IP66		654.0650	1
PLATE WITH PROTECTION ROOF	DOMINO IP66 M400			654.0653 2
	DOMINO IP66 M550			654.0654 2

ENCLOSURES ACCESSORIES

654.



Description	Notes	Suitable for	Colour	Wall mounting brackets kit	
WALL MOUNTING BRACKETS KIT	(4 pz.)	DOMINO IP66	■	654.0020	1/10

Empty enclosures DOMINO System



Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



Description	Dimension	Suitable for	Zinc-coated steel mounting plate	
MOUNTING PLATE	275x110mm	DOMINO IP66 M190	654.0700	1
	275x180mm	DOMINO IP66 M250	654.0710	¹ ² 1

¹ Can be mounted in DOMINO IP66 M400 and M550 enclosures

² The plate comes with slots for fitting the safety transformer through cable ties (item 654.0210 or 654.0220).

ENCLOSURES ACCESSORIES

654.



Description	Notes	Suitable for	Colour	Connection kit [DOMINO IP66]	
CONNECTION KIT	PG21	DOMINO IP66		654.0038	25
	PG36			654.0040	1/25

1.6



Empty enclosures DOMINO System

Accessories for modular enclosures

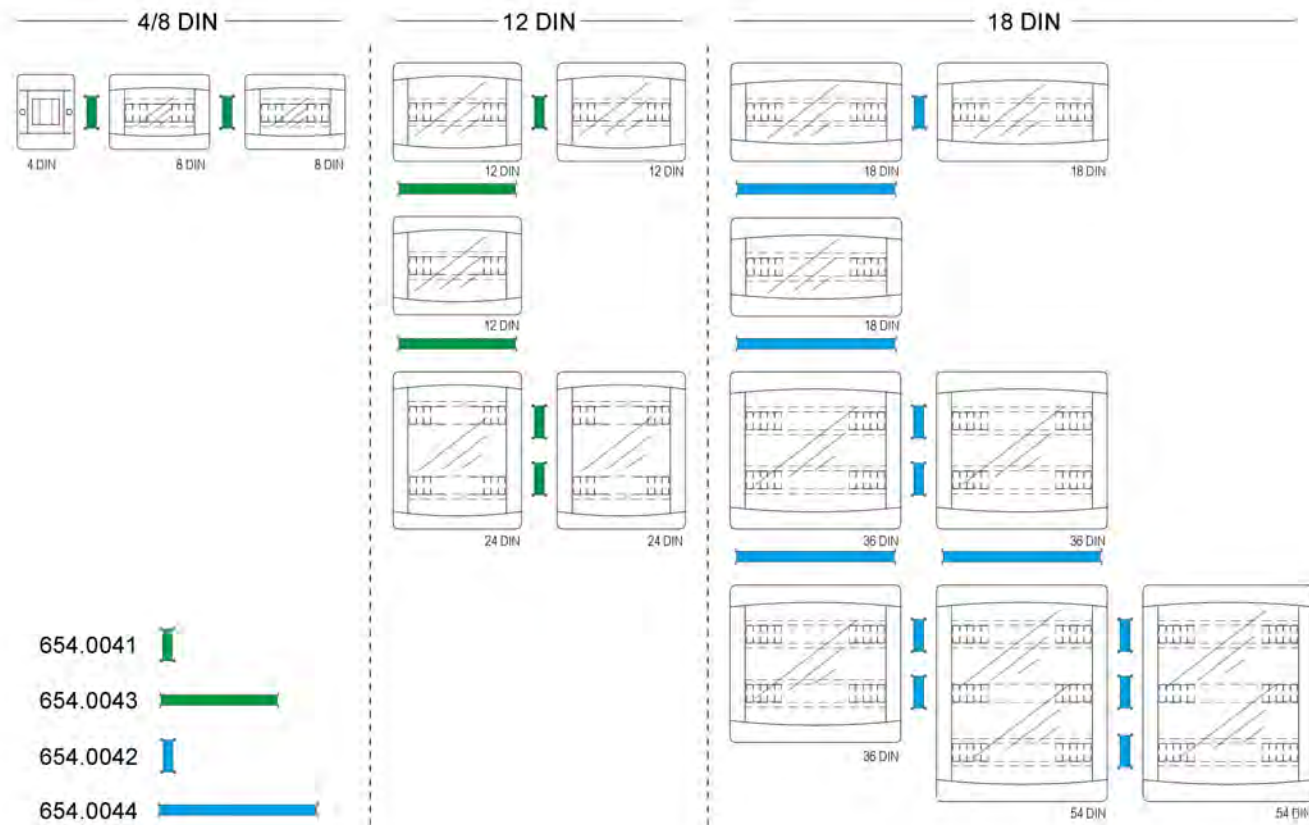
ENCLOSURES ACCESSORIES

654.



1
INDUSTRY

Description	Notes	Colour	Din	Connection kit [DOMINO IP40 surface mounting]		
CONNECTION KIT	LATERAL.	White	12/24 DIN	654.0041B	6/60	
			18/36/54 DIN	654.0042B	6/60	
		Grey	12/24 DIN	654.0041	6/60	
			18/36/54 DIN	654.0042	6/60	
	TOP-BOTTOM	White	12/24 DIN		654.0043B	6
			18/36/54 DIN		654.0044B	6
		Grey	12/24 DIN		654.0043	6
			18/36/54 DIN		654.0044	6



DOMINO IP40 Series

- Item 654.0041: coupler for horizontal connection rows of 12 DIN
- Item 654.0043: coupler for vertical connection rows of 12 DIN
- Item 654.0042: coupler for horizontal connection rows of 18 DIN
- Item 654.0044: coupler for vertical connection rows of 18 DIN

Empty enclosures DOMINO System



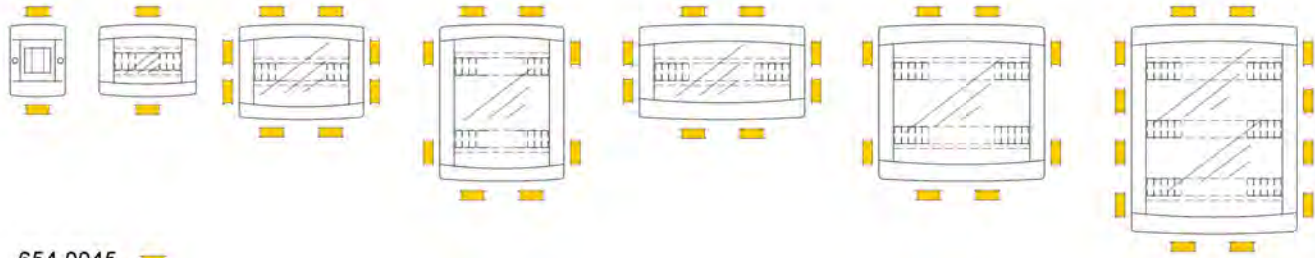
Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	Connection kit [DOMINO IP40 flush mounting]	
ADAPTOR			654.0046 200	
CONNECTION KIT	DOMINO IP40 12-24 DIN DOMINO IP40 18-36-54-72 DIN		654.0045 6/72	



654.0045

DOMINO IP40 Series

Modularity
Item 654.0045: coupler for connection of flush mounting models

1.6



Empty enclosures DOMINO System

Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



Description	Dimension	Suitable for	Stand kit
STAND KIT	320x794x320mm	DOMINO IP66 M550	654.0615
	376x691x70mm	DOMINO IP66 M550 OMNIA	654.0610 ¹
¹ Folding			



MOBIL Series

Support for DOMINO/OMNIA assemblies. The handy folding stand allows the panel to be transported even in limited-size motor vehicles .

1

INDUSTRY

2

3

4

Empty enclosures DOMINO System



■ Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	Cover sealing kit (2 pieces)
COVER SEALING KIT	DOMINO IP40		654.0033 1/25
	DOMINO IP66		654.0030 1/25

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Yale key kit
YALE KEY KIT	DOMINO IP40 MBOX (WIN)	654.0072 ^[2] 1/10
	DOMINO IP66	654.0070 ^[1] 1/10

[1] Unique Yale keys, the same key opens all locks

[2] For DIN window. Unique Yale keys, the same key opens all locks.

- For door (2 pieces).

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Handle kit
HANDLE KIT	DOMINO IP66 GOMMA	654.0060 1/10

1.6



Empty enclosures DOMINO System

Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



1

INDUSTRY

Description	Suitable for	Colour	Ridget profile for DIN rail	
DIN RAIL BRACKET	1 x EVOLUTION 2 x EVOLUTION		654.0091	12/120
RIDGED PROFILE FOR DIN RAIL			654.0090	20/100

2

3

4



EVOLUTION Series
EVOLUTION Series module mounted on DIN rail support

Empty enclosures DOMINO System



Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



Description	Notes	Din	DIN rail adjustable height	
DIN RAIL KIT	DOMINO IP66	12 DIN	654.0751	1/10
		16 DIN	654.0750	1/10
		24 DIN	654.0753	10
		2x12 DIN	654.0752	10

- With mounting brackets

ENCLOSURES ACCESSORIES

654.



Description	Notes	Colour	Din	Blank plate for DIN modules	
BLANK PLATE FOR DIN MODULES	9x45mm		1/2 DIN	654.0420 ^[1]	25/400
	18x45mm		1 DIN	654.0410 ^[1]	25/250
	70x50mm		4 DIN	654.0400B	25
	72x45mm			654.0400	25

^[1] To be fixed on DIN rail

- When put between the modular devices these plates help to dissipate heat

1.6



Empty enclosures DOMINO System

Accessories for modular enclosures

1
INDUSTRY

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ENCLOSURES ACCESSORIES

654.



Description	Flange	Notes	Colour	IP	Blank plates	
BLANK PLATE FOR PANEL CUT OUTS	70x87mm				654.0100	25
CUT-OUT PLATE		70x87 --> 50x60	■	IP66	654.0103	25
	84x106mm	84x106 --> 75x75			654.0108	5

- With gasket

ENCLOSURES ACCESSORIES

654.



Description	Flange	Suitable for	Colour	IP	Blank plates [TOP22]	
CUT-OUT PLATE	70x87mm	1 x TOP22	■	IP66	654.0101	25
		2 x TOP22	■		654.0102	25

- With gasket
- For components TOP22 Series.

Empty enclosures DOMINO System



Accessories for modular enclosures

ENCLOSURES ACCESSORIES

654.



Description	Flange	Notes	Colour	IP	Blank plates [OMNIA]	
BLANK PLATE FOR PANEL CUT OUTS		OMNIA			654.0120	6/72
CUT-OUT PLATE	136x125mm	16A [70x87]	■	IP66	654.0125	6/72
		32A [84x106]				

- Covers for OMNIA Series cutouts
- IP66 when coupled with the relevant component

ENCLOSURES ACCESSORIES

654.



Description	Dimension	Notes	Transformers
SAFETY TOROIDAL TRANSFORMER	Ø170xØ39xh38mm L=270mm	300VA	654.0220 1
	Ø170xØ45xh25mm L=270mm	150VA	654.0210 1

- ⚡ Safety Extra Low Voltage (SELV).
- Cables: black 220V~, red 24V~.
- F class

1.6



Empty enclosures DOMINO System

Accessories for modular enclosures

1
INDUSTRY

ENCLOSURES ACCESSORIES

654.

DOMO Series

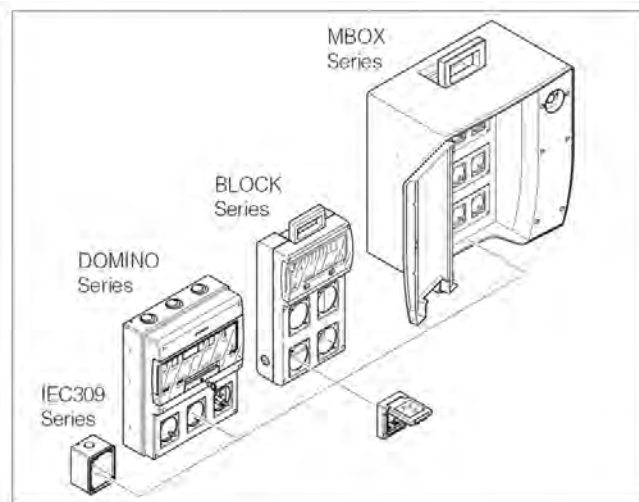
570.



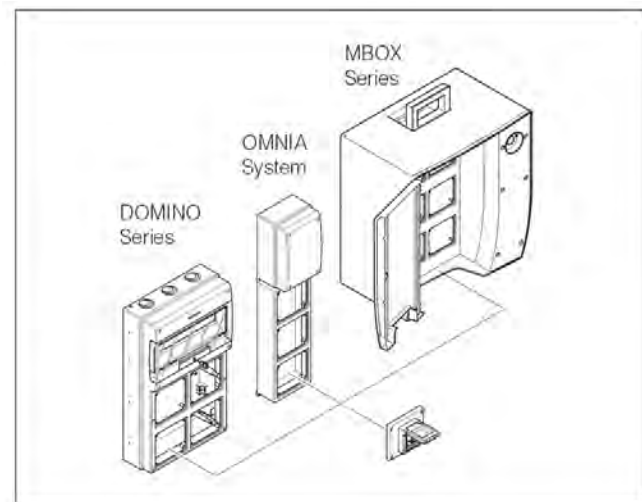
Description	Flange	IP	Suitable for	Colour	Domestic kit
FLUSH MOUNTING FRAME	70x87mm	IP55	EVOLUTION	■	570.5052 10/100
			BTICINO		570.5012 ^[1] 10/100
COVER WITH INSERT	136x125mm	IP55	EVOLUTION	■	654.0122 6
			BTICINO		654.0121 ^[1] 6

[1] Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.

- Modules snap into place.



DOMO Series
Examples of installation (flange 70x87mm)



OMNIA Series
Examples of installation (flange 136x125mm)

Empty enclosures DOMINO System



DOMINO terminal blocks - T85

ENCLOSURES ACCESSORIES

654.



Description	Colour	IP	Version	Terminal blocks for DIN rail	
TERMINAL BLOCK	■	IP20	HORIZONTAL VERTICAL	654.0358	1/10
				654.0359	1/10

- Terminals: 1x (5x10mm² and 5x16mm²).
- Phase R-S-T and earth/neutral terminal blocks

DOMINO terminal blocks >> Modular terminal blocks - IP20

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	IP	x1	
TERMINAL BLOCK	DOMINO IP66 4 DIN DOMINO IP66 8 DIN	■	IP20	654.0363	1/10
				654.0365	10

- Insulated by a plastic cover for the connection of the flexible cables
- For earth, phase and neutral conductors

1.6



Empty enclosures DOMINO System

■ DOMINO terminal blocks >> Modular terminal blocks - IP20

ENCLOSURES ACCESSORIES

654.



1
INDUSTRY

Description	Suitable for	Colour	IP	x2
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	■	IP20	654.0361 ^[1] 1/10 654.0361C ^[2] 10

- [1] There is special left for one additional terminal block
 [2] Complete terminal block, supplied with one additional terminal block art. 654.0360.
 - Insulated by a plastic cover for the connection of the flexible cables
 - For earth, phase and neutral conductors

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	IP	x3
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP40 18-36-54-72 DIN DOMINO IP66 16-32-48-64 DIN	■	IP20	654.0362 ^[1] 1/10 654.0362C ^[2] 10

- [1] There is special left for two additional terminal blocks
 [2] Complete terminal block, supplied with two additional terminal blocks art. 654.0360.
 - Insulated by a plastic cover for the connection of the flexible cables
 - For earth, phase and neutral conductors

Empty enclosures DOMINO System



■ DOMINO terminal blocks >> Modular terminal blocks - IP20

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	IP	x4
TERMINAL BLOCK	DOMINO IP40 18-36-54-72 DIN		IP20	654.0364 ^[1] 1/10 654.0364C ^[2] 10

[1] There is special left for three additional terminal blocks.

[2] Complete terminal block, supplied with three additional terminal blocks Art. 654.0360.

- Insulated by a plastic cover for the connection of the flexible cables
- For earth, phase and neutral conductors

ENCLOSURES ACCESSORIES

654.



Description	Notes	Colour	IP	Additional
TERMINAL BLOCK	EXTRA		IP20	654.0360 1/10

- Insulated by a plastic cover for the connection of the flexible cables
- For earth, phase and neutral conductors

■ DOMINO terminal blocks - T85

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	IP	Terminal blocks without insulated base - IP00
TERMINAL BLOCK	DOMINO IP40 MBOX2 MBOX3 BLOCK4	IP00	654.0349 10/100

- Terminals: 1x (5x10mm² and 5x16mm²).
- Earth/neutral terminal blocks

1.6



Empty enclosures

FLAT Series

Enclosures

FLAT Series

677.



GW650°C

GW850°C (suitable for plasterboard walls)

FLAT WALL FLUSH MTG CONS. UNIT

No. Modules	Dimension	Power	IP40	
12+2 MOD.	343x368x90mm	25W	677.1012.1 ^[1]	677.1012.1-HW ^[1]
24+4 MOD.	443x368x90mm	41W	677.2024.1 ^[1]	677.2024.1-HW ^[1]
36+6 MOD.	568x368x90mm	54W	677.3036.2 ^[2]	677.3036.2-HW ^[2]
48+8 MOD.	753x368x91mm	75W	677.4048.2 ^[2]	677.4048.2-HW ^[2]
60+10 MOD.	878x368x93mm		677.5060.2 ^[2]	677.5060.2-HW ^[2]

[1] .1 = 1x terminal block 2x(2x16mm² + 14x10mm²)

[2] .2 = 2x terminal block 2x(2x16mm² + 14x10mm²)



FLAT Series
Terminal block 2x(2x16mm² + 14x10mm²)

1
INDUSTRY

2

3

4

Empty enclosures FLAT Series



■ Enclosures

ENCLOSURES ACCESSORIES

654.



Description	Notes	Accessories and components	
TERMINAL BLOCK	2x25mm ² + 14x16mm ²	654.0377	25
YALE KEY KIT	FOR FLAT METAL	654.0074	10
WALL MOUNTING BRACKETS KIT	(4 pz.)	654.0026	15
KIT BRACKETS FOR PLASTER WALL		654.0025	50

1.6



Empty enclosures BLOCK Series

Empty enclosures [BLANK PANEL]

BLOCK Series

632.



Description	Installation	IP	Dimension	Power	BLOCK1 - 4 DIN	BLOCK3 - 6 DIN
MODULAR ENCLOSURE	SURFACE MOUNTING	IP66	110x280x95mm	8W	632.1510-000 ⁴	632.3510-000 ⁴
			136x440x105mm	9W		
			212x415x105mm	14W		
			272x414x110mm	15W		

- Power dissipation calculated in conformity with CEI 23-49 italian standards

Empty enclosures [with cutouts 70x87]

BLOCK Series

632.



Description	Installation	IP	Dimension	Power	BLOCK1 - 1 SOCKET - 4 DIN	BLOCK3 - 3 SOCKETS - 6 DIN
MODULAR ENCLOSURE	SURFACE MOUNTING	IP66	110x280x95mm	8W	632.1500-000 ¹ ⁴	632.3500-000 ⁴
			136x440x105mm	9W		
			212x415x105mm	14W		
			272x414x110mm	15W		

¹ Does not accept COMMAND Series 63A switches and above

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- 70x87mm cut-outs
- (*) Cut-outs suitable for 32A socket outlets with 84x106 mm flange

Empty enclosures
BLOCK Series



BLOCK Series

632.



BLOCK3

632.3511-000

4



BLOCK4 - 11 DIN

632.4510-000

4



BLOCK4 - 11 DIN - YALE KEY

632.4710-000

4



BLOCK5 - 14 DIN

632.5510-000

2

BLOCK Series

632.



BLOCK3 - 4 SOCKETS

632.3501-000

4



BLOCK4 - 4 SOCKETS - 11 DIN

632.4500-000

4



BLOCK4 - 4 SOCKETS - 11 DIN - YALE KEY

632.4700-000

4



BLOCK5 - 5 SOCKETS - 14 DIN

632.5500-000

2

1.6



Empty enclosures

BLOCK Series

Empty enclosures [with cutouts 70x87 + 50x60]

BLOCK Series

632.



Description	Installation	IP	Dimension	Power	BLOCK1 - 3 SOCKETS - 4 DIN	BLOCK3 - 4 SOCKETS - 6 DIN
MODULAR ENCLOSURE	SURFACE MOUNTING	IP66	110x280x95mm	8W	632.1530-000 ^{[1][2]} 4	632.3520-000 ^{[1][2]} 4
			136x440x105mm	9W		
			212x415x105mm	14W		
			272x414x110mm	15W		

[1] 70x87mm cut-outs

[2] (*) Cut-outs suitable for 32A socket outlets with 84x106 mm flange

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- 50x60 mm cut-outs

Accessories

ENCLOSURES ACCESSORIES

654.



Blank plates

Flange	Notes	Colour	IP	BLANK PLATE FOR PANEL CUT OUTS	CUT-OUT PLATE	BLANK PLATE FOR PANEL CUT OUTS
70x87mm	70x87 --> 50x60	■	IP66	654.0100 25	654.0103 25	654.0105 25
50x60mm						

- With gasket

Empty enclosures BLOCK Series



BLOCK Series

632.



**BLOCK3 - 6 SOCKETS - 6
DIN**

632.3530-000

4



**BLOCK4 - 5 SOCKETS - 11
DIN**

632.4520-000 1 2

4



**BLOCK4 - 6 SOCKETS - 11
DIN**

632.4530-000 1 2

4



**BLOCK5 - 7 SOCKETS - 14
DIN**

632.5520-000 1

2

1.6



Empty enclosures

BLOCK Series

Accessories

1
INDUSTRY

ENCLOSURES ACCESSORIES

654.



Blank plates [TOP22]

Flange	Suitable for	Colour	IP	CUT-OUT PLATE	
70x87mm	1 x TOP22		IP66	654.0101Y	25
	654.0101	25			
	2 x TOP22			654.0102	25

- With gasket
- For components TOP22 Series.

ENCLOSURES ACCESSORIES

654.



Blank plate for DIN modules

Notes	Colour	Din	BLANK PLATE FOR DIN MODULES	
9x45mm		1/2 DIN	654.0420	25/400
18x45mm		1 DIN	654.0410	25/250
70x50mm		4 DIN	654.0400B	25
72x45mm			654.0400	25

1 To be fixed on DIN rail

- When put between the modular devices these plates help to dissipate heat

Empty enclosures BLOCK Series



■ Accessories

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	IP	Terminal blocks without insulated base - IP00
TERMINAL BLOCK	DOMINO IP40 MBOX2 MBOX3 BLOCK4	IP00	654.0349 10/100

- Terminals: 1x (5x10mm² and 5x16mm²).
- Earth/neutral terminal blocks

ENCLOSURES ACCESSORIES

654.



Description	Dimension	Notes	Transformers
SAFETY TOROIDAL TRANSFORMER	Ø170xØ39xh38mm L=270mm	300VA	654.0207 1
	Ø170xØ45xh25mm L=270mm	150VA	654.0205 1

- Ⓢ Safety Extra Low Voltage (SELV).
- Cables: black 220V~, red 24V~.
- F class

1.6



Empty enclosures BLOCK Series

Accessories

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Support kit
SUPPORT	BLOCK4	654.0600 2



BLOCK Series
Support

1

INDUSTRY

2

3

4

Empty enclosures

ENERBOX Series



Empty enclosures [BLANK PANEL]

ENERBOX Series

633.



Enclosures 6 DIN



Enclosures 11 DIN

EMPTY ENCLOSURE

SURFACE MOUNTING

IP55

Dimension	Version	Notes	Power		
285x145x107mm	PLAIN	4 DOMO	9W	633.1010	12
285x235x107mm			15W		633.2020

- Side knockouts (DOMO 50x60mm): 4 closed
- Power dissipation calculated in conformity with CEI 23-49 italian standards



Side entrances

When fixing the DOMO Series side sockets (50x60 mm), use the special accessory (art. 570.2001)

1.6



Empty enclosures ENERBOX Series

Empty enclosures [70x87]

ENERBOX Series

633.



Enclosures 6 DIN

Enclosures 11 DIN

Dimension	Notes	Power	EMPTY ENCLOSURE	
			SURFACE MOUNTING	
			IP55	
285x145x107mm	4 DOMO + 1x16-32A	9W	633.1013	12
	4 DOMO + 1x63A		633.1014	12
285x235x107mm	4 DOMO + 1x16-32A + 1x63A	15W		633.2026 6
	4 DOMO + 2x16-32A			633.2024 6
	4 DOMO + 2x63A			633.2025 6

- Side knockouts (DOMO 50x60mm): 4 closed
- Power dissipation calculated in conformity with CEI 23-49 italian standards

Empty enclosures [70x87 + 50x60]

ENERBOX Series

633.



Enclosures 6 DIN

Enclosures 11 DIN

Dimension	Notes	Power	EMPTY ENCLOSURE	
			SURFACE MOUNTING	
			IP55	
285x145x107mm	4 DOMO + 1x16-32A	9W	633.1011	12
	4 DOMO + 1x63A		633.1012	12
285x235x107mm	4 DOMO + 1x16-32A + 1x63A	15W		633.2023 6
	4 DOMO + 2x16-32A			633.2021 6
	4 DOMO + 2x63A			633.2022 6

- Side knockouts (DOMO 50x60mm): 2 open - 2 closed
- Power dissipation calculated in conformity with CEI 23-49 italian standards

1

INDUSTRY

2

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4

Empty enclosures ADAPTO Series



Empty enclosures

ADAPTO Series

603.

623.



Description	IP	Notes	Portable or suspended	
MULTI-WAY ADAPTOR	IP44	3x(70x87mm)+2x(50x60mm)	603.3005-000	1/10
	IP66	3x(70x87mm/84x106mm) - 6 DIN	623.3500-000	1/4
		4x(70x87mm/84x106mm)	623.4500-000	1/4

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.

ADAPTO Series

625.



Description	IP	Notes	Elevated installation	
MULTI-WAY ADAPTOR	IP66	3x(70x87mm/84x106mm) - 6 DIN	625.3500-000	1/4
		4x(70x87mm/84x106mm)	625.4500-000	1/4

- Tubular stand to be ordered separately
- Equipped with PG21 cable gland, cable clamp and terminal block.

1.6



Empty enclosures ADAPTO Series

Accessories

1

INDUSTRY

ENCLOSURES ACCESSORIES

692.



Description

Adaptors coupling kit

ADAPTOR COUPLING KIT

692.4342

1/5

- 3-way and 4-way adaptors can be coupled together as shown in the drawing
- The kit includes all the screws, nuts, washers and seals required to couple together 3-way and 4-way adaptors.

2

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4

ENCLOSURES ACCESSORIES

692.



Description

Tubular stand

TUBULAR STAND

692.4340

1

ENCLOSURES ACCESSORIES

654.



Description

Mounting bracket for
compressed air

PLATE FOR COMP. AIR MOSE

654.0050

10

Empty enclosures ADAPTO Series



Accessories

ENCLOSURES ACCESSORIES

654.



Description	Flange	Notes	Colour	IP	Blank plates	
BLANK PLATE FOR PANEL CUT OUTS	70x87mm			IP66	654.0100	25
CUT-OUT PLATE		70x87 --> 50x60			654.0103	25

- With gasket

ENCLOSURES ACCESSORIES

654.



Description	Flange	Suitable for	Colour	IP	Blank plates [TOP22]	
CUT-OUT PLATE	70x87mm	1 x TOP22	Yellow	IP66	654.0101Y	25
		2 x TOP22	Grey		654.0101	25
					654.0102	25

- With gasket
- For components TOP22 Series.

1.6



Empty enclosures

MBOX Series

Empty enclosures [MBOX2]

MBOX2 Series

656.



1
INDUSTRY

Description	Version	Notes	Power	Empty enclosures	Empty enclosures - With emergency push button
EMPTY ENCLOSURE	WITHOUT DOOR	4 OMNIA	27W	656.0024-000	656.0924-000
		4 OMNIA + KIT LUX		656.0024-000L ^[1]	656.0924-000L ^[1]
	6 OPTIMA	29W	656.0026-000 ^[2]	656.0926-000 ^[2]	
			6 OPTIMA + KIT LUX	656.0026-000L ^{[2][1]}	656.0926-000L ^{[2][1]}

[1] Complete with lights kit

[2] 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

- Power dissipation calculated in conformity with CEI 23-49 italian standards

2
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4



Night & day [Kit LUX]

MBOX turns on a new era with a box that is even more functional and complete. The addition of an automatic device (LED with extremely low consumption hooked up to a sensor) ensures proper lighting of the compartment containing outlets and switch gear and protection devices when the outdoor light intensity diminishes. This allows the product to be identified and used under conditions of poor lighting: ideal for the worksite, MBOX is also perfect for campsites and parking areas. Extremely compact and totally safe, MBOX features an innovative design and it is made in collision-proof and self-extinguishing technopolymer, to withstand collisions and atmospheric agents. In compliance with the highest safety standards, the MBOX series includes a complete product range and comes in many customized versions, with fast delivery.

Empty enclosures

MBOX Series



Empty enclosures [MBOX3]

MBOX3 Series

657.



Description	Version	Notes	Empty enclosures	Empty enclosures - With emergency push button
EMPTY ENCLOSURE	WITH DOOR	6 OMNIA	657.0036-000 1	657.0936-000 1
		9 OPTIMA	657.0038-000 ¹ 1	657.0938-000 ¹ 1
	WITHOUT DOOR	4+1 63A OMNIA	657.0035-000 1	657.0935-000 1

¹ 16A (70x87mm) or, with suitable adaption, 32A socket (84x106mm).

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- Complete with lights kit

Empty enclosures [MBOX5]

MBOX5 Series

658.



Description	Version	Notes	Empty enclosures	Empty enclosures - With emergency push button
EMPTY ENCLOSURE	WITH DOOR	12 OMNIA	658.0050-000 1	658.0950-000 1

- Power dissipation calculated in conformity with CEI 23-49 italian standards
- Complete with lights kit

1.6



Empty enclosures MBOX Series

Accessories for enclosures

1

INDUSTRY

MBOX2 Series

656.

MBOX3 Series

657.

MBOX5 Series

658.



Description	Dimension	Version	Emergency push button kit	
EMERGENCY PUSH BUTTON KIT	MBOX2	WITHOUT DOOR	656.0320	10
	MBOX3	WITH DOOR	657.0340	10
		WITHOUT DOOR	657.0330	10
	MBOX5	WITH DOOR	658.0360	10
WITHOUT DOOR		658.0350	10	

- Emergency push button kit composed of illuminated emergency push button, yellow faceplate with seat for emergency push button, neon lamp 230V~, NO contact and NC contact, lamp holder.

MBOX2 Series

656.



Description	Notes	Suitable for	Emergency push button kit (button)
EMERGENCY PUSH BUTTON KIT	(5 pz.)	MBOX2 MBOX3 MBOX5	656.0300

- Kit made up of pushbutton, contacts and light bulb

Empty enclosures

MBOX Series



Accessories for enclosures

MBOX3 Series

657.



Disconnecter kit [MBOX3]

Dimension	Notes	Version	ISOLATOR KIT	
MBOX3	100A	WITH DOOR	657.0343	10
		WITHOUT DOOR	657.0333	10
	16-32-40A	WITH DOOR	657.0341	10
		WITHOUT DOOR	657.0331	10
	63-80A	WITH DOOR	657.0342	10
		WITHOUT DOOR	657.0332	10

- Disconnecter kit complete with: yellow faceplate and handle. Suitable for backpanel switches 590.YA... (not provided).

MBOX5 Series

658.



Disconnecter kit [MBOX5]

Dimension	Notes	Version	ISOLATOR KIT	
MBOX5	100A	WITH DOOR	658.0363	10
		WITHOUT DOOR	658.0353	10
	16-32-40A	WITH DOOR	658.0361	10
		WITHOUT DOOR	658.0351	10
	63-80A	WITH DOOR	658.0362	10
		WITHOUT DOOR	658.0352	10

- Disconnecter kit complete with: yellow faceplate and handle. Suitable for backpanel switches 590.YA... (not provided).

1.6



Empty enclosures

MBOX Series

Accessories for enclosures

1
INDUSTRY

MBOX2 Series

656.



MBOX3 Series

657.



MBOX5 Series

658.



Tinted door kit

Notes

FUME'

656.0012

DOOR KIT

657.0014

658.0016

2

3

4

MBOX2 Series

656.



Door spare parts (5 pz.)

Suitable for

MBOX2 MBOX3 MBOX5

MBOX3 MBOX5

HINGES KIT

656.0010 10

TRIANGULAR LOCK KIT

656.0110 5/10

MBOX5 Series

658.



Description

Dimension

Plain panel

PLAIN PANEL

MBOX5 WITH DOOR

658.0369 10

Empty enclosures MBOX Series



Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Yale key kit	
YALE KEY KIT	DOMINO IP40 MBOX (WIN)	654.0072 ^{[1][2]}	1/10
	MBOX3-5 (DOOR)	654.0071	1/10

[1] For DIN window. Unique Yale keys, the same key opens all locks.

[2] For door (2 pieces).

MBOX2 Series

656.

MBOX3 Series

657.

MBOX5 Series

658.



Description	Fuse-testing kit					
FUSE CHECKER	656.0420	10	657.0421	10	658.0422	10

- Fuse-testing kit composed of fuse-testing device (654.0010) and facing with seat for fuse-tester and spare fuses

MBOX2 Series

656.

MBOX3 Series

657.



Description	Suitable for	Stand kit	
STAND KIT	MBOX2	656.0120	1
	MBOX3 MBOX5	657.0121	1

1.6



Empty enclosures

MBOX Series

Accessories for enclosures

1

INDUSTRY

MBOX2 Series

656.



Description

Turret fixing

TURRET FIXING KIT	656.0220	1		
MOUNTING/FIXING PLATE			656.0222	1
BACK CLOSING PLATE			656.0221	1

2

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4



MBOX Series
Pedestal application

Empty enclosures

MBOX Series



Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



Accessories and components

Suitable for	ACCESSORIES KIT	LIGHT KIT FOR MBOX	WALL MOUNTING BRACKETS KIT	CABLE SUPPORT KIT
MBOX2				654.0051 10
MBOX2 MBOX3 MBOX5		654.0003 10	654.0024 10	
MBOX3 MBOX5	654.0002 10			

1 The kit includes: 5x35mm² terminal block, M40 cable gland, wall mounting brackets, blank plate for 4 DIN modules.



MBOX2 Series
Wall fixing brackets kit and cable support kit

1.6



Empty enclosures

MBOX Series

Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



Appliance inlets (kit)

APPLIANCE INLET

IP67

Current	Poles	Volt	h		
63A	3P+E	380-415V	6h	654.906396	1
				654.906397	1
125A	3P+N+E	346-415V		654.912597	1

1

INDUSTRY

2

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4

Empty enclosures EASYBOX Series



Enclosures

EASYBOX Series

655.



Thermoplastic alloy

Stainless steel
Supplied with blank door
already mounted

Varnished metal
[suitable for inside use]

Modularity	Din	Version	Dimension	CABINET		
				Thermoplastic alloy	Stainless steel Supplied with blank door already mounted	Varnished metal [suitable for inside use]
M320	12 DIN (for row)	TYPE 1	320x370x210mm	655.0010 ^[1]	655.02101 ^[2]	655.0110 ^[1]
		TYPE 2	460x370x245mm	655.0020 ^[1]	655.02201 ^[2]	655.0120 ^[1]
M460	20 DIN (for row)	TYPE 3	460x520x245mm	655.0030 ^[1]	655.02301 ^[2]	655.0130 ^[1]
		TYPE 4	460x670x245mm	655.0040 ^[1]	655.02401 ^[2]	655.0140 ^[1]
M750	35 DIN (for row)	TYPE 5	755x715x345mm	655.0050 ^[1]	655.02501 ^[2]	655.0150 ^[1]

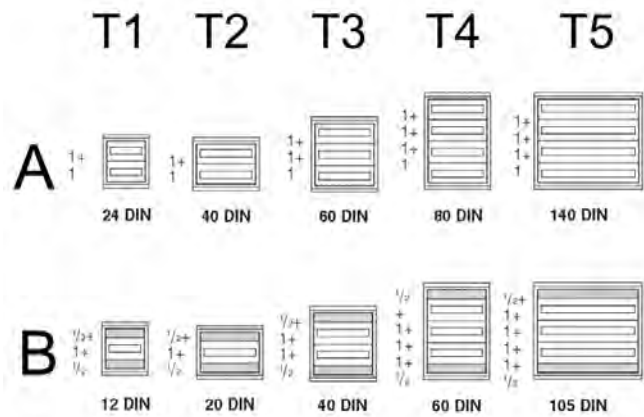
^[1] Base supplied without door

^[2] Base supplied with blank door already mounted



EASYBOX Series

Key:
LT = Thermoplastic alloy
MV = Varnished metal
Al = Stainless steel



EASYBOX Series

Possible formats

1.6



Empty enclosures

EASYBOX Series

Enclosures

EASYBOX Series

655.



**Thermoplastic alloy -
Base + door + panels +
DIN rails**

Modularity	Din	Version	Dimension	CABINET	
M460	20 DIN (for row)	TYPE 2	460x370x245mm	655.0020-K40	1
		TYPE 3	460x520x245mm	655.0030-K60	1
		TYPE 4	460x670x245mm	655.0040-K80	1

Plain door

EASYBOX Series

655.



Thermoplastic alloy



Varnished metal

Modularity	Version	PLAIN DOOR			
M320	TYPE 1	655.0011	1	655.0111	1
	TYPE 2	655.0021	1	655.0121	1
M460	TYPE 3	655.0031	1	655.0131	1
	TYPE 4	655.0041	1	655.0141	1
M750	TYPE 5	655.0051	1	655.0151	1

Empty enclosures EASYBOX Series



■ Transparent door

EASYBOX Series

655.



Thermoplastic alloy -
Fumé



Varnished metal - Door
with marine window

Modularity	Version	DOOR WITH WINDOW			
		Part No.	Qty	Part No.	Qty
M320	TYPE 1	655.0012	1	655.0112	1
	TYPE 2	655.0022	1	655.0122	1
M460	TYPE 3	655.0032	1	655.0132	1
	TYPE 4	655.0042	1	655.0142	1
M750	TYPE 5	655.0052	1	655.0152	1

■ Mounting plate and internal door

EASYBOX Series

655.



Mounting plate
In thermoplastic
material



Mounting plate
Stainless steel smooth
zinc-coated



Internal door
Blank grey

Modularity	Version	Dimension	MOUNTING PLATE		INTERNAL DOOR	
			Part No.	Qty	Part No.	Qty
M320	TYPE 1	267x294mm	655.0014	1/4	655.0015	1/4
		267x294x4,5mm				
M460	TYPE 2	407x294mm	655.0024	1/4	655.0025	1/4
		407x294x4,5mm				
	TYPE 3	407x444mm	655.0034	1/2	655.0035	1/2
		407x444x4,5mm				
TYPE 4	407x594mm	655.0044	1/2	655.0045	1/2	
	407x594x4,5mm					655.0046
M750	TYPE 5	679x633mm	655.0054	1/2	655.0055	1/2
		679x633x4,5mm				

1.6



Empty enclosures

EASYBOX Series

■ "Bars up"

EASYBOX Series

655.



"bars up" - Mounting plate



"bars up" - Internal door

Modularity	Version	Dimension	MOUNTING PLATE	INTERNAL DOOR
M750	TYPE 5	267x633x2mm	655.00550 1/5	655.00560 1/4

■ Weather-proof enclosures - IP65

EASYBOX Series

655.



Chassis (couple)

Modularity	Version	UPRIGHT
M320 M460	TYPE 1 - 2	655.0019 1/8
M460	TYPE 3	655.0039 1/10
M460 M750	TYPE 4 - 5	655.0059 1/6

1

INDUSTRY

2

3

4

Empty enclosures

EASYBOX Series



Cabinet

EASYBOX Series

655.



Modular plates (1 module)

Modular plates (2 modules)

Modularity	Version	MODULAR PLATE	
		Part Number	Quantity
M320	TYPE 1	655.32011	1/8
M460	TYPE 2 - 3 - 4	655.46011	1/8
M750	TYPE 5	655.75011	1/6

- In metal, with brackets.

Standard panels [DIN]

EASYBOX Series

655.



DIN rail

Panel with DIN vent-hole

Modularity	Version	DIN RAIL		PANEL WITH DIN VENT-HOLE	
		Part Number	Quantity	Part Number	Quantity
M320	TYPE 1	655.32010	1/10	655.32020	1/5
M460	TYPE 2 - 3 - 4	655.46010	1/18	655.46020	1/4
M750	TYPE 5	655.75010	1/20	655.75020	1/12

1.6



Empty enclosures EASYBOX Series

Standard panels

1

INDUSTRY

EASYBOX Series

655.



Plain panel 1 module
h=150mm



Plain panel 1/2 module
[h=75mm]



Plain panel 1/4 module
"Sfalsapasso" h=37.5mm
(2 pc.)

Modularity	Version	PLAIN PANEL					
		Plain panel 1 module h=150mm		Plain panel 1/2 module [h=75mm]		Plain panel 1/4 module "Sfalsapasso" h=37.5mm (2 pc.)	
M320	TYPE 1	655.32021	1/8	655.32022 ^[1]	1/10		
M460	TYPE 2 - 3 - 4	655.46021	1/10	655.46022 ^[1]	1/10		
M750	TYPE 5	655.75021	1/24	655.75022	1/16	655.75023 ^[1]	1/18

^[1] 2 parts

2

3

4

Special panels

EASYBOX Series

655.



Panel for moulded-case
circuit breaker



Internal door panel with
lock

Modularity	Version	PANEL FOR MOULDED-CASE CIRCUIT		INTERNAL DOOR PANEL	
		Panel for moulded-case circuit breaker		Internal door panel with lock	
M320	TYPE 1	655.32024 ^[1]	1/5		
M460	TYPE 2 - 3 - 4	655.46024 ^[1]	1/4	655.46025	1/9
M750	TYPE 5	655.75024 ^[1]	1/10		

^[1] Includes metal plate with DIN rail

Empty enclosures EASYBOX Series



Accessories

EASYBOX Series

655.



Description	Version	Dimension	Pole fixing kit	
POLE FIXING KIT	TYPE 1	max Ø300mm	655.32090	1/3
	TYPE 5		655.75090	1
	TYPE 2 - 3 - 4		655.46090	1/3

EASYBOX Series

655.



Description	YALE KEY KIT		TRIPLE KEY KIT		Locking kit	
YALE KEY KIT					655.910	1/10
TRIPLE KEY KIT	655.900	10			655.911	1/10

EASYBOX Series

655.



Kit accessories

KIT FOR PADLOCKING	KIT BRACKETS	VENTILATION KIT	DOCUMENT HOLDER	METAL FIXING BRACKETS
655.920 ¹	655.930	655.950	655.960	655.970
1/10	1/10	1	1/10	1/10

¹ Not suitable for metal doors. Padlock not supplied.

1.6



Empty enclosures EASYBOX Series

Accessories

ENCLOSURES ACCESSORIES

654.



**Blank plate for DIN
modules**

Notes	Suitable for	Colour	Din	BLANK PLATE FOR DIN MODULES
70x50mm (10pz)	EASYBOX		4 DIN	654.0401 5/20

1

INDUSTRY

2

3

4

Empty enclosures KIOSK Series



Empty enclosures [METAL]

KIOSK Series

659.



Description	IP	Dimension	Version	Type BLOCK
EMPTY PILLAR BLOCK	IP56	400x1250x220mm	SINGLE-FACE	659.BA5040-00

- Pillar only, enclosures to be purchased separately.

KIOSK Series

659.



Description	IP	Dimension	Version	Type DOMINO
EMPTY PILLAR DOMINO METAL	IP66	487x1235x375mm	SINGLE-FACE	659.DA5041-00
			DOUBLE-FACE	659.DA5081-00
EMPTY PILLAR DOMINO S.STEEL			SINGLE-FACE	659.DB5041-00
			DOUBLE-FACE	659.DB5081-00

- Pillar only, enclosures to be purchased separately.

KIOSK Series

659.



Description	IP	Dimension	Version	Type MBOX
EMPTY PILLAR MBOX2 METAL	IP56	560x1235x350mm	SINGLE-FACE	659.MA5041-00
EMPTY PILLAR MBOX2 S.STEEL				659.MB5041-00

- Pillar only, enclosures to be purchased separately.

1.6



Empty enclosures KIOSK Series

Empty enclosures [PLAST]

KIOSK Series

659.

1

INDUSTRY



Description	IP	Dimension	Type SMART-C
EMPTY PILLAR SMART-C BASE			659.SCBASE
EMPTY PILLAR SMART-C	IP56	580x1400x450mm	659.SC5041-00 ¹ ²

2

3

4

- ¹ Structure not pre-drilled for the sockets
- ² Complete with lights kit



SMART-C
Water service detail

Empty enclosures KIOSK Series



■ Empty enclosures [PLAST]

KIOSK Series

659.



Description	IP	Dimension	Type SMART-K	
EMPTY PILLAR SMART-K	IP56	340x810x260mm	659.SK5041-00 ^[1] ^[2]	
EMPTY PILLAR SMART-K BASE			659.SKBASE	

[1] Structure not pre-drilled for the sockets

[2] Complete with lights kit



SMART-K

Dispensers also available with water service (upon request)

1.6



Empty enclosures KIOSK Series

Empty enclosures [PLAST]

KIOSK Series

659.



1
INDUSTRY

Description	IP	Dimension	Type SMART-X
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EMPTY PILLAR SMART-X NO LIGHT	IP56	368x980x318mm	659.SX5040-00
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- Structure not pre-drilled for the sockets
- Without lights kit

2

3

4

Empty enclosures [FIRE]

KIOSK Series

659.



Description	IP	Dimension	Version	Notes	Type SMART-C
-------------	----	-----------	---------	-------	--------------

EMPTY PILLAR SMART-C FIRE	IP56	580x1400x450mm	FIRE EXTINGUISHER		659.SCFIRE-E^[1]
			FIRE HOSE	UNI45 - 20m	659.SCFIRE-M^[2]

[1] Fire extinguisher not included

[2] Fire hose included

KIOSK Series

659.



Description	IP	Dimension	Version	Notes	Type SMART-K
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EMPTY PILLAR SMART-K FIRE	IP56	340x810x260mm	FIRE EXTINGUISHER		659.SKFIRE-E^[1]
			FIRE HOSE	UNI45 - 20m	659.SKFIRE-M^[2]

[1] Fire extinguisher not included

[2] Fire hose included

Empty enclosures GOMMA Series



■ Empty enclosures - IP54

GOMMA Series

692.



Type 1

IP	Dimension	DISTRIBUTION ASSEMBLY	
IP54	235x235x180mm	692.4202-00	1
	400x400x275mm	692.4201-00	1



GOMMA Series
Example of panel available in customized configuration.

1.6



Empty enclosures GOMMA Series

Empty enclosures - IP54

1
INDUSTRY

GOMMA Series

692.



Type 3

IP	Dimension	DISTRIBUTION ASSEMBLY	
IP54	270x270x231mm	692.4203-00	1

GOMMA Series

692.



Type 4

IP	Dimension	DISTRIBUTION ASSEMBLY	
IP54	210x260x98mm	692.4204-00	1
	230x130x70mm	692.4206-00	1
	380x130x83mm	692.4205-00	1

GOMMA Series

690.

692.



Type A - One front units

Installation	IP	No. Modules	Dimension	Power	DISTRIBUTION ASSEMBLY	SURFACE MOUNTING ENCLOSURE
SURFACE MOUNTING	IP54	12 MOD.	380x260x130mm	20W		692.4200-00
PORTABLE					690.4200-00 ¹	1

¹ Complete with handle

Empty enclosures GOMMA Series



■ Empty enclosures - IP54

GOMMA Series
692.



Type B - Two front units

IP	No. Modules	Dimension	Power	DISTRIBUTION ASSEMBLY	
IP54	8 MOD.	325x260x196mm	14W	692.4300-00	1

■ Accessories for enclosures

GOMMA Series
692.



Description

Kit tubular stand

TUBULAR STAND	692.4330	1
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ENCLOSURES ACCESSORIES
654.



Description

Suitable for

Handle kit A

HANDLE KIT	DOMINO IP66 GOMMA	654.0060	1/10
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1.6



Empty enclosures GOMMA Series

Accessories for enclosures

ENCLOSURES ACCESSORIES

654.



1
INDUSTRY

2

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4

Description	Notes	Din	IP	Kit window A	
KIT FOR PADLOCKING				654.0077	10
		8 DIN			654.0141-08 10
	+ KIT DIN	12 DIN			654.0141-12 10
		6 DIN			654.0141-06 10
WINDOW KIT		8 DIN	IP65	654.0140-08	10
		12 DIN		654.0140-12	10
		6 DIN		654.0140-06	10
SCREW KNOBS KIT				654.0140	50

Empty enclosures EMERGENCY Series

SCAME

■ Emergency switchboards

EMERGENCY Series

676.



Description	Colour	Installation	Dimension	Emergency switchboards
ENC. FOR EMERGENCY SYSTEMS		FLUSH MOUNTING	100x100x50mm	676.25100 1/13
<ul style="list-style-type: none"> - With 1 NO contact and 1 NC contact (2A, 250V) - Complete with glass-breaking hammer. - Can be mounted in flush mounting box with centre-to-centre distance 83.5 mm. - With illuminated push button (24V incandescent or 250V fluorescent bayonet lamp -12V). 				

EMERGENCY Series

676.



Description	Colour	Installation	Dimension	Emergency switchboards
ENC. FOR EMERGENCY SYSTEMS		SURFACE MOUNTING	100x100x50mm	676.35100 1/14
<ul style="list-style-type: none"> - With 1 NO contact and 1 NC contact (2A, 250V) - Complete with glass-breaking hammer. - With illuminated push button (24V incandescent or 250V fluorescent bayonet lamp -12V). 				

EMERGENCY Series

676.



Description	Colour	Installation	Dimension	Notes	Emergency switchboards
ENC. FOR EMERGENCY SYSTEMS		SURFACE MOUNTING	205x220x140mm	6 DIN	676.35201 1/6
<ul style="list-style-type: none"> - Equipped with flange to facilitate junctions. 					

1.6



Empty enclosures EMERGENCY Series

Emergency switchboards

EMERGENCY Series

676.



1

INDUSTRY

Description	Colour	Installation	Dimension	Emergency switchboards
ENC. FOR EMERGENCY SYSTEMS - Equipped with flange to facilitate junctions. - With bottom plate		SURFACE MOUNTING	205x220x140mm	676.35205 1/6

2

3

4

EMERGENCY Series

676.





Description	Dimension	Kit accessories
METAL FIXING BRACKETS		676.10103 20
BREAKABLE GLASS	100x100mm	676.10101 10
GLASS BREAKER		676.10102 10

Empty enclosures SCABOX Series

SCAME

■ Junction boxes >> Box with cable sleeves

		SCABOX Series	
		680.	685.
			
		Clipped cover	Screw cover
JUNCTION BOX			
IP55			
GW 650°C			
Dimension	Cable outlet	Entries	
Ø65x40mm	PG 16	4xØ23mm	680.001 4/100
Ø80x40mm			680.002 4/100
80x80x40mm			680.003 4/60
100x100x50mm	PG 21	6xØ29mm	685.004 1/48
120x80x50mm			685.005 1/54
150x110x70mm			685.006 ^[1] 1/40
190x140x70mm	PG 29	10xØ38mm	685.007 ^[1] 1/24
240x190x90mm			685.008 ^{[2][1]} 1/12
300x220x120mm			685.009 ^{[2][1]} 1/6
380x300x120mm	PG 36	12xØ48mm	685.010 ^{[2][1]} 1/4
460x380x130mm			685.011 ^{[2][3]} 1

[1] It is possible to use the wall mounting brackets kit item 654.0021 (K1)

[2] Suitable for the hinges mounting

[3] It is possible to use the wall mounting brackets kit item 654.0023 (K2)

1.6



Empty enclosures SCABOX Series

■ Junction boxes >> Box with blank sides

1
INDUSTRY

SCABOX Series

686.



IP56 - Lower box - Blank cover



IP56 - Lower box - Clear cover

JUNCTION BOX

IP56

GW 650°C

Dimension

Dimension	Part Number	Quantity	Part Number	Quantity
100x100x50mm	686.204	1/40	686.224	1/40
120x80x50mm	686.205	1/42	686.225	1/42
150x110x70mm	686.206 ^[1]	1/48	686.226 ^[1]	1/48
190x140x70mm	686.207 ^[1]	1/30	686.227 ^[1]	1/30
240x190x90mm	686.208 ^{[2][1]}	1/16	686.228 ^{[2][1]}	1/16
300x220x120mm	686.209 ^{[2][1]}	1/8	686.229 ^{[2][1]}	1/8
380x300x120mm	686.210 ^{[2][1]}	1/4	686.230 ^{[2][1]}	1/4
450x370x130mm	686.211 ^{[2][3]}	1	686.231 ^{[2][3]}	1

[1] It is possible to use the wall mounting brackets kit item 654.0021 (K1)

[2] Suitable for the hinges mounting

[3] It is possible to use the wall mounting brackets kit item 654.0023 (K2)

SCABOX Series

686.



IP56 - Higher box - Blank cover



IP56 - Higher box - Clear cover

JUNCTION BOX

IP56

GW 650°C

Dimension

Dimension	Part Number	Quantity	Part Number	Quantity
100x100x80mm	686.404	1/24	686.424	1/24
240x190x125mm	686.408 ^[1]	1/6	686.428 ^[1]	1/6
300x220x170mm	686.409 ^[1]	1/6	686.429 ^[1]	1/6
380x300x170mm	686.410 ^{[1][2]}	1/3	686.430 ^{[1][2]}	1/3
450x370x180mm	686.411 ^{[1][3]}	1	686.431 ^{[1][3]}	1

[1] Suitable for the hinges mounting

[2] It is possible to use the wall mounting brackets kit item 654.0021 (K1)

[3] It is possible to use the wall mounting brackets kit item 654.0023 (K2)

Empty enclosures

SCABOX Series



■ Surface mounting junction boxes - Metal screws

ENCLOSURES ACCESSORIES

654.



Mounting plate

Dimension	Colour	MOUNTING PLATE	
190x140mm		654.0787	1/30
240x190mm		654.0788	1/20
300x220mm		654.0789	1/15
380x300mm		654.0790	1/10
460x380mm		654.0791	1/10

ENCLOSURES ACCESSORIES

654.



Description	Notes	Colour	Wall mounting kit	
FIXING PLUG			654.0022 ¹	100/2000
WALL MOUNTING BRACKETS KIT	K1 (4 pz.)		654.0021	1/10
	K2 (4 pz.)			654.0023 1/10

¹ Suitable for SCABOX, CUBIK and CUBOX clipped cover box.

1.6



Empty enclosures

SCABOX Series

■ Surface mounting junction boxes - Metal screws

ENCLOSURES ACCESSORIES

654.



1

INDUSTRY

Description	Notes	Colour	Kit accessories	
HINGES KIT			654.0085	1/20
COVER SEALING KIT	MBOX - SCABOX (2 pz.)		654.0032	1/25
SEALING CAPS	(12 pz.)		654.0080 ^[1] ^[2]	10/100

[1] For providing total insulation e according to EN 60439-1.

[2] Only for surface mounting enclosure.

2

3

4





HF
HALOGEN FREE

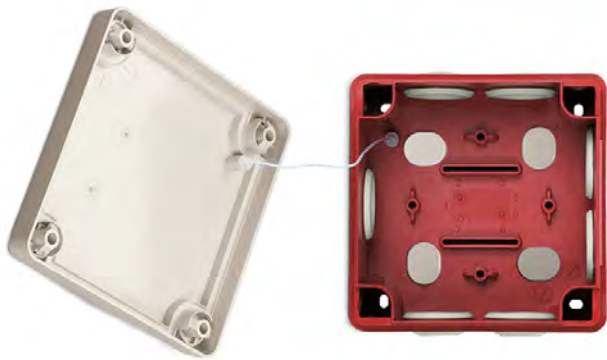
Empty enclosures CUBIK Series



■ Box with cable sleeves (release cover)

			CUBIK 650 Series		CUBIK 960 Series	
			687.		688.	
						
			 Glow wire 650°C - HALOGEN FREE		Glow wire 960°C	
			JUNCTION BOX			
			IP55			
			GW 650°C		GW 960°C	
Dimension	Cable outlet	Entries				
Ø65x35mm		4xØ23mm	687.001	4/100	688.001	4/100
Ø80x40mm	Ø23MM	4xØ23mm	687.002	4/100	688.002	4/100
80x80x40mm		7xØ23mm	687.003	4/60	688.003.R ¹	4/60

¹ Box base red colored



CUBIK Series

Glow wire 960°C versions (also in red) are identifiable by the symbol marked on the external side.

1.6



Empty enclosures

CUBIK Series

■ Box with cable sleeves (¼ turn plastic screw cover)

1
INDUSTRY

CUBIK 650 Series

687.

CUBIK 960 Series

688.



HF HALOGEN FREE
Glow wire 650°C -
HALOGEN FREE

Glow wire 960°C

2
3
4

				JUNCTION BOX				
				IP55				
				GW 650°C		GW 960°C		
Dimension	Cable outlet	Entries						
100x100x50mm		7xØ29mm	687.004	1/48	688.004.R ¹	1/48	688.004	1/48
120x80x50mm	Ø29MM	6xØ29mm	687.005	1/54	688.005.R ¹	1/54	688.005	1/54
150x110x70mm		10xØ29mm	687.006	1/40			688.006	1/40

¹ Box base red colored



CUBIK Series
Surface mounting junction boxes - ¼ plastic screws - Cable sleeve (insulation perforation)

HF
HALOGEN FREE

Empty enclosures CUBIK Series



■ Box with blank sides (¼ turn plastic screw cover)

	CUBIK 650 Series		CUBIK 960 Series	
	687.		688.	
	Glow wire 650°C - HALOGEN FREE		Glow wire 960°C	
	JUNCTION BOX			
	IP55			
	GW 650°C		GW 960°C	
Dimension				
100x100x50mm	687.204	1/40	688.204.R ¹	1/40
120x80x50mm	687.205	1/42	688.205.R ¹	1/42
150x110x70mm	687.206	1/48	688.206.R ¹	48

¹ Box base red colored

■ Surface mounting junction boxes - ¼ turn plastic screw cover

		ENCLOSURES ACCESSORIES	
		654.	
Description	Colour	Kit accessories	
FIXING PLUG		654.0022	100/2000

- Suitable for SCABOX, CUBIK and CUBOX clipped cover box.

1.6



Empty enclosures

CUBOX Series

■ Surface mounting junction boxes - ¼ turn plastic screw cover

CUBOX Series

689.



Glow wire 650°C -
Version with cable
sleeves (Release cover)



Glow wire 650°C -
Version with cable
sleeves (¼ turn screw
cover)



Glow wire 650°C -
Version with blank sides
(¼ turn screw cover)

JUNCTION BOX

IP55

GW 650°C

Dimension	Cable outlet	Entries				
Ø65x40mm		4xØ23mm	689.001	4/100		
Ø80x40mm	Ø23MM	4xØ23mm	689.002	4/100		
80x80x40mm		7xØ23mm	689.003	4/60		
100x100x50mm	Ø29MM	7xØ29mm			689.004	48
						689.204 40
120x80x50mm	Ø29MM	6xØ29mm			689.005	54
						689.205 42
150x110x70mm	Ø29MM	10xØ29mm			689.006	40
						689.206 48

1

INDUSTRY

2

3

4

Empty enclosures BEEBOX Series



Enclosures

BEEBOX Series

639.



Description	IP	Colour	Dimension	Enclosures
SURFACE MOUNTING ENCLOSURE	IP41	■	200x150x40mm	639.1040 26
			200x150x60mm	639.1060 38
			200x150x80mm	639.1080 25
			200x300x120mm	639.2120 8
			200x300x40mm	639.2040 24
			200x300x60mm	639.2060 18
			200x300x80mm	639.2080 12
			400x300x120mm	639.4120 4
			400x300x60mm	639.4060 8
			400x300x80mm	639.4080 6



BEEBOX Series
Enclosures (200x150mm - 200x300mm - 400x300mm)

1.6

Empty enclosures WBOX Series

■ Flush mounting boxes

WBOX Series

875.



Description

Colour

Dimension

Telephone flush
mounting box

FLUSH MOUNTING BOX



70x70mm

875.4301

12/60

- Provided complete with box, cover and screws.

■ Flush mounting round box ø65mm

WBOX Series

875.



Description

Colour

Dimension

Flush junction boxes

Cover

FLUSH MOUNTING BOX



ø65mm

875.4201^[1]

500

COVER WITH FASTENERS



ø80mm

875.4501^[2]

50/600

875.4502^[2]

40/480

^[1] Provided without cover and screw.

^[2] Supplied as spare parts.

Empty enclosures WBOX Series



■ Flush mounting box 3 modules

		DATATEL Series		WBOX Series	
		180.		875.	
Description	Colour	Dimension	Cover (screws not included)	Flush mounting junction boxes	Protective cover
SCREW-DOWN COVER		83,5mm	180.692 12/72		
FLUSH MOUNTING BOX				875.4303 ¹ 6/300	
PROTECTIVE COVER		108x74mm			875.4603 ² ³ 120

¹ Provided without cover and screw.

² For 3-module boxes item 875.4303.

³ Clip cover

■ Flush mounting junction boxes - Provided complete with box, cover and screws

		WBOX Series	
		875.	
Description	Colour	Dimension	Flush mounting junction boxes
FLUSH MOUNTING BOX		92x92x45mm	875.4410 1/170
		118x96x50mm	875.4411 1/120
		118x96x70mm	875.4411P 90
		153x98x70mm	875.4412 1/70
		160x130x70mm	875.4413 1/44
		196x152x70mm	875.4414 ¹ 1/40
		294x152x70mm	875.4415 ¹ 1/24
		392x152x70mm	875.4416 ¹ 1/20
		480x160x70mm	875.4417 ¹ 1/12

¹ Provided without separator.

- Provided complete with box, cover and screws.

1.6



Empty enclosures

WBOX Series

■ Flush mounting junction boxes - Provided complete with box, cover and screws


WBOX Series

875.



1

INDUSTRY

Description	Colour	Dimension	Separator
SEPARATOR		152mm	875.4490 25/200
		160mm	875.4491 25/200

- Application: to divide electric circuits.

2


3

4

WBOX Series

875.



Description	Colour	Dimension	Cover (screws not included)
SCREW-DOWN COVER		92x92mm	875.4510 5/100
		118x96mm	875.4511 5/160
		153x98mm	875.4512 5/140
		160x130mm	875.4513 5/80
		196x152mm	875.4514 5/60
		294x152mm	875.4515 2/40
		392x152mm	875.4516 2/30
SCREWS FOR COVERS		480x160mm	875.4517 2/24
		3x19mm	875.4500 1/120

Empty enclosures

WBOX Series



■ Flush mounting junction boxes - Provided complete with box, cover and screws

WBOX Series

875.



Description	Colour	Dimension	Protective cover	
PROTECTIVE COVER		92x92mm	875.4610	5/100
		118x96mm	875.4611	5/160
		153x98mm	875.4612	5/140
		160x130mm	875.4613	5/80
		196x152mm	875.4614	5/60
		294x152mm	875.4615	2/40
		392x152mm	875.4616	2/30
		480x160mm	875.4617	2/24

- Clip cover

1.6



Empty enclosures

ALUBOX Series

Aluminium junction boxes

ALUBOX Series

653.



1
INDUSTRY

Description	IP	Colour	Dimension	Enclosures
JUNCTION BOX	IP66	Grey	100x100x59mm	653.00 ☞ 1/32
			140x115x60mm	653.01 ☞ 1/24
			166x142x64mm	653.02 ☞ 1/16
			192x168x80mm	653.03 ☞ 1/12
			253x217x93mm	653.04 ☞ 1/6
			314x264x122mm	653.05 ☞ 1/2
			410x315x153mm	653.07 ☞ 1

☞ Flat head screw

☞ Counter-sunk head screw

- Enclosure and cover in die-cast aluminium.
- Externally varnished
- With stainless steel screws for attaching cover and self-tapping zincoated steel screws for earthing the enclosure and cover.



EPDM

Holding seal in expanded EPDM, already mounted in place on the cover



Aluminium

Enclosures and covers in aluminium alloy with blank walls and covered.

Empty enclosures ALUBOX Series



■ Aluminium junction boxes

ALUBOX Series

653.



Description	Colour	Dimension	Mounting plates
MOUNTING PLATE		140x115x60mm	653.011 1/40
		166x142x64mm	653.012 1/20
		192x168x80mm	653.013 1/20
		253x217x93mm	653.014 1/10
		314x264x122mm	653.015 1/10
		410x315x153mm	653.017 1/5

- Zinc-coated steel plate
- With zinc-coated steel self-tapping screws for attaching the plate

ALUBOX Series

653.



Description	Colour	Dimension	DIN RAIL KIT
DIN RAIL KIT		100x100x59mm	653.020 1/25
		140x115x60mm	653.021 1/25
		166x142x64mm	653.022 1/20
		192x168x80mm	653.023 1/25
		253x217x93mm	653.024 1/20
		314x264x122mm	653.025 1/30
		410x315x153mm	653.027 1/50

1.6



1.7

Light-fittings

- MIZAR Series
Light-fittings for fixed installations -
60W
- HYDRA Series
Light-fittings for fixed installations -
100W
- HALE Series
Portable lighting - 60W





Light-fittings MIZAR Series

Light-fittings for fixed installations - 60W

1

INDUSTRY

2

3


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MIZAR Series

780.



For incandescent lamps Thermoplastic diffuser

Lamp power	Lamp holder	Colour	BULKHEAD LIGHT	
			RECTANGULAR	IP44
60W	B22		780.2262	12
	E27		780.2762	12

- Thermoplastic diffuser. For continuous use, use the version with polycarbonate diffuser.
- Electric bulb not included.



MIZAR Series

781.

786.



For incandescent lamps Polycarbonate diffuser

Lamp power	Lamp holder	Colour	BULKHEAD LIGHT			
			RECTANGULAR		IP55	
60W	B22		781.2261	1/12	786.2261	1/12
		TRANSPARENT	781.2260	1/12	786.2260	1/12
	E27		781.2761	1/12	786.2761	1/12
		TRANSPARENT	781.2760	1/12	786.2760	1/12

- Polycarbonate diffuser
- Electric bulb not included.

Light-fittings

MIZAR Series



Light-fittings for fixed installations - 60W

MIZAR Series

781.



Red bulkhead lights for indicating working areas [E27]

IP	Lamp holder	Volt	Cable length	Notes	Colour	BULKHEAD LIGHT RECTANGULAR	
IP44	E27	24V	10m	x1 LAMP.	■	781.2761/1	1
			10+6m	x2 LAMP.		781.2761/2	1
			10+6+6+1m	x3 LAMP.		781.2761/3	1

- Rubber cable, 2x1.5mm².
- Diffuser colour: red.
- Bulb included, E27 25W 24V~.



LV-LUX Series

Distribution assemblies for night-time power supply of lights indicating working areas (art. 630.001 / 630.002)

1.7



Light-fittings

MIZAR Series

Light-fittings for fixed installations - 60W

MIZAR Series

786.



**Red bulkhead lights for
indicating working areas
[LED+BATTERY]**

BULKHEAD LIGHT

RECTANGULAR

786.0100

1/12

IP	Lamp holder	Colour
IP55	LED	Red

Power supply: four 1.5V "AA" batteries (not included).

- Switching on: automatic with twilight switch.
- Double operation: fixed light and flashing with switch that selects the desired function.

1

INDUSTRY

2

3

4

Light-fittings

MIZAR Series



Light-fittings for fixed installations - 60W

MIZAR Series

786.



Red bulkhead lights for indicating working areas [LED]

IP	Lamp holder	Colour	BULKHEAD LIGHT RECTANGULAR	
IP55	LED		786.0200 ¹	1/12
			786.0210 ²	1/12
			786.0220 ³	1/12

- ¹ Automatic twilight turn-on. Fixed light.
- ² Automatic twilight turn-on. Two operation modes: fixed light or flashing light. With mode selector switch.
- ³ Direct turn-on (without twilight turn-on) and fixed light
 - With 220V-powered LED flasher.



MIZAR Series

MIZAR Series light-fittings are fitted with a slot on the rear of the base for hooking onto a nail, screw or hook, or for fastening to poles, pipes, bars or scaffolding using one or two cable ties.

1.7



Light-fittings

HYDRA Series

Light-fittings for fixed installations - 100W

1
INDUSTRY

HYDRA Series

791.

796.



Bulkhead light ROUND

Version	IP	Lamp power	Lamp holder	BULKHEAD LIGHT	
ROUND	IP44	100W	B22	791.12210 ^[1]	1/6
			E27	791.12710 ^[2]	1/6
	IP65		B22	796.12210 ^[1]	1/6
			E27	796.12710 ^[2]	1/6

[1] Lampholder in porcelain

[2] Lampholder in resin

- Diffuser and shell in polycarbonate.
- Lighting devices for fixed installation
- Steel screws with galvanised anti-rust treatment.
- Reflecting parabola in aluminium.

HYDRA Series

791.

796.



Bulkhead light SQUARE

Version	IP	Lamp power	Lamp holder	BULKHEAD LIGHT	
SQUARE	IP44	100W	B22	791.22210 ^[1]	1/6
			E27	791.22710 ^[2]	1/6
	IP65		B22	796.22210 ^[1]	1/6
			E27	796.22710 ^[2]	1/6

[1] Lampholder in porcelain

[2] Lampholder in resin

- Diffuser and shell in polycarbonate.
- Lighting devices for fixed installation
- Steel screws with galvanised anti-rust treatment.
- Reflecting parabola in aluminium.

Light-fittings

HYDRA Series



Light-fittings for fixed installations - 100W

HYDRA Series

791.

796.



Bulkhead light OVAL

Version	IP	Lamp power	Lamp holder	BULKHEAD LIGHT		
OVAL	IP44	100W	B22	791.32210 ^[1]	1/6	
			E27	791.32710 ^[2]	1/6	
	IP65		B22		796.32210 ^[1]	1/6
			E27		796.32710 ^[2]	1/6

[1] Lampholder in porcelain

[2] Lampholder in resin

- Diffuser and shell in polycarbonate.
- Lighting devices for fixed installation
- Steel screws with galvanised anti-rust treatment.
- Reflecting parabola in aluminium.

HYDRA Series

790.



Decorative frames

Version	Colour	FRAME	
ROUND		790.101	1/6
		790.102	1/6
OVAL			790.301 1/6
			790.302 1/6

1.7



Light-fittings

HALE Series

Portable lighting - 60W

HALE Series

770.



With protective guard and zinc-plated steel reflector

PORTABLE LAMP

STANDARD LID

HEAVY DUTY

IP20

60W

E27

Plug	Volt	Cable length	Cable	Cable section		
☹	250V	5m	H05VV-F	2x0,75mm ²	770.207	1/24
		10m			770.208	1/18
		without cable			770.200	1/24
					770.250	1/24

Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

- Protective guard that can be opened for light bulb replacement.
- Lighting devices with protective guard and zinc-plated steel reflector:
- Handgrip in insulating, non-hygroscopic thermoplastic material with tilting system that prevents the lamp, when placed on a flat surface, to directly irradiate said surface and thus prevent dangerous overheating.
- Tapered cable gland
- Cable gland
- Adjustable hook.
- Rocker switch and screw clamp for cable replacement.
- For lamps up to 60W (incandescent)
- Screw cable stay.
- Cable H05VV-F (PVC)



2P+E-16A-(S17)

Light-fittings

HALE Series



Portable lighting - 60W

HALE Series

770.



With impact-resistant protective diffuser

						PORTABLE LAMP				
						IP65	IP20			
						60W				
						E27				
Plug	Volt	Cable length	Cable	Cable section						
☰	250V	5m	H05VV-F	2x1mm ²			770.407 ¹ 1/6			
		10m					770.408 ¹ 1/6			
IEC309	24V	5m					770.405 1/6			
		10m					770.406 1/6			
	250V	5m					770.409 1/6			
		10m					770.410 1/6			
without cable							770.400 1/6			

¹ The degree of protection IP20 is due to preserve of plug for domestic use, while the apparatus is IP65; for example, if plugged into a socket in the garage the lamp can be used in the garden.

- Protective shell in collision-proof technopolymer
- Lighting devices with protective shell
- Cable H05RN-F (RUBBER)
- Handgrip in non-hygroscopic technopolymer.
- Cable gland
- Reflecting parabola in aluminium.
- Adjustable hook.
- Rocker switch and screw clamp for cable replacement.
- For lamps up to 60W (incandescent)
- Screw cable stay.

1.7



2

ASSEMBLIES

Combined units

2.1	Distribution assemblies	PAG. 374
2.2	Industrial adaptors	PAG. 424
2.3	Industrial cable reels	PAG. 440

2.1

Distribution assemblies

- **MBOX Series**
Distribution assemblies for construction site
- **MEGA Series**
Distribution assemblies for construction site
- **DOMINO Series**
Distribution assemblies
- **BLOCK Series**
Distribution assemblies
- **KIOSK Series**
Distribution pedestals terminals for campsites, public areas and marinas
- **GOMMA Series**
Rubber distribution assemblies
- **LV-LUX Series**
Distribution assemblies
- **TRANSFORMER Series**
ACS IP55 portable unit with safety and isolating transformer
- **MOBIL Series**
ACS IP55 distribution boxes with foldable stand
- **SALVAMOTORE Series**
Stop-start units and motor cut-out - IP55
- **Accessories and spare parts**





Distribution assemblies

MBOX Series

■ For construction sites >> Interlocked-switch sockets without fuse >> MBOX2

1

2

ASSEMBLIES

3

4

no.	Sockets					General	Max power	MCB	
	16A			32A				16A	
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E			1P	3P
4	2	1	1			MCB 4P 32A RCD 4P 40A 0,03A	18 KW	2	2
4	2	1		1		MCB 4P 32A RCD 4P 40A 0,03A	18 KW	2	1
4	2	2				MCB 4P 32A RCD 4P 40A 0,03A	18 KW	2	2
4	2			1	1	MCB 4P 32A RCD 4P 40A 0,03A	18 KW	2	

1 2m rubber cable H07RN-F

2 Plug IEC309 32A 3P+N+E

■ For construction sites >> Interlocked-switch sockets without fuse >> MBOX3

no.	Sockets				General	Max power	MCB		
	16A		32A				16A		32A
	2P+E	3P+E	3P+N+E	3P+N+E			1P	3P	
4	2	1	1		MCB 4P 63A RCD 4P 63A 0,03A	35 KW	2	1	1
4	2	2			MCB 4P 32A RCD 4P 40A 0,03A	18 KW	2	2	
5	2	2	1		MCB 4P 63A RCD 4P 63A 0,03A	35 KW	2	1	1
5	2	2		1	MCB 4P 63A RCD 4P 63A 0,03A	35 KW	2	1	1
5	3	1	1		MCB 4P 63A RCD 4P 63A 0,03A	35 KW		1	1

1 Appliance inlet IEC309 63A 3P+N+E

- With door



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Distribution assemblies

MBOX Series



MBOX2 Series

656.



Power supply with terminal block		Power supply with plug		Power supply with plug and emergency push button	
DISTRIBUTION ASSEMBLY (ACS)					
IP66		Plug		IP65	
Supply by terminal block		Plug			
656.7024-056	1	656.7124-056 ¹ ₂	1		
656.7024-006	1	656.7124-006 ¹ ₂	1	656.7824-006 ¹ ₂	1
656.7024-008	1	656.7124-008 ¹ ₂	1	656.7824-008 ¹ ₂	1
656.7024-611	1	656.7124-611 ¹ ₂	1	656.7824-611 ¹ ₂	1

MBOX3 Series

657.



Power supply with terminal block		Power supply with terminal block and emergency push button		Power supply with appliance inlet		Power supply with appliance inlet and emergency push button	
DISTRIBUTION ASSEMBLY (ACS)							
IP66		IP65		IP66		IP65	
Supply by terminal block				Appliance inlet			
657.8034-006	1						
657.8034-008	1						
657.8035-012	1	657.8935-012	1	657.8135-012 ¹	1	657.8835-012 ¹	1
657.8035-087	1	657.8935-087	1	657.8135-087 ¹	1	657.8835-087 ¹	1
657.8035-013	1	657.8935-013	1	657.8135-013 ¹	1	657.8835-013 ¹	1

2.1



Distribution assemblies

MBOX Series

■ For construction sites >> Interlocked-switch sockets without fuse >> MBOX5

ASSEMBLIES

1

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3

4

Sockets

no.	16A			32A		63A		General	Max power
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E	3P+E	3P+N+E		
10	4		2		2		2	RCBO 4P 100A 0,03A	55 KW
11	6		2		2		1	RCBO 4P 100A 0,03A	55 KW
6	2	1	1		1		1	RCBO 4P 100A 0,03A	55 KW
8	3	3		1		1		MCB 4P 100A	55 KW
9	4		3		1		1	MCB 4P 63A	35 KW

1 Appliance inlet IEC309 125A 3P+N+E

2 Appliance inlet IEC309 63A 3P+N+E

- With door

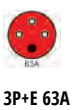
■ For construction sites >> Standard sockets >> MBOX2

Sockets

no.	16A			32A		General	Max power	MCB	
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E			16A	
								1P	3P
6	2	1		2	1	MCB 4P 32A	18 KW	3	2
6		4	2			MCB 4P 32A RCD 4P 40A 0,03A	18 KW	3	1
6		6				MCB 4P 32A RCD 4P 40A 0,03A	18 KW	6	

1 2m rubber cable H07RN-F

2 Plug IEC309 32A 3P+N+E



3P+E 63A



3P+N+E 63A



GERMAN STANDARD
2P+E 16A
Shuttered socket



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Distribution assemblies

MBOX Series



MBOX5 Series

658.



MCB		RCD 0,03A		Power supply with terminal block	Power supply with terminal block and emergency push button	Power supply with appliance inlet	Power supply with plug and emergency push button			
16A	32A	63A		DISTRIBUTION ASSEMBLY (ACS)						
1P	3P	4P		IP66	IP65	IP66	IP65			
				Supply by terminal block	Appliance inlet					
4	2	2	2	658.8050-702	1	658.8950-702	1	658.8150-702 ^[1]	1	658.8850-702 ^[1]
6	2	2	1	658.8050-705	1	658.8950-705	1			658.8850-705 ^[1]
2	2	1	1	658.8056-138	1	658.8956-138	1	658.8156-138 ^[1]	1	658.8856-138 ^[1]
3	3	1	1	658.8058-040	1			658.8158-040 ^[1]	1	
4	3	1	1	2	658.8059-043	1	658.8959-043	1	658.8159-043 ^[2]	1

MBOX2 Series

656.



Power supply with terminal block	Power supply with terminal block and emergency push button	Power supply with plug	Power supply with plug and emergency push button		
DISTRIBUTION ASSEMBLY (ACS)					
IP66	IP65	IP66	IP65		
Supply by terminal block		Plug			
656.7026-739	1				
656.7026-640	1	656.7126-640 ^{[1][2]}	1	656.7826-640 ^{[1][2]}	1
656.7026-639	1	656.7126-639 ^{[1][2]}	1	656.7826-639 ^{[1][2]}	1

2.1



Distribution assemblies

MBOX Series

■ For construction sites >> Standard sockets >> MBOX3










ASSEMBLIES

1

2

3

4

no.	Sockets					General	Max power	MCB	
	16A			32A				16A	
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E			1P+N	3P
9						MCB 4P 63A RCD 4P 63A 0,03A	35 KW	3	1
9						MCB 4P 63A RCD 4P 63A 0,03A	35 KW	5	1
9						MCB 4P 63A RCD 4P 63A 0,03A	35 KW	9	

- Appliance inlet IEC309 63A 3P+N+E



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Distribution assemblies

MBOX Series



MBOX3 Series

657.



**Power supply with
appliance inlet and
emergency push button**

MCB

16A			32A			DISTRIBUTION ASSEMBLY (ACS)
4P	3P	4P	4P	3P	4P	
	1	1	1			IP65 Appliance inlet
	1					657.8839-827 1
						657.8839-826 1
						657.8839-825 1

2.1



Distribution assemblies

MEGA Series

■ Distribution assemblies for construction site

ASSEMBLIES

1

2

3

4

no.	Sockets					Terminal block		Outlet w/switch	Terminal block	General	Max power	MCB				
	16A		32A	63A	125A	16A	40A	50A	80A			16A 32A 40A				
	2P+E	3P+E	3P+N+E		2P	3P+N			1P			3P	2P	3P	4P	
11						4	1	1	1	MCB 4P 160A	90 KW	2	2	4		1
12	4	4								MCB 4P 160A	90 KW					
8	4		2	1	1					MCB 4P 160A	90 KW	3			2	
9	4		4						1	MCB 4P 160A	90 KW	3			4	

no.	Sockets							General	Max power	MCB					RCBO 0,03A	
	24V	16A		32A	63A	125A	40A			10A	16A	32A	63A			
	2P	2P+E	3P+E	3P+N+E			1P			2P	1P	3P	4P			
2						1	1	MCB 4P 160A	90 KW						1	
7		1		2	1	3		MCB 4P 160A	90 KW							
9	2	2	2		2	1		DISC. 4P 250A	110 KW	1	2	2	2	2	1	3



3P+N+E 63A



3P+N+E 125A



24V



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+N+E 32A

Distribution assemblies

MEGA Series



MEGA Series

661.



Standard stand

MCB		MCB+RC relay	RCBO 0,03A	RCBO 0,3A	RCD 0,03A			DISTRIBUTION ASSEMBLY (ACS)		
50A 4P	63A 3P	125A	80A 4P	25A 2P	40A 4P	63A 2P	40A 4P	63A 4P	IP55	
			1		4		1	2	1	
	1	1				1			2	
				1		1			2	
									With terminal block I/O	
									661.0160-057	1
									661.0160-075	1
									661.0160-065	1
									661.0160-068	1

MEGA Series

661.



Reduced stand

RCBO reg.		RCD 0,03A		DISTRIBUTION ASSEMBLY (ACS)		
125A 4P	40A 4P	63A 4P	IP55			
	1					
		1				
			4			
						With terminal block I/O
						661.5160-053
						661.5160-160
						661.5250-008

2.1



Distribution assemblies DOMINO Series

■ With terminal blocks

DOMINO IP66 Series [assembly]

671.



Without emergency push
button

With emergency push
button

DISTRIBUTION ASSEMBLY (ACS)

IP66

IP65

Direct supply to main switch

General	Max power	Without emergency push button		With emergency push button	
		IP66	Direct supply to main switch	IP65	Direct supply to main switch
MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	671.2012-005	1		
MCB 2P 32A RCD 2P 40A 0,03A	6 KW	671.2012-009	1		
MCB 4P 16A RCD 4P 25A 0,03A	9 KW	671.2012-006	1		
MCB 4P 32A RCD 4P 40A 0,03A	18 KW	671.2012-004	1	671.2912-004	1
MCB 4P 63A RCD 4P 63A 0,03A	35 KW	671.2012-003	1	671.2912-003	1
MCB 4P 80A RCBO 4P 80A REG	45 KW	671.2016-008	1		
RCBO 4P 100A 0,03A	55 KW	671.2012-002	1	671.2912-002	1
RCBO 4P 125A	70 KW	671.2012-001	1	671.2912-001	1



2P+E 16A



3P+E 16A

Distribution assemblies DOMINO Series



■ With sockets [interlocked]

DOMINO IP66 Series [assembly]

670.



Portable - With cable
and IEC309 plug

Sockets

no.	16A		General	Max power	DISTRIBUTION ASSEMBLY (ACS)	
	2P+E	3P+E			IP44	IP66
2	1	1	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	670.3026-75 ^[1]	1
2	2		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	670.3026-77 ^[2]	1
4	2	2	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	670.6046-03 ^[1]	1
4	3	1	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	670.6046-08 ^[1]	1
4	4		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	670.6046-12 ^[2]	1

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

- 4m rubber cable H07RN-F

DOMINO IP66 Series [assembly]

671.



Surface mounting with
protection devices

no.	Sockets		General	Max power	MCB		DISTRIBUTION ASSEMBLY	
	2P+E	3P+E			16A	IP44		
2	1	1	-	12 KW	1	1	671.3020-75	1
2	2		-	6 KW	2		671.3020-77	1
4	1	3	-	30 KW	1	3	671.6040-07	1
4	2	2	-	24 KW	2	2	671.6040-03	1
4	4		-	12 KW	4		671.6040-95	1

Supply by terminal block

2.1



Distribution assemblies DOMINO Series

■ With sockets [interlocked]

DOMINO IP66 Series [assembly]

671.



Surface mounting -
partly wired
Without protection
devices

Sockets

16A

no.	Sockets			Supply	Volt	Poles	DISTRIBUTION ASSEMBLY	
	2P+E	3P+E	3P+N+E				IP44	IP66
2	1	1		-	400V	3P+N+E	671.3025-75	1
4	1	3		-	400V	3P+N+E	671.6045-07	1
4	2	2		-	400V	3P+N+E	671.6045-03	1
4	2		2	-	400V	3P+N+E	671.6045-06	1
4	3	1		-	400V	3P+N+E	671.6045-08	1
4	4			-	230V	2P+E	671.6045-95	1

■ With sockets [standard]

DOMINO IP66 Series [assembly]

670.



Portable - With cable
and IEC309 plug

no.	Sockets			General	Max power	MCB DISC.				DISTRIBUTION ASSEMBLY (ACS)			
	16A					16A		32A		IP66		Plug	
	2P+E	3P+E				1P	3P	1P	3P				
3	2	1		MCB 4P 16A RCD 4P 25A 0,03A	9 KW			2	1	670.3536-59 ^[1]	1		
3	3			MCB 2P 16A RCD 2P 25A 0,03A	3 KW			3		670.3536-62 ^[2]	1		
6	3	3		MCB 4P 16A RCD 4P 25A 0,03A	9 KW			3	1	670.6566-117 ^[1]	1		
6	3	3		RCD 4P 40A 0,03A	18 KW	3	1			670.6566-137 ^[3]	1		
6	6			RCD 4P 40A 0,03A	18 KW	6				670.6566-126 ^[3]	1		

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

[3] Plug IEC309 32A 3P+N+E

- 4m rubber cable H07RN-F



2P+E 16A



3P+E 16A



3P+N+E 16A

Distribution assemblies DOMINO Series



■ With sockets [standard]

DOMINO IP66 Series [assembly]

671.



Sockets				MCB		Surface mounting with protection devices				
no.	16A		General	Max power	16A		DISTRIBUTION ASSEMBLY		Supply by terminal block	
	2P+E	3P+E			1P	3P	IP44	IP66		
3	2	1	-	15 KW	2	1	671.3030-59	1	671.3530-59	1
3	3		-	9 KW	3		671.3030-97	1	671.3530-97	1
6	3	3	-	35 KW	3	3			671.6560-117	1

DOMINO IP66 Series [assembly]

671.



Sockets						Surface mounting - partially wired Without protection devices				
no.	16A		Supply	Volt	Poles	DISTRIBUTION ASSEMBLY				
	2P+E	3P+E				IP44	IP66			
3	2	1	-	400V	3P+N+E	671.3035-59	1	671.3535-59	1	
3	3		-	230V	2P+E	671.3035-97	1	671.3535-97	1	
6	3	3	-	400V	3P+N+E	671.6065-117	1	671.6565-117	1	

2.1



Distribution assemblies

BLOCK Series

Wired assemblies - Portable >> MCB protected versions

BLOCK Series

630.



1

2

ASSEMBLIES

3

4

Sockets

BLOCK3 [IP44]

BLOCK3 [IP66]

no.	16A					General	Max power	DISTRIBUTION ASSEMBLY			
	2P+E		3P+E					IP44	Plug		IP66
	1	2	1	2	3				1	1	
3	1		1	1		MCB 4P 16A	9 KW	630.3000-052 ^[1]	1		
3	1		2			MCB 2P 16A	3 KW	630.3000-054 ^[2]	1		
3	3					MCB 2P 16A	3 KW	630.3000-055 ^[2]	1		
3		1	2			MCB 2P 16A	3 KW	630.3000-056 ^[2]	1		
3			1	2		MCB 2P 16A	3 KW	630.3000-401 ^[2]	1		
3			1	2		MCB 4P 16A	9 KW	630.3000-060 ^[1]	1	630.3500-060 ^[1]	1
3			2	1		MCB 4P 16A	9 KW	630.3000-059 ^[1]	1	630.3500-059 ^[1]	1
3			3			MCB 2P 16A	3 KW	630.3000-062 ^[2]	1	630.3500-062 ^[2]	1
3				3		MCB 3P 16A	9 KW	630.3000-063 ^[3]	1	630.3500-063 ^[3]	1

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

[3] Plug IEC309 16A 3P+E

- 1,5m rubber cable H07RN-F



GERMAN STANDARD
2P+E 16A
Shuttered socket



FRENCH STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Distribution assemblies

BLOCK Series



■ Wired assemblies - Portable >> MCB protected versions

BLOCK Series

630.



Sockets

no.	Sockets						General	Max power	BLOCK4 [IP44]		BLOCK4 [IP66]	
	16A			32A					DISTRIBUTION ASSEMBLY			
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E	IP44			Plug	IP66		
4	1	1	1	1			MCB 4P 16A	9 KW	630.4000-001 ^[1]	1		
4	1	1	2				MCB 2P 16A	3 KW	630.4000-002 ^[2]	1		
4	2	2					MCB 2P 16A	3 KW	630.4000-010 ^[2]	1		
4		1	2		1		MCB 4P 16A	9 KW	630.4000-327 ^[4]	1	630.4500-327 ^[4]	1
4		1	3				MCB 4P 16A	9 KW	630.4000-007 ^[1]	1	630.4500-007 ^[1]	1
4		1		2		1	MCB 4P 16A	9 KW	630.4000-329 ^[4]	1	630.4500-329 ^[4]	1
4		2	1		1		MCB 4P 16A	9 KW	630.4000-326 ^[4]	1	630.4500-326 ^[4]	1
4		2	2				MCB 4P 16A	9 KW	630.4000-003 ^[1]	1	630.4500-003 ^[1]	1
4		2		1		1	MCB 4P 16A	9 KW	630.4000-328 ^[4]	1	630.4500-328 ^[4]	1
4		2		2			MCB 4P 16A	9 KW	630.4000-006 ^[1]	1	630.4500-006 ^[1]	1
4		3	1				MCB 4P 16A	9 KW	630.4000-008 ^[1]	1	630.4500-008 ^[1]	1
4		4					MCB 2P 16A	3 KW	630.4000-012 ^[2]	1	630.4500-012 ^[2]	1
4			4				MCB 3P 16A	9 KW	630.4000-013 ^[3]	1	630.4500-013 ^[3]	1

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

[3] Plug IEC309 16A 3P+E

[4] Plug IEC309 32A 3P+N+E

- 4m rubber cable H07RN-F

2.1



Distribution assemblies

BLOCK Series

■ Wired assemblies - Portable >> MCB+RCD protected versions [AS]

BLOCK Series

630.



BLOCK3 [IP44]

DISTRIBUTION ASSEMBLY

IP44

Plug

no.	Sockets			General	Max power	Product Code	Quantity
	16A	2P+E	3P+E				
3	1	1	1	RCBO 4P 16A 0,03A	9 KW	630.3006-052 ^[1]	1
3	1	2		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.3006-054 ^[2]	1
3	2	1		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.3006-362 ^[2]	1
3	3			MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.3006-055 ^[2]	1
3	1	2		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.3006-056 ^[2]	1

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

- 1,5m rubber cable H07RN-F



GERMAN STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



PLURISTANDARD P40
2P+E 16A
Shuttered socket

Distribution assemblies

BLOCK Series



■ Wired assemblies - Portable >> MCB+RCD protected versions [ASC]

BLOCK Series

630.



Sockets				General	Max power	BLOCK3 [IP44]		BLOCK3 [IP66]	
16A						DISTRIBUTION ASSEMBLY (ACS)			
no.	2P+E		3P+E			IP44	Plug	IP66	
	3	1	2		MCB 2P 16A RCD 2P 25A 0,03A	3 KW			630.3506-054 ^[2]
3	2	1		MCB 2P 16A RCD 2P 25A 0,03A	3 KW			630.3506-362 ^[2]	1
3	3			MCB 2P 16A RCD 2P 25A 0,03A	3 KW			630.3506-055 ^[2]	1
3	1	1	1	RCBO 4P 16A 0,03A	9 KW			630.3506-052 ^[1]	1
3	1	2		MCB 2P 16A RCD 2P 25A 0,03A	3 KW			630.3506-056 ^{[4][2]}	1
3		1	2	RCBO 4P 16A 0,03A	9 KW	630.3006-060 ^[1]	1	630.3506-060 ^[1]	1
3		2	1	RCBO 4P 16A 0,03A	9 KW	630.3006-059 ^[1]	1	630.3506-059 ^[1]	1
3		3		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.3006-062 ^[2]	1	630.3506-062 ^[2]	1
3			3	RCBO 4P 16A 0,03A	9 KW	630.3006-063 ^[3]	1	630.3506-063 ^[3]	1

^[1] Plug IEC309 16A 3P+N+E

^[2] Plug IEC309 16A 2P+E

^[3] Plug IEC309 16A 3P+E

^[4] Products with domestic standard sockets IP66 even with plug inserted.

- 1,5m rubber cable H07RN-F

2.1



Distribution assemblies

BLOCK Series

■ Wired assemblies - Portable >> MCB+RCD protected versions

BLOCK Series

630.



1
2
3
4
ASSEMBLIES

Sockets

BLOCK4 [IP44]

BLOCK4 [IP66]

no.	16A					General	Max power	DISTRIBUTION ASSEMBLY (ACS)			
	no.	2P+E		3P+E	3P+N+E			IP44		IP66	
		no.	no.	no.	no.			Plug			
4	1	1	1	1		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4006-001 ^[1]	1	630.4506-001 ^[1]	1
4	1	1	2			MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.4006-002 ^[2]	1	630.4506-002 ^[2]	1
4	2	2				MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.4006-010 ^[2]	1	630.4506-010 ^[2]	1
4			1	3		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4006-007 ^[1]	1	630.4506-007 ^[1]	1
4			2	2		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4006-003 ^[1]	1	630.4506-003 ^[1]	1
4			2		2	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4006-006 ^[1]	1	630.4506-006 ^[1]	1
4			3	1		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4006-008 ^[1]	1	630.4506-008 ^[1]	1
4			4			MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.4006-012 ^[2]	1	630.4506-012 ^[2]	1
4				4		MCB 3P 16A RCD 4P 25A 0,03A	9 KW	630.4006-013 ^[3]	1	630.4506-013 ^[3]	1
4					4	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4006-188 ^[1]	1		

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

[3] Plug IEC309 16A 3P+E

- 4m rubber cable H07RN-F



GERMAN STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A

Distribution assemblies

BLOCK Series



■ Wired assemblies - Portable >> MCB+RCD protected versions

BLOCK Series

630.



Sockets				General	Max power	Portable with support With IEC309 cable and plug	Portable with support With IEC309 cable and plug		
16A			DISTRIBUTION ASSEMBLY (ACS)			IP44	IP66		
no.	2P+E	3P+E	3P+N+E			Plug			
4	2	2		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4106-003 ^[1]	1	630.4606-003 ^[1]	1
4	2		2	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4106-006 ^[1]	1		
4	3	1		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	630.4106-008 ^[1]	1	630.4606-008 ^[1]	1
4	4			MCB 2P 16A RCD 2P 25A 0,03A	3 KW	630.4106-012 ^[2]	1	630.4606-012 ^[2]	1
4		4		MCB 3P 16A RCD 4P 25A 0,03A	9 KW	630.4106-013 ^[3]	1	630.4606-013 ^[3]	1

[1] Plug IEC309 16A 3P+N+E

[2] Plug IEC309 16A 2P+E

[3] Plug IEC309 16A 3P+E

- Support with roof in steel: allows the distribution assembly to be sustained for a correct earth usage.

2.1



Distribution assemblies

BLOCK Series

Wired assemblies - Portable

BLOCK Series

630.



ASSEMBLIES

1

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3

4

Sockets				MCB DISC.		With safety transformer		
				6A	10A	16A	DISTRIBUTION ASSEMBLY (ACS)	
				1P+N	1P		IP44	IP66
no.	24V	16A				Plug		
	2P	2P+E	3P+E					
				General	Max power			
4	2	1	1	RCBO 4P 16A 0,03A	9 KW	1		630.4009-017 ^[2] 1 630.4509-017 ^[2] 1
4	2	2		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	1	2	630.4009-323 ^[1] 1 630.4509-323 ^[1] 1
4	2		2	RCBO 4P 16A 0,03A	9 KW	1		630.4009-016 ^[2] 1 630.4509-016 ^[2] 1
4	4			MCB 1P+N 3A	Trafo 300 VA (230/24V)	1		630.4009-014 ^[1] 1 630.4509-014 ^[1] 1

^[2] Safety transformer 220/24V~ - SELV

^[1] Plug IEC309 16A 2P+E

^[2] Plug IEC309 16A 3P+N+E

- 4m rubber cable H07RN-F



CombiFinder

ScameOnLine

Discover the new application directly on the web: www.scame.com/CombiFinder.asp
An application to help you find just the right assembled panel you need!

"CombiFINDER" allows you to quickly find a pre-assembled panel available from SCAME PARRE S.p.A., already certified and ready for use, with immediate shipping to your local wholesaler!



24V



2P+E 16A



3P+E 16A



GERMAN STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50

Distribution assemblies

BLOCK Series



■ Wired assemblies - Surface mounting >> MCB protected versions

BLOCK Series

632.



Sockets							BLOCK3 [IP44]		BLOCK3 [IP66]	
					DISTRIBUTION ASSEMBLY					
							IP44		IP66	
					Direct supply to main switch					
no.	16A				General	Max power				
	2P+E	3P+E								
3	1	1	1		MCB 4P 16A	9 KW	632.3000-052	1		
3	1	2			MCB 1P+N 16A	3 KW	632.3000-054	1		
3	3				MCB 1P+N 16A	3 KW	632.3000-055	1		
3	1	2			MCB 1P+N 16A	3 KW	632.3000-056	1		
3		1	2		MCB 4P 16A	9 KW	632.3000-060	1	632.3500-060	1
3		2	1		MCB 4P 16A	9 KW	632.3000-059	1	632.3500-059	1
3		3			MCB 1P+N 16A	3 KW	632.3000-062	1	632.3500-062	1
3			3		MCB 3P 16A	9 KW	632.3000-063	1	632.3500-063	1

2.1



Distribution assemblies

BLOCK Series

■ Wired assemblies - Surface mounting >> MCB protected versions

BLOCK Series

632.



1

2

ASSEMBLIES

3

4

Sockets

BLOCK4 [IP44]

BLOCK4 [IP66]

no.	Sockets						General	Max power	DISTRIBUTION ASSEMBLY			
	16A			32A					IP44	IP66		
	2P+E	3P+E	3P+N+E	Direct supply to main switch		Direct supply to main switch						
4	1	1	1	1			MCB 4P 16A	9 KW	632.4000-001	1		
4	1	1	2				MCB 1P+N 16A	3 KW	632.4000-002	1		
4	2	2					MCB 1P+N 16A	3 KW	632.4000-010	1		
4	2		1	1			MCB 4P 16A	9 KW	632.4000-342	1		
4			1	3			MCB 4P 16A	9 KW	632.4000-007	1	632.4500-007	1
4			1		2	1	MCB 4P 16A	9 KW	632.4000-329	1	632.4500-329	1
4			2	2			MCB 4P 16A	9 KW	632.4000-003	1	632.4500-003	1
4			2		1	1	MCB 4P 16A	9 KW	632.4000-328	1	632.4500-328	1
4			2		2		MCB 4P 16A	9 KW	632.4000-006	1	632.4500-006	1
4			3	1			MCB 4P 16A	9 KW	632.4000-008	1	632.4500-008	1
4			4				MCB 2P 16A	3 KW	632.4000-012	1	632.4500-012	1
4				4			MCB 3P 16A	9 KW	632.4000-013	1	632.4500-013	1



GERMAN STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+N+E 32A



3P+E 32A

Distribution assemblies

BLOCK Series



■ Wired assemblies - Surface mounting >> MCB+RCD protected versions

BLOCK Series

632.



BLOCK3 [IP44]

BLOCK3 [IP66]

Sockets

no.	Sockets						General	Max power	DISTRIBUTION ASSEMBLY	
	16A			32A					IP44	IP66
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E	Direct supply to main switch				
3	1	1	1				RCBO 4P 16A 0,03A	9 KW	632.3006-052	1
3	1	2					MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.3006-054	1
3	3						MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.3006-055	1
3	1	2					MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.3006-056	1
3		1	1		1		RCBO 4P 16A 0,03A	9 KW	632.3006-324	1 632.3506-324
3		1	2				RCBO 4P 16A 0,03A	9 KW	632.3006-060	1 632.3506-060
3		1		1		1	RCBO 4P 16A 0,03A	9 KW	632.3006-325	1 632.3506-325
3		2	1				RCBO 4P 16A 0,03A	9 KW	632.3006-059	1 632.3506-059
3		3					MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.3006-062	1 632.3506-062
3			3				RCBO 4P 16A 0,03A	9 KW	632.3006-063	1 632.3506-063

2.1



Distribution assemblies

BLOCK Series

Wired assemblies - Surface mounting >> MCB+RCD protected versions

BLOCK Series

632.



1
2
ASSEMBLIES

3

4

Sockets

no.	16A		32A		General	Max power	BLOCK4 [IP44]		BLOCK4 [IP66]	
	2P+E	3P+E	3P+N+E							
4	1	1	1	1	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-001	1		
4	1	1	2		MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.4006-002	1		
4	2	2			MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.4006-010	1		
4		1	3		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-007	1	632.4506-007	1
4		1		2	1	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-329	1	632.4506-329
4		2	2			MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-003	1	632.4506-003
4		2		1	1	MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-328	1	632.4506-328
4		2		2		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-006	1	632.4506-006
4		3	1			MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-008	1	632.4506-008
4		4				MCB 1P+N 16A RCD 2P 25A 0,03A	3 KW	632.4006-012	1	632.4506-012
4			4			MCB 3P 16A RCD 4P 25A 0,03A	9 KW	632.4006-013	1	632.4506-013
4				4		MCB 4P 16A RCD 4P 25A 0,03A	9 KW	632.4006-013	1	632.4506-188



GERMAN STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+N+E 32A

Distribution assemblies

BLOCK Series



■ Wired assemblies - Surface mounting >> Without protection devices

BLOCK Series

632.



Sockets

16A

BLOCK3 [IP44]

BLOCK3 [IP66]

no.	Sockets			Supply	Current	Volt	Poles	DISTRIBUTION ASSEMBLY			
	2P+E	3P+E	3P+E					IP44	IP66		
3	1	1	1	-	16A	400V	3P+N+E	632.3005-052	1		
3	1	2		-	16A	230V	2P+E	632.3005-054	1		
3	3			-	16A	230V	2P+E	632.3005-055	1		
3	1	2		-	16A	230V	2P+E	632.3005-056	1		
3		1	2	-	16A	400V	3P+N+E	632.3005-060	1	632.3505-060	1
3		2	1	-	16A	400V	3P+N+E	632.3005-059	1	632.3505-059	1
3		3		-	16A	230V	2P+E	632.3005-062	1	632.3505-062	1
3			3	-	16A	400V	3P+E	632.3005-063	1	632.3505-063	1

2.1



Distribution assemblies

BLOCK Series

■ Wired assemblies - Surface mounting >> Without protection devices

































1

2

ASSEMBLIES

3

4

no.	Sockets							Supply	Current	Volt	Poles
	16A		32A		16A	32A					
	2P+E	3P+E	3P+N+E	3P+N+E							
4								-	16A	400V	3P+N+E
4								-	16A	230V	2P+E
4								-	16A	230V	2P+E
4								-	16A	400V	3P+N+E
4								-	16A	400V	3P+N+E
4								-	16A	400V	3P+N+E
4								-	16A	400V	3P+N+E
4								-	16A	400V	3P+N+E
4								-	16A	400V	3P+N+E
4								-	16A	400V	3P+N+E
4								-	16A	230V	2P+E
4								-	16A	400V	3P+E



GERMAN STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Distribution assemblies

BLOCK Series



BLOCK Series

632.



BLOCK4 [IP44]

BLOCK4 [IP66]

DISTRIBUTION ASSEMBLY			
IP44		IP66	
632.4005-001	1		
632.4005-002	1		
632.4005-010	1		
632.4005-327	1	632.4505-327	1
632.4005-007	1	632.4505-007	1
632.4005-329	1	632.4505-329	1
632.4005-326	1	632.4505-326	1
632.4005-003	1	632.4505-003	1
632.4005-328	1	632.4505-328	1
632.4005-006	1	632.4505-006	1
632.4005-008	1	632.4505-008	1
632.4005-012	1	632.4505-012	1
632.4005-013	1	632.4505-013	1

2.1



Distribution assemblies

BLOCK Series

Wired assemblies - Surface mounting

BLOCK Series

632.



ASSEMBLIES

1

2

3

4

Sockets

MCB

With safety transformer

no.	Sockets			General	Max power	MCB	DISTRIBUTION ASSEMBLY	
	24V 2P	16A 2P+E	3P+E				6A 1P+N	10A IP44
							Direct supply to main switch	
4	2	1	1	MCB 4P 16A	Trafo 150 VA (230/24V)	1	632.4009-017	632.4509-017
4	2	2		MCB 1P+N 16A	Trafo 150 VA (230/24V)	1	632.4009-015	632.4509-015
4	2		2	MCB 4P 16A	Trafo 150 VA (230/24V)	1	632.4009-016	632.4509-016
4	4			MCB 1P+N 3A	Trafo 300 VA (230/24V)	1	632.4009-014	632.4509-014

⊕ Safety transformer 220/24V~ - SELV



24V



2P+E 16A



3P+E 16A



3P+N+E 16A

Distribution assemblies

KIOSK Series



With OPTIMA [SAFE-IN] sockets

KIOSK Series

659.



Type BLOCK

no.	Sockets		General	RCBO 0,03A		Supply by terminal block	659.BA5140-02
	16A	2P+E		16A	2P		
4	4		-	4			

☉ Sockets with "SAFE-IN" safety device

KIOSK Series

659.



Type DOMINO

no.	Sockets		General	MCB		RCBO 0,03A		RCD 0,03A		Supply by terminal block	IP66		
	16A	2P+E		3P+N+E	6A	25A	1P+N	4P	2P			4P	
2	2		DISC. 4P 63A	2				2		659.DA5121-01	1	659.DB5121-01	1
4	3	1	-		1	3			1	659.DA5141-04	1	659.DB5141-04	
4	4		DISC. 4P 63A	4				4		659.DA5141-02	1	659.DB5141-02	1
8	6	2	DISC. 4P 63A	6	2			6	2	659.DA5181-05	1	659.DB5181-05	
8	8		DISC. 4P 63A	8				8		659.DA5181-03	1	659.DB5181-03	

☉ Sockets with "SAFE-IN" safety device

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

2.1



Distribution assemblies

KIOSK Series

With OPTIMA [SAFE-IN] sockets

KIOSK Series

659.



Type MBOX

Sockets		MCB		RCD 0,03A		Type MBOX			
16A		6A		25A		PILLAR MBOX2-OPTIMA METAL			
2P+E	3P+N+E	1P+N	4P	2P	4P	PILLAR MBOX2-OPTIMA S.STEEL			
no.			General				Supply by terminal block		
2	2		DISC. 4P 63A	2		2		659.MA5121-01	659.MB5121-01
4	3	1	-	3	1	3	1	659.MA5141-04	659.MB5141-04
4	4		DISC. 4P 63A	4		4		659.MA5141-02	659.MB5141-02

Sockets with "SAFE-IN" safety device

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

KIOSK Series

659.



Type SMART-C

Sockets		RCBO 0,03A		Type SMART-C		
16A		6A		PILLAR SMART C - OPTIMA		
2P+E	3P+N+E	2P	4P	IP56		
no.			General			Supply by terminal block
2	2		DISC. 4P 40A	2		659.SC5121-01
4	3	1	DISC. 4P 40A	3	1	659.SC5141-04
4	4		DISC. 4P 40A	4		659.SC5141-02

Sockets with "SAFE-IN" safety device

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)



2P+E 16A



3P+N+E 16A

Distribution assemblies KIOSK Series



With OPTIMA [SAFE-IN] sockets

KIOSK Series

659.



no.	Sockets		Kit water	General	RCBO 0,03A			Type SMART-K
	16A				6A	16A		
	2P+E	3P+N+E			2P	4P	2P	
2	2		2	DISC. 4P 40A			2	PILLAR SMART K - OPTIMA IP56 Supply by terminal block 659.SK5123-12
2	2			DISC. 4P 40A	2			659.SK5121-01
4	3	1		DISC. 4P 40A	3	1		659.SK5141-04
4	4		4	DISC. 4P 40A	4			659.SK5143-07
4	4			DISC. 4P 40A	4			659.SK5141-02
6	6		2	DISC. 4P 40A	6			659.SK5163-06

☉ Sockets with "SAFE-IN" safety device

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

KIOSK Series

659.



no.	Sockets		General	RCBO 0,03A		Type SMART-X	
	16A			6A	PILLAR SMART-X - OPTIMA		
	2P+E			2P	IP56		
4	4		DISC. 4P 40A	4		Supply by terminal block 659.SX5140-02	

☉ Sockets with "SAFE-IN" safety device

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

2.1



Distribution assemblies

KIOSK Series

With OMNIA [interlocked sockets]

KIOSK Series

659.



Type DOMINO

Sockets			MCB				RCBO 0,03A		RCD 0,03A		Type DOMINO	
16A			6A		25A		PILLAR DOMINO-OMNIA METAL		PILLAR DOMINO-OMNIA S.STEEL			
2P+E	3P+N+E		1P	4P	2P	4P	IP66		Supply by terminal block			
no.			General									
2	2		DISC. 4P 63A	2		2		659.DA5221-01	1	659.DB5221-01		
4	3	1	-	1	3		1	659.DA5241-04	1	659.DB5241-04		
4	4		DISC. 4P 63A	4		4		659.DA5241-02	1	659.DB5241-02		
8	6	2	DISC. 4P 63A	6	2	6	2	659.DA5281-05	1	659.DB5281-05		
8	8		DISC. 4P 63A	8		8		659.DA5281-03	1	659.DB5281-03		

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

KIOSK Series

659.



Type MBOX

Sockets			MCB				RCD 0,03A		Type MBOX	
16A			6A		25A		PILLAR MBOX2-OMNIA METAL		PILLAR MBOX2-OMNIA S.STEEL	
2P+E	3P+N+E		1P	4P	2P	4P	IP66		Supply by terminal block	
no.			General							
2	2		DISC. 4P 63A	2		2		659.MA5221-01		659.MB5221-01
4	3	1	-	3	1	3	1	659.MA5241-04		659.MB5241-04
4	4		DISC. 4P 63A	4		4		659.MA5241-02		659.MB5241-02

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)



2P+E 16A



3P+N+E 16A



3P+N+E 125A



2P+E 32A

Distribution assemblies KIOSK Series



■ With OMNIA [interlocked sockets]

KIOSK Series

659.



no.	Sockets				Kit water	General	RCBO 0,03A				Type SMART-C	
	16A		32A				6A		32A	125A		PILLAR SMART C - OMNIA
	2P+E	3P+N+E	2P+E	3P+N+E			2P	4P	2P	4P		
2	2					DISC. 4P 40A	2			IP56	Supply by terminal block	
4	3	1				DISC. 4P 40A	3	1			659.SC5221-01	
4	4					DISC. 4P 40A	4				659.SC5241-04	
4			3	1	4	-			3	1	659.SC5241-02	
6	6				4	DISC. 4P 40A	6				659.SC5243-07	
6			6		4	DISC. 4P 63A			6		659.SC5263-09	
											659.SC5263-06	

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

KIOSK Series

659.



no.	Sockets		Kit water	General	RCBO 0,03A		Type SMART-K	
	16A				6A			PILLAR SMART-K - OMNIA
	2P+E	3P+N+E			2P	4P		
2	2			DISC. 4P 40A	2		IP56	
4	3	1		DISC. 4P 40A	3	1	Supply by terminal block	
4	4		4	DISC. 4P 40A	4		659.SK5221-01	
4	4			DISC. 4P 40A	4		659.SK5241-04	
							659.SK5243-08	
							659.SK5241-02	

- Upon request, versions can be built with the water kit (contact the CIT - Technical Information Centre)

2.1



Distribution assemblies

GOMMA Series

Rubber distribution assemblies

ASSEMBLIES

1

2

3

4

no.	Sockets				General	Max power	MCB				DISC.
	16A						16A				
	2P+E	3P+E	3P+N+E				1P	1P+N	3P	4P	
4	1	2		1	RCD 4P 40A 0,03A	18 KW	3			1	
4			4		RCD 4P 40A 0,03A	18 KW			2		
5		5			MCB 2P 16A RCD 2P 25A 0,03A	3 KW		1			5

- 1 Plug IEC309 32A 3P+E
- 2 Plug IEC309 16A 2P+E
- 3 Plug IEC309 32A 3P+N+E
- 3m rubber cable H07RN-F

GOMMA Series

692.



no.	Sockets		General	Max power	MCB		RCD 0,03A		Two-front units	
	16A				2A	25A	DISTRIBUTION ASSEMBLY			
	2P+E				1P+N	4P	IP44			
6	6		-	2,3 KW	6	2			692.4300-305	1
8	8		-	4 KW	8	2			692.4300-69	1
8	8		-	3 KW	8				692.4300-70	1



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A

Distribution assemblies
GOMMA Series



GOMMA Series

690.



Portable
With cable and plug

DISTRIBUTION ASSEMBLY	
IP44	
Plug	
690.4200-301 ³	1
690.4200-295 ¹	1
690.4200-300 ²	1

2.1



Distribution assemblies

LV-LUX Series

Distribution assemblies

LV-LUX Series

630.



**Distribution assemblies
for night-time power
supply of lights
indicating working areas**

DISTRIBUTION ASSEMBLY (ACS)

IP44

Plug

no.	Sockets		General		Max power		FUSES		Plug
	24V	2P	FUSES 5x20mm	Trafo	6,3A	12A			
2	2		FUSES 5x20mm 3,15A	Trafo 150 VA (230/24V)	1			630.001	1
2	2		FUSES 5x20mm 6,3A	Trafo 300 VA (230/24V)		1		630.002	1

- A light sensor turns the lights (see p.181) on and off according to the amount of atmospheric light.
- With twilight switch
- Provided with housing mod. SCABOX complete with lifting handle.
- Plug IEC309 16A 2P+E



24V

Distribution assemblies

TRANSFORMER Series

ACS IP55 portable unit with safety and isolating transformer

TRANSFORMER Series

630.



ASSEMBLIES

1

2

3

4

no.	Sockets		MCB		230/48V version	
	48V	2P	10A	16A	DISTRIBUTION ASSEMBLY (ACS)	
			1P		IP55	
					Plug	
		General	Max power			
2	2	MCB 2P 10A	Trafo 1500 VA (230/48V)		2	630.022 1
2	2	MCB 2P 6A	Trafo 1000 VA (230/48V)		2	630.021 1

⚠ Safety transformer: SELV protection (230/24V and 230/48V).

- Rubber electric cable 2x1,5 mm² H07RN-F (length 1,5 m).
- MCB with operating time complying with D curve diagram.
- Note: the equipment must be kept outside narrow conducting spaces.
- Provided with housing mod. SCABOX complete with lifting handle.
- Plug IEC309 16A 2P+E



48V



2P+E 16A

Distribution assemblies

TRANSFORMER Series



■ ACS IP55 portable unit with safety and isolating transformer

TRANSFORMER Series

630.



no.	Sockets		General	Max power	MCB		230/230V version	
	16A 2P+E				6A	10A	DISTRIBUTION ASSEMBLY (ACS)	
1	1		MCB 2P 10A	Trafo 2000 VA (230/220V)		1	IP55 Plug	
1	1		MCB 2P 6A	Trafo 1000 VA (230/220V)	1		630.032 1 630.031 1	

- ⊕ Isolating transformer: electric shielding protection (230/230V).
- Rubber electric cable 2x1,5 mm² H07RN-F (length 1,5 m).
- MCB with operating time complying with D curve diagram.
- Note: the equipment must be kept outside narrow conducting spaces.
- Provided with housing mod. SCABOX complete with lifting handle.
- Plug IEC309 16A 2P+E

2.1



Distribution assemblies

MOBIL Series

ACS IP55 distribution boxes with foldable stand

MOBIL Series

670.



Portable
With cable and appliance
inlet

1
2
3
4
ASSEMBLIES

Sockets

MCB

no.	Sockets					General	Max power	MCB		DISTRIBUTION ASSEMBLY (ACS)	
	16A			32A				16A		IP66	
	2P+E	3P+E	3P+N+E	3P+E	3P+N+E			1P	3P	Appliance inlet	
6	3	1	1		1	RCBO 4P 32A 0,03A	18 KW	2	2	670.9566-458 ¹	1
6	3	1	2			RCBO 4P 32A 0,03A	18 KW	2	2	670.9566-459 ¹	1
6	4	1	1			RCBO 4P 32A 0,03A	18 KW	2	2	670.9566-457 ¹	1
6	4	1		1		RCBO 4P 32A 0,03A	18 KW	4	1	670.9566-466 ¹	1
6	4		1	1		RCBO 4P 32A 0,03A	18 KW	4	1	670.9566-456 ¹	1
6	4		1		1	RCBO 4P 32A 0,03A	18 KW	4	1	670.9566-467 ¹	1
6	6					DISC. 4P 40A	18 KW	6		670.9566-465 ¹	1
6	6					MCB 2P 16A RCD 2P 25A 0,03A	3 KW			670.9566-464 ²	1

¹ Appliance inlet IEC309 32A 3P+N+E

² Appliance inlet IEC309 16A 2P+E



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Distribution assemblies

SALVAMOTORE Series

■ Stop-start units - IP55

MOTOR START UNITS Series

299.



1

2

ASSEMBLIES

Description	Version	Current	Poles	Volt	Motor power	Stop-start unit
STOP-START UNIT	THERMIC	16A	3P+E	400V	4,8-7,7kW (6,6-10,5CV)	299.1686-16 1/10

- Hinged cover fixed with stainless steel screws.
- Appliance inlet EUREKA Series IP67 (SNAP-ON couplet).
- Enclosure made of insulating material grey colour RAL 7035.
- Mounting by brackets.
- With appliance inlet and 1,2m of H07RN-F (rubber cable).
- Motor power calculated with, rated voltage 230/400V and $\cos \phi$ 0,7.

3

4

■ Motor cut-out - IP55

MOTOR START UNITS Series

299.



Single phase stop-start unit

Three phase stop-start unit

Current	Poles	Volt	Emergency current	Motor power	MOTOR STARTER	
16A	2P+E	230V	1,6-2,5A	0,2-0,4kW (0,3-0,5CV)	299.1693-02	1/10
16A	2P+E	230V	2,5-4,0A	0,4-0,6kW (0,5-0,9CV)	299.1693-04	1/10
16A	2P+E	230V	4,0-6,3A	0,6-1,0kW (0,9-1,4CV)	299.1693-06	1/10
16A	2P+E	230V	6,3-10A	1,0-1,6kW (1,4-2,2CV)	299.1693-10	1/10
16A	2P+E	230V	10-16A	1,6-2,6kW (2,2-3,5CV)	299.1693-16	1/10
16A	3P+E	400V	1,6-2,5A	0,7-1,2kW (1,0-1,5CV)	299.1696-02	1/10
16A	3P+E	400V	2,5-4,0A	1,2-1,9kW (1,5-2,5CV)	299.1696-04	1/10
16A	3P+E	400V	4,0-6,3A	1,9-3,0kW (2,5-4,1CV)	299.1696-06	1/10
16A	3P+E	400V	6,3-10A	3,0-4,8kW (4,1-6,6CV)	299.1696-10	1/10
16A	3P+E	400V	10-16A	4,8-7,7kW (6,6-10,5CV)	299.1696-16	1/10

- Hinged cover fixed with stainless steel screws.
- Appliance inlet EUREKA Series IP67 (SNAP-ON couplet).
- Enclosure made of insulating material grey colour RAL 7035.
- Mounting by brackets.
- With appliance inlet and 1,2m of H07RN-F (rubber cable).
- Motor power calculated with, rated voltage 230/400V and $\cos \phi$ 0,7.

Distribution assemblies

Accessories and spare parts



■ Accessories

ACCESSORIES

MP3.



Description	Notes	Current	Fuses
FUSE	Ø10,3X38 TYPE GG	16A	MP36275
	Ø13X50	6A	MP36246
	Ø13X50 RIT.	2A	MP36247
	Ø14X51 TYPE GG	32A	MP36276

ENCLOSURES ACCESSORIES

654.



Accessories and components

Suitable for	ACCESSORIES KIT
MBOX3 MBOX5	654.0002 10

- The kit includes: 5x35mm² terminal block, M40 cable gland, wall mounting brackets, blank plate for 4 DIN modules.

2.1



Distribution assemblies

Accessories and spare parts

Accessories

ENCLOSURES ACCESSORIES

654.



Accessories and components

Suitable for

MBOX2

CABLE SUPPORT KIT

654.0051

10

1

2

ASSEMBLIES

3

4



MBOX2 Series

Wall fixing brackets kit and cable support kit

Distribution assemblies

Accessories and spare parts



■ Accessories

ENCLOSURES ACCESSORIES

654.



Accessories and components

Suitable for

DOMINO IP40 MBOX (WIN)

YALE KEY KIT

654.0072 1/10

- For DIN window. Unique Yale keys, the same key opens all locks.
- For door (2 pieces).

2.1



Distribution assemblies Accessories and spare parts



■ Accessories

MBOX2 Series

656.



Description

Turret fixing

TURRET FIXING KIT	656.0220	1		
MOUNTING/FIXING PLATE				656.0222 1
BACK CLOSING PLATE			656.0221 1	



MBOX Series
Pedestal application

2.1



Distribution assemblies

Accessories and spare parts

■ Spare parts

ENCLOSURES ACCESSORIES

654.



Knob kit (5 pz.)

Suitable for

KNOB KIT

OMNIA	654.2110	5/10	
OMNIA (FUSE)			654.2111

ENCLOSURES ACCESSORIES

654.















Description	Notes	Din	Window for enclosures (5 pz.)		
WINDOW KIT	ADVANCE 212	10 DIN	654.0190	10	
	ADVANCE 272	13 DIN	654.0191	10	
	BLOCK1	4 DIN	654.0181-01	1/10	
	BLOCK3	6 DIN	654.0181-03	5/10	
	BLOCK4	11 DIN	654.0181-04	5/10	
	BLOCK4 + YALE		654.0181-04Y	5/10	
	BLOCK5	14 DIN	654.0181-05	5/10	
	DOMINO IP66		4 DIN	654.0180-04	10
			8 DIN	654.0180-08	10
			12 DIN	654.0180-12	10
			16 DIN	654.0180-16	1/10
			24 DIN	654.0180-24	
			6 DIN	654.0180-06	10
	OMNIA 14DIN		14 DIN	654.0181-07	

Distribution assemblies Accessories and spare parts



■ Spare parts >> Cover kit for socket (5 pz.)

			ADVANCE 2 Series	ADVANCE GRP Series	OMNIA Series	OPTIMA Series
			654.			
						
			[ADVANCE2]	[ADVANCE-GRP]	[OMNIA]	[OPTIMA]
			COVER IP66/IP67			
Current	Poles	Colour				
16A	2P+E		654.13163		654.11163	654.16163 <small>25</small>
	3P+E		654.13164		654.11164	654.16164
	3P+N+E		654.13165 <small>5/25</small>		654.11165	654.16165
32A	2P+E					654.16323
	3P+E		654.13324	654.12324 <small>25</small>	654.11324 <small>5/25</small>	654.16324
	3P+N+E		654.13325 <small>5/25</small>	654.12325 <small>25</small>	654.11325	654.16325
63A	2P+E					654.16633
	3P+E		654.13634		654.11634	
	3P+N+E		654.13635		654.11635	654.16635
125A	2P+E					654.161253
	3P+N+E					654.161255

- Suitable for sockets with thermoplastic pivot only

2.1



2.2

Industrial adaptors

- ADAPTO Series
Adaptors for industrial applications





Industrial adaptors

ADAPTO Series

■ ONE-WAY >> One-way adaptors >> With IEC 309 industrial plug

ADAPTO Series

610.



Sockets

16A

Italian standard socket outlets

2P+E

ONE-WAY ADAPTOR

IP20

Supply	Current	Poles	Volt	Icons			Notes		
Plug IEC309 16A	16A	2P+E	250V	1			1 BIV,+1 P30		
Plug IEC309 16A	16A	2P+E	250V	1			2 BIV,+1 P30		
Plug IEC309 16A	16A	2P+E	250V	1			1 P30	610.372	10/100
Plug IEC309 16A	16A	2P+E	250V		1		1 P40	610.371	10/100
Plug IEC309 16A	16A	2P+E	250V			1	1 BIV.		610.380 10/100
Plug IEC309 16A	16A	2P+E	250V			2	2 BIV.	610.370	10/100

- For temporary use only

ADAPTO Series

610.



Sockets

16A 13A 16A

European standard socket outlets

2P+E

ONE-WAY ADAPTOR

IP20

Supply	Current	Poles	Volt	Icons			Notes		
Plug IEC309 16A	10A	2P+E	250V	2			2 x SUISSE	610.368	10/100
Plug IEC309 16A	13A	2P+E	250V		1		BRITISH		
Plug IEC309 16A	13A	2P+E	250V		1		BRITISH 13A		
Plug IEC309 16A	15A	2P+E	250V		1		BRITISH 15A		
Plug IEC309 16A	16A	2P+E	250V			1	GERMAN		
Plug IEC309 16A	16A	2P+E	250V			1	FRENCH		
Plug IEC309 16A	16A	2P+E	250V			1	GERMAN	610.373 ¹	10/100

¹ Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

- For temporary use only



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



SWISS STANDARD
2P+E 10A
Unshuttered socket SEV 1011:1998



BRITISH STANDARD
2P+E 13A
Shuttered socket BS 1363-2



GERMAN STANDARD
2P+E 16A
Shuttered socket



FRENCH STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40
2P+E 16A
Shuttered socket

Industrial adaptors
ADAPTO Series



ADAPTO Series

610.



Italian standard socket outlets

ONE-WAY ADAPTOR

IP20

			610.390	10/100
610.382	10/100	610.388	10/100	

ADAPTO Series

610.



European standard socket outlets

ONE-WAY ADAPTOR

IP20

IP54

				610.392	10/100
	610.375	10/100			
		610.376	10/100		
610.374	10/100		610.381	10/100	
				610.391	10/100

2.2



Industrial adaptors

ADAPTO Series

■ ONE-WAY >> One-way adaptors >> With IEC 309 industrial plug

ADAPTO Series

610.



International standard socket outlets

ONE-WAY ADAPTOR

IP20

Supply	Current	Poles	Volt					Notes		
Plug IEC309 16A	10A	2P+E	250V	1				1 BRASIL		
Plug IEC309 16A	10A	2P+E	250V	2				2 BRASIL	610.395	10/100
Plug IEC309 16A	10A	2P+E	250V				1	NEW ZEALAND		
Plug IEC309 16A	16A	2P+E	250V	1				ARGENTINIAN		610.377 10/100
Plug IEC309 16A	16A	2P+E	250V				1	SOUTH AFRICAN	610.367	10/100

- For temporary use only

■ ONE-WAY >> One-way adaptors

ADAPTO Series

610.



Sockets

16A

With domestic plug

Supply	Current	Poles	Volt	2P+E	Notes		
Plug IEC309 16A	16A	2P+E	250V	1	FR/DE	610.379	10/100
Plug 2P+E 16A IT Std	16A	2P+E	250V	1	ITALIAN S17		610.384 10/100
Plug 2P+E 16A D-F Std	16A	2P+E	250V	1	GERMAN	610.383	10/100

- For temporary use only



ARGENTINIAN STANDARD 10A
Unshuttered socket



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002



NEW ZEALAND STANDARD 10A
Unshuttered socket AS/NZS 3112



SOUTH AFRICAN STANDARD 16A
Shuttered socket SANS 164:1 (2006)



2P+E 16A

Industrial adaptors
ADAPTO Series



ADAPTO Series

610.



International standard
socket outlets

ONE-WAY ADAPTOR

IP20		IP54	
		610.394	10/100
610.369	10/100		
610.378	10/100		

2.2



Industrial adaptors

ADAPTO Series

ONE-WAY

ASSEMBLIES

1

2

3

4

ADAPTO Series

610.



Sockets

16A 16A 230V 16A

Phase sequence adaptors

Supply	Current	Poles	Volt	Sockets		ONE-WAY ADAPTOR	
				3P+E	3P+N+E	IP44	
Plug IEC309 16A	16A	3P+E	230V	1		610.3444	10/50
			400V	1		610.3646	10/50
Plug IEC309 16A		3P+N+E			1	610.3747	10/50

- This device reverses the sequence of phases between the power supply and the rotating machine. It must be plugged in between the rotating machine plug and the power supply socket.
- Specially useful for temporary connection to the three-phase power supply of machines such as concrete mixers, small cranes, sanders, drills, circular saws, etc.
- For temporary use only

ADAPTO Series

610.



Sockets

16A 16A 230V

Current adaptors from 32A to 16A

Supply	Current	Poles	Volt	Sockets		ONE-WAY ADAPTOR	
				3P+E	16A	IP44	
Plug IEC309 32A	16A	3P+E	230V		1	610.3464	10
			400V	1		610.3666	10

- Used to supply 16A loads with 3P+E plugs from 32A 3P+E power supply sockets.
- The adaptor's 32A plug is first plugged into the 32A power supply socket and then the 16A plug of the load to be supplied is plugged into the adaptor's 16A socket.
- For temporary use only



3P+E 16A 230V



3P+E 16A



3P+N+E 16A



2P+E 16A

Industrial adaptors

ADAPTO Series



ONE-WAY

ADAPTO Series

610.



Sockets

16A

Configuration adaptors
from 3P+N+E to 3P+E

3P+N+E

ONE-WAY ADAPTOR

Supply	Current	Poles	Volt	3P+N+E	IP44	610.3746	10
Plug IEC309 16A	16A	3P+N+E	400V	1			

- Used to supply 16A loads with 3P+E plugs from 16A 3P+N+E power supply sockets.
- The adaptor's 16A 3P+N+E plug is first plugged into the 16A 3P+N+E power supply socket and then the 16A 3P+E plug of the load to be supplied is plugged into the adaptor's 16A 3P+E socket.
- For temporary use only

2-WAY

ADAPTO Series

600.

601.



Sockets

16A 16A 230V 16A

With appliance inlet

Supply	Current	Poles	Volt	Sockets			MULTI-WAY ADAPTOR			
				2P+E	3P+E	3P+N+E	IP44	IP66		
Appliance inlet IEC309 16A	16A	2P+E	230V	2			600.1623	1/6	601.1623	1/6
		3P+E			2		600.1624	1/6		
		3P+E	400V		2		600.1626	1/6	601.1626	1/6
		3P+N+E	400V	1	1		600.1626/I¹	1/6	601.1626	1/6
		3P+N+E				2	600.1629	1/6	601.1629	1/6
		3P+N+E				2	600.1627	1/6	601.1627	1/6

¹ One socket with reversed phases.

- 2-way adaptors
- Casing provided with lug for hanging from above (16A).

2.2



Industrial adaptors

ADAPTO Series

2-WAY

ADAPTO Series

604.

605.



Sockets

16A

32A

With cable and plug

MULTI-WAY ADAPTOR

Supply	Current	Poles	Volt	Sockets					Cable section	MULTI-WAY ADAPTOR			
				2P+E	3P+E	3P+N+E	3P+E	3P+N+E		IP44	IP66		
Plug IEC309 16A	16A	2P+E	230V	2					3x2,5mm ²	604.1623/C	1/6	605.1623/C	1/6
Plug IEC309 16A		3P+E				2			4x4mm ²	604.1626/C	1/6	605.1626/C	1/6
Plug IEC309 16A	32A	3P+N+E	400V	1	1				5x2,5mm ²	604.1629/C	1/6	605.1629/C	1/6
												2	
Plug IEC309 32A	32A	3P+E					2		4x4mm ²	604.3226/C ^[2]	1/6	605.3226/C ^[2]	1/6
Plug IEC309 32A		3P+N+E					2		5x4mm ²	604.3227/C ^[2]	1/6	605.3227/C ^[2]	1/6

[1] One socket with reversed phases.

[2] Zinc-plated steel carrying handle (32A).

- 2m rubber cable H07RN-F
- Equipped with PG21 cable gland, cable clamp and terminal block.

3-WAY

ADAPTO Series

606.



Sockets

16A 110V

16A

With appliance inlet

Supply	Current	Poles	Volt	Sockets			MULTI-WAY ADAPTOR			
				2P+E	3P+E	3P+N+E	IP44	IP66/IP67		
Appliance inlet IEC309 16A	16A	2P+E	230V		3		606.3005-062	1/6	606.3505-062	1/6
		3P+E				3	606.3005-063	1/6	606.3505-063	1/6
		3P+N+E	400V		2	1	606.3005-059	1/6	606.3505-059	1/6
Appliance inlet IEC309 16A 110V		2P+E	110V	3			606.3005-479	1/6	606.3505-479	1/6



2P+E 16A 110V



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Industrial adaptors

ADAPTO Series



3-WAY

ADAPTO Series

606.



With cable and plug

Supply	Current	Poles	Volt	Sockets			Cable section	MULTI-WAY ADAPTOR			
				2P+E	3P+E	3P+N+E		IP44	IP66/IP67		
Plug IEC309 16A	16A	2P+E	110V	3			3x2,5mm ²				
			230V		3			606.3015-062	1/6	606.3515-062	1/6
Plug IEC309 16A	16A	3P+E	400V			3	4x2,5mm ²	606.3015-063	1/6	606.3515-063	1/6
Plug IEC309 16A		3P+N+E		2	1		5x2,5mm ²	606.3015-059	1/6	606.3515-059	1/6
Plug IEC309 16A 110V	16A	2P+E	110V	3			3x2,5mm ²	606.3015-740	6	606.3015-479	1/6

- 2m rubber cable H07RN-F
- Equipped with PG21 cable gland, cable clamp and terminal block.

3-WAY and 5-WAY

ADAPTO Series

603.



Without cable and plug (x3)

Supply	Current	Poles	Volt	Sockets			MULTI-WAY ADAPTOR			
				2P+E	3P+E	3P+N+E	IP44	IP66		
Terminal block 16mm ²	16A	2P+E	230V	3			603.3005-062	1/10	603.3505-062	1/10
Terminal block 16mm ²	16A	3P+E	400V		3		603.3005-063	1/10	603.3505-063	1/10
Terminal block 16mm ²	16A	3P+N+E	400V	2	1		603.3005-059	1/10	603.3505-059	1/10
Terminal block 16mm ²	16A	3P+N+E	400V	2		1	603.3005-061	1/10	603.3505-061	1/10
Terminal block 16mm ²	16A	3P+N+E	400V			3	603.3005-064	1/10	603.3505-064	1/10

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.

2.2



Industrial adaptors

ADAPTO Series

3-WAY and 5-WAY

1
2
3
4
ASSEMBLIES

ADAPTO Series

603.



Sockets

16A

32A

Without cable and plug (x5)

Supply	Current	Poles	Volt	Sockets					MULTI -WAY ADAPTOR	
				2P+E	3P+E	3P+N+E	IP44			
Terminal block 16mm ²	16A	2P+E	230V	2	3				603.5005-358	1/10
Terminal block 16mm ²	16A	3P+N+E	400V	1	1		3		603.5005-359	1/10
Terminal block 16mm ²	16A	3P+N+E	400V	2		1		1	603.5005-427	1/10
Terminal block 16mm ²	16A	3P+N+E	400V	2		2	2		603.5005-415	1/10
Terminal block 16mm ²	16A	3P+N+E	400V	2				3	603.5005-360	1/10

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.

ADAPTO Series

602.



Sockets

16A

32A

With cable and plug (x3)

Supply	Current	Poles	Volt	Sockets					Cable section	MULTI -WAY ADAPTOR			
				2P+E	3P+E	3P+N+E	3P+E	3P+N+E		IP44	IP66		
Plug IEC309 16A	16A	2P+E	230V	3					3x2,5mm ²	602.3005-062	1/6	602.3505-062	1/6
Plug IEC309 16A	16A	3P+E	400V		3				4x2,5mm ²	602.3005-063	1/6	602.3505-063	1/6
Plug IEC309 16A	16A	3P+N+E	400V	2	1				5x2,5mm ²	602.3005-059	1/6	602.3505-059	1/6
Plug IEC309 16A	16A	3P+N+E	400V	2		1			5x2,5mm ²	602.3005-061	1/6	602.3505-061	1/6
Plug IEC309 16A	16A	3P+N+E	400V			3			5x2,5mm ²	602.3005-064	1/6	602.3505-064	1/6
Plug IEC309 32A	32A	3P+E	400V				3		4x4mm ²			602.3505-443	1/6
Plug IEC309 32A	32A	3P+N+E	400V					3	5x4mm ²	602.3005-215	1/6		

- Zinc-plated steel carrying handle.
- 2m rubber cable H07RN-F
- Equipped with PG21 cable gland, cable clamp and terminal block.



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A

Industrial adaptors

ADAPTO Series



3-WAY and 5-WAY

ADAPTO Series

602.



Sockets

16A

With cable and plug (x5)

Supply	Current	Poles	Volt	Sockets					Cable section	MULTI-WAY ADAPTOR	
				2P+E	3P+E	3P+N+E	IP44	IP66			
Plug IEC309 16A	16A	2P+E	230V	2	3			3x2,5mm ²	602.5005-358	1/6	
Plug IEC309 16A	16A	3P+N+E	400V	1	1	3		5x2,5mm ²	602.5005-359	1/6	
Plug IEC309 16A	16A	3P+N+E	400V	2			3	5x2,5mm ²	602.5005-360	1/6	

- Zinc-plated steel carrying handle.
- 2m rubber cable H07RN-F
- Equipped with PG21 cable gland, cable clamp and terminal block.

3-WAY with protection devices >> Protection device: MCB

ADAPTO Series

623.



Sockets

16A

Without cable and plug

no.	Sockets			General	Max power	MULTI-WAY ADAPTOR	
	2P+E	3P+E				IP44	IP66
3	1	2		MCB 2P 16A	3 KW	623.3000-056	1
3		3		MCB 2P 16A	3 KW	623.3000-062	1
3			3	MCB 3P 16A	9 KW	623.3000-063	1

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.

2.2



Industrial adaptors

ADAPTO Series

■ 3-WAY with protection devices >> Protection device: MCB

ADAPTO Series

625.



Sockets

no.	16A		General	Max power
	2P+E	3P+E		
3	1	2	MCB 4P 16A	9 KW
3	2	1	MCB 4P 16A	9 KW
3	3		MCB 2P 16A	3 KW
3		3	MCB 3P 16A	9 KW

Elevated installation

MULTI-WAY ADAPTOR

IP66

Supply by terminal block

					625.3500-060	1
					625.3500-059	1
					625.3500-062	1
					625.3500-063	1

- Tubular stand to be ordered separately
- Equipped with PG21 cable gland, cable clamp and terminal block.

■ 3-WAY with protection devices >> Protection devices: MCB+RCD

ADAPTO Series

623.



Sockets

no.	16A		General	Max power
	2P+E	3P+E		
3	1	2	MCB 2P 16A RCD 2P 25A 0,03A	3 KW
3		3	MCB 2P 16A RCD 2P 25A 0,03A	3 KW
3		3	RCBO 4P 16A 0,03A	9 KW

Without cable and plug

MULTI-WAY ADAPTOR

IP44

IP66

Direct supply to main switch

					623.3006-054	1	
					623.3006-062	1	623.3506-062
					623.3006-063	1	623.3506-063

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



3P+N+E 16A

Industrial adaptors

ADAPTO Series



3-WAY with protection devices >> Protection devices: MCB+RCD

ADAPTO Series

625.



Elevated installation

no.	Sockets		General	Max power	MULTI -WAY ADAPTOR	
	16A				IP66	
	2P+E	3P+E			Supply by terminal block	
3	1	2	RCBO 4P 16A 0,03A	9 KW	625.3506-060	1
3	2	1	RCBO 4P 16A 0,03A	9 KW	625.3506-059	1
3	3		MCB 2P 16A RCD 2P 25A 0,03A	3 KW	625.3506-062	1

- Tubular stand to be ordered separately
- Equipped with PG21 cable gland, cable clamp and terminal block.

4-WAY

ADAPTO Series

623.



Without cable and plug

Current	Poles	Volt	Sockets			MULTI -WAY ADAPTOR			
			16A			Terminal block 16mm ²			
			2P+E	3P+E	3P+N+E	IP44	IP66		
16A	2P+E	230V	2	2		623.4005-010	1		
16A	2P+E	230V		4		623.4005-012	1	623.4505-012	1
16A	3P+N+E	400V		2	2	623.4005-003	1	623.4505-003	1
16A	3P+N+E	400V		2	2	623.4005-006	1	623.4505-006	1

- Zinc-plated steel carrying handle.
- Equipped with PG21 cable gland, cable clamp and terminal block.

2.2



Industrial adaptors

ADAPTO Series

4-WAY

ADAPTO Series

625.



ASSEMBLIES

1

2

3

4

Sockets

Elevated installation

Current	Poles	Volt	16A		MULTI-WAY ADAPTOR	
			2P+E	3P+E	IP66	Terminal block 16mm ²
16A	2P+E	230V	4		625.4505-012	1
16A	3P+N+E	400V	2	2	625.4505-003	1

- Tubular stand to be ordered separately
- Equipped with PG21 cable gland, cable clamp and terminal block.



Elevated installation

Handle and cable gland not supplied for elevated-installation versions. The cable inlet is from below, where the adaptor is fastened to the stand.



2P+E 16A



3P+E 16A




Industrial adaptors

ADAPTO Series



Accessories

ENCLOSURES ACCESSORIES

	654.	692.	
			
Description	Mounting bracket for compressed air	Tubular stand	Adaptors coupling kit
PLATE FOR COMP. AIR MOSE	654.0050 10		
TUBULAR STAND		692.4340 1	
ADAPTOR COUPLING KIT			692.4342 ¹ ² 1/5

¹ 3-way and 4-way adaptors can be coupled together as shown in the drawing

² The kit includes all the screws, nuts, washers and seals required to couple together 3-way and 4-way adaptors.

2.2

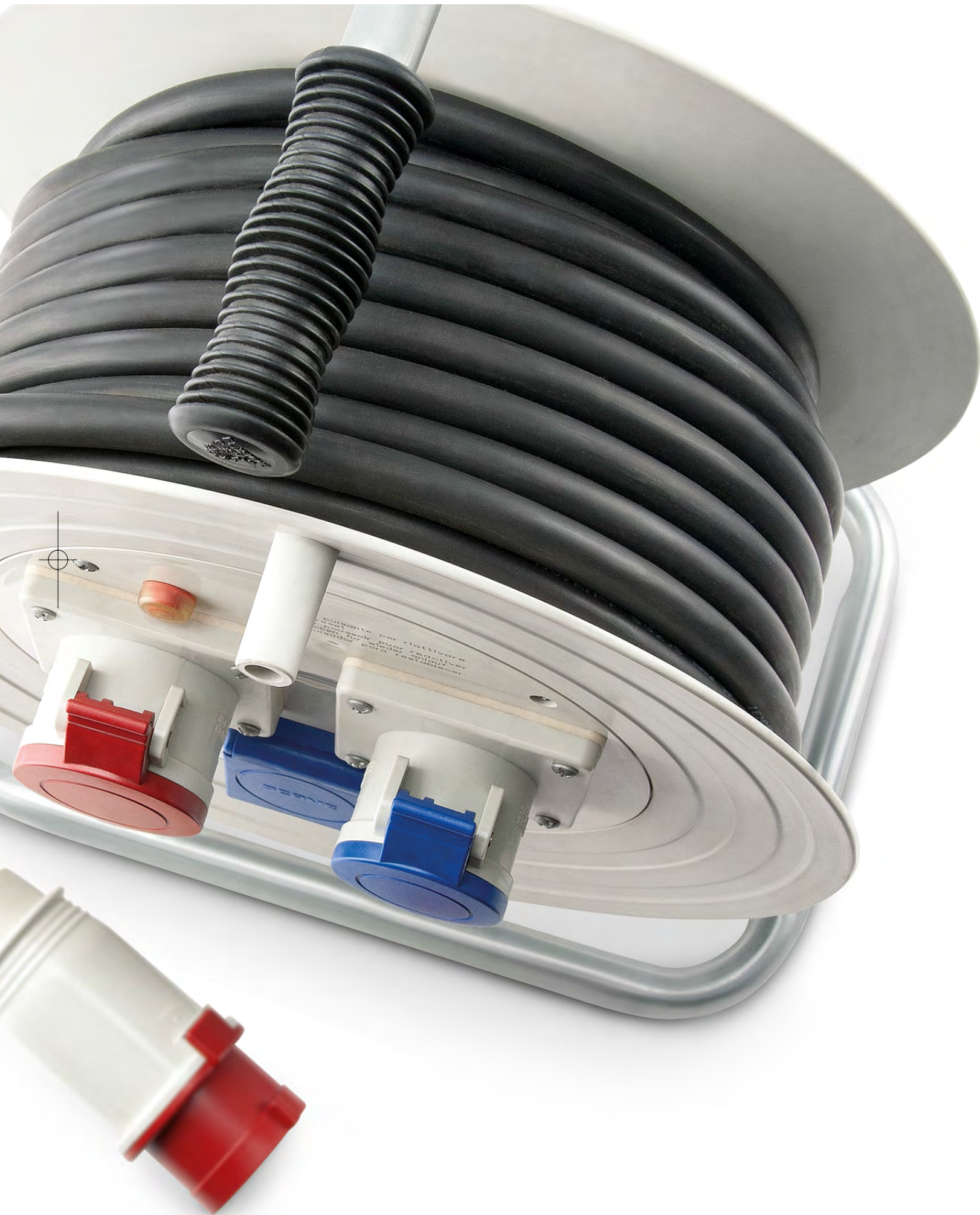


2.3

Industrial cable reels

- **AUTOROLLER Series**
Cable reels with automatic rewind
- **ROLLER 330 Series**
Cable reels for industrial, commercial and domestic applications
- **ROLLER-BLOCK 330 Series**
Cable reels
- **ROLLER 450 Series**
Cable reels for industrial applications
- **ROLLER-BLOCK 450 Series**
Cable reels for industrial applications
- **ROLLER Series**
Spare parts





Industrial cable reels

AUTOROLLER Series

Without plug and connector

AUTOROLLER Series

751.



With H05VV-F PVC cable

AUTOMATIC REWIND CABLE REEL

IP41

no.	Poles	Volt	Cable length	Cable section	@	⊙		
1	2P	250V	10m	2,5mm ²	2000W	2300W	751.0225-D	1
			12m	1,5mm ²	1500W	2100W	751.0215-D	1
	16m		1mm ²	1100W	1400W	751.0210-D	1	
	2P+E		8m	2,5mm ²	2000W	2300W	751.0325-D	1
			12m	1,5mm ²	1500W	2100W	751.0315-D	1
			14m	1mm ²	1100W	1400W	751.0310-D	1

- Cable H05VV-F (PVC)

With plug and connector

AUTOROLLER Series

751.



With domestic plug and trailing socket for domestic application

AUTOMATIC REWIND CABLE REEL

IP40

no.	⏏	Current	Poles	Volt	Cable length	Cable section	@	⊙		
1	1	16A	2P+E	230V	12m	1,5mm ²	1500W	2100W	751.1315-D	1

- Cable H05W-F (PVC)



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



Wound cable power



Unwound cable power

Industrial cable reels

AUTOROLLER Series



■ With plug and connector

AUTOROLLER Series

751.



With portable Heavy Duty lamp

AUTOMATIC REWIND CABLE REEL

IP20

Plug 2P 10A IT Std

Poles	Volt	Cable length	Cable section	@
2P	24V	16m	1mm ²	60W
	230V			

751.9210 ¹	1
751.7210-D	1

[Ⓢ] SELV transformer 60 VA - 50 Hz

¹ Without thermal overload switch.

- Lampholder E27.
- Max. bulb 60 W.
- Protection on the transformer secondary: thermal overload switch.
- Cable H05VV-F (PVC)

2.3



Industrial cable reels

AUTOROLLER Series

■ With plug and connector

HALE Series

770.



Lamp with protective guard and zinc-plated steel reflector

PORTABLE LAMP

HEAVY DUTY

IP20

770.250

1/24

Lamp holder

Cable length

E27

without cable

1

2

ASSEMBLIES

3

4

ⓘ Heavy Duty products are especially suited to greivous working conditions and are also resistant to highly salty environments

- Protective guard that can be opened for light bulb replacement.
- Lighting devices with protective guard and zinc-plated steel reflector:
- Handgrip in insulating, non-hygrosopic thermoplastic material with tilting system that prevents the lamp, when placed on a flat surface, to directly irradiate said surface and thus prevent dangerous overheating.
- Tapered cable gland
- Cable gland
- Adjustable hook.
- Rocker switch and screw clamp for cable replacement.
- For lamps up to 60W (incandescent)
- Screw cable stay.
- Cable H05W-F (PVC)



Wound cable power

Industrial cable reels

AUTOROLLER Series



■ With plug and connector

AUTOROLLER Series

756.



With portable lamp

AUTOMATIC REWIND CABLE REEL

IP40

Plug IEC309 16A

no.	Poles	Volt	Cable length	Cable section	⊙		
1	2P+E	230/24V	14m	1mm ²	60W	756.9211	1

⊕ SELV transformer 60 VA - 50 Hz

- Lampholder E27.
- Max. bulb 60 W.
- Protection on the transformer secondary: thermal overload switch.
- Cable H07RN-F (RUBBER)

2.3



Industrial cable reels

ROLLER 330 Series

■ Cable reels for domestic and similar applications

ASSEMBLIES

1

2

3

4

Supply	no.	Sockets					Current	Poles	Volt	Cable length	Cable section
		16A		13A							
		2P+E									
Plug 2P+E 16A IT Std	1	1				16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A IT Std	1		1			16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A IT Std	1			1		16A	2P+E	230V	30m	1,5mm ²	
Plug 2P+E 16A IT Std	1			1		16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A IT Std	4	2	2			16A	2P+E	230V	30m	2,5mm ²	
Plug 2P+E 16A IT Std	4	2	2			16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A IT Std	4	3	1			16A	2P+E	230V	30m	2,5mm ²	
Plug 2P+E 16A IT Std	4	3	1			16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A D-F Std	1		1			16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A D-F Std	2			2		16A	2P+E	230V	30m	2,5mm ²	
Plug 2P+E 16A D-F Std	2			2		16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A D-F Std	4		4			16A	2P+E	230V	30m	2,5mm ²	
Plug 2P+E 16A D-F Std	4		4			16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 16A D-F Std	4			4		16A	2P+E	230V	30m	2,5mm ²	
Plug 2P+E 16A D-F Std	4			4		16A	2P+E	230V	40m	1,5mm ²	
Plug 2P+E 13A GB Std	2				2	13A	2P+E	230V	30m	2,5mm ²	
Plug 2P+E 13A GB Std	2				2	13A	2P+E	230V	40m	1,5mm ²	

- Cable H05W-F (PVC)
- Note: Same domestic socket outlets guarantee protection degree IP44 when the lid is closed.
- Cable reels for domestic and similar applications:
- The maximum power supply is shown on every single item.



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



BRITISH STANDARD
2P+E 13A
Shuttered socket BS 1363-2



FRENCH STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40
2P+E 16A
Shuttered socket



Wound cable power



Unwound cable power

Industrial cable reels

ROLLER 330 Series



ROLLER 330 Series

746.



With 4 socket outlets



With 2 socket outlets



With 1 socket outlet

DOMESTIC CABLE REEL

IP20

⊙	○				
1500W	3600W			746.4005-897	1
1500W	3600W			746.4005-896	1
2000W	3600W			746.3005-894	1
				746.3005-895	1
1500W	3600W			746.4005-895	1
2000W	3600W	746.3000-010	1		
1500W	3600W	746.4000-010	1		
2000W	3600W	746.3000-385	1		
1500W	3600W	746.4000-385	1		
1500W	3600W			746.4005-898	1
2000W	3600W			746.3000-388	1
1500W	3600W			746.4000-388	1
2000W	3600W	746.3000-384	1		
1500W	3600W	746.4000-384	1		
2000W	3600W	746.3000-349	1		
1500W	3600W	746.4000-349	1		
2000W	3600W			746.3000-389	1
1500W	3600W			746.4000-389	1

2.3



Industrial cable reels

ROLLER 330 Series

■ Cable reels for industrial applications

ASSEMBLIES

1

2

3

4

Supply	no.	Sockets					Current	Poles	Volt	Cable length	Cable section
		16A									
		2P+E	3P+E	3P+N+E							
Plug IEC309 16A	1		1			16A	2P+E	230V	30m	2,5mm ²	
Plug IEC309 16A	2		2			16A	2P+E	230V	30m	2,5mm ²	
Plug IEC309 16A	3	1	2			16A	2P+E	230V	30m	2,5mm ²	
Plug IEC309 16A	3	1	2			16A	2P+E	230V	30m	2,5mm ²	
Plug IEC309 16A	1			1		16A	3P+E	400V	30m	2,5mm ²	
Plug IEC309 16A	2			2		16A	3P+E	400V	30m	2,5mm ²	
Plug IEC309 16A	1				1	16A	3P+N+E	400V	20m	2,5mm ²	
Plug IEC309 16A	2		1	1		16A	3P+N+E	400V	20m	2,5mm ²	
Plug IEC309 16A	2				2	16A	3P+N+E	400V	20m	2,5mm ²	
Plug IEC309 16A	3	1	1	1		16A	3P+N+E	400V	20m	2,5mm ²	
Plug IEC309 16A	3	1		2		16A	3P+N+E	400V	20m	2,5mm ²	
Plug IEC309 16A	3	1			2	16A	3P+N+E	400V	20m	2,5mm ²	
Plug IEC309 16A	3	2		2		16A	3P+N+E	400V	20m	2,5mm ²	

- Fully wired, ready to use.
- Cable H07RN-F (RUBBER)
- Note: Same domestic socket outlets guarantee protection degree IP44 when the lid is closed.
- Cable reels for industrial applications:
- The maximum power supply is shown on every single item.



**ITALIAN STANDARD
P30 2P+E 16A**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P17/11 2P+E 16A**
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



3P+N+E 16A



Wound cable power



Unwound cable power

Industrial cable reels

ROLLER 330 Series



ROLLER 330 Series

746.



With 1 interlocked switch socket outlet



With 2 socket outlets



With 2 IEC309 socket outlets and 1 domestic socket outlet

		INDUSTRIAL CABLE REEL			
⊙	⊙	IP55	IP44	IP55	IP20
1800W	3600W	746.3512-350			
		1			
1800W	3600W		746.3010-077	746.3510-077	
			1	1	
1800W	3600W				746.3010-054
					1
1800W	3600W				746.3010-056
					1
4500W	11000W	746.3512-351			
		1			
4500W	11000W		746.3010-091	746.3510-091	
			1	1	
5000W	11000W	746.2512-352			
		1			
5000W	11000W		746.2010-075	746.2510-075	
			1	1	
5000W	11000W		746.2010-093	746.2510-093	
			1	1	
5000W	11000W				746.2010-052
					1
5000W	11000W				746.2010-101
					1
5000W	11000W				746.2010-102
					1
5000W	11000W				746.2010-390
					1

2.3



Industrial cable reels

ROLLER-BLOCK 330 Series

Cable reels

ASSEMBLIES

1

2

3

4

Sockets

16A

Supply	no.	Sockets			Current	Poles	Volt	Cable length	Cable section	@	⊙
		2P+E	3P+E	3P+N+E							
Plug IEC309 16A	1	1			16A	2P+E	230V	30m	2,5mm ²	1800W	3600W
Plug IEC309 16A	1		1		16A	3P+E	400V	30m	2,5mm ²	4500W	11000W
Plug IEC309 16A	1			1	16A	3P+N+E	400V	20m	2,5mm ²	5000W	11000W

- Fully wired, ready to use.
- Cable H07RN-F (RUBBER)
- Note: Same domestic socket outlets guarantee protection degree IP44 when the lid is closed.
- Cable reels for industrial applications:
- The maximum power supply is shown on every single item.
- With standard for BLOCK4 Series distribution assemblies



2P+E 16A



3P+E 16A



3P+N+E 16A



Wound cable power



Unwound cable power

Industrial cable reels
ROLLER-BLOCK 330 Series



ROLLER 330 Series

746.



**Cable reels with stand
for BLOCK 4 Series
distribution assemblies**

INDUSTRIAL CABLE REEL

IP44		IP55	
746.3025-350	1	746.3525-350	1
746.3025-351	1	746.3525-351	1
746.2025-352	1	746.2525-352	1

2.3



Industrial cable reels

ROLLER 450 Series

■ Cable reels for industrial applications

ASSEMBLIES

1

2




3

4

Sockets

16A 32A 16A

2P+E 3P+E 3P+N+E

Supply	no.				Current	Poles	Volt	Cable length	Cable section	@
Plug IEC309 16A	4	4			16A	2P+E	230V	30m	2,5mm ²	1800W
Plug IEC309 16A	4	4			16A	2P+E	230V	50m	2,5mm ²	1600W
Plug IEC309 16A	4		4		16A	3P+E	400V	30m	2,5mm ²	4500W
Plug IEC309 16A	4		4		16A	3P+E	400V	50m	2,5mm ²	4000W
Plug IEC309 16A	4	2	2		16A	3P+N+E	400V	30m	2,5mm ²	5000W
Plug IEC309 16A	4	2	2		16A	3P+N+E	400V	50m	2,5mm ²	4000W
Plug IEC309 16A	4	2		2	16A	3P+N+E	400V	30m	2,5mm ²	5000W
Plug IEC309 16A	4	2		2	16A	3P+N+E	400V	50m	2,5mm ²	4000W
Plug IEC309 16A	4	3	1		16A	3P+N+E	400V	30m	2,5mm ²	5000W
Plug IEC309 16A	4	3	1		16A	3P+N+E	400V	50m	2,5mm ²	4000W
Plug IEC309 16A	4	3		1	16A	3P+N+E	400V	30m	2,5mm ²	5000W
Plug IEC309 16A	4	3		1	16A	3P+N+E	400V	50m	2,5mm ²	4000W
Plug IEC309 16A	4			4	16A	3P+N+E	400V	30m	2,5mm ²	5000W
Plug IEC309 16A	4			4	16A	3P+N+E	400V	50m	2,5mm ²	4000W
Plug IEC309 32A	4		4		32A	3P+E	400V	30m	2,5mm ²	7000W

- Cable H07RN-F (RUBBER)
- Cable reels for industrial applications:
- The maximum power supply is shown on every single item.



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



Wound cable power



Unwound cable power

Industrial cable reels
ROLLER 450 Series



ROLLER 450 Series

745.



With 4 sockets

INDUSTRIAL CABLE REEL

Ø	IP44		IP55	
	3600W	745.3005-012	1	745.3505-012
3600W	745.5005-012	1	745.5505-012	1
11000W	745.3005-013	1	745.3505-013	1
11000W	745.5005-013	1	745.5505-013	1
11000W	745.3005-003	1	745.3505-003	1
11000W	745.5005-003	1	745.5505-003	1
11000W	745.3005-006	1	745.3505-006	1
11000W	745.5005-006	1	745.5505-006	1
11000W	745.3005-008	1	745.3505-008	1
11000W	745.5005-008	1	745.5505-008	1
11000W	745.3005-094	1	745.3505-094	1
11000W	745.5005-094	1	745.5505-094	1
11000W	745.3005-096	1	745.3505-096	1
11000W	745.5005-096	1	745.5505-096	1
14000W	745.3005-441	1	745.3505-441	1

2.3



Industrial cable reels

ROLLER-BLOCK 450 Series

■ Cable reels for industrial applications

ASSEMBLIES

1

2

3

4

Supply	no.	Sockets					Current	Poles	Volt	Cable length	Cable section	
		16A		32A		16A						32A
		2P+E	3P+E	3P+N+E	3P+N+E	3P+N+E						
Plug IEC309 16A	1	1					16A	2P+E	230V	30m	2,5mm ²	
Plug IEC309 16A	1	1					16A	2P+E	230V	50m	2,5mm ²	
Plug IEC309 16A	1		1				16A	3P+E	400V	30m	2,5mm ²	
Plug IEC309 16A	1		1				16A	3P+E	400V	50m	2,5mm ²	
Plug IEC309 16A	1				1		16A	3P+N+E	400V	30m	2,5mm ²	
Plug IEC309 16A	1				1		16A	3P+N+E	400V	50m	2,5mm ²	
Plug IEC309 32A	1			1			32A	3P+E	400V	30m	4mm ²	
Plug IEC309 32A	1					1	32A	3P+N+E	400V	30m	4mm ²	

- Cable H07RN-F (RUBBER)
- Cable reels for industrial applications:
- With standard for BLOCK4 Series distribution assemblies



2P+E 16A



3P+E 16A



3P+N+E 16A



3P+E 32A



3P+N+E 32A



Wound cable power



Unwound cable power

Industrial cable reels
ROLLER-BLOCK 450 Series



ROLLER 450 Series

749.



Cable reels with wheeled stand for BLOCK4 Series distribution assemblies

INDUSTRIAL CABLE REEL

	Ⓢ	Ⓣ	IP44		IP55	
			Code	Qty	Code	Qty
1800W	3600W		749.3005-350	1	749.3505-350	1
1600W	3600W		749.5005-350	1	749.5505-350	1
4500W	11000W		749.3005-351	1	749.3505-351	1
4000W	11000W		749.5005-351	1	749.5505-351	1
5000W	11000W		749.3005-352	1	749.3505-352	1
4000W	11000W		749.5005-352	1	749.5505-352	1
7000W	14000W		749.3005-353	1	749.3505-353	1
7000W	14000W		749.3005-354	1	749.3505-354	1

2.3



Industrial cable reels

ROLLER Series

Spare parts (ROLLER 330)

ROLLER 330 Series

746.

Sockets

16A

2P+E

3P+E



Drum

Socket-holder disc

IP	Sockets				⊙	○	DRUM FOR GENERIC USE		SOCKET-HOLDER DISC	
	⋮	⋯	●	●						
IP20	1		1	1					746.2010-052.P	1
	1		2						746.3010-054.P	1
	2	2							746.3000-010.P	1
	3	1			5000W	11000W			746.3000-385.P	1
			1	2					746.4000-010.P	1
IP44			2						746.3010-056.P	1
			2						746.3010-077.P	1
IP55				2					746.3510-077.P	1
									746.3510-091.P	1
							746.0000-000			1

1
2
ASSEMBLIES

3
4



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



ITALIAN STANDARD
P17/11 2P+E 16A
Shuttered socket CEI 23-50



2P+E 16A



3P+E 16A



Wound cable power



Unwound cable power

Industrial cable reels

ROLLER Series

Disassembled

ASSEMBLIES

1

2

3

4

ROLLER 330 Series

SC9.



Description	Notes	Disassembled (ROLLER 330)
CABLE REEL WITHOUT HOLDER DISC	OPEN DRUM ROLLER 330	SC92063 20
	ROLLER 330	SC92062 20
1 IND. SOCKET HOLDER DISC	1x(70x87mm)	SC92082
1 OMNIA SOCKET HOLDER DISC	1x(136x125mm)	SC92078
	2x(70x87mm)	SC92080 80
2 IND. SOCKET HOLDER DISC	2x(75x75mm)	SC92074 80
	2x(75x75mm)+1x(50x60mm)	SC92076
3 DOMESTIC SOCKETS HOLDER DISC	3x(50x60mm)	SC92070
4 DOMESTIC SOCKETS HOLDER DISC	4x(50x60mm)	SC92072 80
BLANK SOCKET HOLDER DISC 330	BLANK	SC92068 80

ROLLER 330 Series

SC9.



Description	Notes	Disassembled (ROLLER-BLOCK 330)
CABLE REEL WITHOUT HOLDER DISC	ROLLER-BLOCK 330	SC92064 1
1 IND. SOCKET HOLDER DISC	1x(70x87mm)	SC92082
1 OMNIA SOCKET HOLDER DISC	1x(136x125mm)	SC92078
	2x(70x87mm)	SC92080 80
2 IND. SOCKET HOLDER DISC	2x(75x75mm)	SC92074 80
	2x(75x75mm)+1x(50x60mm)	SC92076
3 DOMESTIC SOCKETS HOLDER DISC	3x(50x60mm)	SC92070
4 DOMESTIC SOCKETS HOLDER DISC	4x(50x60mm)	SC92072 80
BLANK SOCKET HOLDER DISC 330	BLANK	SC92068 80

Industrial cable reels

ROLLER Series



Disassembled

ROLLER 450 Series

SC9.



Description	Notes	Disassembled (ROLLER 450)	
CABLE REEL WITHOUT HOLDER DISC	ROLLER 450	SC92065	1
1 IND. SOCKET HOLDER DISC	1x(75x75mm)	SC92086	1
3 IND. SOCKET HOLDER DISC	3x(70x87mm)	SC92092	1
4 IND. SOCKET HOLDER DISC	4x(75x75mm)	SC92089	1
BLANK SOCKET HOLDER DISC 450	BLANCK	SC92088	1
1 QUADRA SOCKET HOLDER DISC	1x(136x172mm)	SC92094	1
6 DOMESTIC SOCKETS HOLDER DISC	6x(50x60mm)	SC92085	1

ROLLER 450 Series

SC9.



Description	Notes	Disassembled (ROLLER-BLOCK 450)	
CABLE REEL WITHOUT HOLDER DISC	ROLLER-BLOCK 450	SC92066	1
1 IND. SOCKET HOLDER DISC	1x(75x75mm)	SC92086	1
3 IND. SOCKET HOLDER DISC	3x(70x87mm)	SC92092	1
4 IND. SOCKET HOLDER DISC	4x(75x75mm)	SC92089	1
BLANK SOCKET HOLDER DISC 450	BLANCK	SC92088	1
1 QUADRA SOCKET HOLDER DISC	1x(136x172mm)	SC92094	1
6 DOMESTIC SOCKETS HOLDER DISC	6x(50x60mm)	SC92085	1

2.3



3

ACCESSORIES

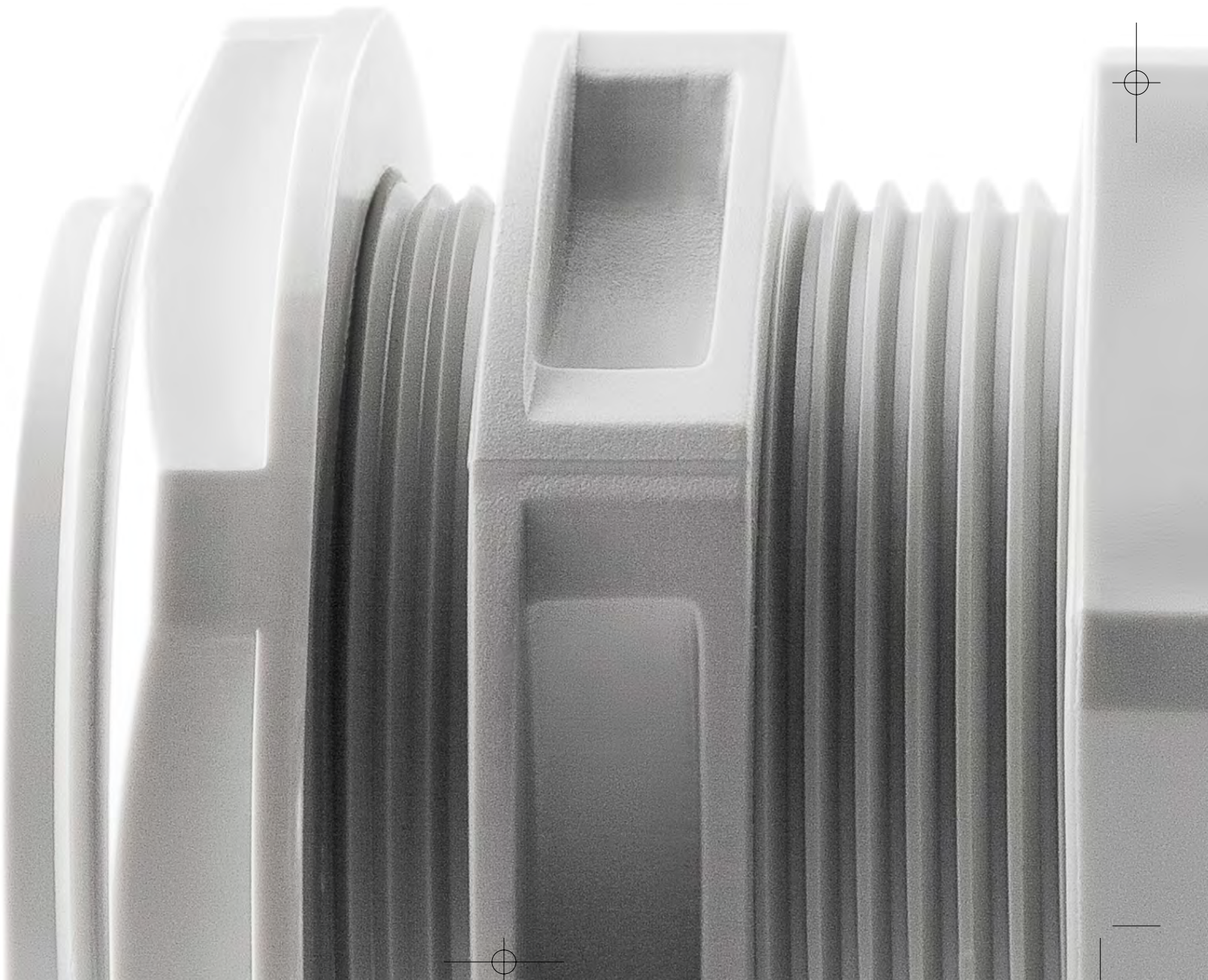
Components and accessories
for electrical installations

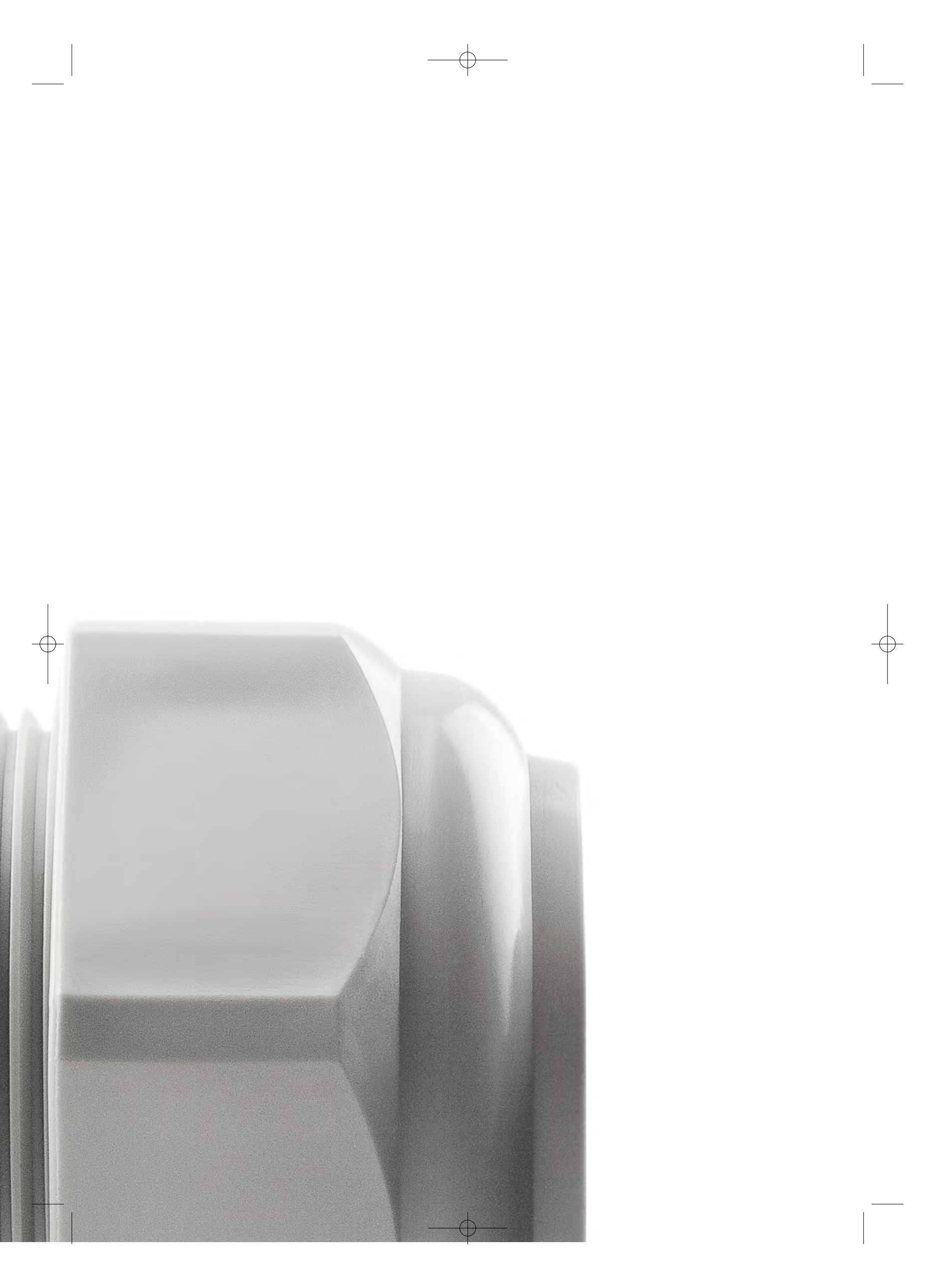
3.1	Installation accessories	PAG. 462
3.2	Connecting accessories	PAG. 484
3.3	Conduit	PAG. 498
3.4	Trunking systems	PAG. 508

3.1

Installation accessories

- **UNION Series**
Installation accessories
- **TIES Series**
Cable ties
- **FIXO Series**
Fastening accessories
- **CABLO Series**
INSTALLATION Accessories
- **FASTY Series**
Cable clips and insulated pins
- **RAILDIN Series**
Metallic DIN rails





Installation accessories

UNION Series

■ Cable glands >> Anti-tear cable glands [LIGHT] - With device preventing any unscrewing

UNION Series

805.



With nut, without diaphragm - IP66

CABLE GLAND

IP66

LIGHT

Cable outlet	Fixing hole	Cable size	Spanner size	Thread length	Nut spanner coupler	Seal spanner coupler		
1/4"	ø13mm	ø3-6mm	15mm	9,5mm	2,5N/m	2,5N/m	805.7340	50/600
3/8"	ø16mm	ø4-8mm	19mm	9,5mm	4N/m	2,5N/m	805.7341	50/600
1/2"	ø21mm	ø7-12mm	24mm	12mm	6N/m	5N/m	805.7343	25/500
5/8"	ø23mm	ø10-14mm	27mm	12mm	6N/m	5,5N/m	805.7344	25/300
3/4"	ø29mm	ø13-18mm	33mm	14mm	9N/m	7N/m	805.7345	25/400
1"	ø37,5mm	ø18-25mm	42mm	15mm	14N/m	10N/m	805.7346	25/350
1.1/8"	ø37,5mm	ø18-25mm	42mm	15mm	14N/m	10N/m	805.7347	10/140
1.1/2"	ø47,5mm	ø22-32mm	53mm	17,5mm	15N/m	12,5N/m	805.7348	10/140
2"	ø60mm	ø34-44mm	68mm	20mm	15N/m	12,5N/m	805.7349	10/100
M12X1,5	ø12mm	ø3-6mm	15mm	9,5mm	2,5N/m	2,5N/m	805.5412	50/600
M16X1,5	ø16mm	ø4-8mm	19mm	9,5mm	4N/m	2,5N/m	805.5416	50/600
M20X1,5	ø20mm	ø7-12mm	24mm	12mm	6N/m	5N/m	805.5420	25/500
M25X1,5	ø25mm	ø13-18mm	33mm	14mm	9N/m	5,5N/m	805.5425	25/400
M32X1,5	ø32mm	ø18-25mm	42mm	15mm	14N/m	7N/m	805.5432	25/350
M40X1,5	ø40mm	ø22-32mm	53mm	17,5mm	15N/m	11,5N/m	805.5440	10/140
M50X1,5	ø50mm	ø30-38mm	60mm	19mm	15N/m	11,5N/m	805.5450	10/100
M63X1,5	ø63mm	ø34-44mm	68mm	14mm	15N/m	11,5N/m	805.5463	10/100
PG 7	ø13mm	ø3-6mm	15mm	9,5mm	2,5N/m	2,5N/m	805.3340	50/600
PG 9	ø16mm	ø4-8mm	19mm	9,5mm	4N/m	2,5N/m	805.3341	50/600
PG 11	ø19mm	ø5-10mm	22mm	10mm	5,5N/m	5N/m	805.3342	25/500
PG 13.5	ø21mm	ø7-12mm	24mm	12mm	6N/m	5N/m	805.3343	25/600
PG 16	ø23mm	ø10-14mm	27mm	12mm	6N/m	5,5N/m	805.3344	25/300
PG 21	ø29mm	ø13-18mm	33mm	14mm	9N/m	7N/m	805.3345	25/400
PG 29	ø37,5mm	ø18-25mm	42mm	15mm	14N/m	10N/m	805.3346	25/350
PG 36	ø47,5mm	ø22-32mm	53mm	17,5mm	15N/m	12,5N/m	805.3347	10/140
PG 42	ø54,5mm	ø30-38mm	60mm	19mm	15N/m	12,5N/m	805.3348	10/100
PG 48	ø60mm	ø34-44mm	68mm	20mm	15N/m	12,5N/m	805.3349	10/100

- Cable glands are provided without gasket
- STANDARD version: IP66

1
2
3

ACCESSORIES

4

Installation accessories

UNION Series

■ Cable glands >> Anti-tear cable glands [HEAVY DUTY] - With device preventing any unscrewing

UNION Series

805.



With nut, without diaphragm - IP68 (1bar)

CABLE GLAND

IP68

HEAVY DUTY

Cable outlet	Fixing hole	Cable size	Spanner size	Thread length	Nut spanner coupler	Seal spanner coupler		
1/4"	ø13mm	ø3-6mm	15mm	9,5mm	2,5N/m	2,5N/m	805.7350	50/600
3/8"	ø16mm	ø4-8mm	19mm	9,5mm	4N/m	2,5N/m	805.7351	50/600
1/2"	ø21mm	ø7-12mm	24mm	12mm	6N/m	5N/m	805.7353	25/500
5/8"	ø23mm	ø10-14mm	27mm	12mm	6N/m	5,5N/m	805.7354	25/300
3/4"	ø29mm	ø13-18mm	33mm	14mm	9N/m	7N/m	805.7355	25/400
1"	ø37,5mm	ø18-25mm	42mm	15mm	14N/m	10N/m	805.7356	25/350
1.1/8"	ø47,5mm	ø22-32mm	53mm	17,5mm	15N/m	12,5N/m	805.7357	10/140
1.1/2"	ø60mm	ø34-44mm	68mm	20mm	15N/m	12,5N/m	805.7358	10/140
2"	ø60mm	ø34-44mm	68mm	20mm	15N/m	12,5N/m	805.7359	10/100
M12X1,5	ø12mm	ø3-6mm	15mm	9,5mm	2,5N/m	2,5N/m	805.5512	50/600
M16X1,5	ø16mm	ø4-8mm	19mm	9,5mm	4N/m	2,5N/m	805.5516	50/600
M20X1,5	ø20mm	ø7-12mm	24mm	12mm	6N/m	5N/m	805.5520	25/500
M25X1,5	ø25mm	ø13-18mm	33mm	14mm	9N/m	5,5N/m	805.5525	25/400
M32X1,5	ø32mm	ø18-25mm	42mm	15mm	14N/m	7N/m	805.5532	25/350
M40X1,5	ø40mm	ø22-32mm	53mm	17,5mm	15N/m	11,5N/m	805.5540	10/140
M50X1,5	ø50mm	ø30-38mm	60mm	19mm	15N/m	11,5N/m	805.5550	10/100
M63X1,5	ø63mm	ø34-44mm	68mm	14mm	15N/m	11,5N/m	805.5563	10/100
PG 7	ø13mm	ø3-6mm	15mm	9,5mm	2,5N/m	2,5N/m	805.3350	50/600
PG 9	ø16mm	ø4-8mm	19mm	9,5mm	4N/m	2,5N/m	805.3351	50/600
PG 11	ø19mm	ø5-10mm	22mm	10mm	5,5N/m	5N/m	805.3352	25/500
PG 13.5	ø21mm	ø7-12mm	24mm	12mm	6N/m	5N/m	805.3353	25/500
PG 16	ø23mm	ø10-14mm	27mm	12mm	6N/m	5,5N/m	805.3354	25/300
PG 21	ø29mm	ø13-18mm	33mm	14mm	9N/m	7N/m	805.3355	25/400
PG 29	ø37,5mm	ø18-25mm	42mm	15mm	14N/m	10N/m	805.3356	25/350
PG 36	ø47,5mm	ø22-32mm	53mm	17,5mm	15N/m	12,5N/m	805.3357	10/140
PG 42	ø54,5mm	ø30-38mm	60mm	19mm	15N/m	12,5N/m	805.3358	10/100
PG 48	ø60mm	ø34-44mm	68mm	20mm	15N/m	12,5N/m	805.3359	10/100

- Fixing type A (metric HD).
- HEAVY DUTY version IP66 or IP68 (1 bar) if installed with corresponding seal.



HD
Heavy Duty

Installation accessories

UNION Series



Accessories

UNION Series

805.



Nuts [LIGHT]



Nuts [HEAVY DUTY]

Screw caps

Seals - Thermoplastic

LOCK NUT

SCREW CAP

GASKET

LIGHT

HEAVY DUTY

LIGHT

Cable outlet

	LIGHT		HEAVY DUTY		LIGHT			
M12X1,5	805.5612 ^[2]	100/1000	805.5712 ^[3]	100/1000	805.5812 ^[1]	100/1000	805.5912	100/1000
M16X1,5	805.5616 ^[2]	100/1000	805.5716 ^[3]	100/1000	805.5816 ^[1]	100/1000	805.5916	100/1000
M20X1,5	805.5620 ^[2]	100/1000	805.5720 ^[3]	100/1000	805.5820 ^[1]	100/1000	805.5920	100/1000
M25X1,5	805.5625 ^[2]	100/1000	805.5725 ^[3]	100/1000	805.5825 ^[1]	100/1000	805.5925	100/1000
M32X1,5	805.5632 ^[2]	50/500	805.5732 ^[3]	50/500	805.5832 ^[1]	50/500	805.5932	100/1000
M40X1,5	805.5640 ^[2]	50/500	805.5740 ^[3]	50/500	805.5840 ^[1]	25/250	805.5940	50/500
M50X1,5	805.5650 ^[2]	50/500	805.5750 ^[3]	50/500	805.5850 ^[1]	25/250	805.5950	50/500
M63X1,5	805.5663 ^[2]	50/500	805.5763 ^[3]	50/500	805.5863 ^[1]	25/250	805.5963	50/500
PG 7	805.3360 ^[2]	100/1000	805.3370 ^[3]	100/1000	805.3380 ^[1]	100/1000	805.3390	100/1000
PG 9	805.3361 ^[2]	100/1000	805.3371 ^[3]	100/1000	805.3381 ^[1]	100/1000	805.3391	100/1000
PG 11	805.3362 ^[2]	100/1000	805.3372 ^[3]	100/1000	805.3382 ^[1]	100/1000	805.3392	100/1000
PG 13.5	805.3363 ^[2]	100/1000	805.3373 ^[3]	100/1000	805.3383 ^[1]	100/1000	805.3393	100/1000
PG 16	805.3364 ^[2]	100/1000	805.3374 ^[3]	100/1000	805.3384 ^[1]	100/1000	805.3394	100/1000
PG 21	805.3365 ^[2]	100/1000	805.3375 ^[3]	100/1000	805.3385 ^[1]	100/1000	805.3395	100/1000
PG 29	805.3366 ^[2]	50/500	805.3376 ^[3]	50/500	805.3386 ^[1]	50/500	805.3396	50/500
PG 36	805.3367 ^[2]	50/500	805.3377 ^[3]	50/500	805.3387 ^[1]	25/250	805.3397	50/500
PG 42	805.3368 ^[2]	50/500	805.3378 ^[3]	50/500	805.3388 ^[1]	25/250	805.3398	50/500
PG 48	805.3369 ^[2]	50/500	805.3379 ^[3]	50/500	805.3389 ^[1]	25/250	805.3399	50/500

[1] Without nut.

[2] STANDARD version: IP66

[3] HEAVY DUTY version IP66 or IP68 (1 bar) if installed with corresponding seal.

3.1



Installation accessories UNION Series

Installation accessories

UNION Series

805.



Couplers - IP66 With nut and seal

COUPLER

IP66

LIGHT

HEAVY DUTY

Cable outlet	Cable size	LIGHT		HEAVY DUTY	
M25X1,5	19,6mm	805.5225	10/50	805.5325	10/50
M40X1,5	33,6mm	805.5240	5/25	805.5340	5/25
PG 16		805.3334 ¹	10/50		
PG 21	22mm	805.3335	10/50		
PG 29	27,8mm	805.3336	10/50		
PG 36	38,7mm	805.3337	5/25		

¹ Only for surface mounting enclosure.



APPLICATION EXAMPLE

1

2

3

ACCESSORIES

4

Installation accessories

UNION Series



■ Cable sleeves

UNION Series

805.



Cable sleeves (insulating perforation) - IP55 [RUBBER]

Cable sleeves (5 circles) - IP55 [PVC]

Cable sleeves (5 circles) - IP55 [RUBBER]

CABLE SLEEVE

IP55

Cable outlet	Fixing hole	Cable sleeves (insulating perforation) - IP55 [RUBBER]		Cable sleeves (5 circles) - IP55 [PVC]		Cable sleeves (5 circles) - IP55 [RUBBER]	
PG 16	23mm	805.3324	100/1000	805.3304 ^[1]	100/1000	805.3314 ^[1]	100/1000
		805.3324HF ^[2]	100/1000			805.3314HF ^{[1][2]}	100/1000
PG 21	29mm	805.3325	100/1000	805.3305 ^[1]	100/1000	805.3315 ^[1]	100/1000
		805.3325HF ^[2]	100/1000			805.3315HF ^{[1][2]}	100/1000
PG 29	39,5mm			805.3306 ^[1]	50/500		
PG 36	47,5mm			805.3307 ^[1]	25/200		

^[1] SCABOX - CUBIK - CUBOX Series type

^[2] Halogen free (Glow Wire 650°C)

3.1



Installation accessories

TIES Series

Cable ties

TIES Series

839.



For indoor wiring

CABLE TIE

Dimension	Clamping diameter	Traction resistance	White	Black
2,2x75mm	15mm	6,12Kg	839.42080 100/2000	839.52080 100/2000
2,5x135mm	32mm	8,16Kg	839.42120 100/2000	839.52120 100/2000
2,5x98mm	21mm		839.42100 100/2000	839.52100 100/2000
2,6x160mm	40mm		839.42160 100/2000	839.52160 100/2000
2,6x200mm	52mm		839.42200 100/2000	839.52200 100/2000
3,5x140mm	32mm	18,36Kg	839.43140 100/2000	839.53140 100/2000
3,5x200mm	50mm		839.43200 100/2000	839.53200 100/2000
3,5x290mm	80mm		839.43300 100/2000	839.53300 100/2000
3,5x370mm	103mm		839.43370 100/2000	839.53370 100/2000
4,5x290mm	78mm	22,44Kg	839.44300 100/2000	839.54300 100/2000
4,5x360mm	100mm		839.44370 100/2000	839.54370 100/2000
4,5x430mm	115mm		839.44430 100/2000	839.54430 100/2000
4,8x178mm	45mm		839.44190 100/2000	839.54190 100/2000
4,8x200mm	50mm	55,08Kg	839.44200 100/2000	839.54200 100/2000
4,8x250mm	68mm		839.44250 100/2000	839.54250 100/2000
7,5x365mm	100mm		839.47370 100/2000	839.57370 100/2000
7,8x180mm	45mm		839.47200 100/2000	839.57200 100/2000
7,8x300mm	80mm	71,4Kg	839.47290 100/2000	839.57290 100/2000
9x780mm	233mm		839.47780 100/1000	839.57780 100/1000

- Good resistance to external agents: oil, grease, oil derivatives, alcohol, saline mist and chlorates.
- Colour black: increased resistance to UV rays (not suited for prolonged exposure).
- Do not withstand UV rays



TIES Series
Cable ties for indoor wiring

Installation accessories

TIES Series



■ Cable ties

TIES Series

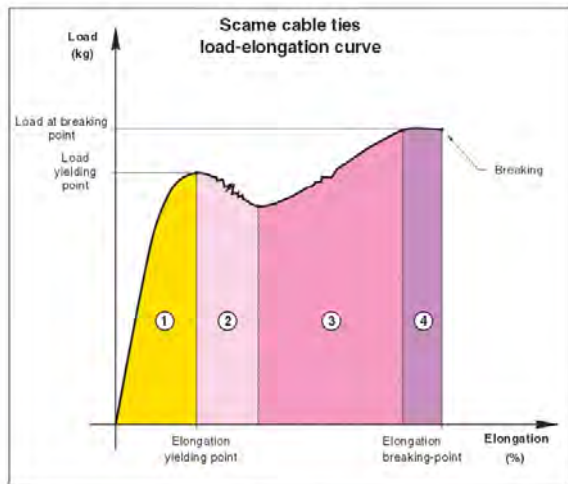
839.



For outdoor wiring

Dimension	Clamping diameter	Traction resistance	CABLE TIE	
6x115mm	4÷25mm	25Kg	839.39/6115	100/2000
6x180mm	10÷45mm	28Kg	839.39/6175	100/2000
9x120mm	4÷22mm	48Kg	839.39/9120	100/2000
9x180mm	10÷42mm		839.39/9180	100/2000
9x260mm	30÷60mm	51Kg	839.39/9260	100/2000
9x360mm	30÷93mm		839.39/9350	100/2000

- Rounded edges to avoid cutting into cable insulation.
- Good resistance to external agents: oil, grease, oil derivatives and saline mist.
- Withstands UV rays.



Loading diagram

SCAME cable ties load-elongation curve

4 zones with different characteristics are clearly distinguished:

- 1) Elastic elongation (area of use).
The cable tie is subjected to traction forces and lengthens, elastically. When the forces are taken away, the tie returns to its initial state, without any alteration of its physical characteristics.
- 2) Stretching of the molecular links.
The tie is subjected to such a load that some of the intermolecular links are broken. The elastic properties are altered.
- 3) Permanent deformity.
All the inter-molecular links are broken.
- 4) Breaking-point.
Length at which the tie breaks.

3.1



Installation accessories

TIES Series

■ Cable ties

TIES Series

839.



ACCESSORIES

Description	Colour	Plier for cable tie clamping-trimming
PLIER	■	839.39/104 20

- Made of red stove-enamelled steel.

4

Installation accessories

TIES Series



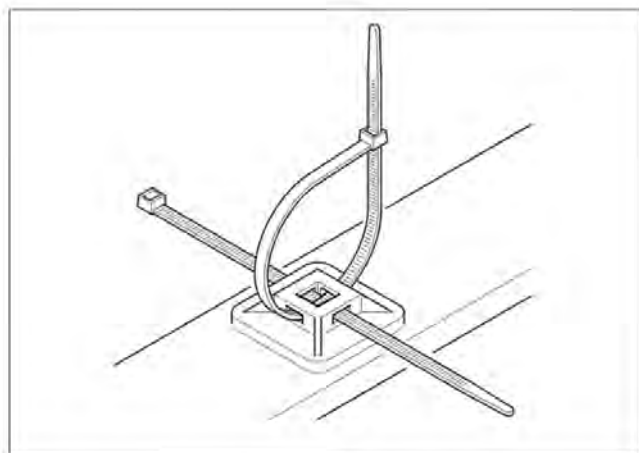
■ Cable ties

TIES Series

839.



Description	Dimension	Fastening accessories for cable ties
SELF-ADESIVE CABLE TIE BASE - Max. cable tie width: 4.8 mm.	28,5x28,5mm	839.39/100 100/1000



Adhesive support

3.1



Installation accessories

TIES Series

■ Cable ties

TIES Series

839.



Description

Dimension

Fastening accessories for cable ties

WALL ANCHOR BASE

7÷8mm

839.39/101

100/1000

1
2
3

ACCESSORIES

4

TIES Series

839.



Description

Dimension

Fastening accessories for cable ties

PANEL CLIP-ON BASE

6,4mm max

839.39/102

100/1000

- Max. cable tie width: 4.8 mm.

TIES Series

839.



Description

Dimension

Fastening accessories for cable ties

CABLE TIE BASE ANTI-VIBRATION

15,5x22,5mm

839.39/103

100/1000

- Max. cable tie width: 4.8 mm.

Installation accessories

FIXO Series



Fastening accessories

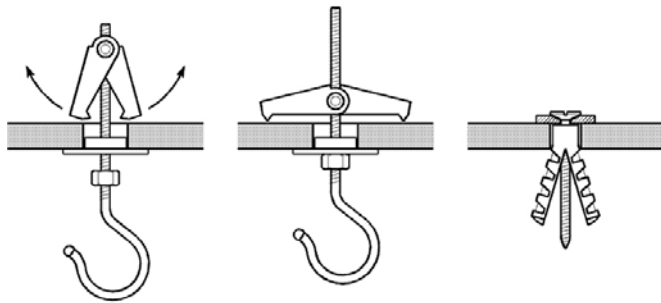
FIXO Series

845.



Description	Version	Sprung ceiling hooks	
SPRUNG CEILING HOOK	THREADED BAR		845.46/2 50/500
	EYELET	845.46 50/500	
	SCREW	845.46/1 50/1000	

- To install, fold down the tabs and push them into a 12-mm hole in the ceiling. Once through, the tabs open up and are anchored in the ceiling.
- Made of metal.



FIXO Series
Sprung hook - Fixing plug

3.1



Installation accessories

FIXO Series

■ Fixing plugs

FIXO Series

846.



Fixing plugs without screws

Fixing plugs with screws

FIXING PLUG

FIXING PLUG WITH SCREW

Dimension

Dimension	FIXING PLUG		FIXING PLUG WITH SCREW	
Ø4mm	846.13-4	100/2000	846.14-4	100/2000
Ø5mm	846.13-5	100/2000	846.14-5	100/2000
Ø6mm	846.13-6	100/2000	846.14-6	100/2000
Ø7mm	846.13-7	100/2000	846.14-7	100/2000
Ø8mm	846.13-8	100/2000	846.14-8	100/2000
Ø10mm	846.13-10	100/2000	846.14-10	100/2000

- Suitable for all type of screws (for wood, metal, concrete etc.)
- Stainless steel screws.

ACCESSORIES

1

2

3

4

Installation accessories

CABLO Series



■ INSTALLATION Accessories

CABLO Series

865.



Cable sheaths (1 meter)

Diameter		CABLE SHEATHS	
Ø2mm		865.002	200/1600
Ø3mm		865.003	200/1000
Ø4mm		865.004	200/1000
Ø5mm		865.005	200/1000
Ø6mm	865.106 200/800	865.006	200/600
Ø7mm		865.007	200/600
Ø8mm		865.008	200/400
Ø9mm		865.009	200/600
Ø10mm		865.010	200/400
Ø12mm		865.012	100/200
Ø14mm		865.014	100/200
Ø16mm		865.016	100/200
Ø18mm		865.018	100/200
Ø20mm		865.020	50/150
Ø22mm		865.022	50/150
Ø24mm		865.024	50/100
Ø26mm		865.026	50/100
Ø28mm		865.028	50/150
Ø30mm		865.030	50/100
Ø36mm		865.036	25/100
Ø40mm		865.040	25/50

- 0.41 mm thick.
- Made of self-extinguishing, soft and flexible insulated thermoplastic material.

3.1



Installation accessories CABLO Series

■ INSTALLATION Accessories

CABLO Series

865.



Spiral cable binding (1 meter)

SPIRAL CABLE BINDING

Diameter		
Ø3mm	865.603	25/700
Ø4mm	865.604	25/600
Ø6mm	865.606	25/500
Ø8mm	865.608	25/400
Ø10mm	865.610	25/200
Ø12mm	865.612	20/160
Ø14mm	865.614	20/120

- Made of self-extinguishing, soft and flexible insulated thermoplastic material.

ACCESSORIES

1

2

3

4

Installation accessories

FASTY Series



■ Cable clips and insulated pins

FASTY Series

830.



Flat clips

CLIP

FLAT

Dimension				
3,5mm	830.30/P3	100/5000	830.30/P3G	100/5000
5mm	830.30/P5	100/3000	830.30/P5G	100/3000
6mm	830.30/P6	100/5000	830.30/P6G	100/5000
8mm	830.30/P8	100/3000	830.30/P8G	100/3000
11mm	830.30/P11	100/1000	830.30/P11G	100/1000
13mm	830.30/P13	100/1000	830.30/P13G	100/1000

- Pre-inserted pins
- Pins made of hardened and nickel-plated steel
- Clips made of thermoplastic material

3.1



Installation accessories

FASTY Series

■ Cable clips and insulated pins

FASTY Series

830.



Round clips

CLIP

ROUND

Ø				
ø3-4mm	830.30/3-4	100/5000	830.30/3-4G	100/5000
ø5mm	830.30/5	100/5000	830.30/5G	100/5000
ø6mm	830.30/6	100/5000	830.30/6G	100/5000
ø7mm	830.30/7	100/5000	830.30/7G	100/5000
ø8mm	830.30/8	100/5000	830.30/8G	100/5000
ø10mm	830.30/10	100/5000	830.30/10G	100/5000
ø12mm	830.30/12	100/3000	830.30/12G	100/3000
ø14mm			830.30/14G	100/3000
ø16mm			830.30/16G	100/5000
ø19mm			830.30/19G	100/3000
ø22mm			830.30/22G	100/1000
ø26mm			830.30/26G	100/1000
ø28mm			830.30/28G	100/1000
ø32mm			830.30/32G	100/1000

- Pre-inserted pins
- Pins made of hardened and nickel-plated steel
- Clips made of thermoplastic material

FASTY Series

818.



Description	Colour	Insulated pins (100 pieces bag)
INSULATED PIN		818.2 100/1000


- Pre-inserted pins
- Pins made of hardened and nickel-plated steel
- Clips made of thermoplastic material

Installation accessories


RAILDIN Series



■ Metallic DIN rails

		RAILDIN Series	
		865.	
			
		G type - 32x15mm (1 meter)	
Description	Dimension		
DIN RAIL	32x15x1,5mm	865.210	20
	35x15x1,5mm	865.211	20

- DIN metallic rails
- Drilled rail with slots.
- Non drilled rail with drilling points provided.
- Steel rail or mounting modular electrical equipment
- Steel, cold lamination.
- Thickness of zinc coating: 8 micron.
- Electrolytic zinc coating, followed by passivation and yellow colouring.
- Standard bar length: 2m.

		RAILDIN Series	
		865.	
			
		OMEGA type - 35x15mm (1 meter)	
Description	Dimension		
DIN RAIL	35x15x1,5mm	865.230	20
		865.231	20

- DIN metallic rails
- Drilled rail with slots.
- Non drilled rail with drilling points provided.
- Steel rail or mounting modular electrical equipment
- Steel, cold lamination.
- Thickness of zinc coating: 8 micron.
- Electrolytic zinc coating, followed by passivation and yellow colouring.
- Standard bar length: 2m.

3.1

Installation accessories

RAILDIN Series

■ Metallic DIN rails

RAILDIN Series

865.



OMEGA type - 35x7.5mm (1 meter)

Description	Dimension	OMEGA type - 35x7.5mm (1 meter)	
DIN RAIL	35x7,5x1mm	865.220	40
		865.221	40

- DIN metallic rails
- Drilled rail with slots.
- Non drilled rail with drilling points provided.
- Steel rail or mounting modular electrical equipment
- Steel, cold lamination.
- Thickness of zinc coating: 8 micron.
- Electrolytic zinc coating, followed by passivation and yellow colouring.
- Standard bar length: 2m.

RAILDIN Series

865.



OMEGA type - 15x5.5mm (1 meter)

Description	Dimension	OMEGA type - 15x5.5mm (1 meter)	
DIN RAIL	15x5,5x1mm	865.240	100
		865.241	100

- Electrolytic zinc coating, followed by passivation and yellow colouring.
- Standard bar length: 2m.

ACCESSORIES

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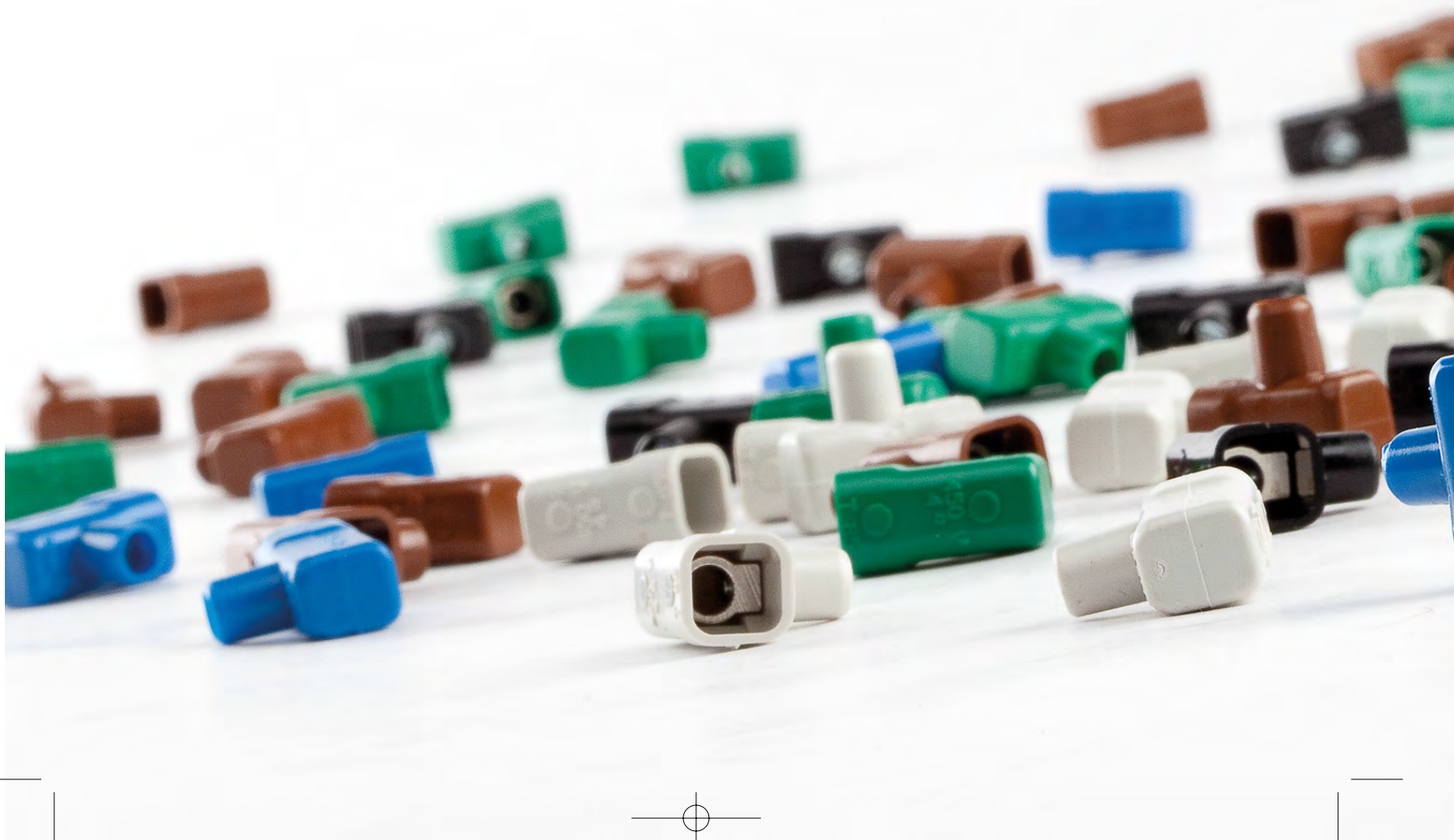
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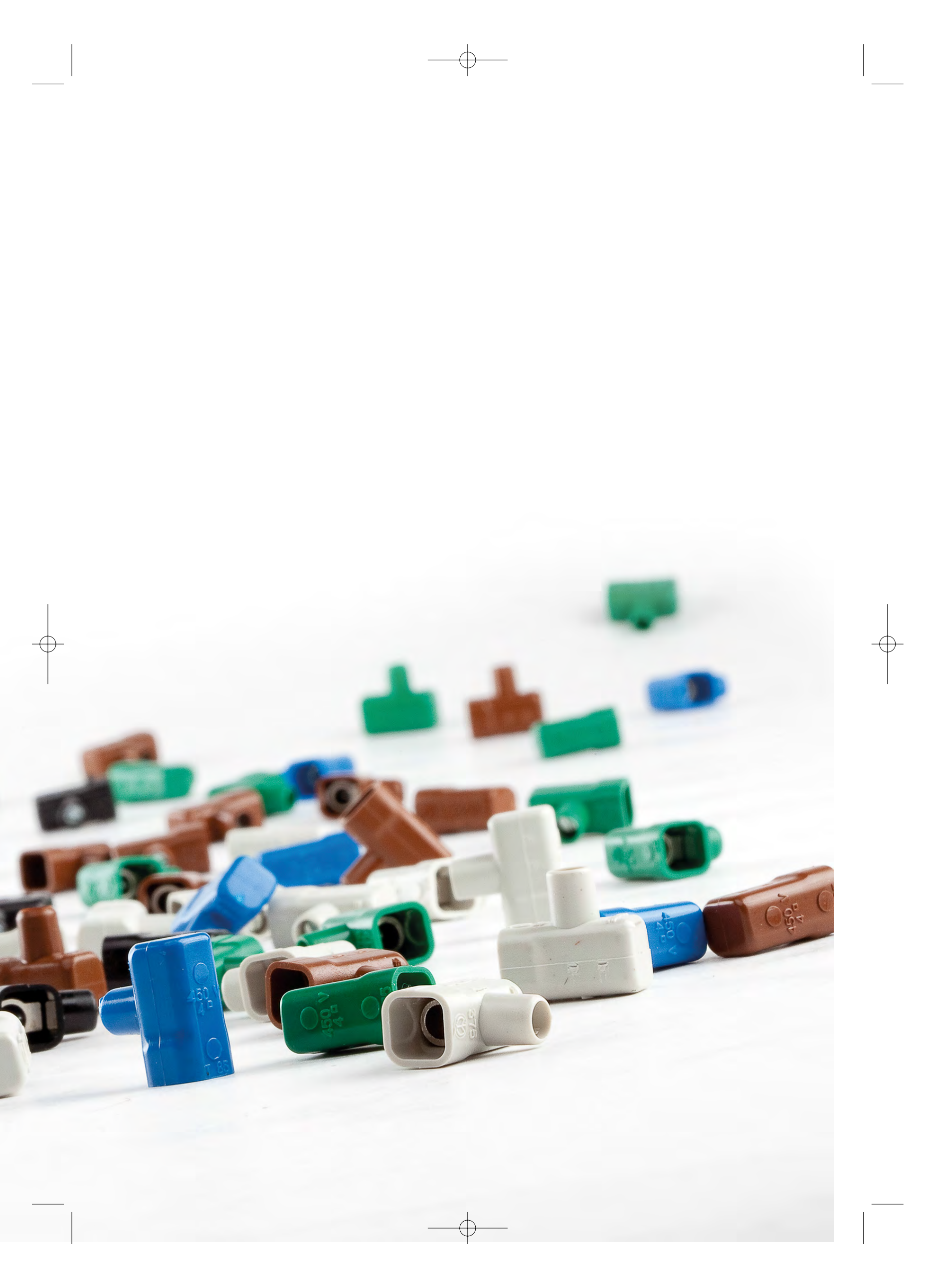
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3.2

Connecting accessories

- CONNECTO Series
Insulated wire connectors - T85
- CONNECTO Series
Terminal strips
- CONNECTO Series
DOMINO terminal blocks - T85





Connecting accessories CONNECTO Series

■ Insulated wire connectors - T85

CONNECTO Series

810.



Insulated wire
connectors - T85

ACCESSORIES

1

2

3

4

Connecting capacity	Current	Volt	Colour	WIRE CONNECTOR
1,5mm ²	17,5A	450V	■	810.372/N 100/600
			■	810.372/B 100/600
			■	810.372/G 100/600
			■	810.372/V 100/600
			■	810.372/M 100/600
			■	810.372/TR 600/6000
2,5mm ²	24A	450V	■	810.374/N 100/1000
			■	810.374/B 100/1000
			■	810.374/G 100/1000
			■	810.374/V 100/1000
			■	810.374/M 100/1000
			■	810.374/TR 1000/4000
4mm ²	32A	450V	■	810.375/N 100/1000
			■	810.375/B 100/1000
			■	810.375/G 100/1000
			■	810.375/V 100/1000
			■	810.375/M 100/1000
			■	810.375/TR 100/1000
6mm ²	41A	450V	■	810.376/N 100/1000
			■	810.376/B 100/1000
			■	810.376/G 100/1000
			■	810.376/V 100/1000
			■	810.376/M 100/1000
			■	810.376/TR 100/1000
10mm ²	57A	450V	■	810.378/N 100/1000
			■	810.378/B 100/1000
			■	810.378/G 100/1000
			■	810.378/V 100/1000
			■	810.378/M 100/1000
			■	810.378/TR 100/1000
16mm ²	76A	450V	■	810.379/N 50/500
			■	810.379/B 50/500
			■	810.379/G 50/500
			■	810.379/V 50/500
			■	810.379/M 50/500
			■	810.379/TR 50/500
25mm ²	101A	450V	■	810.425/TR 10/100
35mm ²	125A		■	810.435/TR 5/250

Connecting accessories CONNECTO Series



■ Insulated wire connectors - T85

CONNECTO Series

810.



Insulated wire connectors - T85 [ASSORTED]

Connecting capacity	Current	Volt	Colour	WIRE CONNECTOR
1,5mm ²	17,5A	450V	ASSORTED	810.372/AS 100/600
2,5mm ²	24A			810.374/AS 1000/4000
4mm ²	32A			810.375/AS 100/1000
6mm ²	41A			810.376/AS 100/1000
10mm ²	57A			810.378/AS 100/1000
16mm ²	76A			810.379/AS 50/500

- Transparent excluded



CONNECTO Series

SCAME's insulated wire connectors have clear or coloured the insulating casing. The clear casings provide the advance of allowing visual control of the connections,, while the coloured ones make for faster identification of the circuits.

3.2



Connecting accessories CONNECTO Series

■ Insulated wire connectors - T85

CONNECTO Series

812.



**Insulated wire
connectors - 10 poles
strips (1 strip)**

Connecting capacity	Dimension	Pitch	Colour	WIRE CONNECTOR BLOCK
1,5mm ²	96mm	9,8mm	TRANSPARENT	812.372 10/200
2,5mm ²	120mm	12,2mm		812.374 10/400
4mm ²				812.375 10/400
6mm ²	145mm	14,7mm		812.376 10/200
10mm ²	168mm	17mm		812.378 10/150
16mm ²	211mm	21,3mm		812.379 10/60

ACCESSORIES

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4

Connecting accessories

CONNECTO Series



Multi-way wire connectors - T85

CONNECTO Series

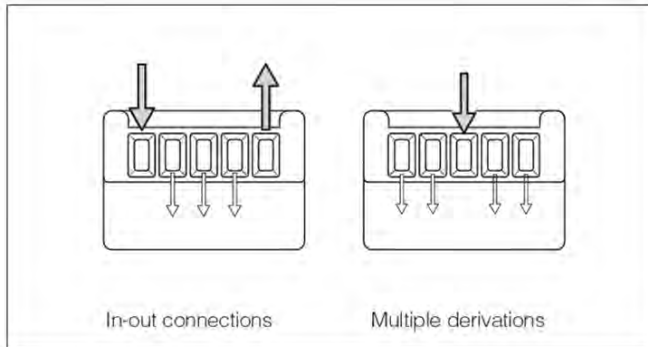
817.



2 WAY

Number of ways	Connecting capacity	Volt	Dimension	MULTI-WAY WIRE CONNECTOR	
2 WAYS	2x6mm ²	450V	23x31x24mm	817.0602	25/650
	2x16mm ²		33x28x24mm	817.1602	10/270
	2x35mm ²		35x46x30mm	817.3502	10/160

- Protection degree: IP20
- Cage clamp connectors.
- Rated voltage 450V~.
- Captive screws.
- Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
- Engineering plastic casing
- Max. service temperature - continuous duty: 85°C.



In-out connections and multiple derivations

3.2



Connecting accessories

CONNECTO Series

Multi-way wire connectors - T85

CONNECTO Series

817.



3 WAY

Number of ways	Connecting capacity	Volt	Dimension	MULTI-WAY WIRE CONNECTOR	
				Part Number	Quantity
3 WAYS	3x6mm ²	450V	31x31x24mm	817.0603	25/400
	3x16mm ²		45x28x24mm	817.1603	10/270
	3x35mm ²		49x46x30mm	817.3503	10/260

- Protection degree: IP20
- Cage clamp connectors.
- Rated voltage 450V~.
- Captive screws.
- Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
- Engineering plastic casing
- Max. service temperature - continuous duty: 85°C.

CONNECTO Series

817.



5 WAY

Number of ways	Connecting capacity	Volt	Dimension	MULTI-WAY WIRE CONNECTOR	
				Part Number	Quantity
5 WAYS	5x6mm ²	450V	49x31x24mm	817.0605	10/270
	5x16mm ²		71x38x24mm	817.1605	10/260

- Protection degree: IP20
- Cage clamp connectors.
- Rated voltage 450V~.
- Captive screws.
- Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
- Engineering plastic casing
- Max. service temperature - continuous duty: 85°C.

Connecting accessories

CONNECTO Series



Multi-way wire connectors - T85

CONNECTO Series

817.

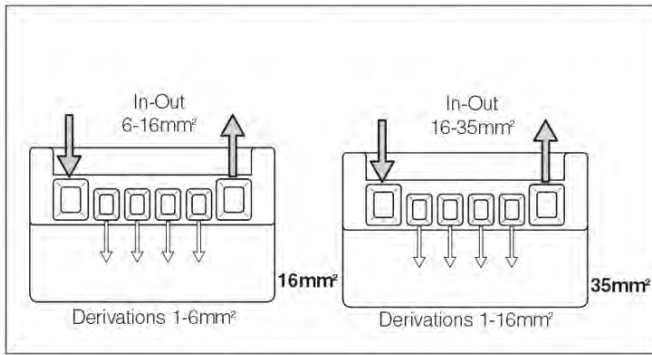


6 WAY

Number of ways	Connecting capacity	Volt	Dimension	MULTI-WAY WIRE CONNECTOR	
				Part Number	Quantity
6 WAYS	4x6mm ² 2x16mm ²	450V	66x38x24mm	817.1606C	10/260
	4x16mm ² 2x35mm ²		83x46x30mm	817.3506C	10/120

- Protection degree: IP20
- Cage clamp connectors.
- Rated voltage 450V~.
- Captive screws.
- Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
- Engineering plastic casing
- Max. service temperature - continuous duty: 85°C.

Derivations



3.2



Connecting accessories

CONNECTO Series

Multi-way wire connectors - T85

CONNECTO Series

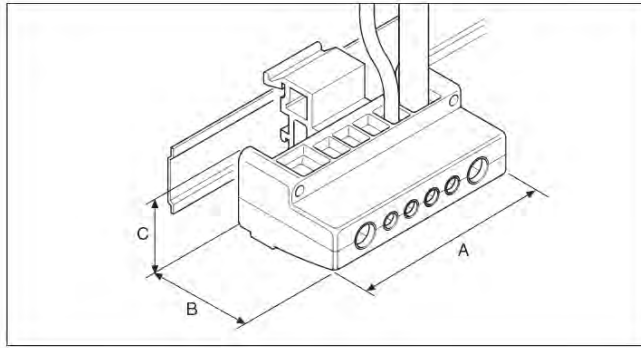
817.



ACCESSORIES

Description	Volt	Accessories
DIN RAIL BRACKET	450V	817.001 10/500

4



DIN rail bracket

The bracket for the DIN rail is the same for all versions of the multi-way wire connectors and is designed for spring-fixing onto the rail "OMEGA" and "G". It is detached from the rail by using a screw-driver.

Connecting accessories CONNECTO Series

SCAME

Terminal strips

CONNECTO Series

815.



Description	Connecting capacity	Volt	Dimension	Pitch	Ø fixing hole	Colour	T85 terminal strips
TERMINAL BLOCK T85	2,5mm ²	250V	95,5x15,5x16mm	8mm	2,6mm	White	815.2361B 50/800
						Black	815.2361 50/800
	4mm ²	450V	120x16,6x17,4mm	10mm	3,5mm	White	815.2362B 50/400
						Black	815.2362 50/400
	6mm ²					White	815.23625B 50/400
						Black	815.23625 50/400
	10mm ²	750V	138x23,5x20,5mm	11,5mm	4,3mm	White	815.2363B 25/300
						Black	815.2363 25/300
	16mm ²	750V	174x30x24mm	14,5mm	4,3mm	White	815.2364B 25/150
						Black	815.2364 25/150
	25mm ²	750V	210x38x36mm	17,5mm	4,3mm	White	815.2365B 15/60
						Black	815.2365 15/60
35mm ²	750V	264x46x39mm	22mm	5,5mm	White	815.2366B 10/40	
					Black	815.2366 10/40	

- Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
- Engineering plastic casing
- Max. service temperature - continuous duty: 85°C.
- Nickel-plated brass terminal
- 12 poles
- Captive screws of zinc-plated steel

3.2



Connecting accessories

CONNECTO Series

Terminal strips

CONNECTO Series

815.



ACCESSORIES

1

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3

4

Description	Connecting capacity	Volt	Dimension	Pitch	Ø fixing hole	Colour	T140 terminal strips	
TERMINAL BLOCK T140	2,5mm ²	250V	95,5x15,5x16mm	8mm	2,6mm	TRANSPARENT	815.1361 50/800	
	4mm ²	450V	120x16,6x17,4mm	10mm	3,5mm		815.1362 50/400	
	6mm ²			815.13625 50/400				
	10mm ²			138x23,5x20,5mm			11,5mm	815.1363 25/300
	16mm ²	750V	174x30x24mm	14,5mm	4,3mm		815.1364 25/150	
	25mm ²			210x38x36mm			17,5mm	815.1365 15/60
	35mm ²			264x46x39mm			22mm	5,5mm

- Max. service temperature - continuous duty: 140°C.
- Self-extinguishing material in compliance with IEC 60695-2-1 standard 850°C.
- Engineering plastic casing
- Nickel-plated brass terminal
- 12 poles
- Captive screws of zinc-plated steel

Connecting accessories CONNECTO Series



■ DOMINO terminal blocks - T85

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	IP	Terminal blocks without insulated base
TERMINAL BLOCK	DOMINO IP40 MBOX2 MBOX3 BLOCK4	IP00	654.0349 10/100

- Terminals: 1x (5x10mm² and 5x16mm²).
- Earth/neutral terminal blocks

ENCLOSURES ACCESSORIES

654.



Description	Colour	IP	Version	Terminal blocks for DIN rail - IP20
TERMINAL BLOCK		IP20	HORIZONTAL	654.0359 1/10
			VERTICAL	654.0358 1/10

- Terminals: 1x (5x10mm² and 5x16mm²).
- Phase R-S-T and earth/neutral terminal blocks

■ Modular terminal blocks - IP20

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	IP	x1
TERMINAL BLOCK	DOMINO IP66 4 DIN		IP20	654.0365 10
	DOMINO IP66 8 DIN			654.0363 1/10

- Insulated by a plastic cover for the connection of the flexible cables
- For earth, phase and neutral conductors

3.2



Connecting accessories CONNECTO Series

■ Modular terminal blocks - IP20

ENCLOSURES ACCESSORIES

654.



1

2

3

ACCESSORIES

Description	Suitable for	Colour	IP	x2
TERMINAL BLOCK	DOMINO IP40 8 DIN DOMINO IP66 12-24 DIN	■	IP20	654.0361 ^[1] 1/10 654.0361C ^[2] 10

- [1] There is special left for one additional terminal block
 [2] Complete terminal block, supplied with one additional terminal block art. 654.0360.
 - Insulated by a plastic cover for the connection of the flexible cables
 - For earth, phase and neutral conductors

4

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	IP	x3
TERMINAL BLOCK	DOMINO IP40 12-24 DIN DOMINO IP40 18-36-54-72 DIN DOMINO IP66 16-32-48-64 DIN	■	IP20	654.0362 ^[1] 1/10 654.0362C ^[2] 10

- [1] There is special left for two additional terminal blocks
 [2] Complete terminal block, supplied with two additional terminal blocks art. 654.0360.
 - Insulated by a plastic cover for the connection of the flexible cables
 - For earth, phase and neutral conductors

Connecting accessories

CONNECTO Series



Modular terminal blocks - IP20

ENCLOSURES ACCESSORIES

654.



Description	Suitable for	Colour	IP	x4	
TERMINAL BLOCK	DOMINO IP40 18-36-54-72 DIN		IP20	654.0364 ^[1]	1/10
				654.0364C ^[2]	10

[1] There is special left for three additional terminal blocks.

[2] Complete terminal block, supplied with three additional terminal blocks Art. 654.0360.

- Insulated by a plastic cover for the connection of the flexible cables
- For earth, phase and neutral conductors

ENCLOSURES ACCESSORIES

654.



Description	Notes	Colour	IP	Additional	
TERMINAL BLOCK	EXTRA		IP20	654.0360	1/10

- Insulated by a plastic cover for the connection of the flexible cables
- For earth, phase and neutral conductors

3.2



3.3

Conduit

- **FIXER Series**
Conduit FIXING accessories
- **TUBE Series**
COUPLING Accessories
- **SMART Series**
IP66/67





Conduit FIXER Series

■ Made of self-extinguishing thermoplastic material >> Clips

FIXER Series

860.



ACCESSORIES

Description	Colour	Ø	Snap clip
SNAP CLIPS	■	Ø16mm	860.1316/G 100/1000
		Ø20mm	860.1320/G 100/1000
		Ø25mm	860.1325/G 100/800
		Ø32mm	860.1332/G 100/800
		Ø40mm	860.1340/G 50/400
		Ø50mm	860.1350/G 25/250

FIXER Series

860.



Description	Colour	Ø	Collar clip
COLLAR CLIPS	■	Ø16mm	860.1516 100/1000
		Ø20mm	860.1520 100/1000
		Ø25mm	860.1525 100/800
		Ø32mm	860.1532 50/500
		Ø40mm	860.1540 50/400
		Ø50mm	860.1550 25/250

Conduit FIXER Series



■ Made of self-extinguishing thermoplastic material >> Clips

FIXER Series

860.



Description	Colour	Ø	Snap clip with plug and screw	
SNAP CLIPS W/PLUG & SCREW		Ø16mm	860.2016	100/1000
		Ø20mm	860.2020	100/1000
		Ø25mm	860.2025	100/800
		Ø32mm	860.2032	50/400

- Screws made of zinc-plated steel.

FIXER Series

860.



Description	Colour	Ø	Ties	
COLLAR CLIPS		Ø13-32mm	860.1616	100/1000
		Ø40-63mm	860.1640	100/500

FIXER Series

860.



Description	Colour	Ø	Pressure clips	
PRESSURE CLIPS		Ø16-20mm	860.01620	100/1200
		Ø25-32mm	860.02532	50/600
		Ø40-50mm	860.04050	40/320

3.3



Conduit FIXER Series

■ Made of zinc-bichromate steel

FIXER Series

820.

ACCESSORIES

1

2

3

4



Spacer bracket
With M6 threaded base

Half-saddle - Standard
type

Half-saddle - Heavy Duty
type

Saddle

Ø	COLLAR		CLIP		SADDLE	
	Part No.	QTY	Part No.	QTY	Part No.	QTY
Ø10-11mm	820.610	100/1000	820.710	200/1000	820.710/P	100/1000
Ø12-13mm	820.612	100/1000	820.712	200/1000	820.712/P	100/1000
Ø14-15mm	820.614	100/1000	820.714	200/1000	820.714/P	100/1000
Ø16-17mm	820.616	100/1000	820.716	100/1000	820.716/P	100/1000
Ø19-20mm	820.620	100/1000	820.720	100/1000	820.720/P	100/1000
Ø21-22mm	820.622	100/1000	820.722	100/1000	820.722/P	100/1000
Ø25-26mm	820.625	100/1000	820.725	100/1000	820.725/P	100/1000
Ø28-29mm	820.628	100/1000				820.828
Ø31-32mm	820.632	100/1000			820.732/P	100/1000
Ø38-40mm	820.640	100/1000			820.740/P	100/500
Ø48-50mm	820.650	50/400			820.750/P	50/500

- Electrolytic zinc coating, followed by passivation and yellow colouring.
- Made of zinc-plated steel.

Conduit TUBE Series



■ IP40 >> Inspection

TUBE Series

860.



Inspection elbow

Flat tee inspection

IP	Colour	Ø	INSPECTION ELBOW		FLAT TEE INSPECTION	
			Part No.	Length	Part No.	Length
IP40	Grey	Ø16mm	860.1116/G	50/800	860.1216/G	50/800
		Ø20mm	860.1120/G	50/600	860.1220/G	50/400
		Ø25mm	860.1125/G	50/400	860.1225/G	25/300
		Ø32mm	860.1132/G	25/200	860.1232/G	20/160

■ IP40 >> Monobloc

TUBE Series

862.



Conduit coupling

Conduit coupling

Bend with two couplings

IP	Colour	Ø	CONDUIT COUPLING		BEND WITH TWO COUPLINGS	
			Part No.	Length	Part No.	Length
IP40	Grey	Ø16mm	862.1016/G	100/1200	862.916/G	50/800
		Ø20mm	862.1020/G	100/800	862.920/G	50/400
		Ø25mm	862.1025/G	50/600	862.925/G	25/200
		Ø32mm	862.1032/G	25/300	862.932/G	25/150
		Ø40mm	862.1040/G	20/160	862.940/G	15/60
		Ø50mm	862.1050/G	20/120	862.950/G	10/40
IP40	Transparent	Ø16mm	862.1916	100/2000		
		Ø20mm	862.1920	100/1200		
		Ø25mm	862.1925	50/700		
		Ø32mm	862.1932	25/400		
		Ø40mm	862.1940	300		
		Ø50mm	862.1950	150		

3.3



Conduit TUBE Series

■ IP65 >> Bends

TUBE Series

864.



Flexible bend

Bend with two couplings

Conduit coupling

IP	Colour	Ø	FLEXIBLE BEND		BEND WITH TWO COUPLINGS		CONDUIT COUPLING	
			Part No.	Length	Part No.	Length	Part No.	Length
IP65	■	Ø16mm	864.2016	50	864.216	50/600	864.316	50/800
		Ø20mm	864.2020	50	864.220	50/400	864.320	50/600
		Ø25mm	864.2025	50	864.225	25/200	864.325	50/400
		Ø32mm	864.2032	25	864.232	25/100	864.332	25/200
		Ø40mm	864.2040	25	864.240	15/60	864.340	20/160
		Ø50mm	864.2050	15	864.250	10/40	864.350	10/80

- The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
- Made of rigid, insulated, self-extinguishing and impact-resistant thermoplastic material.

■ IP65 >> Conduit to box couplings

TUBE Series

864.



Conduit to box couplings

Flexible coupling for
connection rigid tube

IP	Colour	Cable outlet	Ø	CONDUIT COUPLING		FLEXIBLE BEND	
				Part No.	Length	Part No.	Length
IP65	■	M16X1,5	Ø16mm	864.516	50/800	864.9016	50
		M20X1,5	Ø20mm	864.520	50/600	864.9020	50
		M25X1,5	Ø25mm	864.525	50/400	864.9025	50
		M32X1,5	Ø32mm	864.532	25/300	864.9032	25
		M40X1,5	Ø40mm	864.540	25/200	864.9040	25
		M50X1,5	Ø50mm	864.550	15/120	864.9050	15

- The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.
- Supplied complete with threaded lock nut and relative seal.

1
2
3

ACCESSORIES

4

Conduit

TUBE Series



■ IP65 >> Conduit to sheath couplings

TUBE Series

864.



Conduit to sheath couplings (flex)

Conduit to sheath couplings

IP	Colour	Cable outlet	Ø	CONDUIT COUPLING			
				Conduit to sheath couplings (flex)		Conduit to sheath couplings	
IP65	■	M12X1,5	Ø16mm	864.7016	50/800	864.716	50/800
		M16X1,5		864.8016	50/600	864.816	50/600
		M20X1,5	Ø20mm	864.7020	50/600	864.720	50/600
			864.8020	50/400	864.820	50/400	
		M25X1,5	Ø25mm	864.7025	50/400	864.725	50/400
			864.8025	25/200	864.825	25/200	
		M32X1,5	Ø32mm	864.7032	25/200	864.732	25/200
			864.8032	20/160	864.832	20/160	
		M40X1,5	Ø40mm	864.7040	20/160	864.740	20/160
			864.8040	15/120	864.840	15/120	
M50X1,5	Ø50mm	864.7050	15/120	864.750	15/120		
	864.8050	10/80	864.850	10/80			

- The internal seal ensures IP65 protection even in the case of dilation due to temperature changes.

3.3



Conduit TUBE Series

■ IP65 >> Sheath to box couplings

TUBE Series

864.



Sheath to box couplings
(with bush)

Sheath to box couplings

IP	Colour	Cable outlet	Ø	CONDUIT COUPLING			
				Part Number	Length		
IP65	■	M16X1,5	Ø10mm		864.651	50/1200	
			Ø12mm	864.0653	50/1200	864.653	50/1200
		M20X1,5	Ø16mm	864.0655	50/800	864.655	50/800
		M25X1,5	Ø20mm	864.0657	50/400	864.657	50/400
		M32X1,5	Ø25mm	864.0659	25/300	864.659	25/300
		M40X1,5	Ø32mm	864.0661	25/200	864.661	25/200
		M50X1,5	Ø40mm	864.0663	15/120	864.663	15/120
		M63X1,5	Ø50mm	864.0665	10/80	864.665	10/80
		PG 11	Ø12mm	864.0601	50/1200	864.601	50/1200
				864.0603	50/1200	864.603	50/1200
		PG 13,5		864.0605	50/800	864.605	50/800
				864.0606	50/800	864.606	50/800
		PG 16	Ø16mm	864.0606	50/800	864.606	50/800
		PG 21	Ø20mm	864.0607	50/400	864.607	50/400
		PG 29	Ø25mm	864.0609	25/300	864.609	25/300
		PG 36	Ø32mm	864.0611	20/160	864.611	25/200

- Supplied complete with threaded lock nut and relative seal.



TUBE Series
Flexible joints for rigid-box tube connections

Conduit SMART Series



■ IP66/67

SMART Series

866.



Bend with two couplings

Conduit coupling

Conduit to box couplings

Conduit to sheath couplings

BEND WITH TWO COUPLINGS

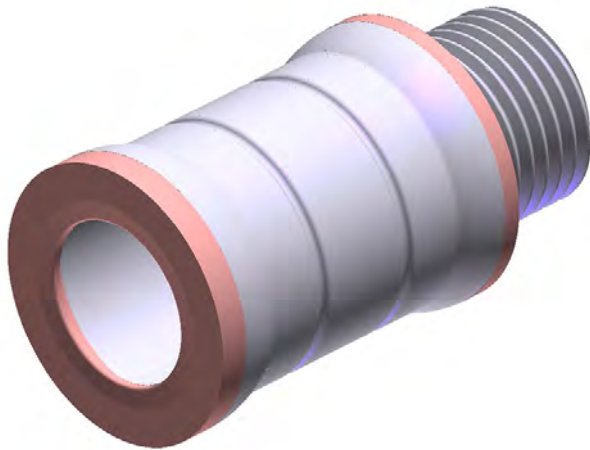
JOINT COVER

CONDUIT COUPLING

IP66/IP67

IP66

Ø	BEND WITH TWO COUPLINGS		JOINT COVER IP66/IP67		CONDUIT COUPLING		CONDUIT COUPLING IP66	
Ø16mm	866.216	10/200	866.316	10/200	866.516	10/240	866.816	10/240
Ø20mm	866.220	10/200	866.320	10/200	866.520	10/240	866.820	10/240
Ø25mm	866.225	10/160	866.325	10/160	866.525	10/200	866.825	10/200
Ø32mm	866.232	10/100	866.332	10/100	866.532	10/100	866.832	10/100
Ø40mm	866.240	5/50	866.340	5/50	866.540	5/60	866.840	5/60
Ø50mm	866.250	5/30	866.350	5/30	866.550	5/40	866.850	5/40



Co-injection moulded gasket

The use of a co-injection moulding system makes it possible to turn the technopolymer gasket into an extension of the piece and disguise it as part of the pipe. It also provides a greater degree of sealing efficiency and makes it easier to insert pipe fittings without squashing or deforming the gasket.

3.3

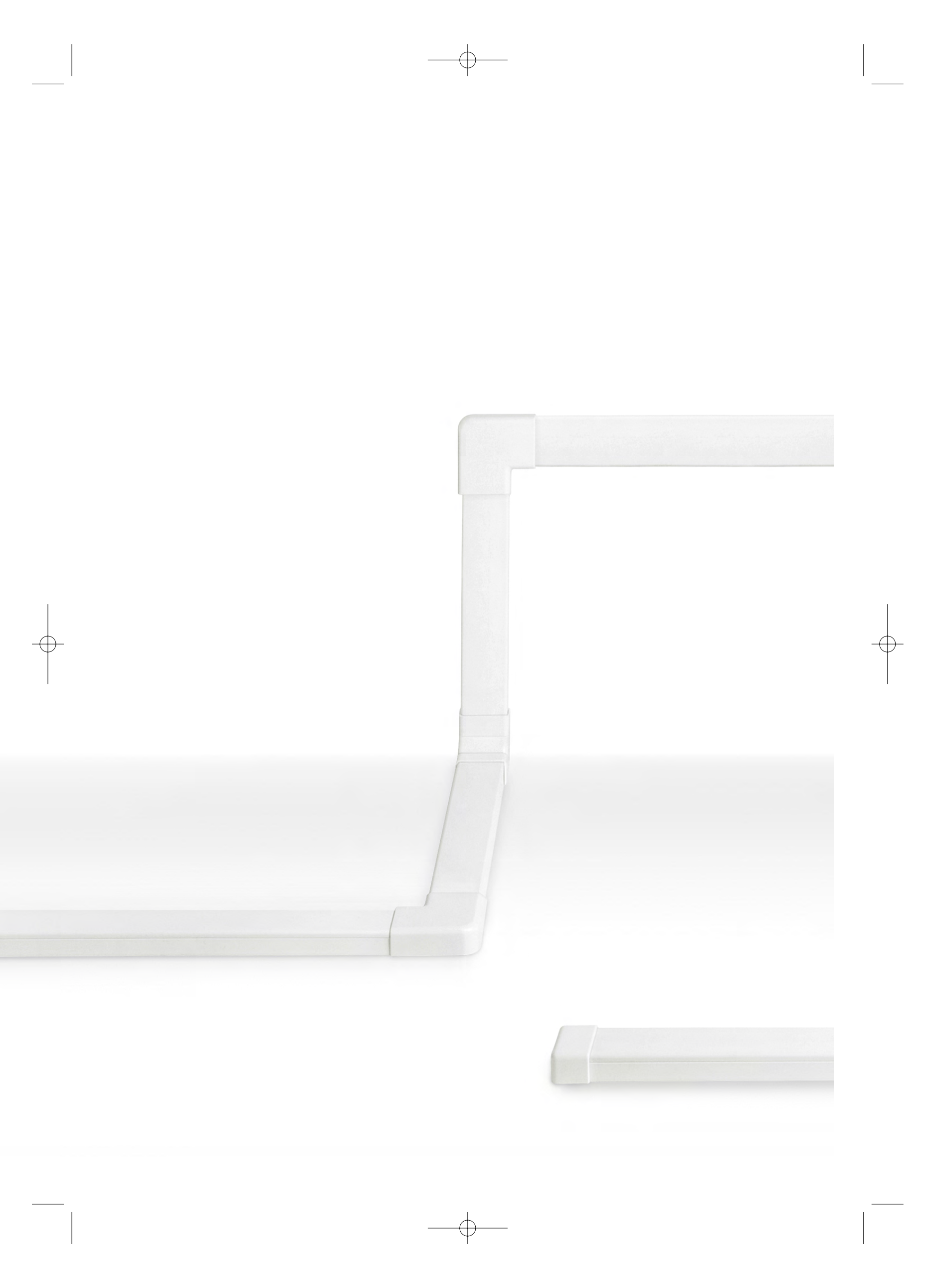


3.4

Trunking systems

- WADO Series - Mini-trunking
- WADO Series - Skirting trunking
- WADO Series - Cable and set housing trunking
- WADO Series - Slotted cable trunking
- WADO Series - Trunking for air conditioning systems





Trunking systems

WADO Series - Mini-trunking


■ Adhesive mini-trunking

WADO Series - Mini Trunking

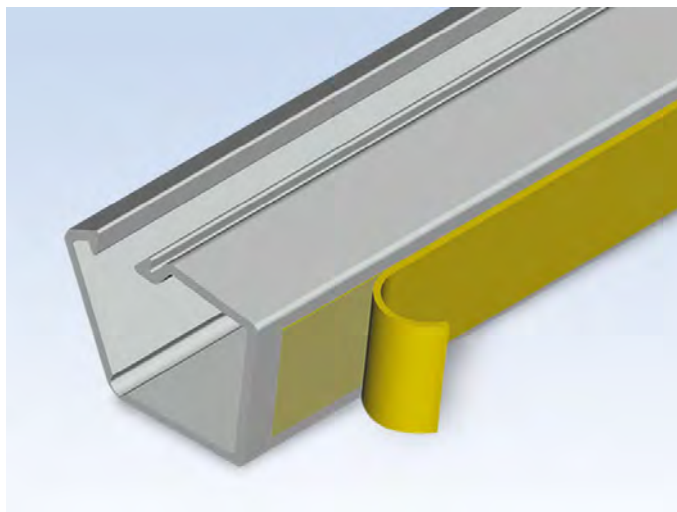
876.



ACCESSORIES

Colour	Dimension	N° compt.	<input type="checkbox"/> Equipped with hinged coverage (1 meter)
	12x12mm	1	<input type="checkbox"/> 876.1212AD 90
	12x7mm		<input type="checkbox"/> 876.1207AD 160
	16x12mm		<input type="checkbox"/> 876.1612AD 70

- Mounting: wall or ceiling
- Can be removed without any tool.
- Standard bar length: 2m.



The mini-trunking base is equipped with a strip of bi-adhesive tape allowing sticking to even and clean surfaces.



LID
Hinged coverage



LID
Enveloping lid



LID
Standard lid

Trunking systems

WADO Series - Mini-trunking







■ Mini-trunking

WADO Series - Mini Trunking

876.



Colour	Dimension	N° compt.	 Standard lid (1 meter)	 Enveloping lid (1 meter)
	20x10mm	1	876.2010 80	
	20x15mm		876.2015 50	876.2015AV 50
	30x15mm		876.3015 60	876.3015AV 60
	40x10mm	2	876.4010 72	
	40x15mm		876.4015 48	876.4015AV 48
	40x20mm	1	876.4021 36	
	40x20mm	2	876.4020 36	876.4020AV 36
	60x20mm	3	876.6020 32	876.6020AV 32
	20x10mm	1	876.2010G 80	
	20x15mm		876.2015G 50	
	30x15mm		876.3015G 60	
	40x10mm	2	876.4010G 72	
	40x15mm		876.4015G 48	
	40x20mm	1	876.4021G 36	
	40x20mm	2	876.4020G 36	
	60x20mm	3	876.6020G 32	

- Standard bar length: 2m.

3.4



Trunking systems

WADO Series - Mini-trunking

■ Accessories >> Angles

WADO Series - Mini Trunking

876.



ACCESSORIES

Colour	Dimension	N° compt.	External angle		Internal angle		Flat angle		
■	20x10mm	1	876.AE2010	30	876.AI2010	30	876.AP2010	30	
	20x15mm		876.AE2015	30	876.AI2015	30	876.AP2015	30	
	30x15mm		876.AE3015	30	876.AI3015	30	876.AP3015	30	
	40x10mm	2	876.AE4010	30	876.AI4010	30	876.AP4010	30	
	40x15mm		876.AE4015	30	876.AI4015	30	876.AP4015	30	
	40x20mm		876.AE4020	30	876.AI4020	30	876.AP4020	30	
	60x20mm	3	876.AE6020	30	876.AI6020	30	876.AP6020	30	
	■	20x10mm	1	876.AE2010G	30	876.AI2010G	30	876.AP2010G	30
		20x15mm		876.AE2015G	30	876.AI2015G	30	876.AP2015G	30
30x15mm		876.AE3015G		30	876.AI3015G	30	876.AP3015G	30	
40x10mm		2	876.AE4010G	30	876.AI4010G	30	876.AP4010G	30	
40x15mm			876.AE4015G	30	876.AI4015G	30	876.AP4015G	30	
40x20mm			876.AE4020G	30	876.AI4020G	30	876.AP4020G	30	
60x20mm		3	876.AE6020G	30	876.AI6020G	30	876.AP6020G	30	

Trunking systems

WADO Series - Mini-trunking



■ Accessories >> Adaptor

WADO Series - Mini Trunking

876.



Colour	Dimension	N° compt.	Side adaptor		End adaptor		
□	20x10mm	1	876.AL2010	30	876.AT2010	30	
	20x15mm		876.AL2015	30	876.AT2015	30	
	30x15mm		876.AL3015	30	876.AT3015	30	
	40x10mm	2	876.AL4010	6/30	876.AT4010	30	
	40x15mm	1	876.AL4015	6/30	876.AT4015	30	
		2					
	40x20mm	1	876.AL4020	6/30	876.AT4020	30	
		2					
	60x20mm	1	876.AL6020	6/30	876.AT6020	30	
		3					
	■	20x10mm	1	876.AL2010G	30	876.AT2010G	30
		20x15mm		876.AL2015G	30	876.AT2015G	30
30x15mm		876.AL3015G		30	876.AT3015G	30	
40x10mm		2	876.AL4010G	6/30	876.AT4010G	30	
40x15mm		1	876.AL4015G	6/30	876.AT4015G	30	
		2					
40x20mm		1	876.AL4020G	6/30	876.AT4020G	30	
		2					
60x20mm		1	876.AL6020G	6/30	876.AT6020G	30	
		3					

3.4



Trunking systems

WADO Series - Mini-trunking

Accessories >> Joints

WADO Series - Mini Trunking

876.



Colour	Dimension	N° compt.	Flat tee	Cover joint	End cap	
White	20x10mm	1	876.GT2010 30	876.GU2010 30	876.TT2010 30	
	20x15mm		876.GT2015 30	876.GU2015 30	876.TT2015 30	
	30x15mm		876.GT3015 30	876.GU3015 30	876.TT3015 30	
	40x10mm	2	876.GT4010 30	876.GU4010 30	876.TT4010 30	
	40x15mm		876.GT4015 30	876.GU4015 30	876.TT4015 30	
	40x20mm		876.GT4020 30	876.GU4020 30	876.TT4020 30	
	60x20mm	3	876.GT6020 30	876.GU6020 30	876.TT6020 30	
	Grey	20x10mm	1	876.GT2010G 30	876.GU2010G 30	876.TT2010G 30
		20x15mm		876.GT2015G 30	876.GU2015G 30	876.TT2015G 30
30x15mm		876.GT3015G 30		876.GU3015G 30	876.TT3015G 30	
40x10mm		2	876.GT4010G 30	876.GU4010G 30	876.TT4010G 30	
40x15mm			876.GT4015G 30	876.GU4015G 30	876.TT4015G 30	
40x20mm			876.GT4020G 30	876.GU4020G 30	876.TT4020G 30	
60x20mm		3	876.GT6020G 30	876.GU6020G 30	876.TT6020G 30	

Accessories >> Others

WADO Series - Mini Trunking

876.



Colour	Dimension	N° compt.	Ø	Connection Ø16mm	Cable retainer
White	20x10mm	1	Ø16mm	876.RT2010 30	876.TF20 30
	20x15mm			876.RT2015 30	
Blue	30x15mm	2	Ø16mm		876.TF30 30
	40x15mm				876.TF40 30
	60x20mm				876.TF60 30
Grey	20x10mm	1	Ø16mm	876.RT2010G 30	
	20x15mm			876.RT2015G 30	

Trunking systems

WADO Series - Mini-trunking

SCAME

Boxes

WADO Series - Mini Trunking

876.



Colour	Dimension	Wheel-base	Box for wiring accessories	
□	100x100x35mm	55mm	876.PA5530 ^[1]	10
	100x100x43mm	60mm	876.PA6040 ^[2]	10
	100x100x53mm		876.PA6050 ^[2]	10
	142x100x43mm	83,5mm	876.PA8040 ^[3]	10
	142x100x53mm		876.PA8050 ^[3]	10
■	100x100x35mm	55mm	876.PA5530G ^[1]	10
	100x100x43mm	60mm	876.PA6040G ^[2]	10
	100x100x53mm		876.PA6050G ^[2]	10
	142x100x43mm	83,5mm	876.PA8040G ^[3]	10
	142x100x53mm		876.PA8050G ^[3]	10

[1] Suitable for OTEO Series inserts by LEGRAND®.

[2] They consist of a base and a lid and can accommodate switch-and-plug frames whose distance between centers is 60mm.

[3] They consist of a base and a lid and can accommodate switch-and-plug frames whose distance between centers is 83.5mm.

- They can be mounted on all WADO series Scame mini-trunking.
- When combined to the proper end adaptor (AT) or side adaptor (AL), they allow for quick installation and complete the connection to the mini-trunking; the outcome is an elegant and attractive look, free from any imperfections.

WADO Series - Mini Trunking

876.



Colour	Wheel-base	Junction box kit	
□	60mm	876.PK60	10
	83,5mm	876.PK80	10
■	60mm	876.PK60G	10
	83,5mm	876.PK80G	10

- The kit includes a cover and a circuit separation accessory.
- When combined to the back box, it allows to obtain a spacious junction box.
- Snap-on fixing

3.4



Trunking systems



WADO Series - Mini-trunking

Boxes

WADO Series - Mini Trunking

876.



Colour	Dimension	Junction box	
	67x67mm	876.SA70	10
		876.SA70G	10

- Compact box of reduced size, equipped with circuit separation accessory.
- Ideal to shunt micro raceways up to 40x20mm, it has the same characteristics of PK60 and PK80 boxes.
- Steel screw class 4.8 and yellow passivated zinc-plating $\geq 5\mu$.

WADO Series - Mini Trunking

876.



Colour	Ø	Fixing plugs	
	Ø4mm	876.PK04	100/1000

- Countersunk collar.
- Quick application, with only a few hammer blows.
- Hole passing through the object to be anchored.
- Polyamide body equipped with a special pre-assembled, cross-slotted nail type screw.
- Steel screw class 4.8 and yellow passivated zinc-plating $\geq 5\mu$.

ACCESSORIES

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Trunking systems

WADO Series - Skirting trunking



■ Skirting trunking >> Skirting trunking

WADO Series - SkirtingTrunking

879.



Colour	Dimension	N° compt.	80mm (1 meter)	120mm (1 meter)
	80mm	3	879.0080 20	
	120mm	5		879.0120 20
	80mm	3	879.0080M 20	
	120mm	5		879.0120M 20
	80mm	3	879.0080A 20	
	120mm	5		879.0120A 20

- Standard bar length: 2m.

■ Skirting trunking

WADO Series - SkirtingTrunking

879.



Colour	Dimension	Floor trunking (1 meter)
	70mm	879.0007 20
		879.0007G 20
		879.0007M 20
		879.0007A 20

- Resistant to aging.
- Type of installation: on the floor.
- Removable with tool.
- Voltage rating: 1000 V~.
- Shock resistance: 2J.
- Standard bar length: 2m.
- Made of rigid, insulated, self-extinguishing and impact-resistant thermoplastic material.

3.4



Trunking systems

WADO Series - Skirting trunking

Accessories >> Angles

WADO Series - SkirtingTrunking

879.



Colour	Dimension	N° compt.	Variable external angle	Variable internal angle	Flat angle	Variable flat angle
White	80mm	3	879.AE0080	879.AI0080	879.AP0080	
	120mm	5	879.AE0120	879.AI0120		879.AV0120
Brown	80mm	3	879.AE0080M	879.AI0080M	879.AP0080M	
	120mm	5	879.AE0120M	879.AI0120M		879.AV0120M
Grey	80mm	3	879.AE0080A	879.AI0080A	879.AP0080A	
	120mm	5	879.AE0120A	879.AI0120A		879.AV0120A

Accessories >> Joints

WADO Series - SkirtingTrunking

879.



Colour	Dimension	N° compt.	Flat tee for mini-trunking	Flat tee for floor trunking	Flat tee	Joint cover
White	80mm	3	879.GM0080	879.GS0080	879.GT0080	879.GU0080
	120mm	5	879.GM0120	879.GS0120	879.GT0120	879.GU0120
Brown	80mm	3	879.GM0080M	879.GS0080M	879.GT0080M	879.GU0080M
	120mm	5	879.GM0120M	879.GS0120M	879.GT0120M	879.GU0120M
Grey	80mm	3	879.GM0080A	879.GS0080A	879.GT0080A	879.GU0080A
	120mm	5	879.GM0120A	879.GS0120A	879.GT0120A	879.GU0120A


Trunking systems

WADO Series - Skirting trunking

SCAME

■ Accessories >> Closing cap


WADO Series - SkirtingTrunking
879.



Colour	Dimension	N° compt.	Blind closing cap	Closing cap - With output for 80 skirting trunking	Closing cap - With output for mini-trunking
White	80mm	3	879.CC0080 10	879.CC0121 10	879.CC0122 10
	120mm	5	879.CC0120 10		
Brown	80mm	3	879.CC0080M 10	879.CC0121M 10	879.CC0122M 10
	120mm	5	879.CC0120M 10		
Grey	80mm	3	879.CC0080A 10	879.CC0121A 10	879.CC0122A 10
	120mm	5	879.CC0120A 10		

■ Accessories >> Terminal

WADO Series - SkirtingTrunking
879.



Colour	Dimension	N° compt.	Through-wall terminal	End cap
White	80mm	3	879.TM0080 5	879.TT0080 10
	120mm	5	879.TM0120 5	879.TT0120 10
Brown	80mm	3	879.TM0080M 5	879.TT0080M 10
	120mm	5	879.TM0120M 5	879.TT0120M 10
Grey	80mm	3	879.TM0080A 5	879.TT0080A 10
	120mm	5	879.TM0120A 5	879.TT0120A 10

3.4



Trunking systems

WADO Series - Skirting trunking

Accessories

- 1
- 2
- 3

ACCESSORIES

WADO Series - SkirtingTrunking

879.



Colour	Dimension	N° compt.	Fittings for phone jack	
	80mm	3	879.TE80	5
			879.TE80M	5
			879.TE80A	5

- For 3-module boxes

- 4

WADO Series - SkirtingTrunking

879.



Colour	Cable retainer
	879.TF80 30

WADO Series - SkirtingTrunking

879.



Colour	Dimension	Section cover (1 meter)
	80-120mm	879.CP80 20/200

- Standard bar length: 2m.

Trunking systems

WADO Series - Skirting trunking



■ Box for wiring accessories

WADO Series - SkirtingTrunking

879.



Colour	Dimension	Wheel-base	Horizontal - 2 modules 60-mm centres distance	
	80mm (h53mm)	60mm	879.PA6050	5
	120mm (h53mm)		879.PA6051	5
	80mm (h53mm)		879.PA6050M	5
	120mm (h53mm)		879.PA6051M	5
	80mm (h53mm)		879.PA6050A	5
	120mm (h53mm)		879.PA6051A	5

■ Accessories

WADO Series - SkirtingTrunking

879.



Colour	Flat tee for floor trunking	
	879.GT0007	10
	879.GT0007G	10
	879.GT0007M	10
	879.GT0007A	10

3.4



Trunking systems

WADO Series - Skirting trunking

Box for wiring accessories

WADO Series - SkirtingTrunking

879.



Horizontal - 3 modules
83.5-mm centres
distance

Colour	Dimension	Wheel-base	Horizontal - 3 modules 83.5-mm centres distance	
White	80mm (h43mm)	83,5mm	879.PA8040	5
	80mm (h53mm)		879.PA8050	5
	120mm (h53mm)		879.PA8051	5
Brown	80mm (h43mm)		879.PA8040M	5
	80mm (h53mm)		879.PA8050M	5
	120mm (h53mm)		879.PA8051M	5
Black	80mm (h43mm)		879.PA8040A	5
	80mm (h53mm)		879.PA8050A	5
	120mm (h53mm)		879.PA8051A	5

WADO Series - SkirtingTrunking

879.



Horizontal - 4 modules
108.5-mm centres
distance

Colour	Dimension	Wheel-base	Horizontal - 4 modules 108.5-mm centres distance	
White	80mm (h53mm)	108,5mm	879.PA8450	5
	120mm (h53mm)		879.PA8451	5
Brown	80mm (h53mm)		879.PA8450M	5
	120mm (h53mm)		879.PA8451M	5
Black	80mm (h53mm)		879.PA8450A	5
	120mm (h53mm)		879.PA8451A	5

1

2

3

ACCESSORIES

4

Trunking systems

WADO Series - Skirting trunking



■ Box for wiring accessories

WADO Series - SkirtingTrunking

879.



Colour	Dimension	Wheel-base	Horizontal - 6 modules 120-mm centres distance	
□	80mm (h53mm)	120mm	879.PA9050	5
	120mm (h53mm)		879.PA9051	5
■	80mm (h53mm)		879.PA9050M	5
	120mm (h53mm)		879.PA9051M	5
■	80mm (h53mm)		879.PA9050A	5
	120mm (h53mm)		879.PA9051A	5

WADO Series - SkirtingTrunking

879.



Colour	Dimension	Wheel-base	Vertical - 3 modules 83.5-mm centres distance	
□	80mm (h43mm)	83,5mm	879.PB8040	5
	80mm (h53mm)		879.PB8050	5
■	80mm (h43mm)		879.PB8040M	5
	80mm (h53mm)		879.PB8050M	5
■	80mm (h43mm)		879.PB8040A	5
	80mm (h53mm)		879.PB8050A	5

3.4



Trunking systems

WADO Series - Skirting trunking







Box for wiring accessories

WADO Series - SkirtingTrunking

879.



ACCESSORIES

Colour	Wheel-base	Blank cover	
	60mm	879.PD60	5/30
	83,5mm	879.PD80	5/30
	60mm	879.PD60M	5/30
	83,5mm	879.PD80M	5/30
	60mm	879.PD60A	5/30
	83,5mm	879.PD80A	5/30

- When combined to the back box, it allows to obtain a spacious junction box.
- Snap-on fixing

WADO Series - Mini Trunking

876.



Colour	Ø	Fixing device	
	ø5mm	876.PK05	100/1000
	ø6mm	876.PK06	100/1000

- Countersunk collar.
- Quick application, with only a few hammer blows.
- Hole passing through the object to be anchored.
- Polyamide body equipped with a special pre-assembled, cross-slotted nail type screw.
- Steel screw class 4.8 and yellow passivated zinc-plating $\geq 5\mu$.

Trunking systems

WADO Series - Cable and set housing trunking



■ Cable and set housing trunking

WADO Series - Cable Trunking

872.



Colour	Dimension	N° compt.	Cable trunking (1 meter)	Cable and set housing trunking (1 meter)
	40x40mm	1	872.04040 ^[1] 60	
	60x40mm		872.06040 ^[1] 40	
	60x60mm		872.06060 ^[1] 32	
	80x60mm	3	872.08060 ^[1] 24	
	100x60mm			872.10060 ^[2] 18
	100x80mm		872.10080 ^[1] 16	
	150x60mm	5		872.15060 ^[2] 12
	150x80mm			872.15080 ^[2] 8
	200x80mm	7		872.20080 ^[2] 8

[1] This separator can be installed by means of a specific fastener for fixing components to the bottom (TE).

[2] Each bar is provided with cable fixing ties.

- Standard bar length: 2m.

■ Angles

WADO Series - Cable Trunking

872.



External angle

Internal angle

Flat angle

Dimension	N° compt.	External angle	Internal angle	Flat angle
40x40mm	1	872.AE04040 10/60	872.AI04040 10/60	872.AP04040 10/120
60x40mm		872.AE06040 10/40	872.AI06040 10/60	872.AP06040 10/60
60x60mm		872.AE06060 10/40	872.AI06060 10/40	872.AP06060 10/40
80x60mm	3	872.AE08060 10/30	872.AI08060 10/30	872.AP08060 10/20
100x60mm		872.AE10060 8/16	872.AI10060 10/30	872.AP10060 1/20
100x80mm		872.AE10080 8/16	872.AI10080 10/20	872.AP10080 10/20
150x60mm	5	872.AE15060 1/6	872.AI15060 1/8	872.AP15060 1/12
150x80mm		872.AE15080 1/6	872.AI15080 1/6	872.AP15080 1/9
200x80mm	7	872.AE20080 1/4	872.AI20080 1/4	872.AP20080 1/6

3.4



Trunking systems

WADO Series - Cable and set housing trunking

Accessories

WADO Series - Cable Trunking

872.



Joint cover



End cap

Dimension	N° compt.		
40x40mm	1		872.TT04040 20
60x40mm			872.TT06040 20
60x60mm	3		872.TT06060 20
80x60mm			872.TT08060 20
100mm		872.GU100 20	
100x60mm			872.TT10060 20
100x80mm	3		872.TT10080 20
150mm		872.GU150 20	
150x60mm			872.TT15060 20
150x80mm	5		872.TT15080 20
200mm		872.GU200 20	
200x80mm	7		872.TT20080 20
40mm		872.GU040 20	
60mm		872.GU060 20	
80mm		872.GU080 20	

Joints

WADO Series - Cable Trunking

872.



Linear joint



Flat joint



Flat tee



Variable joint

Dimension				
40mm		872.GP40 20	872.GT40 20	
60mm		872.GP60 20	872.GT60 10	
80mm		872.GP80 20	872.GT80 10	
	872.GL02 10			872.GV02 ¹ 10

¹ To be installed on the trunking sides.

Trunking systems

WADO Series - Cable and set housing trunking



Switch holder and plate >> Flat connector block

WADO Series - Cable Trunking

872.



Flat connector block

Modular switches unit

Dimension	Modularity		
40mm		872.SA40	1/10
60mm		872.SA60	1/4
	4 DIN		872.SC01 1/9
	10 DIN		872.SC02 1/10

Switch holder and plate >> Switch holder 60mm

WADO Series - Cable Trunking

872.



Switch holder 60mm

Switch holder 60mm

Switch holder 60mm

Dimension	Wheel-base		
80mm			872.PB080 20
100mm			872.PB100 15
150mm	60mm		872.PB150 15
200mm			872.PB200 10
		872.PB02 ¹	1/30
		872.PB04 ¹	1/20

¹ Note: for 80x60 and 100x80 versions, use the specific bottom fixing accessory.

3.4

Trunking systems

WADO Series - Cable and set housing trunking

■ Switch holder and plate >> Switch holder 83.5mm

WADO Series - Cable Trunking

872.



Switch holder 83,5mm

Switch holder 83,5mm

Dimension	Wheel-base		
80mm	83,5mm		872.PA080 20
100mm			872.PA100 15
150mm			872.PA150 15
200mm			872.PA200 10
		872.PA02 ^[1] 1/20	

[1] Note: for 80x60 and 100x80 versions, use the specific bottom fixing accessory.

■ Switch holder and plate >> IEC socket holder

WADO Series - Cable Trunking

872.



IEC socket holder

IEC socket holder

6 DIN modular switch plate

Dimension			
80mm		872.PC080 20	
100mm		872.PC100 15	
150mm		872.PC150 15	872.PD150 10
200mm		872.PC200 10	872.PD200 10
	872.PC02 1/30		

ACCESSORIES

1

2

3

4

Trunking systems

WADO Series - Cable and set housing trunking



■ Supports and ties

WADO Series - Cable Trunking

872.



Apparatus support



Home installation support tie



Collar cable fastener



Cable fastening tie

Dimension					
100mm		872.TB100	20	872.TF100	20
100x60mm				872.TC10060	10/120
100x80mm				872.TC10080	10/120
150mm		872.TB150	20	872.TF150	20
200mm				872.TF200	20
60-80mm	872.TA02		1/10		

■ Complements

WADO Series - Cable Trunking

872.



Separator (1 meter)



Wall shelf



Fasteners for fixing components to the base

Dimension					
40÷100mm		872.MP01	20/80	872.TE100	20
100mm					
150÷200mm		872.MP02	1/20		
40mm	872.CS40 ^[1]		100	872.TE060	20
60mm	872.CS60 ^[1]		72	872.TE080	20
80mm					

[1] Standard bar length: 2m.

3.4



Trunking systems


WADO Series - Slotted cable trunking

WADO Series - Slotted Cable

874.



 Short pitch [4/6/4]
(1 meter)

 Standard pitch [8/
12/8 - 6/8/6] (1
meter)

Dimension	N° compt.	Quarry height	Short pitch [4/6/4] (1 meter)		Standard pitch [8/12/8 - 6/8/6] (1 meter)	
80x60mm	1	50mm	874.R8060	24	874.8060	24
100x40mm		30mm	874.R0040	24	874.0040	24
100x60mm		50mm	874.R0060	20	874.0060	20
100x80mm		68mm	874.R0080	16	874.0080	16
120x40mm		30mm	874.R0240	20	874.0240	20
120x60mm		50mm	874.R0260	14	874.0260	14
120x80mm		68mm	874.R0280	12	874.0280	12
25x30mm		23,5mm	874.R2530	58	874.2530 ^[1]	58
25x40mm		30mm	874.R2540	48	874.2540	48
25x60mm		50mm	874.R2560	34	874.2560	34
25x80mm		68mm	874.R2580	28	874.2580	28
40x30mm		23,5mm	874.R4030	38	874.4030 ^[1]	38
40x40mm		30mm	874.R4040	30	874.4040	30
40x60mm		50mm	874.R4060	22	874.4060	22
40x80mm		68mm	874.R4080	36	874.4080	36
60x40mm		30mm	874.R6040	40	874.6040	40
60x60mm		50mm	874.R6060	32	874.6060	32
60x80mm		68mm	874.R6080	24	874.6080	24
80x40mm		30mm	874.R8040	32	874.8040	32
80x80mm		68mm	874.R8080	16	874.8080	16

[1] For trunking h 30 pitch 6/8/6.

- Standard bar length: 2m.



PITCH
Standard pitch



PITCH
Short pitch

Trunking systems

WADO Series - Trunking for air conditioning systems



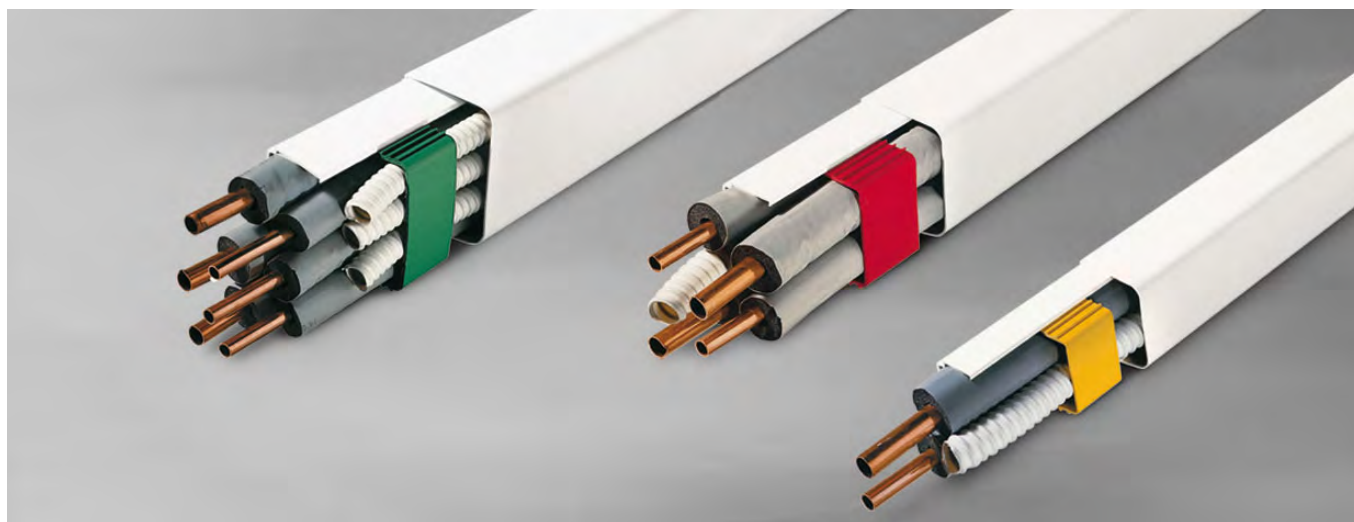
WADO Series - Conditioning

871.



Colour	Dimension	Trunking (1 meter)	
□	60x45mm	871.060	24
	80x60mm	871.080	16
	110x75mm	871.110	8

- Standard bar length: 2m.



3.4



Trunking systems


WADO Series - Trunking for air conditioning systems

■ Angles (internal-external)

WADO Series - Conditioning

871.




Colour	Dimension	External angle	Variable external angle	Internal angle	Variable internal angle
	60x45mm	871.AE060 12	871.AEV060 8	871.AI060 8	871.AIV060 6
	80x60mm	871.AE080 9	871.AEV080 6	871.AI080 6	871.AIV080 4
	110x75mm	871.AE110 6		871.AI110 4	

■ Angles (flat-vertical)

WADO Series - Conditioning

871.




Colour	Dimension	Flat angle	Variable flat angle	Vertical right angle	Vertical left angle
	60x45mm	871.AP060 10	871.APV060 8	871.AVD060 6	871.AVS060 6
	80x60mm	871.AP080 8	871.APV080 6	871.AVD080 4	871.AVS080 4
	110x75mm	871.AP110 6			

■ Joint

WADO Series - Conditioning

871.



Colour	Dimension	Wall bend	Flexible coupling	Flat tees	Joint cover
	60x45mm	871.CM060 9	871.GF060 6		871.GU060 30
	80x60mm	871.CM080 6	871.GF080 4	871.GT080 4	871.GU080 30
	110x75mm	871.CM110 4		871.GT110 2	871.GU110 20

Trunking systems

WADO Series - Trunking for air conditioning systems



■ Terminals

WADO Series - Conditioning

871.



Colour	Dimension	Through-wall terminal	End cap
■	60x45mm	871.TM060 10	871.TT060 12
	80x60mm	871.TM080 8	871.TT080 9
	110x75mm	871.TM110 8	

WADO Series - Conditioning

871.



Colour	Dimension	Tube fixing sleeper
■	80x60mm	871.TF080 30
■	60x45mm	871.TF060 30
■	110x75mm	871.TF110 20

3.4



Trunking systems

WADO Series - Trunking for air conditioning systems

Complements

WADO Series - Conditioning

871.



Colour	Dimension	Coupling	Flush mounting box	Reduction
□	540x85mm	871.GY16 ^[1] 20	871.PA85 ^[2] 15	
			871.PK85 ^[3] 5	
	110-->80mm			871.RD080 8
	80-->60mm			871.RD060 12

- [1] Two ways for spring pipe
- [2] With condensate discharge
- [3] Box cover

Fixing

WADO Series - Conditioning

871.



Colour	Dimension	Basis
□	U-0350mm	871.SP035 2
	U-0450mm	871.SP045 2
	U-1000mm	871.SP100 4
		871.SP001 24

Trunking systems

WADO Series - Trunking for air conditioning systems



■ Fixing

WADO Series - Conditioning

871.



Colour	Dimension	Stirrup (standard fixing)	
□	max 100kg	871.MP100	1
	max 140kg		871.MP140 1

- 2 parts

WADO Series - Conditioning

871.



Dimension	Ø	Vibration damper kit	
h20mm	ø30mm	871.AV101	1
h40mm	ø40mm		871.AV201 1
			871.AV202 1

- 4 parts

3.4



4

DOMESTIC

Electrical components for
domestic and similar
applications

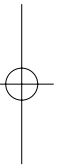
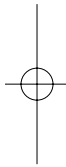
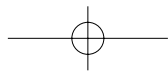
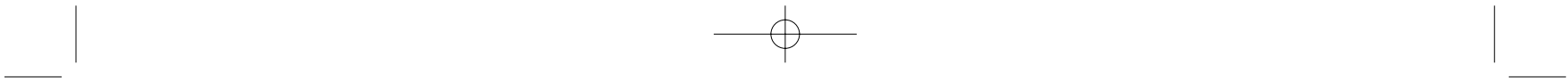
4.1	Plugs and sockets	PAG. 538
4.2	Adaptors	PAG. 544
4.3	Multi sockets	PAG. 554
4.4	Cable reels	PAG. 572
4.5	Lampholders and switches	PAG. 578
4.6	TV/SAT - TEL - DATA	PAG. 590
4.7	Wiring accessories	PAG. 604

4.1

Plugs and sockets

- **AZZURRA Series**
Plugs and trailing sockets
- **BLUELINE Series**
Plugs and trailing sockets
- **QUICK Series**
Plugs and trailing sockets
- **UNEL Series**
Plugs and sockets with side earth contact





Plugs and sockets

AZZURRA Series

Plugs and trailing sockets

AZZURRA Series

104.



Plugs with straight cable outlet

Trailing sockets with straight cable outlet

Flat plugs with 90° angled cable outlet

DOMESTIC

Poles	Current	Standard	Colour	PLUG	SOCKET	PLUG	
2P	10A	P10	White			104.4010 50/500	
			Black			104.4010/N 50/500	
		P11	White	104.4000 ¹ 50/500			
			Black	104.4000/N ¹ 50/500			
2P+E	16A	P10	White		104.4011 50/500		
			Black		104.4011/N 50/500		
		P11	White	104.4001 ¹ 50/500			104.4068 ¹ 100
			Black	104.4001/N ¹ 50/500			104.4068/N ¹ 100
		P17	White	104.4003 ¹ 50/500			104.4070 ¹ 100
			Black	104.4003/N ¹ 50/500			104.4070/N ¹ 100
		P17	White		104.4013 50/500		
			Black		104.4013/N 50/500		

¹ Sleeved pin
- Individual packing

ITALIAN STANDARD P10 - 10A Shuttered socket CEI 23-50	ITALIAN STANDARD P11 - 10A Shuttered socket CEI 23-50	ITALIAN STANDARD S10 - 10A Plug	ITALIAN STANDARD S11 - 10A Plug	ITALIAN STANDARD S17 - 16A Plug	ITALIAN STANDARD P11/P17 - 16A (bivalente) Shuttered socket CEI 23-50

Plugs and sockets

BLUELINE Series



■ Plugs and trailing sockets

BLUELINE Series

106.

116.



Plugs with straight cable outlet

Trailing sockets with straight cable outlet

Flat plugs with 90° angled cable outlet

Poles	Current	Standard	Colour	PLUG	SOCKET	PLUG	
2P	10A	Standard	White		106.3010	50/500	
			Black		106.3010/N	50/500	
2P	10A	Standard	White	106.3000 ¹	50/500		
			Black	106.3000/N ¹	50/500		
2P+E	10A	Standard	White		106.3011	50/500	
			Black		106.3011/N	50/500	
2P+E	16A	Standard	White	106.3001 ¹	50/500	116.68 ¹	100
			Black	106.3001/N ¹	50/500	116.68/N ¹	100
2P+E	16A	Standard	White	106.3003 ¹	50/500	116.70 ¹	100
			Black	106.3003/N ¹	50/500	116.70/N ¹	100
2P+E	16A	Standard	White		106.3013	50/500	
			Black		106.3013/N	50/500	

¹ Sleeved pin
- Individual packing

4.1



Plugs and sockets

QUICK Series

Plugs and trailing sockets

QUICK Series

110.



Rubber housing

Thermoplastic housing

Poles	Current	Standard	Colour	CONNECTOR		PLUG		
2P+E	13A					110.3000 ^[1]	20/400	
	15A					110.3010	20/400	
	16A			110.3150	10/150	110.3100	10/150	
				110.3160	10/150			

[1] Fused

DOMESTIC

- 1
- 2
- 3
- 4



BRITISH STANDARD
2P+E 13A
Plug



BRITISH STANDARD
2P+E 15A
Plug



FRENCH-GERMAN
STANDARD 2P+E 16A
Plug



GERMAN STANDARD
2P+E 16A
Shuttered socket



FRENCH STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40
2P+E 16A
Shuttered socket



GERMAN STANDARD
2P+E 16A
Plug

Plugs and sockets

UNEL Series



■ Plugs and sockets with side earth contact

UNEL Series

130.



Plugs with straight cable outlet

Trailing sockets with straight cable outlet

Plugs with 90° angled cable outlet

Poles	Current	Standard	Colour	PLUG	SOCKET	PLUG			
2P+E	16A	⊕	□		🌱 130.2084	25/250			
			■		🌱 130.2084/N	25/250			
		⊕	□			130.2085	25/250		
			■			130.2085/N	25/250		
		⊕	□		🌱 130.2063	50/500			
			■		🌱 130.2063/N	50/500			
		⊕	□					🌱 130.83	50/500
			■					🌱 130.83/N	50/500
		⊕	□				130.2083	25/250	
			■				130.2083/N	25/250	

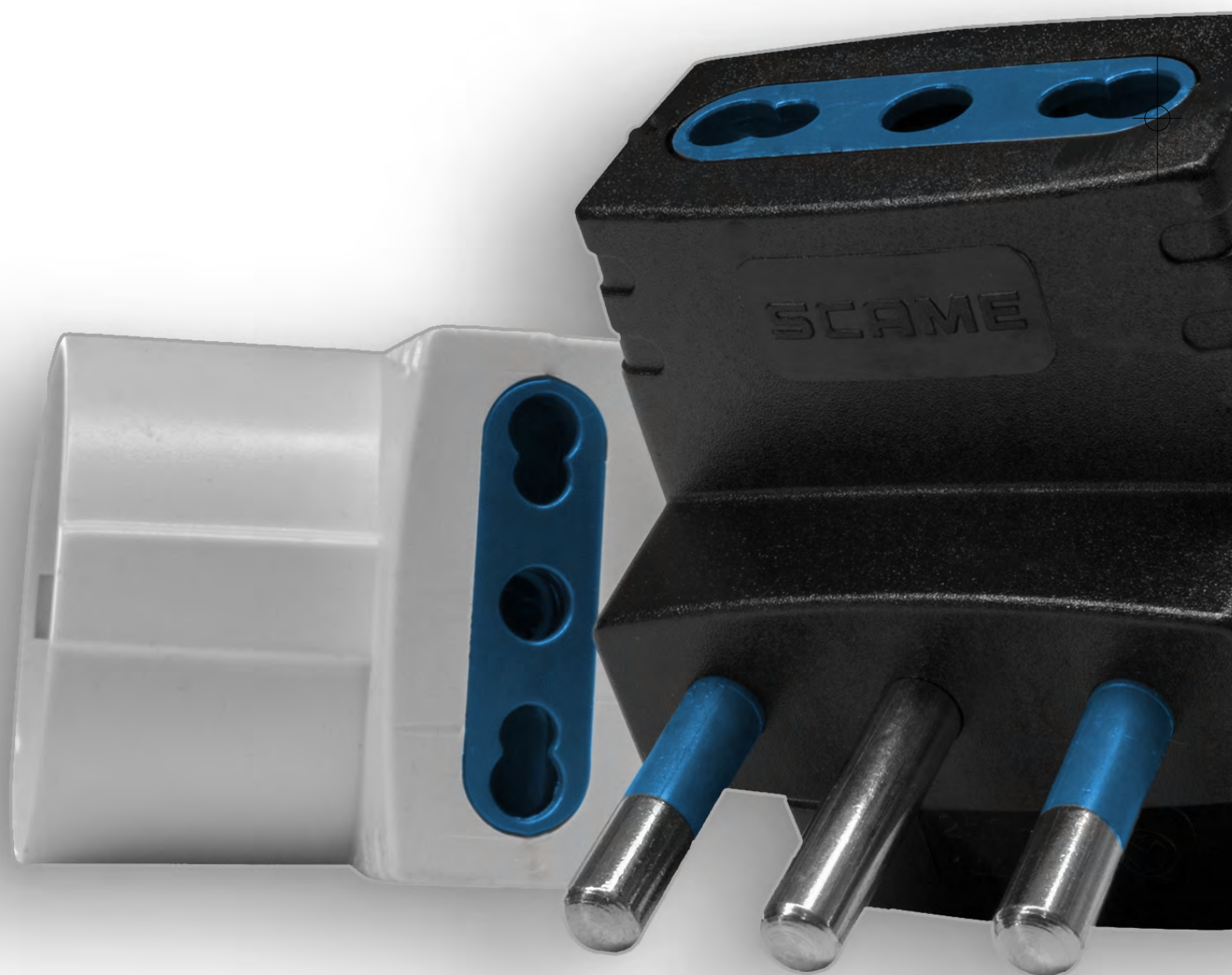
4.1



4.2

Adaptors

- AZZURRA Series Adaptors
- BLUELINE Series Adaptors





Adaptors

AZZURRA Series

One-way adaptors

AZZURRA Series

144.



Standard P30

Poles	Current	Plug	Standard	Sockets	Colour	ONE-WAY ADAPTOR
2P+E	10A			1x2P+E-16A-(P30)		144.441 50
						144.441/N 50
	16A					144.451 50
						144.451/N 50

- Sleeved pin
- Individual packing

Multi-way adaptors

AZZURRA Series

144.



3-way adaptors

Poles	Current	Plug	Standard	Sockets	Colour	3-WAY ADAPTOR
2P+E	10A			3x2P+E-10A-(P11)		144.455 50
						144.455/N 50
	16A					144.450 25/250
						144.450/N 25/250

- Sleeved pin
- Individual packing



**ITALIAN STANDARD
P11 - 10A**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P11/P17 - 16A
(bivalente)**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P30 2P+E 16A**
Shuttered socket CEI 23-50



2P+E-10A-(S11)



2P+E-16A-(S17)



**ITALIAN STANDARD
P17 - 16A**
Shuttered socket CEI 23-50



**PLURISTANDARD P40
2P+E 16A**
Shuttered socket

Adaptors

AZZURRA Series



Multi-way adaptors

AZZURRA Series

144.



3-way multi-standard adaptors

Poles	Current	Plug	Standard	Sockets	Colour	3-WAY ADAPTOR	
2P+E	10A			1x2P+E-16A-(P30) 2x2P+E-10A-(P11)		144.457	25
						144.457/N	25
	16A			2x2P+E-16A-(P17/11) 1x2P+T-16A-(P40)		144.470	25
						144.470/N	25
				1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)		144.459	25
				1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)		144.459/N	25

- Sleeved pin
- Individual packing

4.2



Adaptors

BLUELINE Series

One-way adaptors

1
2
3
4

DOMESTIC

BLUELINE Series

146.



Side earth P30

Poles	Current	Plug	Standard	Sockets	Colour	ONE-WAY ADAPTOR
2P+E	10A			1x2P+E-16A-(P30)		146.641 50
						146.641/N 50
	16A					146.651 50
						146.651/N 50

- Sleeved pin
- Individual packing

BLUELINE Series

146.



Side earth P30 -
Spacesaver

Poles	Current	Plug	Standard	Sockets	Colour	SPACE SAVER ADAPTER
2P+E	10A			1x2P+E-16A-(P30)		146.661 50
						146.661/N 50

- Sleeved pin
- Individual packing



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



2P+E-10A-(S11)



2P+E-16A-(S17)



ITALIAN STANDARD
P11/P17 - 16A
(bivalente)
Shuttered socket CEI 23-50



2P+E-16A-(FRENCH)

Adaptors

BLUELINE Series



■ One-way adaptors

BLUELINE Series

146.



Aligned poles

Poles	Current	Plug	Standard	Sockets	Colour	ONE-WAY ADAPTOR
2P+E	16A			1x2P+E-16A-(P17/11)		146.351 50/500
						146.351/N 50/500

- Sleeved pin
- Individual packing

BLUELINE Series

146.



French-german standard

Poles	Current	Plug	Standard	Sockets	Colour	ONE-WAY ADAPTOR
2P+E	16A			1x2P+E-16A-(P17/11)		146.361 50
						146.361/N 50

- Individual packing

4.2



Adaptors

BLUELINE Series

Multi-way adaptors

1
2
3
4

DOMESTIC

BLUELINE Series

146.



3-way adaptors

Poles	Current	Plug	Standard	Sockets	Colour	3-WAY ADAPTOR	
2P+E	10A			3x2P+E-10A-(P11)			146.555/3 50
							146.555/3-N 50
	16A			3x2P+E-16A-(P17/11)			146.550/3 25/250
							146.550/3-N 25/250

- Sleeved pin
- Individual packing

BLUELINE Series

146.



3-way multi-standard adaptors

Poles	Current	Plug	Standard	Sockets	Colour	3-WAY ADAPTOR	
2P+E	10A			1x2P+E-16A-(P30) 2x2P+E-10A-(P11)			146.557 25
							146.557/N 25
							146.559 25
	16A			1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)			146.559/N 25
							146.570 25
							146.570/N 25

- Sleeved pin
- Individual packing



ITALIAN STANDARD P11 - 10A
Shuttered socket CEI 23-50



ITALIAN STANDARD P11/P17 - 16A (bivalente)
Shuttered socket CEI 23-50



ITALIAN STANDARD P30 2P+E 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 2P+E 16A
Shuttered socket



2P+E-10A-(S11)



2P+E-16A-(S17)



ITALIAN STANDARD P17 - 16A
Shuttered socket CEI 23-50

Adaptors

BLUELINE Series



Multi-way adaptors

BLUELINE Series

146.



3-way multi-standard adaptors (space saver)

Poles	Current	Plug	Standard	Sockets	Colour	SPACE SAVER ADAPTER
2P+E	10A			1x2P+E-16A-(P30) 2x2P+E-10A-(P11)		146.560 25
						146.560/N 25
2P+E	16A			1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)		146.561 25
						146.561/N 25

- Sleeved pin
- Individual packing

BLUELINE Series

146.



4-way adaptors

Poles	Current	Plug	Standard	Sockets	Colour	4-WAY ADAPTOR
2P+E	10A			4x2P+E-10A-(P11)		146.534 25/250
						146.534/N 25/250
2P+E	16A			4x2P+E-16A-(P17/11)		146.530 25/250
						146.530/N 25/250

- Sleeved pin
- Individual packing

4.2



Adaptors

BLUELINE Series

Multi-way adaptors

DOMESTIC

- 1
- 2
- 3
- 4

BLUELINE Series

146.



2-way adaptors with luminous indicator

Poles	Current	Plug	Standard	Sockets	Colour	2-WAY ADAPTOR
2P+E	10A			2x2P+E-10A-(P11)		146.500 25/250
	16A			2x2P+E-16A-(P17/11)		146.501 25/250

- Sleeved pin
- Individual packing

BLUELINE Series

146.



2-way adaptors with USB

Poles	Current	Plug	Standard	Sockets	Colour	USB ADAPTOR
2P+E	10A			2x2P+E-10A-(P11)		146.510 10
						146.510/N 10
	16A			2x2P+E-16A-(P17/11)		146.511 10
						146.511/N 10

- USB socket (Universal Serial Bus) for power supply of electronic devices (1,2A max)



ITALIAN STANDARD P11 - 10A
Shuttered socket CEI 23-50



ITALIAN STANDARD P17 - 16A
Shuttered socket CEI 23-50



ITALIAN STANDARD P11/P17 - 16A (bivalente)
Shuttered socket CEI 23-50



2P+E-10A-(S11)



2P+E-16A-(S17)



USB
USB (Universal Serial Bus)



Lighting protection
With special device to protect against voltage overload in the electrical supply.

Adaptors

BLUELINE Series



■ Adaptors

BLUELINE Series - Lighting pr.

146.



⚡ Lightning protection

Poles	Current	Plug	Standard	Sockets	Colour	LIGHTNING PROTECTION	
2P+E	10A			1x2P+E-10A-(P11)		146.360	12/48

⚡ With lightning protection

- Sleeved pin
- Individual packing

4.2

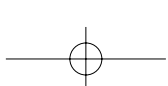
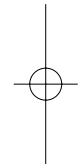
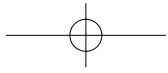


4.3

Multi sockets

- TREND Series
Multi sockets
- BLUELINE Series
Multi sockets
- SICURA Series
Multi sockets
- Serie SPYROS
Extension cords for domestic
applications





Multi sockets TREND Series

Multi sockets

TREND Series

165.



With cable and plug -
Without luminous switch

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET
16A			3	1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)	1mm ²	MAX 3.600W		165.10401.N 10
								165.10401.R 10
			6	2x2P+E-16A-(P30) 4x2P+E-16A-(P17/11)				165.20401.N 10
								165.20401.R 10
			9	3x2P+E-16A-(P30) 6x2P+E-16A-(P17/11)				165.30401.N 10
								165.30401.R 10

With 1,5m H05VV-F (PVC) cable and plug

TREND Series

165.



With cable and plug -
With luminous switch

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET
16A			12	4x2P+E-16A-(P30) 8x2P+E-16A-(P17/11)	1mm ²	MAX 3.600W		165.40411.N 10
								165.40411.R 10
			6	2x2P+E-16A-(P30) 4x2P+E-16A-(P17/11)				165.20411.N 10
								165.20411.R 10
			9	3x2P+E-16A-(P30) 6x2P+E-16A-(P17/11)				165.30411.N 10
								165.30411.R 10

With 1,5m H05VV-F (PVC) cable and plug



ITALIAN STANDARD
P11/P17 - 16A
(bivalente)
Shuttered socket CEI 23-50



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



2P+E-16A-(S17)



2P+E-10A-(S11)

Multi sockets

TREND Series



Multi sockets

TREND Series

165.



With cable and plug -
With luminous switch
[SAFETY SWITCH]

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET	
10A			6	2x2P+E-16A-(P30) 4x2P+E-16A-(P17/11)	0,75mm ²	MAX 2.300W		165.20441.N	10
								165.20441.R	10

- With 1,5m H05VV-F (PVC) cable and plug
- SAFETY-SWITCH: Luminous switch with overload protection device



APPLICATION EXAMPLE

4.3



Multi sockets

TREND Series

Multi sockets

TREND Series

165.



With lightning protection - With luminous switch

- 1
- 2
- 3
- 4

DOMESTIC

Current	Plug	Standard no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET	
16A			6 2x2P+E-16A-(P30) 4x2P+E-16A-(P17/11)	1mm ²	MAX 3.600W		165.20421.T	10
			9 3x2P+E-16A-(P30) 6x2P+E-16A-(P17/11)				165.30421.T	10

- With 1,5m H05VW-F (PVC) cable and plug
- Transparent case



TREND Series
Multi-outlet socket with lightning protection



ITALIAN STANDARD P11/P17 - 16A (bivalente)
Shuttered socket CEI 23-50



ITALIAN STANDARD P30 2P+E 16A
Shuttered socket CEI 23-50



2P+E-16A-(S17)



Lighting protection
With special device to protect against voltage overload in the electrical supply.



2P+E-16A-(GERMAN)



USB
USB (Universal Serial Bus)

Multi sockets

TREND Series



Multi sockets

TREND Series

165.



USB socket - With luminous switch

Current	Plug	Standard	Sockets	Cable section	Max power	Colour	MULTI SOCKET WITH USB
16A	 	 	1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)	1mm ²	MAX 3.600W		165.20431.N 10
							165.20431.R 10
							165.20431.ND 10
							165.20431.RD 10

With 1,5m H05VV-F (PVC) cable and plug

- USB socket (Universal Serial Bus) for power supply of electronic devices (1,2A max)

4.3



Multi sockets

BLUELINE Series

Multi sockets

BLUELINE Series - Lighting pr.

160.



With lightning protection - With luminous switch

1
2
3
4

DOMESTIC

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET
10A			6	6x2P+E-10A-(P11)	1mm ²	MAX 2.300W		160.237/C 10
								160.237/C-F ¹ 10
								160.237/C-T ¹ 10
								160.232/C 10
								160.232/C-F ¹ 10
								160.232/C-T ¹ 10
			6	6x2P+E-16A-(P17/11)	1mm ²	MAX 2.300W		160.233/C 10
								160.233/C-F ¹ 10
								160.233/C-T ¹ 10
								160.240/C 10
								160.240/C-F ¹ 10
								160.240/C-T ¹ 10
16A			6	3x2P+E-16A-(P17/11) 3x2P+E-16A-(P30)	1mm ²	MAX 3.600W		160.233/D 10
								160.233/D-F ¹ 10
								160.233/D-T ¹ 10
								160.243/D 10
								160.243/D-F 10
								160.243/D-T 10
			4	4x2P+E-16A-(P30)	1mm ²	MAX 3.600W		160.249/C 10
								160.249/C-F ¹ 10
								160.249/C-T ¹ 10
								160.243/D 10
								160.243/D-F 10
								160.243/D-T 10

With 1,5m H05W-F (PVC) cable and plug

With luminous switch

With lightning protection

Transparent case



**ITALIAN STANDARD
P11 - 10A**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P11/P17 - 16A
(bivalente)**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P30 2P+E 16A**
Shuttered socket CEI 23-50



**GERMAN STANDARD
2P+E 16A**
Shuttered socket



**FRENCH STANDARD
2P+E 16A**
Shuttered socket



2P+E-10A-(S11)



2P+E-16A-(S17)



2P+E-16A-(GERMAN)

Multi sockets

BLUELINE Series



Multi sockets

BLUELINE Series

160.



With cable and plug -
With luminous switch

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET
10A	☰	⋮	6	6x2P+E-10A-(P11)	0,75mm ²	MAX 2.300W	White	160.250/C 10
							Black	160.250/C-N 10
				White			160.229/C 10	
				Black			160.229/C-N 10	
				Grey			160.229/C-F ¹ 10	
				Blue			160.229/C-T ¹ 10	
	☰	⋮	6	3x2P+E-16A-(P17/11) 3x2P+E-16A-(P30)	1mm ²	MAX 3.600W	White	160.230/C 10
							Black	160.230/C-N 10
				Grey			160.230/C-F ¹ 10	
				Blue			160.230/C-T ¹ 10	
				White			160.239/C 10	
				Black			160.239/C-N 10	
16A	☰	⋮	6	3x2P+E-16A-(P17/11) 3x2P+E-16A-(P30)	1mm ²	MAX 3.600W	White	160.239/C 10
							Black	160.239/C-N 10
				Grey			160.239/C-F ¹ 10	
				Blue			160.239/C-T ¹ 10	
				White			160.230/D 10	
				Black			160.230/D-N 10	
	☰	⋮	6	4x2P+E-16A-(P30)	1mm ²	MAX 3.600W	White	160.239/D 10
							Black	160.239/D-N 10
				Grey			160.239/D-F ¹ 10	
				Blue			160.239/D-T ¹ 10	
				White			160.242/C 10	
				Black			160.242/C-N 10	
☰	⋮	6	4x2P+E-16A-(GERMAN)	1mm ²	MAX 3.600W	White	160.242/C-F 10	
						Black	160.242/C-T 10	
			White			160.248/C 10		
			Black			160.248/C-N 10		
			Grey			160.248/C-F ¹ 10		
			Blue			160.248/C-T ¹ 10		

☰ With 1,5m H05VV-F (PVC) cable and plug

☰ With luminous switch

¹ Transparent case



2P+E-16A-(FRENCH)

Lighting protection

With special device to protect against voltage overload in the electrical supply.

4.3



Multi sockets

BLUELINE Series

Multi sockets

BLUELINE Series

160.



Without cable and plug -
With luminous switch

DOMESTIC

Current	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET	
16A	☰	6	6x2P+E-16A-(P17/11)	MAX 3.600W	☐	🌱 160.229 10/100	
					■	🌱 160.229/N 10/100	
					▒	🌱 160.229/F ¹ 10/100	
					■	🌱 160.229/T ¹ 10/100	
					☐	🌱 160.230 10/40	
					■	🌱 160.230/N 10/40	
	☰☹	6	3x2P+E-16A-(P17/11) 3x2P+E-16A-(P30)		▒	🌱 160.230/F ¹ 10/40	
					■	🌱 160.230/T ¹ 10/40	
					☐	🌱 160.239 10/50	
					■	🌱 160.239/N 10/50	
					▒	🌱 160.239/F ¹ 10/50	
					■	🌱 160.239/T ¹ 10/50	
☹☹	4	4x2P+E-16A-(P30)	☐	160.242 10/50			
			■	160.242/N 10/50			
			▒	160.242/F 10/50			
			■	160.242/T 10/50			
			☐	160.248 10/50			
			■	160.248/N 10/50			
☹☹☹	4	4x2P+E-16A-(GERMAN)	▒	160.248/F ¹ 10/50			
			■	160.248/T ¹ 10/50			
			☹☹☹☹	4	4x2P+E-16A-(FRENCH)	☐	160.248 10/50
						■	160.248/N 10/50
						▒	160.248/F ¹ 10/50
						■	160.248/T ¹ 10/50

☑ With luminous switch

1 Transparent case



ITALIAN STANDARD
P11/P17 - 16A
(bivalente)
Shuttered socket CEI 23-50



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



GERMAN STANDARD
2P+E 16A
Shuttered socket



FRENCH STANDARD
2P+E 16A
Shuttered socket



ITALIAN STANDARD
P11 - 10A
Shuttered socket CEI 23-50



2P+E-10A-(S11)



2P+E-16A-(S17)

Multi sockets

BLUELINE Series



Multi sockets

BLUELINE Series

160.



With cable and plug -
Without luminous switch
(Italian plug)

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET
10A	☰	⋮	4	4x2P+E-10A-(P11)	0,75mm ²	MAX 2.300W	White	160.219/C 10
							Black	160.219/C-N 10
							Grey	160.219/C-F ¹ 10
							Blue	160.219/C-T ¹ 10
							White	160.224/C 10
							Black	160.224/C-N 10
	Grey	160.224/C-F ¹ 10						
	Blue	160.224/C-T ¹ 10						
	White	160.220/C 10						
	Black	160.220/C-N 10						
	Grey	160.220/C-F ¹ 10						
	Blue	160.220/C-T ¹ 10						
16A	☰	⋮	4	4x2P+E-16A-(P17/11)	1mm ²	MAX 3.600W	White	160.223/C 10
							Black	160.223/C-N 10
							Grey	160.223/C-F ¹ 10
							Blue	160.223/C-T ¹ 10
							White	160.225/C 10
							Black	160.225/C-N 10
	Grey	160.225/C-F ¹ 10						
	Blue	160.225/C-T ¹ 10						
	White	160.231/C 10						
	Black	160.231/C-N 10						
	Grey	160.231/C-F ¹ 10						
	Blue	160.231/C-T ¹ 10						
☰	☺	4	4x2P+E-16A-(P30)				White	160.238/C 10
							Black	160.238/C-N 10
							Grey	160.238/C-F ¹ 10
							Blue	160.238/C-T ¹ 10

☰ With 1,5m H05VV-F (PVC) cable and plug

¹ Transparent case

4.3



Multi sockets

BLUELINE Series

Multi sockets

BLUELINE Series

160.



With cable and plug -
Without luminous switch
(European plug)

1
2
3
4

DOMESTIC

Current	Plug	Standard	no.	Sockets	Cable section	Max power	Colour	MULTI SOCKET						
16A			4x2P+E-16A-(P30)	1mm ²	1mm ²	MAX 3.600W		160.238/D 10						
								160.238/D-N 10						
								160.238/D-F ¹ 10						
								160.238/D-T ¹ 10						
			4x2P+E-16A-(GERMAN)	1mm ²	1mm ²	MAX 3.600W		160.241/C 10						
								160.241/C-N 10						
								160.241/C-F 10						
								160.241/C-T 10						
									4x2P+E-16A-(FRENCH)	1mm ²	1mm ²	MAX 3.600W		160.247/C 10
														160.247/C-N 10
														160.247/C-F ¹ 10
														160.247/C-T ¹ 10

With 1,5m H05VV-F (PVC) cable and plug

¹ Transparent case



ITALIAN STANDARD
P30 2P+E 16A
Shuttered socket CEI 23-50



GERMAN STANDARD
2P+E 16A
Shuttered socket



FRENCH STANDARD
2P+E 16A
Shuttered socket



2P+E-16A-(GERMAN)



2P+E-16A-(FRENCH)



ITALIAN STANDARD
P11 - 10A
Shuttered socket CEI 23-50



ITALIAN STANDARD
P11/P17 - 16A
(bivalente)
Shuttered socket CEI 23-50

Multi sockets BLUELINE Series



Multi sockets

BLUELINE Series

160.



Without cable and plug -
Without luminous switch

Current	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET
10A	I	4	4x2P+E-10A-(P11)	MAX 2.300W		160.219 10/100
						160.219/N 10/100
						160.219/F ¹ 10/100
			160.219/T ¹ 10/100			
			160.224 10/120			
			160.224/N 10/120			
	6	I	6x2P+E-10A-(P11)			160.224/F ¹ 10/120
						160.224/T ¹ 10/120
						160.220 10/100
					160.220/N 10/100	
					160.220/F ¹ 10/100	
					160.220/T ¹ 10/100	
16A	I	3	3x2P+E-16A-(P17/11)	MAX 3.600W		160.223 10/100
						160.223/N 10/100
						160.223/F ¹ 10/100
			160.223/T ¹ 10/100			
			160.225 10/120			
			160.225/N 10/120			
	6	I	4x2P+E-16A-(P17/11)			160.225/F ¹ 10/120
						160.225/T ¹ 10/120
						160.231 10/40
					160.231/N 10/40	
					160.231/F ¹ 10/40	
					160.231/T ¹ 10/40	
	I	4x2P+E-16A-(P30)			160.238 10/50	
					160.238/N 10/50	
					160.238/F ¹ 10/50	
				160.238/T ¹ 10/50		
				160.241 10/50		
				160.241/N 10/50		
I	4	4x2P+E-16A-(GERMAN)			160.241/F 10/50	
					160.241/T 10/50	
					160.247 10/50	
		160.247/N 10/50				
		160.247/F ¹ 10/50				
		160.247/T ¹ 10/50				
I	4x2P+E-16A-(FRENCH)			160.247 10/50		
				160.247/N 10/50		
				160.247/F ¹ 10/50		
			160.247/T ¹ 10/50			
			160.247 10/50			
			160.247/N 10/50			

¹ Transparent case

4.3



Multi sockets BLUELINE Series

Multi sockets

BLUELINE Series

160.



Desk multi sockets

Current	Plug	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET FOR DESK
16A			3	1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)	MAX 3.600W		160.5013 6/24 160.5014 6/24

With 2m H05VV-F (PVC) 3x1mm² cable and plug 16A 2P+E

With luminous switch

BLUELINE Series

160.



Description	Colour	Support kit
MULTI SOCKET SUPPORT KIT		160.001 10/100



**ITALIAN STANDARD
P11/P17 - 16A
(bivalente)**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P30 2P+E 16A**
Shuttered socket CEI 23-50



2P+E-16A-(S17)



**PLURISTANDARD P40
2P+E 16A**
Shuttered socket



Lighting protection
With special device to protect
against voltage overload in the
electrical supply.

Multi sockets

SICURA Series



Multi sockets

SICURA Series

161.



With lightning protection - With luminous switch

Current	Plug	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET	
16A			4	4x2P+E-16A-(P40)	MAX 3.600W		161.246/C-F	10
							161.246/C-T	10

- With 1,5m H05VV-F (PVC) cable and plug
- With luminous switch
- With lightning protection
- Transparent case

SICURA Series

161.



With cable and plug - With luminous switch

Current	Plug	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET	
16A			10	4x2P+E-16A-(P17/11) 6x2P+T-16A-(P40)	MAX 3.600W		161.60511.N	10
							161.60511.R	10
							161.40511.N	10
			161.40511.F¹	10				
			161.40511.T¹	10				
			161.40511.R	10				
			4	4x2P+E-16A-(P40)				

- With 1,5m H05VV-F (PVC) cable and plug
- With luminous switch
- ¹ Transparent case

4.3



Multi sockets

SICURA Series

Multi sockets

SICURA Series

161.



With cable and plug -
Without luminous switch

1
2
3
4

DOMESTIC

Current	Plug	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET
16A			10	4x2P+E-16A-(P17/11) 6x2P+T-16A-(P40)	MAX 3.600W		161.60501.N 10
							161.60501.R 10
			4	4x2P+E-16A-(P40)			161.40501.N 10
							161.40501.F ^[1] 10
						161.40501.T ^[1] 10	
							161.40501.R 10

With 1,5m H05VV-F (PVC) cable and plug

^[1] Transparent case



ITALIAN STANDARD
P11/P17 - 16A
(bivalente)
Shuttered socket CEI 23-50



PLURISTANDARD P40
2P+E 16A
Shuttered socket



2P+E-16A-(S17)

Multi sockets

SICURA Series



Multi sockets

SICURA Series

161.



Without cable and plug -
With luminous switch

Current	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET	
16A		10	4x2P+E-16A-(P17/11) 6x2P+T-16A-(P40)	MAX 3.600W		161.60510.N	10
						161.60510.R	10
						161.40510.N	10
		4	4x2P+E-16A-(P40)	MAX 3.600W		161.40510.F ¹	10
						161.40510.T ¹	10
						161.40510.R	10

⁺ With luminous switch

¹ Transparent case



APPLICATION EXAMPLE

4.3



Multi sockets

SICURA Series

Multi sockets

SICURA Series









161.



Without cable and plug -
Without luminous switch

1
2
3
4

DOMESTIC

Current	Standard	no.	Sockets	Max power	Colour	MULTI SOCKET
16A		10	4x2P+E-16A-(P17/11) 6x2P+T-16A-(P40)	MAX 3.600W		161.60500.N 10
						161.60500.R 10
						161.40500.N 10
		161.40500.F ¹ 10				
		161.40500.T ¹ 10				
		161.40500.R 10				
		4	4x2P+E-16A-(P40)			

¹ Transparent case



Random colour

Random colour (.R) means casual "white base - grey lid" or "grey base - white lid".



ITALIAN STANDARD
P11/P17 - 16A
(bivalente)
Shuttered socket CEI 23-50



PLURISTANDARD P40
2P+E 16A
Shuttered socket

Multi sockets

Serie SPYROS



■ Extension cords for domestic applications

SPYROS Series

168.



Description	Cable length	Cable section	Colour	Without plug and connector	With plug and connector 2P+E 10A	
EXTENSION CORD	3m	0,75mm ²		168.0072B-03 10	168.4272B-03 10	
				168.0072N-03 10	168.4272N-03 10	
		1mm ²		168.0073B-03 10	168.4273B-03 10	
				168.0073N-03 10	168.4273N-03 10	
			5m		168.0073B-05 10	168.4273B-05 10
					168.0073N-05 10	168.4273N-05 10

4.3



4.4

Cable reels

- TRIS (ENERGY) Series
Cable reels - Low voltage versions
with thermal switch
- TRIS Series (TV)
Cable reels - TV versions
- TRIS (TEL) Series
Cable reels - Telephone versions





Cable reels

TRIS (ENERGY) Series

■ Cable reels - Low voltage versions with thermal switch

1
2
3
4

DOMESTIC

Plug	Standard	no.	Sockets	Cable	Cable section	Cable length	@
☪	☪	2	2x2P+E-10A-(P11)	H05W-F	1mm ²	5m	1200W
						10m	1100W
						4m	1700W
	☪	2	2x2P+E-16A-(P17/11)			10m	
						15m	
						20m	
☪	☪☪	3	1x2P+E-16A-(P30) 2x2P+E-16A-(P17/11)	5m			
				10m			
				15m			
	☪☪	4	4x2P+E-16A-(P30)	20m	1200W		
				10m			
				20m			
☪☪	4	4x2P+E-16A-(GERMAN)	10m				
			20m				
			10m				
☪☪	4	4x2P+E-16A-(FRENCH)	10m				
			20m				
			5m				
☪	☪	2	2x2P-10A-(P10)		1mm ²	10m	1100W
						15m	

- After use rewind the cable carefully back into the reel.
- With thermal overload switch.
- The maximum power supply is shown on every single item.



Thermal overload switch

A bimetallic device is put in close contact with the supply cable and protects it from excessive overheating resulting from the Joule effect. If activated, the device opens the circuit to the socket, interrupting the supply of electrical energy. Reactivation is only possible manually and if the temperature is below intervention threshold.

Warning: The thermal overload switch is not an isolator switch, therefore maintenance operations are carried out after having disconnected the circuit. The thermal overload switch does not protect.



ITALIAN STANDARD P10 - 10A
Shuttered socket CEI 23-50



ITALIAN STANDARD P11 - 10A
Shuttered socket CEI 23-50



ITALIAN STANDARD P11/P17 - 16A (bivalente)
Shuttered socket CEI 23-50



ITALIAN STANDARD P30 2P+E 16A
Shuttered socket CEI 23-50



GERMAN STANDARD 2P+E 16A
Shuttered socket



FRENCH STANDARD 2P+E 16A
Shuttered socket



2P+E-10A-(S11)



2P+E-16A-(S17)

Cable reels

TRIS (ENERGY) Series



TRIS Series

709.



TRIS 150 Series



TRIS 190 Series



TRIS 230 Series

Wattage	Volt	Colour	TRIS 150 Series	DOMESTIC CABLE REEL	TRIS 190 Series	TRIS 230 Series
2200W	250V	Green	709.2505 1/12			
2300W			709.2605 1/12		709.3510 1/6	
2850W					709.3610 1/6	709.4615 1/6
					709.3705 1/6	709.4620 1/6
					709.3710 1/6	
3200W						709.4715 1/6
						709.4720 1/6
					709.3310 1/6	709.4320 1/6
					709.3910 1/6	
					709.3810 1/6	709.4920 1/6
						709.4820 1/6
2200W			709.2405 1/12			
2300W					709.3410 1/6	
					709.3415 1/6	709.4420 1/6

4.4



2P-10A-(S10)



Wound cable power



Unwound cable power

Cable reels TRIS Series (TV)

■ Cable reels - TV versions

TRIS Series


707.



TRIS 130 Series



TRIS 150 Series

Plug	no.	Sockets	Cable	Cable length	Colour	DOMESTIC CABLE REEL			
TV Ø9,5	1	1xTV	COAXIAL	5m		707.1105	1/12		
				10m				707.2110	1/12
				15m				707.2115	1/12

- Rewind the cable completely after use.



Outlet to outlet connector - Plug to plug connector

Coaxial cable connector are available, as well as "outlet to outlet connector" and "plug to plug connector" for old adaptors and TV installations and ew TV installations according to CEI EN 50083.



TRIS Series

Cable reel for TV socket IEC connector, diameter 9.5mm for coaxial cable.

Cable reels

TRIS (TEL) Series



■ Cable reels - Telephone versions

TRIS Series

707.



TRIS 130 Series



TRIS 150 Series

Plug	no.	Sockets	Cable	Cable length	Colour	DOMESTIC CABLE REEL	
						Part No.	Quantity
TELEPHONE 3P	2	1xTEL. 1xPLUG	TELEPHONE 3P	5m	■	707.1205	1/12
				10m		707.1210	1/12
				15m		707.1215	1/12
				20m		707.2220	1/12

- Cable reels are provided with a 6/4 plug and line duplicator.
- Rewind the cable completely after use.



Plug
The telephone cable reels of the TRIS Series are provided with a 6/4 plug and a line duplicator.



TRIS Series
Plug to plug connector

4.4

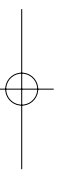
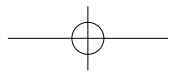


4.5

Lampholders and switches

- LUX [Lampholders] Series
Lampholders
- LUX [switches] Series
Single pole switches
- LUX [celing] Series
Ceiling accessories





Lampholders and switches

LUX [Lampholders] Series

■ For incandescent lamps

LUX Series

190.



1

2

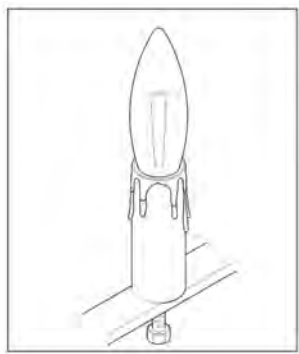
3

4

DOMESTIC

Description	Lamp holder	Dimension	Fixing	Colour	Plastic candles
CANDLE DRIP COVER	E14	h65mm			190.CP70B 50/300
					190.CP70A 50/300
		h85mm			190.CP85B 50/300
					190.CP85A 50/300
CANDLE LAMPHOLDER	E14	h65mm	2 PARTS HIGHER		190.3570S ^[1] 50/500
					190.3570ES ^[1] 50/500
		h85mm	2 PARTS HIGHER		190.3585S ^[1] 50/500
					190.3585ES ^[1] 50/500

[1] Metal bracket.



LUX Series
Fixing thread: M10x1mm

Lampholders and switches

LUX [Lampholders] Series



■ For incandescent lamps

LUX Series

190.



Description	Lamp holder	Cap	Colour	Lampholders - Skirt smooth
LAMPHOLDER	E14	THREADED METAL ENTRY		190.2000LNB 100/600
				190.2000LN 100/600
		THREADED PLASTIC ENTRY		190.2000LGB 100/600
				190.2000LG 100/600
		THREADED METAL ENTRY AND EARTH		190.2000LTB 100/600
				190.2000LT 100/600
	E27	THREADED METAL ENTRY		190.6000LNB 50/300
				190.6000LN 50/300
		THREADED PLASTIC ENTRY		190.6000LGB 50/300
				190.6000LG 50/300
		THREADED METAL ENTRY AND EARTH		190.6000LTB 50/300
				190.6000LT 50/300

- Cable 2.5mm² (max).
- Entry: M10 x 1.

4.5



Lampholders and switches

LUX [Lampholders] Series

■ For incandescent lamps

LUX Series

190.



1

2

3

4

DOMESTIC

Description	Lamp holder	Cap	Colour	Lampholders - Skirt threaded
LAMPHOLDER	E14	THREADED METAL ENTRY		190.2000FNB 100/600
				190.2000FN 100/600
		THREADED PLASTIC ENTRY		190.2000FGB 100/600
				190.2000FG 100/600
				190.2000FGO 100/600
				190.6000FNB 50/300
	E27	THREADED METAL ENTRY		190.6000FN 50/300
				190.6000FGB 50/300
		THREADED PLASTIC ENTRY		190.6000FG 50/300
				190.6000FGO 50/300
				190.6000FTB 50/300
				190.6000FT 50/300

- Cable 2.5mm² (max).
- Entry: M10 x 1.

LUX Series

190.



Description	Lamp holder	Cap	Colour	Lampholders - Skirt partially threaded
LAMPHOLDER	E14	THREADED METAL ENTRY		190.2000FCNB 100/600
				190.2000FCN 100/600
		THREADED PLASTIC ENTRY		190.2000FCGB 100/600
				190.2000FCG 100/600
				190.6000FCNB 50/300
				190.6000FCN 50/300
	E27	THREADED METAL ENTRY		190.7350Z 50/300
				190.6000FCGB 50/300
		THREADED PLASTIC ENTRY		190.6000FCG 50/300
				190.6000CTB 50/300
				190.6000CT 50/300

- Cable 2.5mm² (max).
- Entry: M10 x 1.

Lampholders and switches

LUX [Lampholders] Series



■ For incandescent lamps

LUX Series

190.



Description	Lamp holder	Dimension	Colour	Material	Shade ring	
SHADE RING	E14	Ø43x15mm		THERMOPLASTIC	190.31B 50/500	
					190.31 50/500	
					190.31Z 50/500	
		Ø43x8,5mm			190.147B 50/500	
					190.71B 50/500	
					190.71 50/500	
	E27	Ø58x13mm			190.73B 50/500	
					190.73N 50/500	
					190.73Z 50/500	
			Ø65x12mm			190.74B 50/500
						190.74N 50/500

- To be used with threaded skirt lampholders.
- Lamphshade holding ring.

LUX Series

190.



Description	Lamp holder	Version	Colour	Material	Lampholder [Special T210°C]
LAMPHOLDER	E27	T210°C		THERMOPLASTIC	190.5778/304T 20/200
					190.5778/306L 20/200
					190.5778/311T 20/200
					190.5778/313T 20/200
					190.5778/348 20/200
					190.5778B 20/200

Earth terminal.

- Cable: 4mm² (max).
- 2 holes for screw fixing
- Screw terminals

4.5



Lampholders and switches

LUX [Lampholders] Series

■ For incandescent lamps

LUX Series

190.



Lampholder [Special
T300°C]

Description	Lamp holder	Version	Colour	Material	Lampholder [Special T300°C]
LAMPHOLDER	E40	T300°C		CERAMIC	190.5740B1 10

- Cable section 1.5-4mm².
- Unscrewing brake.
- Screw terminals

LUX Series

190.



Lampholders - Brass
plated metal

Description	Lamp holder	Version	Dimension	Cap	Colour	Material	Lampholders - Brass plated metal
SHADE RING			Ø58,5x15mm				190.81 ^{[1][2]} 50/500
LAMPHOLDER	E27	T210°C		THREADED METAL ENTRY		BRASS PLATED METAL	190.8200 ^{[3][4][5][6][7]} 50/300
				THREADED METAL ENTRY AND EARTH			190.8200T ^{[3][4][5][6][7]} 50/300

- [1] To be used with threaded skirt lampholders.
- [2] Lampshade holding ring.
- [3] With locking screw.
- [4] With tube stop.
- [5] Cable 2.5mm² (max).
- [6] Entry: M10 x 1.
- [7] Screw terminals

DOMESTIC

Lampholders and switches

LUX [Lampholders] Series



■ For incandescent lamps

LUX Series
190.



Description	Lamp holder	Colour	IP	Volt	Lamp power	Surface mounting lampholder	
LAMPHOLDER	E27		IP20	12V	60W	190.100	1/10
						190.5501/15TB	100

☑ Total insulation e class II.

▽ Suitable for being installed on usually flammable surface

- Surface mounting

■ For halogen lamps

LUX Series
191.



For low voltage halogen lamps

Dimension	Colour	LAMPHOLDER	
Ø17X10,2mm		191.5031	100/1000

- Type of coupling: G4/GZ4/GX5.3/GY6.35.

- Cable: Teflon-Fep 150mm.

- Made of steatite.

- Push-in terminals.

4.5



Lampholders and switches

LUX [Lampholders] Series

■ For halogen lamps

LUX Series

191.



For halogen lamps - with bracket

Version	Dimension	Colour	LAMPHOLDER
LOW VOLTAGE HALOGEN LAMPS	140mm		191.5122 20/200

- Type of coupling: R7s.
- Cable: Teflon-Fep 200mm.
- Made of steatite.
- Profiled.
- Bracket with central hole and slots.

LUX Series

191.



For halogen lamps

Version	Dimension	Colour	Material	LAMPHOLDER
HALOGEN LAMPS	Ø19x24,8mm		METAL	191.5124 50/500

- Type of coupling: R7s/RX7s/RX7s-24/RX7s-26/RX7s-32.
- Cable: Teflon-Fep 200mm.
- With fixing nut: M14 x 1.
- Made of aluminium and steatite.

DOMESTIC

1
2
3
4

Lampholders and switches

LUX [switches] Series



■ Single pole switches

LUX Series

195.



Description	Colour	Volt	Current	Press switches - T 125°C
PUSH BOTTON SWITCH		250V	2A	195.115B ¹ ² ³ ⁴ 100/1000 195.135B 3000

¹ NTR 1119/IMQ.

² Cable: 1mm² (max).

³ With locknut.

⁴ Push-in terminals.

LUX Series

195.



Description	Colour	Volt	Current	Pull switches - T 125°C
PULL SWITCH		250V	2A	195.200B 20/200

- Fixing Ø 3,2mm.

- Single pole switch with cord and white handle grip.

4.5



Lampholders and switches

LUX [switches] Series

Single pole switches

LUX Series

195.



1
2
3
4

DOMESTIC

Description	Colour	Volt	Current	Slide in-line switches
SLIDE SWITCH		250V	2A	195.450B 20/200
				195.450N 20/200
				195.450P 20/200

- ASEV approved.
- Screw closed cover.
- Single pole switches.
- With neutral connection for flat cable.
- Cable: 0.75mm² (max).
- Also for inductive current.

LUX Series

195.



Description	Colour	Volt	Current	Foot switches
FOOT SWITCH		250V	2A	195.565B 20/160
				195.565N 20/160
				195.565P 20/160

- Clip together case.
- Single pole foot switch.
- With neutral and earth terminals.
- Cable: 0.75mm² (max).
- Also for inductive current.

Lampholders and switches

LUX [ceiling] Series



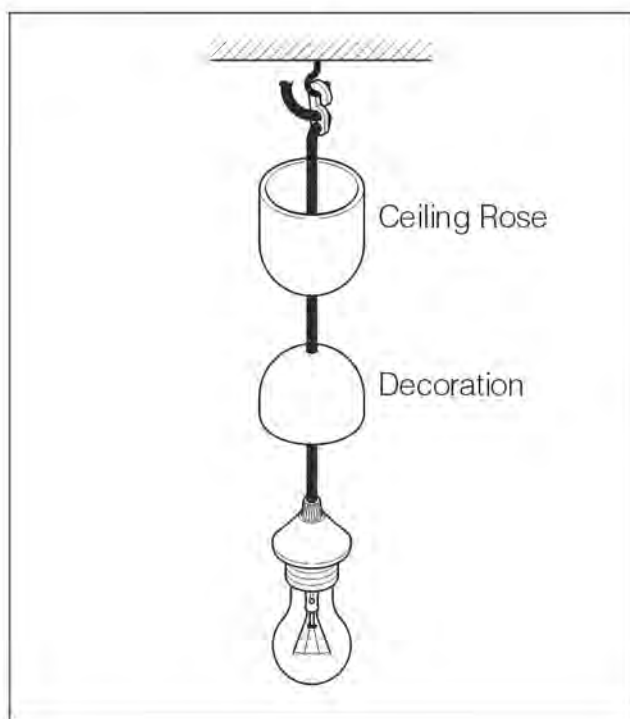
■ Ceiling accessories

LUX Series

190.



Description	Colour	Material	Cylindrical ceiling rose	Conical ceiling rose	Spherical ceiling rose
DECORATION					190.378 500
CYLINDRICAL CUP			190.363B 50/500		
			190.363N 50/500		
CONICAL CUP		THERMOPLASTIC		190.366B 50	
				190.366N 50	
SPHERICAL CUP					190.376B 50/250
					190.376N 50/250



LUX Series
Ceiling Rose + Decoration

4.5



4.6

TV/SAT - TEL - DATA

- **DATATEL-TEL Series**
Components for telephone installations
- **DATATEL-DATA Series**
Component for structured cabling
- **DATATEL-TV/SAT Series**
Plugs, sockets and accessories for tv installations





TV/SAT - TEL - DATA
DATATEL-TEL Series

PLUG Standard

DATATEL Series

180.



DOMESTIC

Description	Plug	Colour	Mobile plugs
PLUG	PLUG 4/4	TRANSPARENT	180.790 100/1000
	PLUG 6/4		180.791 100/1000
	PLUG 6/6		180.792 100/1000
	PLUG 10/10		180.793 100/1000

- To be wired using the specially designed plug pincers.

DATATEL Series

180.



Description	Installation	Sockets	Colour	Fixed telephone sockets
SOCKET	SURFACE MOUNTING	1xPLUG 6/4		180.701 12/60
		1xPLUG 6/6		180.702 12/60
	FLUSH/SURFACE MOUNTING	1xPLUG 6/4		180.705 12/60
		2xPLUG 6/4		180.706 12/60

■ PLUG Standard

DATATEL Series

180.



Description	Plug	Colour	RJ plug couplers	
COUPLER	PLUG 6/4		180.794	12/60
	PLUG 6/6		180.795	12/60
	PLUG 8/8		180.7951	60

- Suitable for connecting 2 cords with RJ plugs.

DATATEL Series

180.



Description	Plug	Colour	Multiplier RJ plug	
DUPLICATOR	PLUG 6/4		180.796	12/60
TRIPLICATOR			180.799	12/60

- Doubles the connection capacity, allowing another appliance to be connected (eg. telephone + modem).

DATATEL Series

180.



Description	Material	Dimension	Plug pincers	
PLUG PINCERS	METAL	4/4-6/6-8/8	180.798	10
	PLASTIC	4/4-6/4	180.797	1/10
		4/4-6/6-8/8	180.7971	10

- Suitable for wiring the RJ plugs.

4.6



TV/SAT - TEL - DATA
DATATEL-TEL Series

■ PLUG Standard >> Telephone cords

- 1
- 2
- 3
- 4

DOMESTIC

DATATEL Series

180.



**Straight telephone cords
with spade terminals
and RJ plug**

**Straight telephone cords
with RJ plugs**

**Extendable telephone
cords with RJ plugs**

Plug	Cable length	Colour	TELEPHONE CORD		
PLUG 4/4	2m				180.741 ¹ 12/60
					180.742 ¹ 12/60
	4,8m				180.743 ¹ 12/60
					180.744 ¹ 12/60
PLUG 6/4	2m		180.723 12/60	180.724 12/60	
				180.725 12/60	
	4,8m				180.745 ¹ 12/60
					180.746 ¹ 12/60
PLUG 6/6	5m			180.728 12/60	
				180.729 12/60	
	2m			180.726 12/60	
				180.727 12/60	

¹ Plug with gold-plated contacts.

■ Components for telephone installations

DATATEL Series

180.



Flush mounting box








Dimension	Colour	SURFACE MOUNTING BOX		COVER PLAIN		SCREW-DOWN COVER	
83,5mm			180.690 12/72		180.691 12/72		180.692 12/72

■ Telephone cable

DATATEL Series

180.



Description	Poles	Cable length	Colour	Round telephone cable (1 meter)	Flat telephone cable (1 meter)
ROUND TELEPHONE CABLE	3P	100m		180.910 100/1000	
				180.911 100/1000	
FLAT TELEPHONE CABLE	4P			180.921 ¹ 100/800	
				180.920 ¹ 100/800	
	6P			180.931 ¹ 100/1000	
				180.930 ¹ 100/1000	
	8P			180.940 ¹ 100/1000	
	10P			180.970 ¹ 100/1000	

¹ Suitable for RJ connectors.

- In coils of 100m.
- Not shuttered.

4.6



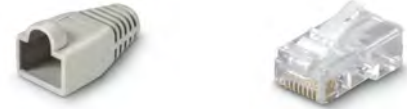
TV/SAT - TEL - DATA

DATATEL-DATA Series

■ Component for structured cabling

DATATEL Series

180.



DOMESTIC

Description	Plug	Version	Sockets	Colour	Free modular plugs for flexible cable	
SHELL					180.800	100/1000
SHIELDED PLUG	CAT. 5 FTP	SHIELDED TYPE	RJ45	■	180.813	100/1000
		SHIELDED TYPE+INSERT			180.814	100/1000
UNSHIELDED PLUG	CAT. 5 UTP	UNSHIELDED TYPE	RJ45	□	180.811	100/1000
		UNSHIELDED TYPE+INSERT			180.812	100/1000
	CAT. 6 UTP	UNSHIELDED TYPE		■	180.815	100/1000
	CAT. 3	UNSHIELDED TYPE		□	180.810	100/1000

DATATEL Series

180.



Description	N° outlets	Category of use	Version	Sockets	Colour	Wall telephone outlets - plug 8/8	
SURFACE MOUNTING SOCKET	1 INLETS	CAT. 5E	UNSHIELDED TYPE	CAT. 5E RJ45	□	180.830	10/100
			SHIELDED TYPE			180.831	10/100
	UNSHIELDED TYPE		180.832			10/100	
	SHIELDED TYPE		180.833			10/100	
	2 INLETS						

- Supplied with screws or both sides adhesive tape for wall fastening.

TV/SAT - TEL - DATA
DATATEL-DATA Series



■ **Component for structured cabling**

DATATEL Series

180.



Description	Category of use	Version	Sockets	Colour	Socket
RJ45 OUTLET	CAT. 5E FTP	SHIELDED TYPE 100Mbps	RJ45	■	180.821 25/100
	CAT. 5E UTP	UNSHIELDED TYPE 100 Mbps		■	180.820 25/100
	CAT. 6 FTP	SHIELDED TYPE 100Mbps		□	180.823 25/100
	CAT. 6 UTP	UNSHIELDED TYPE 100 Mbps		□	180.822 25/100

DATATEL Series

180.



Description	N° outlets	Colour	Flush telephone outlets for 114x70mm built in box
COVER PLATE	1 INLETS	□	180.841 12/60
	2 INLETS		180.842 12/60
	3 INLETS		180.843 12/60
	4 INLETS		180.844 12/60
	6 INLETS		180.846 12/60
OUTLET COVERING CAP			180.840 50/1000

4.6



TV/SAT - TEL - DATA
DATATEL-DATA Series

■ **Component for structured cabling**

DATATEL Series

180.



1
2
3
4

DOMESTIC

Description	Cable length	Category of use	Version	Colour	Connecting patch cords - plug-plug 8/8
PATCH CORD RJ45	1m	CAT. 5E FTP	FTP SHIELDED	■	180.851 12/60
		CAT. 5E UTP	UTP UNSHIELDED		180.850 12/60
		CAT. 6 FTP	FTP SHIELDED		180.855 12/60
		CAT. 6 UTP	UTP UNSHIELDED		180.854 12/60
	3m	CAT. 5E FTP	FTP SHIELDED		180.853 12/60
		CAT. 5E UTP	UTP UNSHIELDED		180.852 12/60
		CAT. 6 FTP	FTP SHIELDED		180.857 12/60
		CAT. 6 UTP	UTP UNSHIELDED		180.856 12/60

- Heat-sealed plugs

DATATEL Series

180.



Description	Category of use	Dimension	Colour	Round rigid cable 24AWG cat.5 (1 meter)
ROUND RIGID CABLE	CAT. 5 FTP	24AWG	■	180.950 100/500
	CAT. 5 UTP			180.960 100/500

- 4 pairs

TV/SAT - TEL - DATA
DATATEL-TV/SAT Series



■ For signals up to 2400 MHz

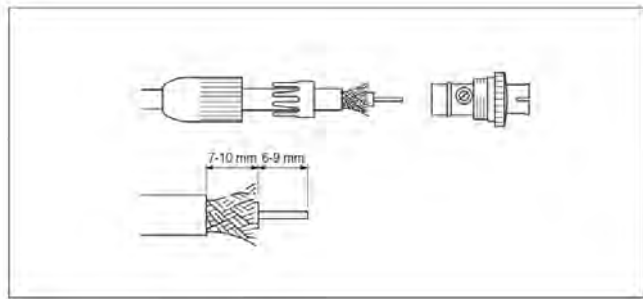
DATATEL Series

180.

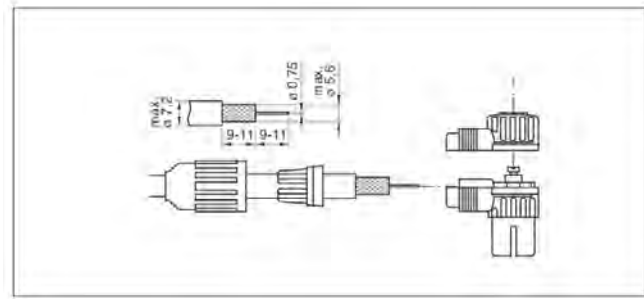


Description	Outlets type	Ø	Colour	Plugs and sockets Ø9,5mm		
CONNECTOR	STRAIGHT	Ø9,5mm	White	180.5520	50	
	90°			180.5521	50	
PLUG	STRAIGHT			180.5510	50	
	90°			180.5511	50	

- Impedance: 75Ω.
- For antenna system
- For signals up to 2,400 Mhz.



DATATEL-TV/SAT Series
 PLUGS AND SOCKETS Ø 9,5mm (straight)
 Wiring instructions



DATATEL-TV/SAT Series
 PLUGS AND SOCKETS Ø 9,5mm (90°)
 Wiring instructions

4.6



TV/SAT - TEL - DATA

DATATEL-TV/SAT Series

■ For signals up to 2400 MHz

DATATEL Series

180.



1
2
3
4

DOMESTIC

Description	Version	Connector
COUPLER	OUTLET TO OUTLET CONNECTOR	180.5640 10/100
	PLUG TO PLUG CONNECTOR	180.5641 10/100

- Also suitable to connect old systems with new CEI EN 50083 systems.
- Impedance: 75Ω.
- For antenna system
- For signals up to 2,400 Mhz.

DATATEL Series

180.



Description	Version	Ø	Accessories for television system with satellite receiver		
SCREW F-CONNECTOR	STANDARD LID	ø5,2mm	180.4521	100/1600	
		ø7mm		180.4701	100/1600
	HEAVY	ø5,2mm	180.4520	10/100	
		ø7mm		180.4700	10/100

- Impedance: 75Ω.
- For antenna system
- For signals up to 2,400 Mhz.

TV/SAT - TEL - DATA
DATATEL-TV/SAT Series



■ For signals up to 862 MHz

DATATEL Series

180.



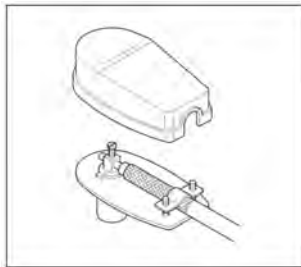
Description	Version	Ø	Colour	Angled plugs 90° angled coaxial cable exit	Coaxial TV cable divider	Cable connectors Straight coaxial
SOCKET						180.60/CEI-P ^[2] 200/2000
PLUG				180.58/CEI ^[1] 200/2000		180.60/CEI-S ^[2] 200/2000
PLUG/SOCKET		ø9,5mm				180.60/CEI ^[2] 200/2000
SPLITTER	1 SOCKET + 2 PLUGS				180.563 ^[4] 10/50	
	1 PLUG + 2 SOCKETS				180.561 ^[3] 50/500	

[1] 90° angled coaxial cable exit.

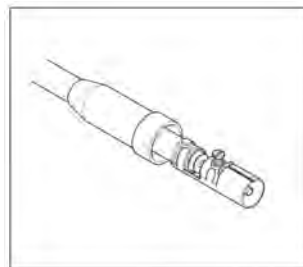
[2] Straight coaxial.

[3] 2 inductive side outlets.

[4] 2 resistive side outlets.



DATATEL-TV/SAT Series
Screw-down cable clamp



DATATEL-TV/SAT Series
Push in cable clamp

4.6



TV/SAT - TEL - DATA
DATATEL-TV/SAT Series

■ **Plugs, sockets and accessories for tv installations**

DATATEL Series

180.



1

2

3

4

DOMESTIC

Description	Cable length	Colour	TV extension cords
TV EXTENSION CORD 9.5mm	2m		180.5902 60
			180.5902/N 60

DATATEL Series

180.



Description	Cable length	Colour	TV extension cords + adaptor
TV EXTENSION CORD 9.5mm	2m		180.5912 60
	3m		180.5913 50
	5m		180.5915 35

TV/SAT - TEL - DATA
DATATEL-TV/SAT Series



■ **Plugs, sockets and accessories for tv installations**

TRIS Series

707.



Description	Plug	no.	Sockets	Cable	Cable length	Colour	TV cable reel TRIS series	
							Code	Availability
DOMESTIC CABLE REEL	TV Ø9,5	1	1xTV	COAXIAL	5m		707.1105	1/12
					10m		707.2110	1/12
					15m		707.2115	1/12

- Rewind the cable completely after use.



Outlet to outlet connector - Plug to plug connector

Coaxial cable connector are available, as well as "outlet to outlet connector" and "plug to plug connector" for old adaptors and TV installations and ew TV installations according to CEI EN 50083.



TRIS Series

Cable reel for TV socket IEC connector, diameter 9.5mm for coaxial cable.

4.6



4.7

Wiring accessories

- PROTECTA Series
IP66 weatherproof switches & sockets
- UNIBOX Series [+EVOLUTION]
Enclosures for wiring accessories
- EVOLUTION Series
Plates and devices





Wiring accessories

PROTECTA Series

■ Surface mounting - IP66 >> Control devices

PROTECTA Series

137.



1
2
3
4

DOMESTIC

Description	Version	Current	Dimension	1 GANG	2 GANG
REVERSING SWITCH		10AX		137.5111	1/12
		20AX		137.5112	1/12
DP SWITCH		20A		137.5462	1/12
SP BELL PUSH SWITCH "BELL"		10A		137.5311B	1/12
SP BELL PUSH SWITCH "PRESS"	WITH NEON	10A	M95(95x95mm)	137.5311P	1/12
		20A		137.5312P	1/12
SP ONE WAY SWITCH		10AX		137.5011	1/12
		20AX		137.5012	1/12
SP TWO WAY SWITCH		10AX		137.5211	1/12
		20AX		137.5212	1/12
PUSH BUTTON SINGLE POLE 2 GANG		10A			137.5321 1/12

■ Surface mounting - IP66

PROTECTA Series

137.



Description	Version	Current	Dimension	Spur units
SPUR UNIT	WITH FUSE AND SWITCH	13A	M115(115x115mm)	137.5410 1/12



IP66
Specifically high formulated gel seal to maintain protection degree when the plug is inserted



RJ45
Standard Ethernet



ITALIAN STANDARD P17/11 16A (bivalente)
Shuttered socket CEI 23-50



FRENCH STANDARD 16A
Shuttered socket



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



SWISS STANDARD 10A
Unshuttered socket SEV 1011:1998



ARGENTINIAN STANDARD 10A
Unshuttered socket

Wiring accessories

PROTECTA Series



■ Surface mounting - IP66

PROTECTA Series

137.

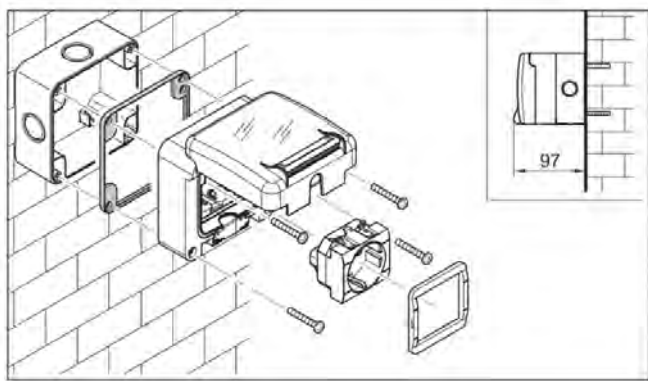


Modular socket outlets

Description	Version	Current	Dimension		
RJ45 OUTLET	RJ45			137.6481.50 ²	1/12
GERMAN STANDARD SOCKET	GERMAN			137.6407	1/12
	GERMAN UNSHUTTER			137.6412 ¹	1/12
ITALIAN P30 STANDARD SOCKET	ITALIAN P30	16A		137.6404	1/12
ITALIAN P17/11 STANDARD SOCKET	ITALIAN P17/11 (DUAL USE)		M95(95x95mm)	137.6403	1/12
FRENCH STANDARD SOCKET	FRENCH			137.6411	1/12
ARGENTINIAN STANDARD SOCKET	ARGENTINE			137.6424	1/12
NEOZELANDER STANDARD SOCKET	NEW ZELAND	10A		137.6427	1/12
SWISS STANDARD SOCKET	SWISS			137.6417	1/12
BRAZILIAN STANDARD SOCKET	BRAZILIAN			137.6421	1/12

¹ Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

² RJ45 - Cat.5E



PROTECTA Series
Surface mounting



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002



NEW ZEALAND STANDARD 10A
Unshuttered socket AS/NZS 3112



GERMAN STANDARD 16A
Unshuttered socket

4.7



Wiring accessories

PROTECTA Series

■ Surface mounting - IP66

PROTECTA Series

137.







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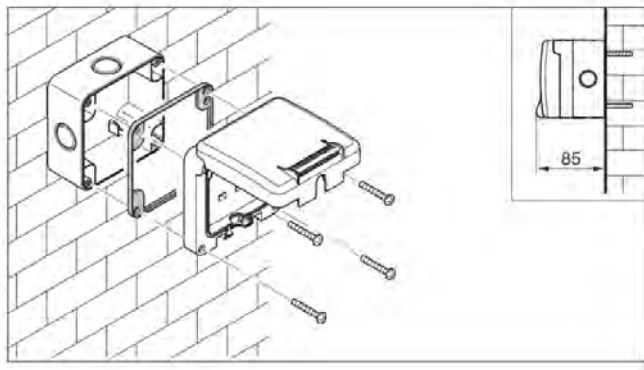
3

4

DOMESTIC

Description	Version	Current	Dimension	 BS socket outlets
13A SOCKET + 20A DP SWITCH			M95x2(195x95mm)	137.6003 1/12
DOUBLE DP SWITCHSOCKET	 BRITISH BS1363	13A	M195(195x115mm)	137.6042 1/12
DOUBLE UNSWITCHED SOCKET			M95x2(195x95mm)	137.6002 1/12
SINGLE DP SWITCHSOCKET				137.6022 1/12
SINGLE SP SWITCHSOCKET	 BRITISH BS546	15A	M115(115x115mm)	137.6111 1/12
SINGLE UNSWITCHED SOCKET	 BRITISH BS1363	13A	M95(95x95mm)	137.6001 1/12

¹ RCD protection (passive)



PROTECTA Series
Surface mounting



BRITISH STANDARD 15A
Shuttered socket BS 546



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



IP66
Specifically high formulated gel seal to maintain protection degree when the plug is inserted

Wiring accessories PROTECTA Series



■ Surface mounting - IP66

PROTECTA Series

137.



Description	Dimension	Surface mounting box	
SURFACE MOUNTING BOX	M115(115x115mm)	137.103	1/12
	M195(195x115mm)		137.104 1/12
	M95(95x95mm)	137.101	1/12
	M95x2(195x95mm)	137.102	1/12

■ Flush mounting - IP66 >> Control devices

PROTECTA Series

137.



Description	Version	Current	Dimension	1 GANG	2 GANG
REVERSING SWITCH		10AX		137.3111	1/12
		20AX		137.3112	1/12
DP SWITCH		20A		137.3462	1/12
SP BELL PUSH SWITCH "BELL"		10A		137.3311B	1/12
SP BELL PUSH SWITCH "PRESS"	WITH NEON	10A	M95(95x95mm)	137.3311P	1/12
		20A		137.3312P	1/12
SP ONE WAY SWITCH		10AX		137.3011	1/12
		20AX		137.3012	1/12
SP TWO WAY SWITCH		10AX		137.3211	1/12
		20AX		137.3212	1/12
PUSH BUTTON SINGLE POLE 2 GANG		10A			137.3321 1/12

- Flush mounting: box not included.

4.7



Wiring accessories

PROTECTA Series

Flush mounting - IP66

PROTECTA Series

137.



Spur units

Description	Version	Current	Dimension	Spur units
SPUR UNIT	WITH FUSE AND SWITCH	13A	M115(115x115mm)	137.3410 1/12

- Flush mounting: box not included.

DOMESTIC

- 1
- 2
- 3
- 4



IP66
Specifically high formulated gel seal to maintain protection degree when the plug is inserted



RJ45
Standard Ethernet



ITALIAN STANDARD P17/11 16A (bivalente)
Shuttered socket CEI 23-50



FRENCH STANDARD 16A
Shuttered socket



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



SWISS STANDARD 10A
Unshuttered socket SEV 1011:1998



ARGENTINIAN STANDARD 10A
Unshuttered socket

Wiring accessories

PROTECTA Series



■ Flush mounting - IP66

PROTECTA Series

137.



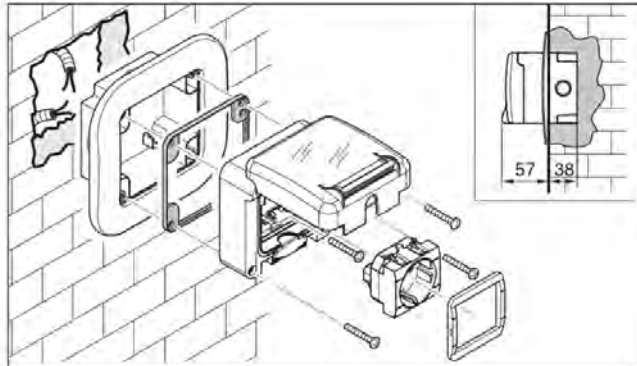
Modular socket outlets

Description	Version	Current	Dimension		
RJ45 OUTLET	RJ45			137.4481.50 ^[2]	1/12
GERMAN STANDARD SOCKET	GERMAN			137.4407	1/12
	GERMAN UNSHUTTER			137.4412 ^[1]	1/12
ITALIAN P30 STANDARD SOCKET	ITALIAN P30	16A		137.4404	1/12
ITALIAN P17/11 STANDARD SOCKET	ITALIAN P17/11 (DUAL USE)		M95(95x95mm)	137.4403	1/12
FRENCH STANDARD SOCKET	FRENCH			137.4411	1/12
ARGENTINIAN STANDARD SOCKET	ARGENTINE			137.4424	1/12
NEOZELANDER STANDARD SOCKET	NEW ZELAND	10A		137.4427	1/12
SWISS STANDARD SOCKET	SWISS			137.4417	1/12
BRAZILIAN STANDARD SOCKET	BRAZILIAN			137.4421	1/12

[1] Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

[2] RJ45 - Cat.5E

- Flush mounting: box not included.



PROTECTA Series
Flush mounting



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002



NEW ZEALAND STANDARD 10A
Unshuttered socket AS/NZS 3112



GERMAN STANDARD 16A
Unshuttered socket



4.7

Wiring accessories

PROTECTA Series

Flush mounting - IP66

PROTECTA Series

137.



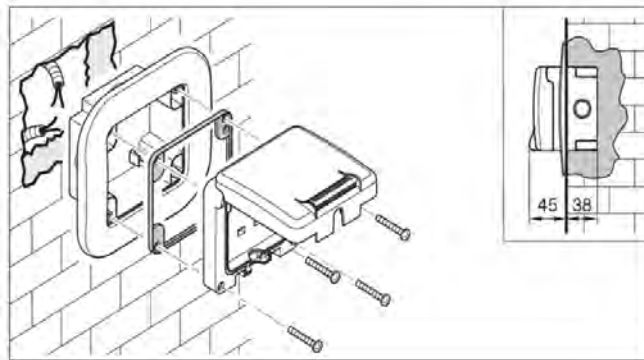
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DOMESTIC

Description	Version	Current	Dimension	BS socket outlets
13A SOCKET + 20A DP SWITCH			M95x2(195x95mm)	137.4003 1/12
DOUBLE DP SWITCHSOCKET	BRITISH BS1363	13A	M195(195x115mm)	137.4042 1/12 137.4043 ^[1] 1/12
DOUBLE UNSWITCHED SOCKET			M95x2(195x95mm)	137.4002 1/12
SINGLE DP SWITCHSOCKET				137.4022 1/12
SINGLE SP SWITCHSOCKET	BRITISH BS546	15A	M115(115x115mm)	137.4111 1/12
SINGLE UNSWITCHED SOCKET	BRITISH BS1363	13A	M95(95x95mm)	137.4001 1/12

[1] RCD protection (passive)

- Flush mounting: box not included.



PROTECTA Series
Flush mounting (BS standard)



BRITISH STANDARD 15A
Shuttered socket BS 546



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



IP66
Specifically high formulated gel seal to maintain protection degree when the plug is inserted

Wiring accessories

PROTECTA Series



Flush mounting - IP66

PROTECTA Series

137.



Description	Dimension	Flush mounting box	
FLUSH MOUNTING BOX	M115(115x115mm)	137.123	1/12
	M195(195x115mm)		137.124 1/12
	M95(95x95mm)	137.121	1/12
	M95x2(195x95mm)	137.122	1/12



APPLICATION EXAMPLE

4.7



Wiring accessories

PROTECTA Series

■ Flush mounting - IP66

PROTECTA Series

137.

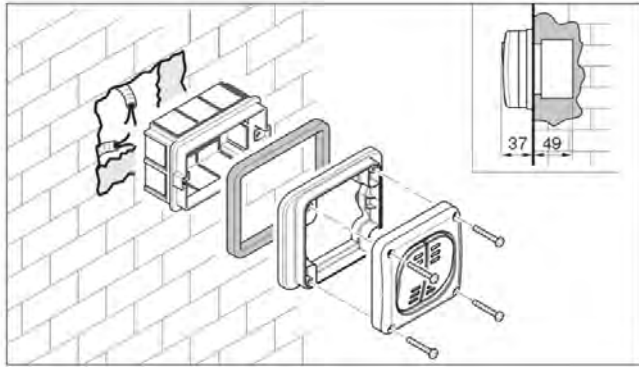


1
2
3
4

DOMESTIC

Description	Dimension	Adapter M95
ADAPTOR	M95(95x95mm)	137.125 12/120

- The IP55 degree of protection is obtained with the cover closed and with the item installed on smooth, impermeable walls without grooves (smooth tiles, marble).



PROTECTA Series
Flush-mounting box adapter

Wiring accessories

PROTECTA Series



■ Flush mounting - IP66

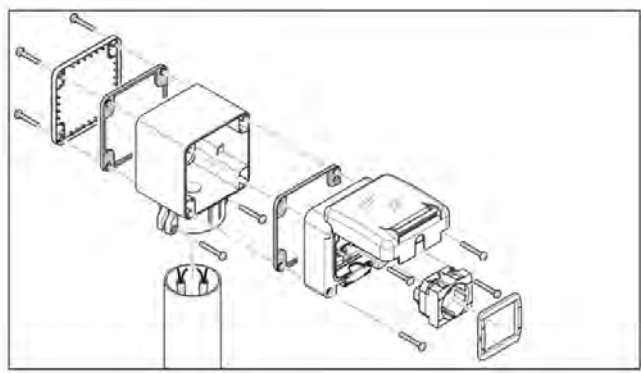
PROTECTA Series

137.

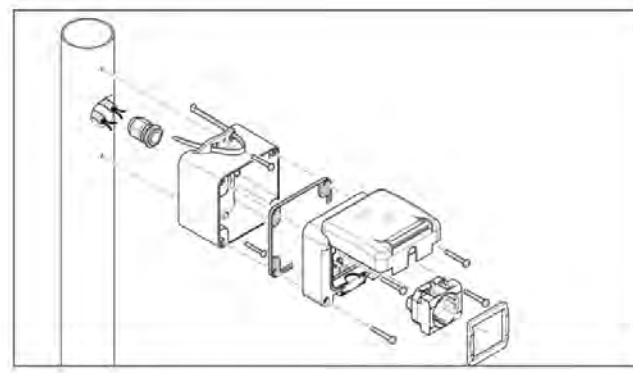


Description	Dimension	Box	
TOP POLE ENCLOSURE	M95(95x95mm)	137.131	1/12
SIDE BY SIDE POLE		137.141	1/12

- Accepts SCAME EVOLUTION Series inserts.



PROTECTA Series
Pole-top mounting



PROTECTA Series
Pole side by side mounting

4.7



Wiring accessories

PROTECTA Series

Flush mounting - IP66

PROTECTA Series

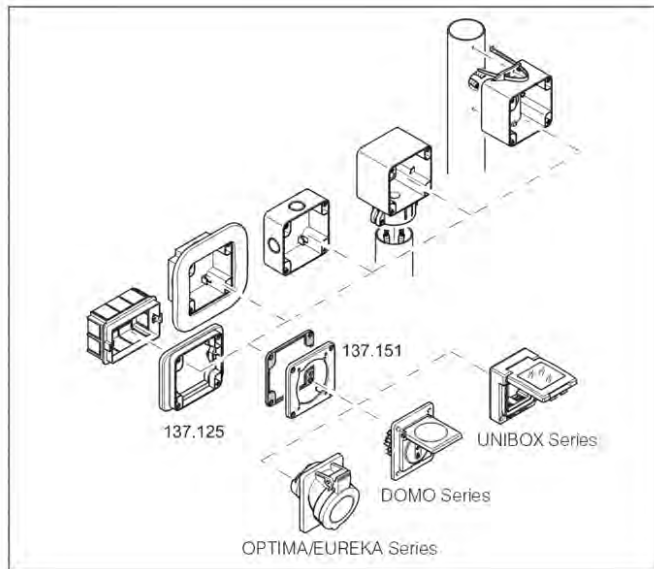
137.



Adapter 70x87mm

Description	Dimension	Adapter 70x87mm
PRE DRILLED COVER WITH FLANGE - 70x87mm cut-outs	M95(95x95mm)	137.151 1/12

DOMESTIC



PROTECTA Series
Cover for M95 boxes with 70x87mm predrilling

Wiring accessories

PROTECTA Series



■ Flush mounting - IP66

PROTECTA Series

137.



Description	Dimension	Empty enclosure	
EMPTY ENCLOSURE	M95(95x95mm)	137.001 1/12	137.002 1/12

- Accepts SCAME EVOLUTION Series inserts.

PROTECTA Series

137.



Description	Accessories	
EARTH TERMINAL	137.201 10/100	
LED 220V	137.200 10/100	
TPE SEAL		137.202 10/100

4.7



Wiring accessories

UNIBOX Series [+EVOLUTION]

■ Empty box (surface mounting)

UNIBOX Series

136.



Without cover - IP40

COVER FLANGE FOR MODULAR DEV.

IP40

No. Modules	Colour	68x82x52mm	98x82x52mm	137x82x66mm	198x82x66mm
1 MOD.	■	👍 136.4121 5/100			
2 MOD.	■		👍 136.4122 5/100		
3 MOD.	■			👍 136.4123 3/60	
2+2 MOD.	■				👍 136.4124 1/24
3+3 MOD.	■				👍 136.4126 1/16

- Accepts SCAME EVOLUTION Series inserts.
- Glow-wire test: 650°C.
- Wall-mounting enclosures
- Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.
- Note: Versions pre-fitted with EVOLUTION Series inserts in RAL 7035 grey available upon request.

UNIBOX Series

136.



With cover - IP55 Soft transparent membrane

COVER FLANGE FOR MODULAR DEV.

IP55

No. Modules	Colour	68x82x66mm	98x82x66mm	137x82x66mm	198x82x66mm
1 MOD.	■	👍 136.5121 5/80			
2 MOD.	■		👍 136.5122 5/80		
3 MOD.	■			👍 136.5123 3/60	
2+2 MOD.	■				👍 136.5124 1/24
3+3 MOD.	■				👍 136.5126 1/16

- Accepts SCAME EVOLUTION Series inserts.
- Glow-wire test: 650°C.
- Wall-mounting enclosures
- Cable inlet: 3 knock-outs Ø23 mm and one with cable gland PG16.
- Note: Versions pre-fitted with EVOLUTION Series inserts in RAL 7035 grey available upon request.

DOMESTIC

Wiring accessories UNIBOX Series [+EVOLUTION]

SCAME

■ Preassembled box

UNIBOX Series

136.



IP40 - 3 MOD

IP	Dimension	No. Modules	Colour	Volt	Switches	Sockets	COVER FLANGE FOR MODULAR DEV.	
							Part No.	Quantity
IP40	98x82x52mm	3 MOD.	■	250V	1x16AX 1W S.P. SWITCH	1x13A BRITISH SOCKET	136.4123-413	50
						1x15A BRITISH SOCKET	136.4123-414	50
						1x16A FRENCH SOCKET	136.4123-411	50
						1x16A GERMAN SOCKET	136.4123-412	50

UNIBOX Series

136.



IP55 - 1 MOD

IP	Dimension	No. Modules	Colour	Volt	Switches	Sockets	COVER FLANGE FOR MODULAR DEV.	
							Part No.	Quantity
IP55	68x82x66mm	1 MOD.	■	250V	1x16AX 1W S.P. SWITCH	1x16A SUISSSE SOCKET	136.5121-303	32/128
					1x16AX 2W S.P. SWITCH		136.5121-323	32/128
					1x16A S.P. PUSH BUTTON		136.5121-333	32/128
					1x20A D.P. SWITCH		136.5121-302	32/128
					1x20A D.P. SWITCH WITH NEON		136.5121-304	32/128

4.7



Wiring accessories

UNIBOX Series [+EVOLUTION]

■ Preassembled box

1
2
3
4

DOMESTIC

UNIBOX Series

136.



IP55 - 2 MOD

IP	Dimension	No. Modules	Colour	Volt	Switches	Sockets	COVER FLANGE FOR MODULAR DEV.
IP55	68x82x66mm	2 MOD.	■	250V	2x16AX 1W S.P. SWITCH	1x13A BRITISH SOCKET	136.5122-303 32/128
					2x16AX 2W S.P. SWITCH	1x15A BRITISH SOCKET	136.5122-323 32/128
						1x16A FRENCH SOCKET	136.5122-413 32/128
						1x16A GERMAN SOCKET	136.5122-414 32/128
						1x16A GERMAN SHUTTERED SOCKET	136.5122-411 32/128
						1x16A GERMAN SOCKET	136.5122-412 32/128
						1x16A GERMAN SHUTTERED SOCKET	136.5122-407 32/128
						1x10A NEW ZEALAND SOCKET	136.5122-427 32/128
						1x6-16A INDIAN SOCKET	136.5122-429 32/128

UNIBOX Series

136.



IP55 - 3 MOD

IP	Dimension	No. Modules	Colour	Volt	Switches	Sockets	COVER FLANGE FOR MODULAR DEV.			
IP55	98x82x66mm	3 MOD.	■	250V	3x16AX 1W S.P. SWITCH	1x13A BRITISH SOCKET	136.5123-303 24/96			
					3x16AX 2W S.P. SWITCH	1x15A BRITISH SOCKET	136.5123-323 24/96			
						1x16A FRENCH SOCKET	136.5123-413 24/96			
						1x16A GERMAN SOCKET	136.5123-414 24/96			
						1x16A GERMAN SHUTTERED SOCKET	136.5123-411 24/96			
						1x16A GERMAN SOCKET	136.5123-412 24/96			
						1x16A GERMAN SHUTTERED SOCKET	136.5123-407 24/96			
						1x6-16A INDIAN SOCKET	136.5123-429 24/96			

Wiring accessories UNIBOX Series [+EVOLUTION]



■ Preassembled box

UNIBOX Series

136.



IP55 - 2+2 MOD

IP	Dimension	No. Modules	Colour	Volt	Switches	Sockets	COVER FLANGE FOR MODULAR DEV.
IP55	137x82x66mm	2+2 MOD.	■	250V	1x16AX 1W S.P. SWITCH	2x13A BRITISH SOCKET	136.5124-413 1/24
						2x16A FRENCH SOCKET	136.5124-411 1/24
						2x16A GERMAN SOCKET	136.5124-412 1/24
						2x16A GERMAN SHUTTERED SOCKET	136.5124-407 24
						4x16AX 1W S.P. SWITCH	136.5124-303 1/24
					4x16AX 2W S.P. SWITCH	136.5124-323 1/24	

UNIBOX Series

136.



IP55 - 3+3 MOD

IP	Dimension	No. Modules	Colour	Volt	Switches	Sockets	COVER FLANGE FOR MODULAR DEV.
IP55	198x82x66mm	3+3 MOD.	■	250V	1x16AX 1W S.P. SWITCH	2x13A BRITISH SOCKET	136.5126-413 1/16
						2x16A FRENCH SOCKET	136.5126-411 1/16
						2x16A GERMAN SOCKET	136.5126-412 1/16
						2x16A GERMAN SHUTTERED SOCKET	136.5126-407 16
						6x16AX 1W S.P. SWITCH	136.5126-303 1/16
					6x16AX 2W S.P. SWITCH	136.5126-323 1/16	

4.7



Wiring accessories

UNIBOX Series [+EVOLUTION]

■ Empty box (panel mounting)

UNIBOX Series

136.



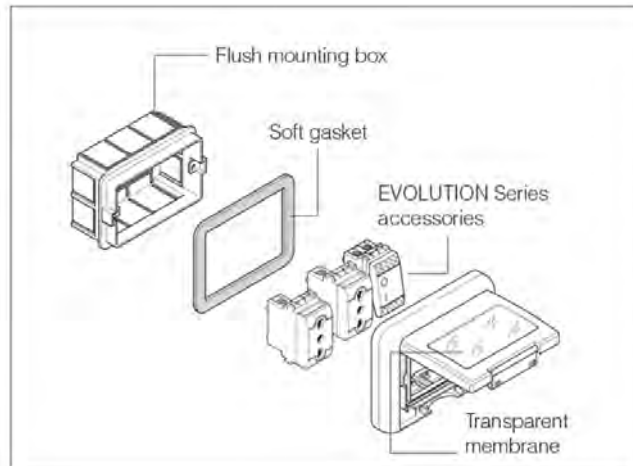
[UNIBOX]

FLUSH MOUNTING FRAME

IP55

Dimension	No. Modules	Colour		
120x98x28mm	3 MOD.		 136.5023	85
			 136.5023.AT	85

- The IP55 protection degree becomes IP20 when the cover is open.



UNIBOX Series

Examples of installation (wall housing - IP55)

1

2

3

4

DOMESTIC

Wiring accessories

UNIBOX Series [+EVOLUTION]



■ Empty box (panel mounting)

ENCLOSURES ACCESSORIES

654.

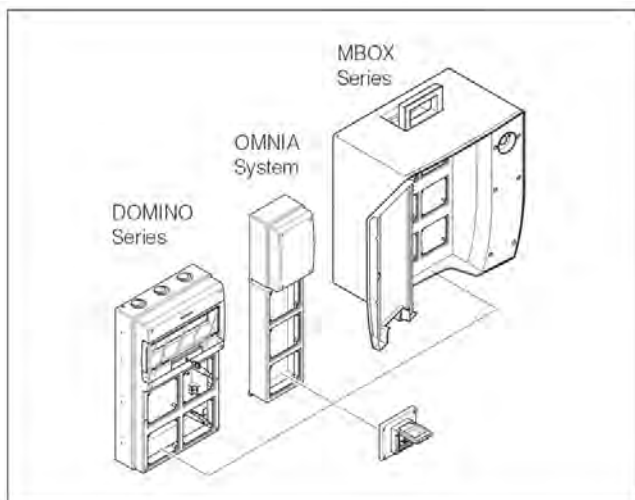


[OMNIA]

Suitable for	Colour	IP	COVER WITH INSERT	
EVOLUTION	■	IP55	136x125mm	
BTICINO			654.0122	6
			654.0121 ¹	6

¹ Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.

- Modules snap into place.



OMNIA Series
Examples of installation (flange 136x125mm)

4.7



Wiring accessories UNIBOX Series [+EVOLUTION]

■ Empty box (panel mounting)

DOMO Series

570.



[DOMO]

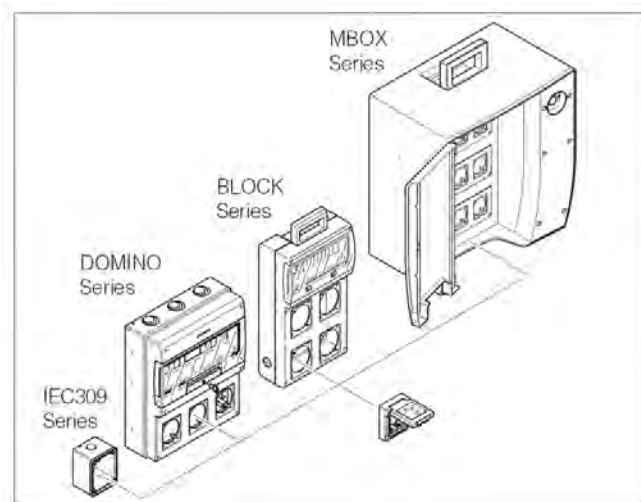
FLUSH MOUNTING FRAME

70x87mm

IP	Suitable for	Colour		
IP55	EVOLUTION	■	570.5052	10/100
	BTICINO		570.5012 ^[1]	10/100

[1] Manufactured with the authorization from Bticino spa company and is suitable to house "Living International", "Luna", "Light" and "Light Tech" modules which are registered trademarks owned by Bticino.

- Modules snap into place.



DOMO Series
Examples of installation (flange 70x87mm)

Wiring accessories

UNIBOX Series [+EVOLUTION]



Enclosures for wiring accessories

UNION Series	ENCLOSURES ACCESSORIES	UNIBOX Series
805.	654.	136.



Accessories For wall version

Colour	IP	Version	COUPLER	SEALING CAPS (12 pz.)	EARTH TERMINAL	WALL MOUNTING BRACKETS KIT
■	IP66	LIGHT	805.3334 10/50			
				654.0080 ¹⁾ 10/100		136.001 10
					654.0376 20/200	

¹⁾ For providing total insulation e according to EN 60439-1.
- Only for surface mounting enclosure.

4.7



Wiring accessories

EVOLUTION Series

■ Devices >> Covers and plates for push button

EVOLUTION Series

101.



Description	Colour	Blank cover	Cable outlet
BLANK COVER 1 GANG		101.6201.G 100/800	
CABLE OUTLET 1 GANG			101.6203.G 100

DOMESTIC

1
2
3
4

■ Devices >> Control devices

EVOLUTION Series

101.



Description	Version	Current	Volt	Colour	Switches
ONE WAY SWITCH	DOUBLE POLE	16AX	250V		101.6302.G 12/480
		20AX			101.6304.G 12/480
	SINGLE POLE	16AX			101.6302.20G 12/480
		20AX			101.6304.20G 12/480
	SINGLE POLE WITH KEY	16AX			101.6303.G 12/480
		16A			101.6303.20G 12/480
				101.6301K.G 6/240	

Neon available as accessory.

Neon included

EVOLUTION Series

101.



Description	Version	Current	Volt	Colour	Reversing switch
REVERSING SWITCH	SINGLE POLE	16AX	250V		101.6311.G 12/480

Neon available as accessory.

Wiring accessories EVOLUTION Series

SCAME

■ Devices >> Control devices

EVOLUTION Series

101.



Description	Version	Current	Volt	Colour	Two way switch
TWO WAY SWITCH	SINGLE POLE	16AX	250V		101.6323.G 12/480

Neon available as accessory.

EVOLUTION Series

101.



Description	Version	Current	Volt	Colour	Push button (NO)
PUSH BUTTON	DOUBLE POLE	16A	250V		101.6332.G 12/480
					101.6334.G 12/480
	SINGLE POLE	101.6333.G 12/480			
	FOR SHUTTERS - SINGLE POLE	10A			101.63312.G 12/480
	CORD OPERATED	16A			101.6331T.G 6/240

Neon available as accessory.

Neon included

EVOLUTION Series

101.



Description	Poles	Current	Volt	Colour	Miniature circuit breakers (MCB) 3kA
MCB	1P+N	6A	250V		101.6340.06G 12/480
		10A			101.6340.10G 12/480
		16A			101.6340.G 12/480

4.7



Wiring accessories

EVOLUTION Series

Devices >> Control devices

EVOLUTION Series

101.



Miniature circuit breakers and residual current (RCBO) 3kA-10mA

Description	Poles	Current	Volt	Colour		
RCBO	1P+N	6A	250V		101.6341.06G	6/240
		10A			101.6341.10G	6/240
		16A			101.6341.G	6/240

EVOLUTION Series

101.



Description	Volt	Colour	Fuse holder	
FUSE HOLDER	250V		101.6345.G	12/480

- Fuse 6,3x32



ITALIAN STANDARD P17/11 16A (bivalente)
Shuttered socket CEI 23-50



FRENCH STANDARD 16A
Shuttered socket



BRITISH STANDARD 15A
Shuttered socket BS 546



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 16A
Shuttered socket



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



SWISS STANDARD 10A
Unshuttered socket SEV 1011:1998

Wiring accessories

EVOLUTION Series



■ Devices >> Socket-outlets

EVOLUTION Series

101.



Description	Version	Poles	Current	Volt	Colour	For energy (european standard)
SOCKET	ITALIAN P17/11 (DUAL USE)	2P+E	16A	250V	Red	101.6403.R 12/480
					Green	101.6403.G 12/480
	FRENCH		Grey		101.6411.G 6/240	
	BRITISH BS546		15A		Grey	101.6414.G 6/240
	GERMAN		Red		101.6407.R 6/240	
			Grey		101.6407.G 6/240	
	ITALIAN P30		Red		Green	101.6404.R 6/240
			Grey		Green	101.6404.G 6/240
	ITALIAN P40		Red		101.6405.R 6/240	
			Grey		101.6405.G 6/240	
	BRITISH BS1363		13A		Grey	101.6413.G 6/240
	SWISS		10A		Grey	101.6417.G 12/480
	ITALIAN P11		10A		Green	101.6401.G 12/480
	ITALIAN P17		10A		Green	101.6402.G 12/480
GERMAN UNSHUTTER	16A	Red	101.6412.R ¹ 6/240			
	16A	Grey	101.6412.G ¹ 6/240			

¹ Shutterless socket, subject to normative restrictions or prohibitions in Europe or in other geographical areas. Check the national laws prior to using or installing it.

4.7



**ITALIAN STANDARD
P11 - 10A**
Shuttered socket CEI 23-50



**ITALIAN STANDARD
P17 - 16A**
Shuttered socket CEI 23-50



**GERMAN STANDARD
16A**
Unshuttered socket

Wiring accessories

EVOLUTION Series

Devices >> Socket-outlets

EVOLUTION Series

101.



1
2
3
4

DOMESTIC

Description	Version	Poles	Current	Volt	No. Modules	Colour	For energy (international standard)
SOCKET	EUROAMERICAN	2P	15A		1 MOD.		101.6423.G 12/480
ARGENTINIAN STANDARD SOCKET	ARGENTINE		10A				101.6425.G 12/480
			20A				101.6424.G 6/240
NEOZELANDER STANDARD SOCKET	NEW ZELAND	2P+E	10A	250V	2 MOD.		101.6426.G 6/240
SOUTH AFRICAN STANDARD SOCKET	SOUTH AFRICAN		16A				101.6427.G 6/240
INDIAN STANDARD SOCKET	INDIAN		6A 16A				101.6428.G 6/240
BRAZILIAN STANDARD SOCKET	BRAZILIAN		10A		1 MOD.		101.6429.G 6/240
							101.6421.R 12/480
							101.6421.G 12/480

EVOLUTION Series

101.



Description	Version	Current	Volt	No. Modules	Colour	DIN rail
INDICATOR UNIT				1 MOD.		101.6541.2GD 6
RJ45 OUTLET						101.6481.50GD 6
GERMAN STANDARD SOCKET		16A		2 MOD.		101.6407.GD 6
ITALIAN P40 STANDARD SOCKET						101.6405.GD 6
SINGLE UNSWITCHED SOCKET	DIN	13A				101.6413.GD 6
ITALIAN P17/11 STANDARD SOCKET		16A	250V	1 MOD.		101.6403.GD 6
FRENCH STANDARD SOCKET						101.6411.GD 6
ARGENTINIAN STANDARD SOCKET		10A		2 MOD.		101.6424.GD 6
SOUTH AFRICAN STANDARD SOCKET		16A				101.6428.GD 6
SWISS STANDARD SOCKET		10A		1 MOD.		101.6417.GD 6

Neon available as accessory.

- Insert mounted on DIN support.



EURO-AMERICAN STANDARD 15A
Shuttered socket



ARGENTINIAN STANDARD 10A
Unshuttered socket



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002



NEW ZEALAND STANDARD 10A
Unshuttered socket AS/NZS 3112



SOUTH AFRICAN STANDARD 16A
Shuttered socket SANS 164-1 (2006)



INDIAN STANDARD 6/16A
Shuttered socket IS 1293:1988

Wiring accessories

EVOLUTION Series



■ Devices >> Socket-outlets

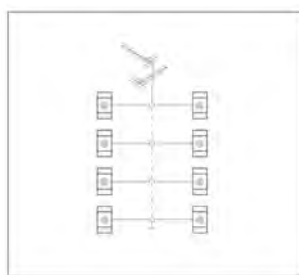
EVOLUTION Series

101.

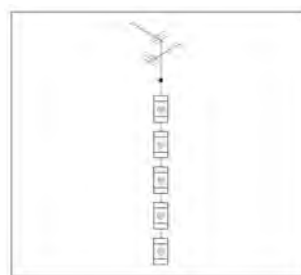


Description	Version	Colour	TV/SAT outlets
TV OUTLET	MALE	■	101.6431.01G ^[1] 12/480
			101.6431.10G ^[2] 12/480
			101.6431.G ^[3] 12/480
FM OUTLET	FEMALE	■	101.6431.10 ^[2] 12/480
			101.6432.01G 12/480
			101.6432.10G 12/480
SAT OUTLET		■	101.6432.G 12/480
TV-SAT OUTLET		■	101.6433.G 12/480
			101.6434.G 6/240

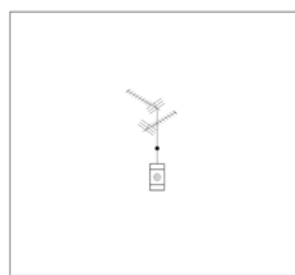
- [1] Terminal 75Ω
- [2] Attenuation 10dB
- [3] Direct



EVOLUTION Series
Terminal



EVOLUTION Series
Attenuation



EVOLUTION Series
Direct

4.7



Wiring accessories

EVOLUTION Series

■ Devices >> Socket-outlets

EVOLUTION Series

101.



1
2
3
4

DOMESTIC

Description	Version	Poles	Volt	Colour	Telephone outlets
RJ11 OUTLET	TWIN				101.6462.64G 12/480
	6/4 PLUG				101.6461.64G 12/480
TELEPHONE OUTLET		2P	48V		101.6464.G 12/480

EVOLUTION Series

101.



Description	Version	Colour	Data communication outlets (RJ45 - plug 8/8)
RJ45 OUTLET	CAT.5 UNSHIELDED (UTP)		101.6481.50G 6/240
	CAT.5 SHIELDED (FTP)		101.6481.51G 6/240
	CAT.6 UNSHIELDED (UTP)		101.6481.60G 6/240
	CAT.6 SHIELDED (FTP)		101.6481.61G 6/240

■ Devices >> Signal devices

EVOLUTION Series

101.



Description	Colour	Indicator units
INDICATOR UNIT		101.6541.1G 12/480
		101.6541.2G 12/480
		101.6541.3G 12/480
		101.6542.G 12/480

✍ Neon included

Wiring accessories
EVOLUTION Series



■ Support and accessories

EVOLUTION Series

101.



Description	Volt	Colour	Neon lamps	
NEON LAMPS	12V	NEUTRAL	101.6200.12	100
	24V		101.6200.24	100
	110V		101.6200.11	100
	230V		101.6200	100

4.7



Wiring accessories

EVOLUTION Series

Support and accessories

ENCLOSURES ACCESSORIES

654.



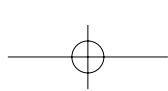
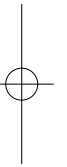
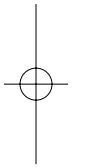
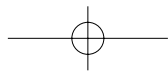
- 1
- 2
- 3
- 4

DOMESTIC

Description	Suitable for	Support DIN	
DIN RAIL BRACKET	1 x EVOLUTION	654.0091	12/120
	2 x EVOLUTION	654.0092	12/120



EVOLUTION Series
EVOLUTION Series module mounted on DIN rail support







**GENERAL
CATALOGUE
2016-2018**
technical sheets

Index

General technical informations

(in alphabetical order)

A



ADAPTO Series
Industrial adaptors



ADVANCE 2 Series
Interlocked switch
socket outlets



ADVANCE 2 System
Modular system



ADVANCE-GRP System
Switched interlocked
socket outlets



ADVANCE-GRP[AMR] System
Automated meter reading



ADVANCE-GRP[EX] Series



ADVANCE-GRP[GD] Series



ALUBOX Series
Junction boxes
for electrical installations



ALUBOX-EX Series



AUTOROLLER Series
Cable reels
with automatic rewind



AZZURRA Series
Domestic plugs, sockets,
adaptors and multi-outlet
sockets

B



BEEBOX Series
Empty distribution
assemblies



BLOCK Series
Distribution assemblies



BLUELINE Series
Domestic plugs, sockets,
adaptors and multi-outlet
sockets

C



CABLO Series
Only available on the internet
web site www.scame.com



COMMAND Series
Rotary switches



CONNECTO Series
Connecting accessories



CUBIK Series
Junction boxes
forelectrical installations



CUBOX Series
Junction boxes for electrical
installations

D



DATATEL Series
Components for TV/SAT,
telephone installations
and category 5E



DOMINO Series
Consumer units
and enclosures



DOMO Series
Sockets for
domestic applications



DOMOPLUS Series
Domestic standard sockets
for industrial applications

E


EASYBOX Series
Weather-proof enclosures



EMERGENCY Series
Emergency call points



ENERBOX Series
Distribution assemblies



EUREKA Series
Industrial plugs and sockets



EUREKA [PIN&SLEEVE] Series
Heavy duty industrial
plugs and sockets



EVOLUTION Series
Plates and devices



EVOLVE Series


F


FASTY Series
Only available on the internet
web site www.scame.com



FIXER Series
Conduit fixing accessories



FIXO Series
Only available on the internet
web site www.scame.com



FLAT Series
Flush mounting
consumer units

G


GEA Series



GOMMA Series
Distribution assemblies

H


HALE Series
Light fittings



HYDRA Series
Light fittings

I


IEC309 Series
Only available on the internet
web site www.scame.com



INNOVA Series



ISOLATORS-AL Series
Aluminium enclosure
16A-160A



ISOLATORS-EX Series



ISOLATORS-EX [GD] Series



ISOLATORS-HD Series
Heavy duty engineering
plastic insulated enclosure
20A-40A



ISOLATORS-HR Series
High rating hinged sheet steel
enclosure - 200A-1600A



ISOLATORS-INOX Series
Stainless steel enclosure
16A-160A



ISOLATORS-PH Series
Photovoltaic/dc switch
disconnectors thermoplastic
insulated enclosure
10A-40A (800V DC)

Index



ISOLATORS-SWITCH Series
Enclosed change-over switches I/O/II - 16A-160A



ISOLATORS-TP Series
Thermoplastic insulated enclosure - 16A-160A

K



KIOSK Series
Distribution pedestals terminals



KOMPAS Series



L



LIBERA Series



LUX Series
Lampholder



LUXURY Series



LV-LUX Series
Only available on the internet web site www.scame.com

M



MBOX Series
Distribution assemblies



MEGA Series
Distribution assemblies



METALCLAD Series



MIZAR Series
Light fittings

N



NEXTA Series



O



OMNIA Series
Interlocked switch socket outlets



OMNIA System
Flush and surface mounting modular system



OMNIPLUS Series
Domestic interlocked socket



OPTIMA Series
Industrial plugs and sockets



OPTIMA-BASE-TOP-COMBI Series
Industrial surface mounting socket outlets



OPTIMA-EX Series



OPTIMA-EX[GD] Series



OPTIMA-HD Series
Plugs and connectors for demanding applications



OPTIMA-METAL Series
Screened, dust and watertight metallic connectors



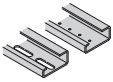
OPTIMA-REVERSE Series
Plugs with phase inverters



OPTIMA-SEVEN Series
Industrial plugs and sockets

P


PROTECTA Series
Weatherproof switches and sockets

R


RAILDIN Series
Only available on the internet web site www.scame.com



ROLLER Series
Industrial cable reels

S


SALVAMOTORE Series
Only available on the internet web site www.scame.com



SCABOX Series
Junction boxes for electrical installations



SICURA Series
Multi-outlet sockets



SMART Series
Conduit installation accessories



SPYROS Series
Only available on the internet web site www.scame.com

T


TIES Series
Cable ties



TOP22 Series
Control and signalling accessories



TRANSFORMER Series
Only available on the internet web site www.scame.com



TREND Series
Multi-outlet sockets



TRIS Series
Domestic cable reels



TUBE Series
Conduit installation accessories

U


UNEL Series
Domestic plugs and sockets



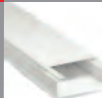
UNIBOX Series
Enclosure for wiring accessories



UNION Series
Cable glands



UNION-EX Series


W


WADO Series
Trunking Systems



WBOX Series
Flush mounting boxes

X


XENIA Series
Industrial plugs and sockets

Z


ZENITH-P Series



Note: all technical sheets are also available on the internet web-site www.scame.com in the section "InfoTECH".

General technical informations

DEGREES OF PROTECTION FOR ENCLOSURES (IP CODE) EN 60529

These standards apply to enclosures for electrical material with a rated voltage not exceeding 72.5 KV.

The second edition of these standards does generally change the IP degrees, but clarifies some aspects that were not completely clear in the previous edition.

According to these standards, the IP degree of protection should be used exclusively with the 2 defining numbers and the additional letters provided for by the standards.

These are defined as follows:

1ST NUMBER

Protection for people from contact with hazardous parts (see also ADDITIONAL LETTER) and protection of equipment from the entry of solid foreign bodies.

2ND NUMBER

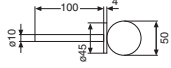
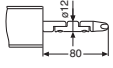
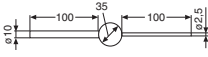
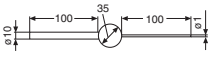
Protection of equipment from water entry.

IP	Solid foreign objects	Access to hazardous parts	
0			No protection
1			Protection from solid objects larger than 50 mm (eg accidental contact of the hand)
2			Protection from solid objects larger than 12 mm (eg the finger of a hand)
3			Protection from solid objects larger than 2.5 mm (eg tools, wires)
4			Protection from solid objects larger than 1 mm (eg fine tools and small wires)
5			Protection from dust (no harmful deposits)
6			Completely protected from dust

IP	Test	
0		No protection
1		Protected from vertically falling water drops
2		Protected from vertically falling water drops at up to 15° from the vertical
3		Protected from vertically falling water drops at up to 60° from the vertical (rain)
4		Protected from splashing water in all directions
5		Protected from jets of water in all directions
6		Protected from jets of water similar to heavy seas
7		Protected from the effects of immersion
8		Protected from the effects of submersion
9		Protected from high pressure or high temperature jets of water

■ ADDITIONAL LETTER

To be used when the protection of people from hazardous parts is higher than that demanded by the first number for protection from the entry of solid objects.

Letter		Definition
A		Protected from access with the back of the hand . The access probe, spherical 50 mm Ø, should have adequate clearance from hazardous parts.
B		Protected from access with a finger . The joined test finger of 12 mm Ø and 80 mm long should have adequate clearance from hazardous parts.
C		Protected from access with a tool . The access probe of 2.5 mm Ø, 100 mm length should have adequate clearance from hazardous parts.
D		Protected from access with a wire . The access probe of 1.0 mm Ø, 100 mm length should have adequate clearance from hazardous parts.

■ SUPPLEMENTARY LETTER

Used to supply additional information about the material.

Letter	Definition
H	High-voltage apparatus
M	Tested for harmful effects due to water entry when the movable parts (eg the rotor of a rotating machine) are in motion.
S	Tested for harmful effects due to water entry when the movable parts (eg the rotor of a rotating machine) are stationary.
W	Suitable for use under specified weather conditions and provided with additional protective features or processes.

General technical informations

INDUSTRIAL PLUGS AND SOCKETS TO IEC 60309 RATED OPERATING VOLTAGE >50 V

Clock face position

Viewing the socket from the front, the clock face position **h** is established by observing the position of the earth contact with respect to the major keyway, which is always situated at 6 o'clock.

The different voltages are identified by conventional colour codes.

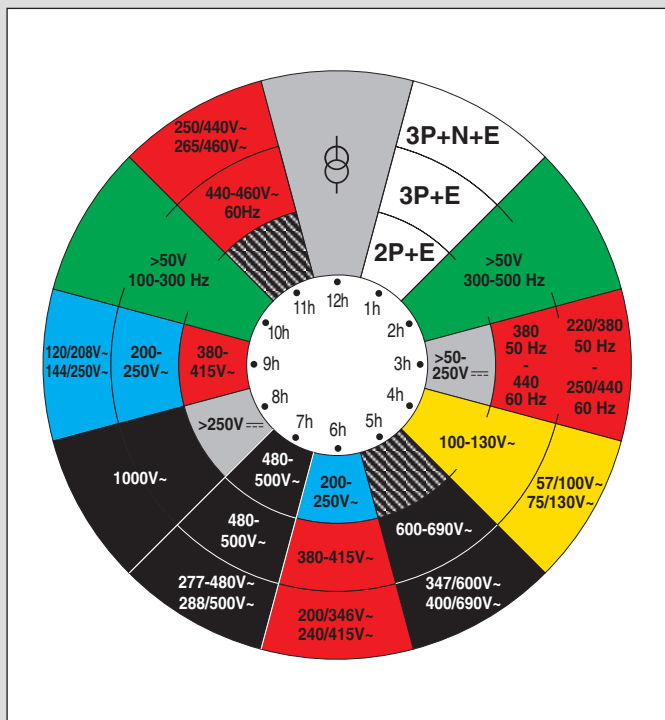
Clock reference:

All the versions required by the IEC 60309 standard are available, including the more specific:

Examples:

- standard use **h 6**
- refrigerated container **h 3**
- marine, port or ship installation **h 11**
- direct current (2P + E) **h 3 and 8**
- supply by isolation transformer (TST) **h 12**
- high frequency, from 100 to 300 Hz **h 10**
- high frequency, from 300 to 500 Hz **h 2**
- specific voltages 100 - 130V **h 4**
- 480 - 500V **h 7**
- 600 - 690V **h 5**

Clock position - IEC ratings - Series I



CLOCK DIAGRAM

Clock face position (**h**) of the earth pole of low voltage (>50 V) industrial plugs and sockets to IEC 60309-2 for different applications (polarity, voltage, frequency, current).

= Supply from isolation transformer

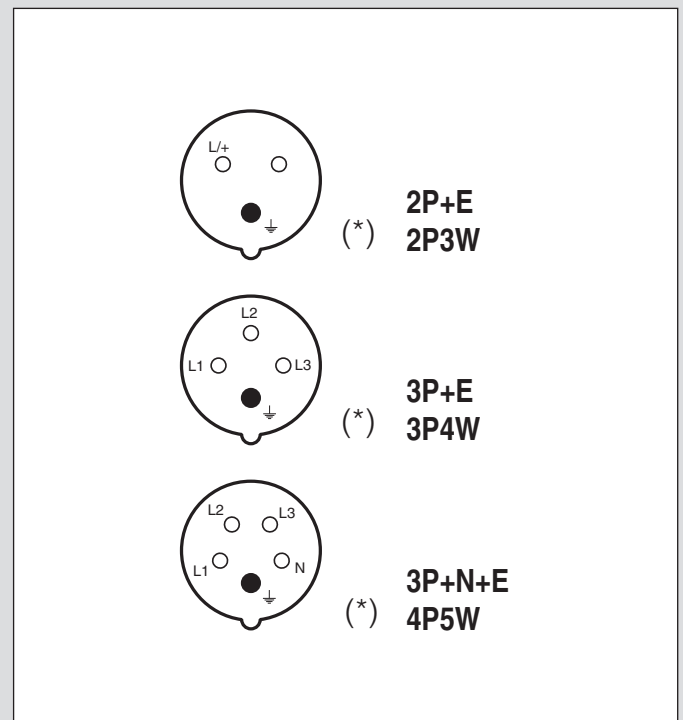
COLOUR CODE

The operating voltages are identified by conventional colours as shown in the table:

Rated operating voltage V	Colour 1)
from 20 to 25	Violet
from 40 to 50	White
from 100 to 130	Yellow
from 200 to 250	Blue
from 380 to 480	Red
from 500 to 1000	Black

1) Combinations of green with the colour of the rated operating voltage can be used to identify frequencies between 60 Hz and 500 Hz inclusive.































SOCKET (front view)



(*) Major keyway

SYNOPTIC TABLE OF STANDARD INDUSTRIAL PLUGS AND SOCKETS TO IEC 60309-2

Rated operating voltage > 50 V (LV)

Number of contact	Poles	Frequency Hz	Rated operating voltage V	Clock face pos. (h) Earth contact (1)		Colour code
				16/20A 32/30A	63/60A 125/100A	
3 Contact 2P3W	1P+N+E II Series	50 and 60	100÷130	4	4	
		60	277	5	5	
	2P+E I and II Series	50 and 60	100÷130	4	4	
			200÷250	6	6	
			380÷415	9	9	
			480÷500	7	7	
			suppl. by isol. transf.	12	12	- (5)
		100÷300	> 50	10	10	 (4)
	>300÷500	> 50	2	2	 (4)	
	d.c.	>50÷250	3	3	- (5)	
> 250		8	8	- (5)		
4 Contact 3P4W	2P+N+E II Series	50 and 60	125/250	12	12	
		50 and 60	100÷130	4	4	
	200÷250		9	9		
	380÷415		6	6		
	3P+E I and II Series	60	440÷460 (4)	11	11	
		50 and 60	480÷500	7	7	
			600÷690	5	5	
		50	380	3	3	
		60	440 (3)			
		50 and 60	1000	8	8	
100÷300	> 50	10	-	 (4)		
>300÷500	> 50	2	-	 (4)		
5 Contact 4P5W	3P+N+E I and II Series	50 and 60	57/100÷75/130	4	4	
			120/208÷144/250	9	9	
			200/346÷240/415	6	6	
			277/480÷288/500	7	7	
			347/600÷400/690	5	5	
		60	250/440÷265/460 (4)	11	11	
		50	220/380	3	3	
		60	250/440 (3)			
		50 and 60	1000	8	8	
		50 and 60	suppl. by isol. transf.	12	12	
100÷300	> 50	10	10	 (4)		
>300÷500	> 50	2	2	 (4)		
ALL TYPES	All types of voltage and/or frequency not within these standardised configurations		1	1	-	

(1) The positions shown by a dash (-) are not standardised

(2) For ISO standard refrigerated containers

(3) Mainly for shipboard installations

(4) Combinations of green with the colour of the rated operating voltage can be used to identify frequencies between 60 Hz and 500 Hz inclusive.

(5) Plugs and sockets for which the IEC 60309-2 standard sets only the clock face position (h) of the earth contact and not the colour, are supplied by SCAME in RAL 7035 grey

SERIES I AND SERIES II

Series I and Series II have more or less the same dimensions, but are classified according to different rated currents. For Series I, currents are 16A, 32A, 63A, and 125A and for Series II, rated currents are 20A, 30A, 60A and 100A.

Series I products are used in all European countries and some countries in South America, Asia, Australia and Africa. On the contrary, Series II products are mainly marketed in North America (USA, Mexico and Canada) and some countries in South America.















NOTE

• SCAME plugs and sockets for specific uses other than 4 - 6 - 9 h are available only on demand and are therefore not kept in stock. Minimum order quantities: 50 pieces.

General technical informations

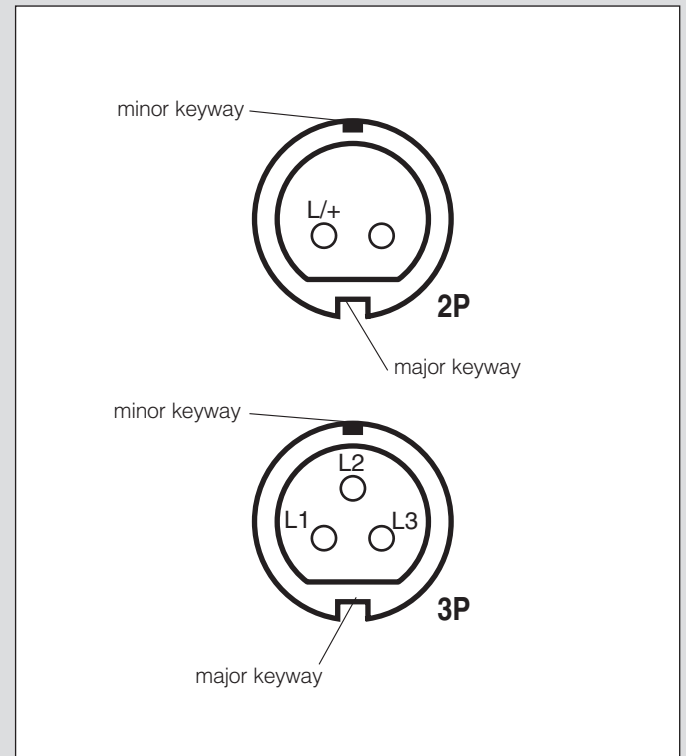
SYNOPTIC TABLE OF STANDARD INDUSTRIAL PLUGS AND SOCKETS TO IEC 60309-2

Rated operating voltage <50V~ (ELV)

Poles	Frequency Hz	Rated operating voltage V	Minor keyway (1) clock face position (h) 16A and 32A without reference	Colour code
2P	50 and 60	20÷25	without ref.	
	50 and 60	40÷50	12	
	100÷200	20÷25 e	4	 (2)
	300		2	 (2)
	400		3	 (2)
	>400÷500		11	 (2)
	c.c.		10	
3P	50 and 60	20÷25	without ref.	
	50 and 60	40÷50	12	
	100÷200	20÷25 e	4	 (2)
	300		2	 (2)
	400		3	 (2)
	>400÷500		11	 (2)
	c.c.		25	 (3)

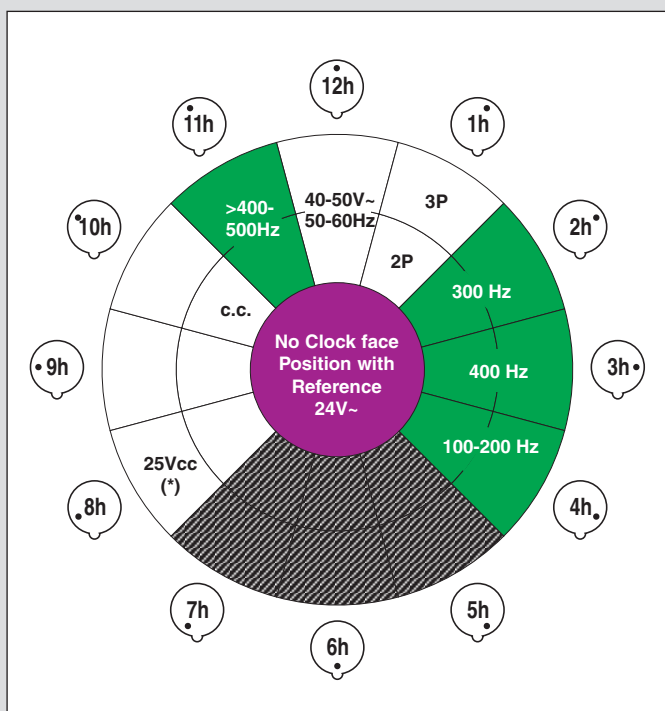
- (1) 1, 8 and 9 h positions are reserved for future standards; 5, 6 and 7 h positions cannot be used for reasons connected with the design.
 (2) Combinations of green with the colour of the rated operating voltage can be used to identify frequencies between 60 Hz and 500 Hz inclusive.
 (3) Portable electric incubators - use at 12 Vd.c. or 24 Vd.c. on ambulances or helicopters.

SOCKET (front view)



Clock face position

Viewing the socket from the front, the clock face position h is established by observing the position of the minor keyway with respect to the major keyway, which is always situated at 6 o'clock. The different voltages are identified by conventional colour codes.



Clock diagram

Clock face position (h) of the minor keyway of extra-low voltage (<50 V) industrial plugs and sockets to IEC 309-2 for different applications (polarity, voltage, frequency, current).

(*)

Portable electric incubators - use at 12 Vd.c. or 24 Vd.c. on ambulances or helicopters.

■ APPLICATIONS OF INDUSTRIAL PLUGS AND SOCKETS

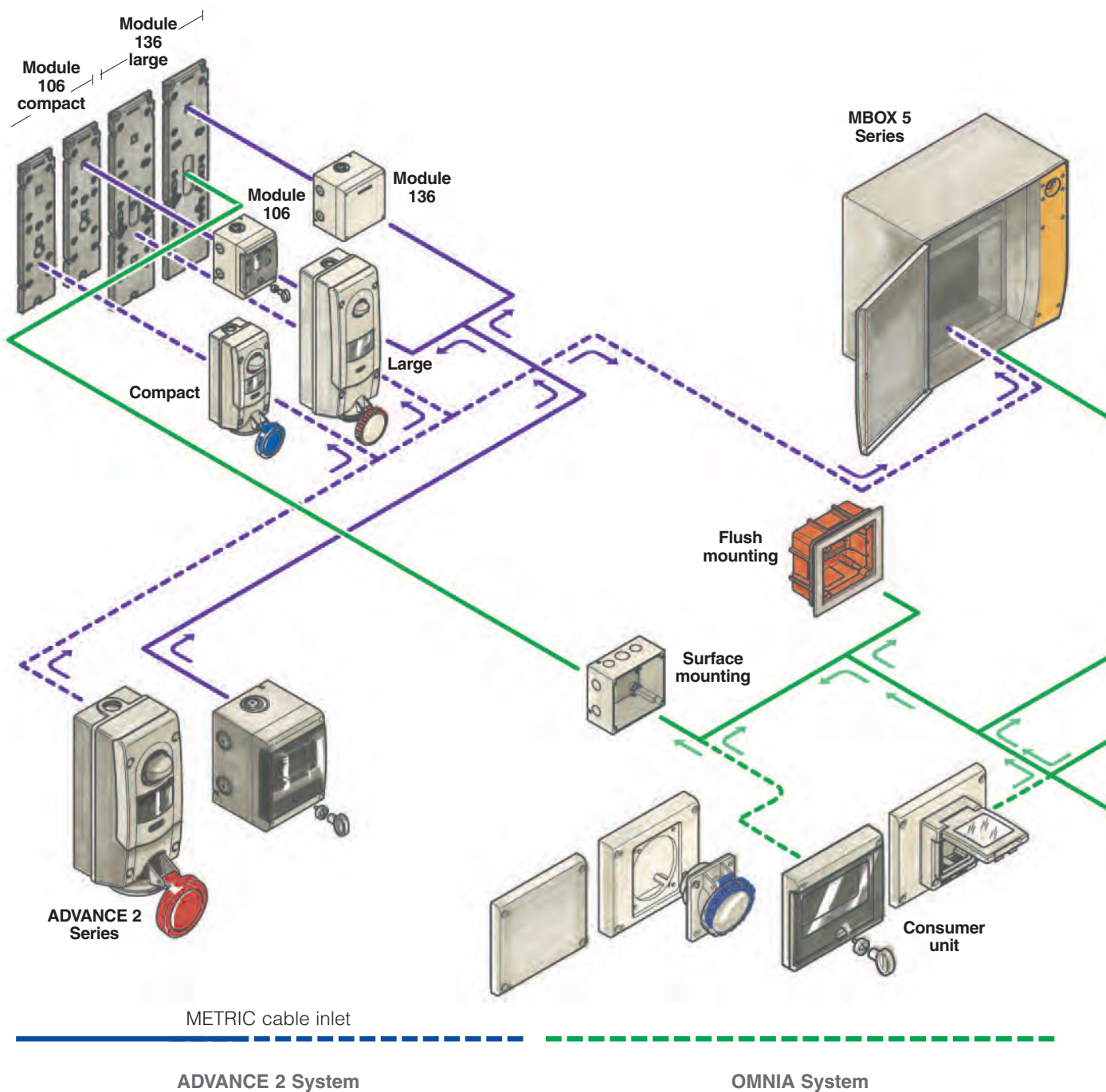
	IP44	IP67
Agriculture	Mobile or portable equipment or appliances used or stored on sheltered premises.	Outdoor installation of pumping, ventilation, drying equipment.
Chemical industry	Indoors on premises for storage and maintenance purposes where connections are not exposed to the risk of immersion or chemicals.	On premises without risk of explosions but where the connections are exposed to chemicals and subject to possible immersion.
Construction sites and shipyards	On covered construction sites sheltered against weathering but exposed to splashing with water.	On outdoor construction sites where the connections are left on damp ground exposed to freezing, dust and weathering.
Sports complexes and other places of public entertainment, TV and film studios	On sheltered premises protected against the weather, though exposed to splashing, without high connected loads.	Outdoor connections exposed to rain, snow, mud, freezing and other critical weather conditions. Where mated safety is required. Where high voltage for lighting installations, T.V. and audio are foreseen.
Food industry	In sheltered locations, on indoor premises used for storage and maintenance.	In locations subject to washing by hosing down and where connections are subject to heavy duty.
Heavy industry	In sheltered warehouses, maintenance workshops, assembly and moulding areas.	In rolling mills, foundries, blast furnaces, etc., where the connections are exposed to dust, metallic shavings, coolants and are subject to vibrations and impact.
Light industry	Locations without high humidity or ambient pollution serving for assembly, moulding, maintenance and storage	On premises subject to cleaning by means of chemical solvents. Also where heavy loads require high safety in connections.
Installations for IT centres	For electrical connections executed above floor level.	For electrical connections under raised floors with risk of immersion. Where heavy loads require high safety in connections.
Ports	In sheltered locations such as docks, repair shops, offices, etc.	Quays, docks, piers, etc. where there is risk of high waves and partial flooding.
Airports	In sheltered locations, hangars, repair shops, warehouses.	Outdoors for connection between mobile or portable appliances and aircraft.
Water treatment plants	Indoor use in repair shops, etc.	In all locations with risk of flooding and for outdoor use with pumps, aeration and ventilation systems.

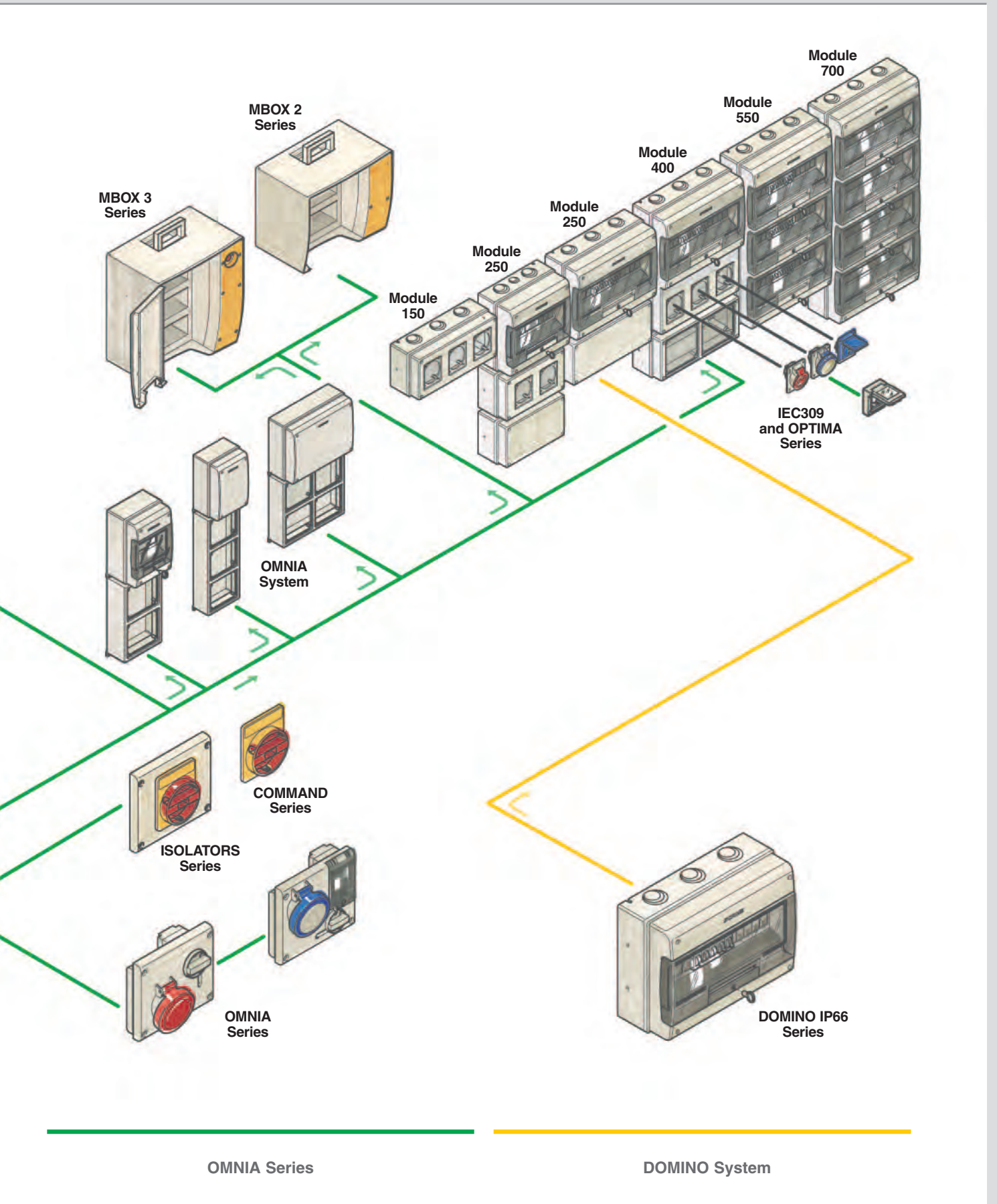
Integrated systems

■ INTEGRATED SYSTEMS FOR ELECTRICAL INSTALLATIONS

Scame produces three integrated systems for assembling weatherproof electrical distribution and connection installations:

- **DOMINO System** a modular system of enclosures for distribution assemblies and consumer units
- **ADVANCE 2 System** a modular system for combination units
- **OMNIA System** a modular flush and surface mounting system





Integrated systems

MBOX Series

MBOX2



656.0024-000

MBOX3



657.0035-000
657.0036-000
657.0037-000

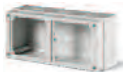
MBOX5



658.0050-000
658.0051-000

DOMINO Series

8 DIN



672.1200

12 DIN



672.2200



672.3200

16 DIN



672.4216

16 DIN



672.5316

16 DIN



672.5416

24 DIN



672.5522

24 DIN



672.5622

OMNIA Series

6 DIN



572.0311



572.0312



572.0313

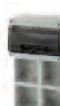


572.0200

14 DIN



572.0314



572.0315



572.0316



572.0220



572.0310
572.M0310



572.M0308



572.0322

ADVANCE 2 Series



Module 106
(compact)



Module 136 (large)
HD Version

OMNIA Series



ADVANCE 2 System

STANDARD VERSION



Flange 70x87

Module 106 (compact)	12	576.4300	12	⊕ 576.4303	12	⊕ 576.4301	6	⊕ 576.4304	6	⊕ 576.4302	6	⊕ 576.4305
Module 136 (large)	6	576.4340	12	⊕ 576.4323	12	⊕ 576.4321	6	⊕ 576.4324	6	⊕ 576.4322	6	⊕ 576.4325

HEAVY DUTY VERSION



Module 106 (compact)	12	578.4300			12	⊕ 578.4301	6	⊕ 578.4304	6	⊕ 578.4302	6	⊕ 578.4305
Module 136 (large)	6	578.4340			12	⊕ 578.4321	6	⊕ 578.4324	6	⊕ 578.4322	6	⊕ 578.4325

MBOX Series



656.0026-000

657.0038-000
657.0039-000

DOMINO Series



672.1301

672.1300

672.2300

672.2301

672.3300

672.3302

672.4316

672.5616

672.5622

672.5822

OPTIMA Series



BLOCK Series



632.1500-000

632.3500-000

632.3520-000

632.3530-000

632.3501-000

632.4500-000

632.4520-000

632.4530-000

632.5520-000

632.5500-000

INDUSTRIAL ADAPTORS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Frequency:	50Hz
Insulating voltage:	500/690V~
Protection degree:	IP20-IP44-IP66-IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/750°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK06 - IK09

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

AVAILABLE STANDARDS

	ITALIAN STANDARD P17/11 - 16A Shuttered socket CEI 23-50		ITALIAN STANDARD P30 - 16A Shuttered socket CEI 23-50		PLURISTANDARD P40 - 16A Shuttered socket CEI 23-50		BRITISH STANDARD STANDARD - 13A Shuttered socket BS 1363-2		FRENCH STANDARD STANDARD - 16A Shuttered socket NFC 61-314
	BRITISH STANDARD - 15A Shuttered socket BS 546		ARGENTINIAN STANDARD - 10A Unshuttered socket IRAM 2071		NEW ZEALAND STANDARD - 10A Unshuttered socket AS/NZS 3112		SOUTH AFRICAN STANDARD - 16A Shuttered socket SANS 164-1 (2006)		

APPLICATION EXAMPLES



VERSIONS

	One-way adaptors
	2-way adaptors with interlocked-switch socket outlets
	2-way adaptors
	3/5-way adaptors
	3-way adaptors with protection devices
	4-way adaptors

■ INTERLOCKED SWITCH SOCKET OUTLETS



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

EN 60309-4

Plugs, socket-outlets and couplers for industrial purposes.
Part 4: switched socket-outlets and connectors with or without interlock.


■ VERSIONS

	Without fuse carrier
	With fuse carrier
	With fuse carrier - HD
	With DIN rail (6 modules)
	With DIN rail (6 modules) - HD

■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	100+690V~
Frequency:	c.c. - 50+500Hz
Insulating voltage:	500/690V~
Protection degree:	IP44-IP66/IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK07 (Advance2) IK08 (Advance2-HD)
Cable inlets:	Metric
Fuse-carriers:	gG 10,3x38mm (16-32A) Neozed type D02 (63A)
Colour:	Standard socket Grey RAL 7035 front side and smoke-grey plate Heavy Duty socket Blue RAL 5015 front side and dark-grey RAL 7004 body
Insulation class:	Class II (double insulation) 

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - STANDARD SOCKET

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Non Resiste	Non Resiste	Non Resiste	Limited Resistance	Limited Resistance	Resistant

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - HD SOCKET

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Limited Resistance	Non Resiste	Resistant	Resistant	Resistant

■ WIRING AND INSTALLATION

Wiring capacity of the terminals

Cross-section of the connectable conductors (mm²)

Rated current (A)	Socket outlets	
	Min	Max
16A	1,5	4
32A	2,5	10
63A	6	25

■ APPLICATION EXAMPLES



CABLE INLETS



Compact version 16A and 32A
 1 M25 threaded on upper side
 2 marks for M20 on lower side
 1 mark on the back
 Provided with cable gland M25



Large version 16A and 32A
 1 M25 threaded on upper side
 3 marks for M20-M32 on lower side
 1 mark on the back
 Provided with cable gland M25



Large version 63A
 1 M40 threaded on upper side
 3 marks for M20-M32 on lower side
 1 mark on the back
 Provided with cable gland M40

TECHNICAL DATA SWITCH DISCONNECTORS

	With fuse			Without fuse			
	16A	32A	63A	16A	32A	63A	
Rated insulation voltage Ui	Vac	690	690	690	690	690	
	Vdc	600	600	600	600	-	
Rated impulse withstand voltage Uimp	kV	4	4	4	4	8	
Thermal current Ith	A	25	32	30	40	63	
Thermal current Ithe	A	25	32	30	40	63	
AC21A Resistive loads, including moderate overloads	400V A	-	-	-	-	-	
	500V A	-	-	-	-	-	
	690V A	25	32	30	32	63	
AC22A Mixed resistive and inductive loads, including moderate overloads	400V A	-	-	-	-	-	
	500V A	-	-	-	-	-	
	690V A	30	32	20	32	63	
AC23A Switching off motor loads or other highly inductive loads (3 phase/3 pole)	400V A	-	-	20	32	50	
	500V A	-	-	-	-	40	
	690V A	16	25	16	25	30	
AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase/3 pole)	400V A	-	28.5	-	28.5	40	
	500V A	-	-	-	-	-	
	690V A	12	20	12	20	25	
DC21A Resistive loads, including Moderate overloads	300V A	25	32	25	32	-	
	250V A	20	32	20	32	-	
	600V A	-	-	10(*)	10(*)	-	
DC22A Mixed resistive and inductive loads, including moderate overloads	250V A	400	400	400	400	1500	
	600V A	-	-	-	-	-	
	Rated short-time withstand current Isw (1s)	kA	10	10	10	10	10
Short-circuit protection:	Associate fuse size for conditional short-circuit current - Type gg	kA	16	32	16	32	63
	Rated short-circuit making capacity Icm	kA	1500	1500	1500	1500	2850
	General use single phase and 3 phase	A	20	30	32	40	63
UL rating	AC motor starting break all line single phase	Hp	1.5	2	1.5	2	3
	240V Hp	Hp	3	5	3	5	7.5
	240V Hp	Hp	7.5	10	7.5	10	10
	480V Hp	Hp	10	15	10	15	20
	600V Hp	Hp	15	20	15	20	25
	Flexible wire	mm ²	1.5-10	1.5-10	1.5-10	1.5-10	10-35
Permissible wire range	AWG	16-8	16-8	16-8	16-8	10-2	
	Rigid wire	mm ²	1.5-16	1.5-16	1.5-16	1.5-16	10-35
	AWG	16-8	16-8	16-8	16-8	10-2	

(*) 2+2 poles in series

■ INTERLOCKED SWITCH SOCKET OUTLETS



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

■ QUALITY MARKS



■ VERSIONS

	Version with safety transformer compact (module 106) SELV transformer 230/24V
	Version with safety transformer large (module 136) SELV transformer 230/24V
	Version with RAIL DIN 6 modules compact (module 106)

■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20+50V ~
Frequency:	c. c. - 50+60Hz
SELV transformer 220/24V:	150VA
Insulating voltage:	500/690V ~
Protection degree:	IP44-IP66/IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK07 (Advance2) IK08 (Advance2-HD)
Cable inlets:	Metric
Fuse-carriers:	gG 10:3x38mm
Colour:	Standard socket Grey RAL 7035 front side and smoke-grey plate Heavy duty socket Blue RAL 5015 front side and dark Grey RAL 7004 body
Insulation class:	Class III

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - STANDARD SOCKET

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - HD SOCKET

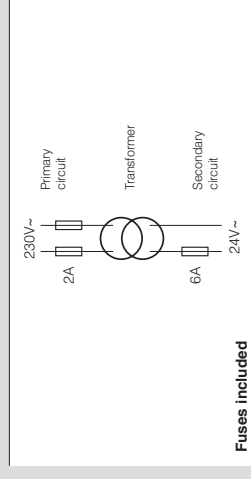
Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Limited Resistance	Not Resistant	Resistant	Resistant

■ WIRING AND INSTALLATION

Wiring capacity of the terminals
Cross-section of the connectable conductors (mm²)

Rated current (A)	Socket outlets	
	Min	Max
16A	4	4
32A	4	10

■ PROTECTIONS FOR THE VERSION WITH TRANSFORMER



■ APPLICATION EXAMPLES



MODULAR SYSTEM



REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 1: general requirements.

CEI 23-49

Enclosure for accessories for household and similar fixed electrical installations.
Part 2: particular requirements for enclosures for protection devices and accessories dissipating a considerable power in normal use.

QUALITY MARKS

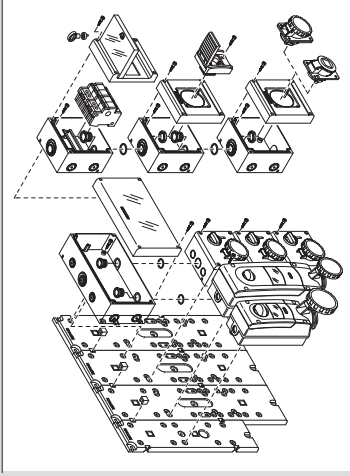


VERSIONS

	Modular bases - Standard - Heavy duty
	One module enclosure with cut-out - Standard
	Enclosure with plain lid - Standard - Heavy duty
	Consumer unit - Standard - Heavy duty

TECHNICAL CHARACTERISTICS

Protection degree:	IP66
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max operating ambient temperature:	60°C
Dissipable power according to the reference standard:	8-17W
Glow wire test:	650°C/850°C
Cable inlets:	Metric
Material:	Engineering plastic
IK degree at 20°C:	IK07 (Advance2) IK08 (Advance2-HD)
Colour:	Grey RAL 7035 (standard) Grey RAL 7004 (Heavy duty)
Insulation class:	Class II (double insulation) <input type="checkbox"/>



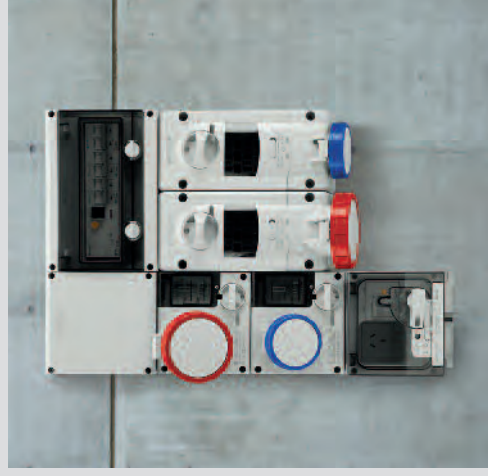
BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - STANDARD SYSTEM

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - HD SYSTEM

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Limited Resistance	Not Resistant	Resistant	Resistant	Resistant

APPLICATION EXAMPLES





SWITCHED INTERLOCKED SOCKET OUTLETS 16-32-63A



REFERENCE STANDARDS

- EN 60309-1**
Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.
- EN 60309-2**
Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.
- EN 60309-4**
Plugs, socket-outlets and couplers for industrial purposes.
Part 4: switched socket-outlets and connectors with or without interlock.

VERSIONS WITH MECHANICAL INTERLOCK

- With switch-disconnector
- With switch-disconnector and fuse
- Molded case circuit breaker with thermal magnetic trip unit

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	100-690V~
Frequency:	50-60Hz
Insulating voltage:	500/690V~
Protection degree:	IP66/IP67/IP69
Operating ambient temperature according to the reference standard:	-25°C +40°C
Minimum operating ambient temperature:	-40°C
Max. operating ambient temperature:	+60°C
Self-extinguishing GW test:	960°C
Self-extinguishing UL94:	V0
Material:	Thermosetting
IK degree at 20°C:	IK10 (20J)
Switch-disconnectors 16A-32A-63A:	COMMAND Series
Fuse:	gG 10,3x38mm gG 22x58mm
Colour:	Grey RAL7037
Insulation class:	Class II (double insulation)

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

CABLE ENTRY

Maximum entry with cable glands

Rated current (A)	Single socket		Socket with switchboard		
	Upper	Lower	Upper	Lower	Side
16A/32A	M32	M32	M32	M32	M32
63A	M40	M40	M40	M40	M32

WIRING OPERATIONS

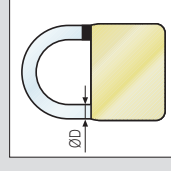
Wiring capacity of the terminals (mm²)

Rated current (A)	Socket outlets		
	Min	Max	Max
16A	1,5	4	4
32A	2,5	10	10
63A	6	25	25

PADLOCK TO BE USED

Choice of padlock for socket knob, fuse door and switchboard door

Rated current (A)	Padlock arc diameter (mm)
16A-32A	5
63A	6,3



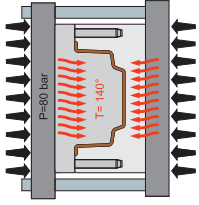
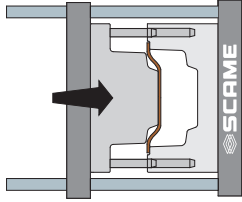
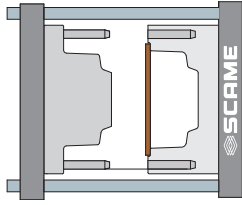
■ SPECIAL CHARACTERISTICS

ADVANCE-GRP CHARACTERISTICS

The **ADVANCE-GRP** product line includes a series of 16A, 32A, 63A, 125A interlocked sockets (compliant with EN60309-4 standards) and the casings to contain them. It's the most complete range of interlocked sockets produced in GRP (*Glass Reinforced Polyester*) thermosetting material.

A unique feature which enhances the exceptional mechanical strength of **ADVANCE-GRP** products is the **SMC** (*Sheet Moulding Compound*) production process used for the casings.

SMC is a technology which uses exclusively non-woven sheets, pre-impregnated with polyester resin. This method consists in preparing the sheet material inside a mould which, equipped with a negative mould, presses the composite so as to allow compaction.



SMC is an advanced technology which enhances the quality of the raw material without reducing the high-strength characteristics during transformation; it's a high-performing technology in terms of the mechanical performance of the resultant product (glass fibre length, homogeneity of the material, integrity of the fibres).

On the contrary, the **BMC** (*Bulk Moulding Compound*) technology is a technology for moulding composite materials which uses a raw material available in "blocks" (short, charged fibres) which are subjected to high thermomechanical stress during the transformation process, consequently diminishing the mechanical properties of the details, thereby reducing the impact strength and flexural strength.

The glass-fibre reinforced polyester used in **ADVANCE-GRP** guarantees excellent mechanical strength and a long lifetime: this material is highly resistant to contamination, completely corrosion resistant and suited for applications requiring the use of components with low smoke emission and no halogens, **LSOH** (*Low Smoke Zero Halogen*) components. The outstanding properties of the material are also guaranteed over time, thanks to the high **RTI** value (*Relative Temperature Index*), measured to be 20,000h. Numerous verifications and tests have been carried out, even UV resistance tests, in order to guarantee the long duration of the material's initial performance.

The thickness of the walls is sufficient to offer an excellent alternative to aluminium, stainless steel or cast iron.



OUTSTANDING HEAT AND FIRE RESISTANCE

The glass-fibre reinforced polyester used in **ADVANCE-GRP** guarantees excellent heat and fire resistance: it does not propagate flames, emit halogens or smoke.

This material has outstanding flame retardancy: Glow Wire 960°C according to EN 60695-2-1; V0 according to UL94. It's suited for applications requiring the use of components with low smoke emission and no halogens, **LSOH** (*Low Smoke Zero Halogen*).



OUTSTANDING IMPACT RESISTANCE

The glass-fibre reinforced polyester used in **ADVANCE GRP** and the high thickness of the casing walls guarantee an excellent mechanical resistance to impacts.

The **SMC** technology used to produce the casings makes **ADVANCE-GRP** an indestructible product.

The impact resistance of the casings is higher than 20J (IK10) according to EN50102, even under limit temperature conditions (-40°C +60°C).



RESISTANCE TO CHEMICAL AGENTS

The **ADVANCE-GRP** interlocked sockets and casings, thanks to the glass-fibre reinforced polyester with which they are produced, have excellent resistance to aggressive chemical substances, saline solutions, diluted acids, hydrocarbons, mineral oils, alcoholic substances. They are ideal for use in highly corrosive atmospheres.



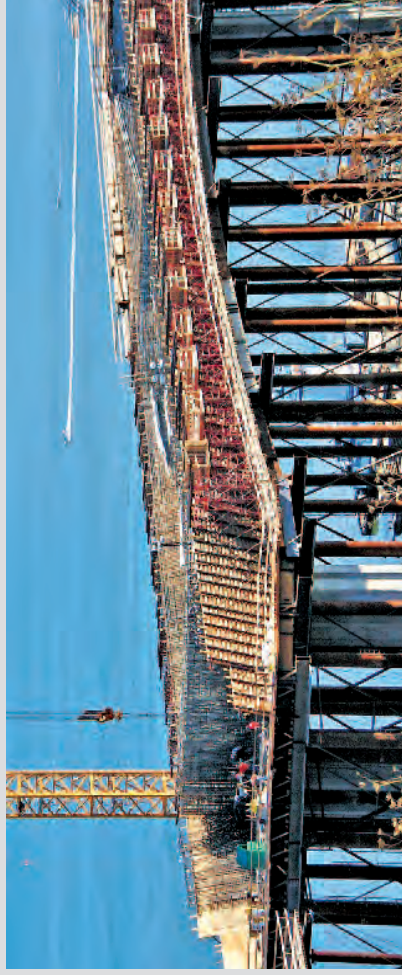
RESISTANCE TO ATMOSPHERIC AGENTS

The structure and materials used also make **ADVANCE-GRP** a product suited for the most extreme environmental conditions. The double degree of protection IP66 and IP67 (IP66 for 125A), guarantees an excellent seal against the entry of solid objects or liquids into the casings.

Outstanding resistance to UV radiation, exceptional reliability under environmental stress and use at both low and high ambient temperatures (-40°C +60°C).



APPLICATION EXAMPLES



TECHNICAL DATA SWITCH DISCONNECTORS

	without fuse			with and without fuse	
	16A	32A	63A	125A	125A
Rated insulation voltage Ui	Vac 690 690 690		750	750	
Rated impulse withstand voltage Uimp	Voc 400 400 -		750	750	
Thermal current Ith	kV 4 4 8		12	12	
Thermal current Ithe	A 30 40 63		200	200	
Nominal current rating Ie	Resistive loads, including moderate overloads	415V A	16 32 63	200	
		500V A	16 32 63	-	
		690V A	16 32 63	160	
AC22A	Mixed resistive and inductive loads, including moderate overloads	415V A	16 32 63	200	
		500V A	16 32 63	-	
AC23A	Switching off motor loads or other highly inductive loads (3 phase/3 pole)	415V A	16 32 40	125	
		690V A	16 25 30	80	
AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase/3 pole)	400V A	- 28.5 40	-	
		690V A	12 20 25	-	
DC21A	Resistive loads, including Moderate overloads	300V A	20(*) 32(*) -	160(*)	
		250V A	25(*) 32(*) -	160(*)	
DC22A	Mixed resistive and inductive loads, including moderate overloads	600V A	10(*) 10(*) -	-	
		400 400 1500	4000		
Rated short-time withstand current Icw (s)	kAeff 10 10 10		24		
Short-circuit protection	Conditional short-circuit current	A 16 32 63			
	Associate fuse size for conditional short-circuit current - type gG	A 1500 1500 2850		24000	
Rated current UL without fuse	General applications - Single-phase and Three-phase	600V A	32 40 63	125	
		AC motor, all-pole interruption - Single-phase	120V Hp 1.5 2 3	7.5	
Permissible wire range	Flexible wire	240V Hp 3 5 7.5	20		
		AC motor, B, C, D, all-pole interruption - Three-phase	240V Hp 7.5 10 10 40		
Permissible wire range	Rigid wire	480V Hp 10 15 20 75	100		
		600V Hp 15 20 25 100			
Permissible wire range	Flexible wire	mm ² 1.5-10 1.5-10 10-35	10-70		
		AWG 16-8 16-8 10-2	8-1/10		
Permissible wire range	Rigid wire	mm ² 1.5-16 1.5-16 10-35	10-70		
		AWG 16-8 16-8 10-2	8-1/10		

(*) 2+2 poles in series

■ TECHNICAL CHARACTERISTICS 16A-32A-63A VERSIONS

WITH FUSES

Ample space for easy wiring

Switch-disconnector with mechanical lock that can be accessorized with auxiliary contacts

Easily extractable support



WITH MCB

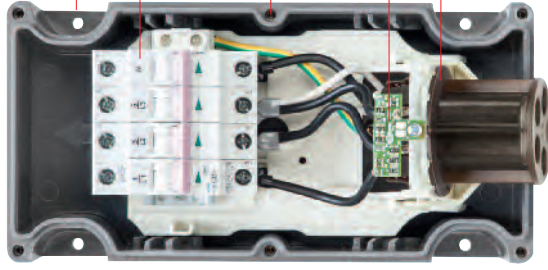
Outdoor wall fastening

Under-plate cable runway

Threaded metal inserts

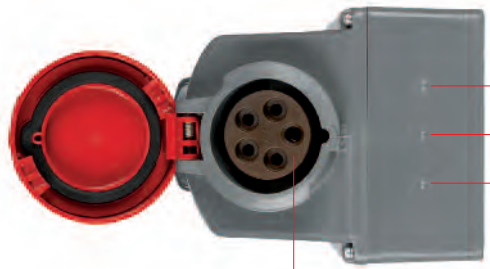
Indicator light

Possibility for plug-inserted control microswitch assembly



BOTTOM VIEW

Module in high-temperature resistant engineering polymer



Possible entry from bottom side (input-output also)

TOP VIEW



Self-centering punch marks to facilitate drilling

Single-piece waterproof gasket



Dual mechanical lock

High-strength material with superior UV and chemical resistance

Ergonomic knob which can be padlocked in position 0 and 1, manoeuvrable even with gloves

Fuse inspection door, tamper-proof, lockable, with assisted opening

Cover entirely separate from the base for easy installation

Captive stainless steel closing screws

I-Device

An electronic device controls (Intelligence Device) the status of the interlocked socket, monitoring the electrical functionality:

- operation of the signalling and control card is guaranteed even when the load is not connected;

● INDICATOR LIGHT ON

- indicates that the fuses are not open and all the phases are present;
- indicates that the socket outlet is powered correctly;

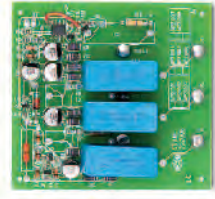
⚡ INDICATOR LIGHT FLASHING

- signals the interruption of one or more fuses;
- signals the absence of a phase*;

○ INDICATOR LIGHT OFF

- indicates that the socket outlet is not powered;

* for single-phase products in the event of phase/neutral loss led signaling appears off.





■ SWITCHED INTERLOCKED SOCKET OUTLETS



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

■ VERSIONS



Version with transformer.
SELV transformer 230/24V ~ 150VA



Version without transformer.

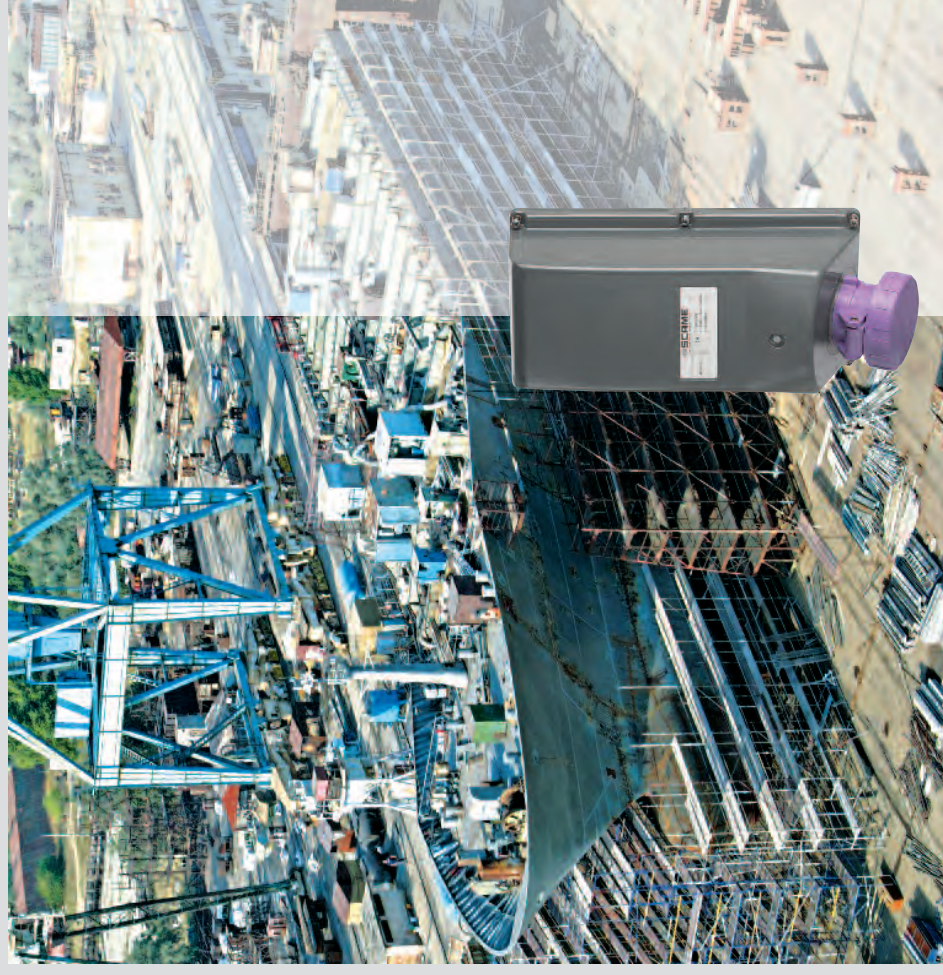
■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20-50V~
Frequency:	50-60Hz
SELV transformer 220/24V:	150VA
Insulating voltage:	500/690V~
Protection degree:	IP66/IP67/IP69
Operating ambient temperature according to the reference standard:	-25°C +40°C
Minimum operating ambient temperature:	-40°C
Max. operating ambient temperature:	+60°C
Self-extinguishing GW test:	850°C (socket housing) 960°C (enclosure)
Material:	Thermosetting
IK degree at 20°C:	IK10
Colour:	Grey RAL7037
Insulation class:	Class III

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ APPLICATION EXAMPLES



■ SWITCHED INTERLOCKED SOCKET OUTLETS 125A



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

EN 60309-4

Plugs, socket-outlets and couplers for industrial purposes.
Part 4: Switched socket-outlets and connectors with or without interlock.

■ VERSIONS WITH MECHANICAL INTERLOCK

	With switch-disconnector
	With switch-disconnector and fuse
	With fuse and switch-disconnector
	With molded case circuit breaker with thermal magnetic trip unit
	With molded case circuit breaker with thermal magnetic and residual current release trip units
	With contactor

■ TECHNICAL CHARACTERISTICS

Rated current:	125A
Rated voltage:	100-690V~
Frequency:	50-60Hz
Insulating voltage:	500/690V~
Switched socket outlets with interlock degree of Protection:	IP66
Minimum operating ambient temperature:	-40°C
Maximum operating ambient temperature:	+60°C
Self-extinguishing GW test:	960°C
Self-extinguishing UL94:	V0
Switched socket outlets with interlock material:	Thermosetting
Impact Resistance:	IK10 (20J)
Switch-disconnectors:	Switch ABB OT 160 125A
MCCB:	ABB T-MAX
Fuse:	9G 10.3x38mm 9G 22x58mm 63A 125A
Sockets colour:	Grey RAL7037
Insulation class:	Class II (double insulation)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ CABLE ENTRY

Maximum entry with cable glands

Rated current (A)	Single socket	
	Upper	Lower
125A	M63	M63

■ WIRING OPERATIONS

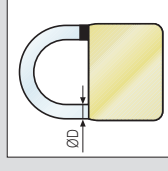
Wiring capacity of the terminals (mm²)

Rated current (A)	Socket outlets		Plugs	
	Min	Max	Min	Max
125A	50	95 (*)	25	50

(*) In case of flexible cable max 70 mm².

■ PADLOCK TO BE USED

Choice of padlock for socket knob, fuse door and switchboard door



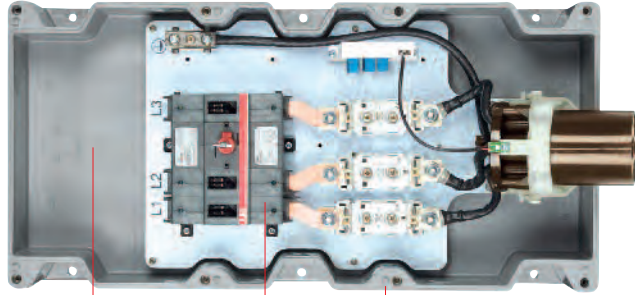
Rated current (A)	Padlock are diameter (mm)
125A	6.3

ADVANCE-GRP Series



TECHNICAL CHARACTERISTICS VERSION 425A

WITH FUSES

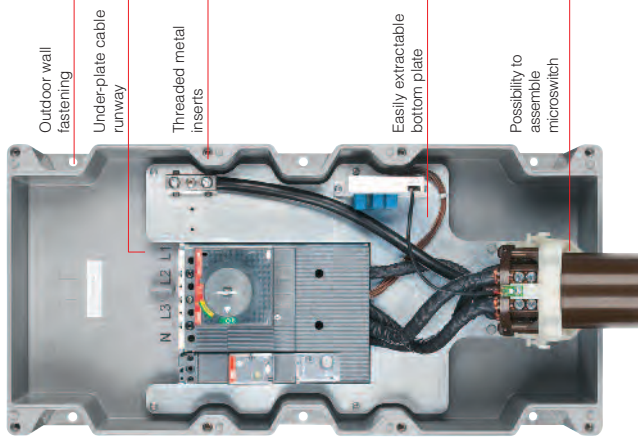


Ample space for easy wiring

Switch-disconnector with mechanical lock that can be accessorized with auxiliary contacts

Punched marks for easy closure of the cover

WITH MCCB + RCD



Outdoor wall fastening

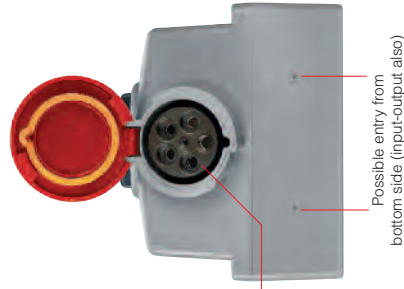
Under-plate cable runway

Threaded metal inserts

Easily extractable bottom plate

Possibility to assemble microswitch

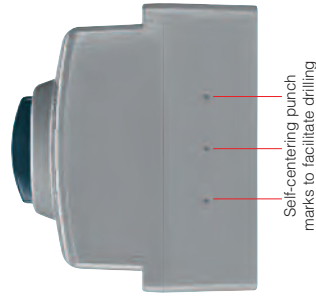
BOTTOM VIEW



Module in high-temperature resistant engineering polymer

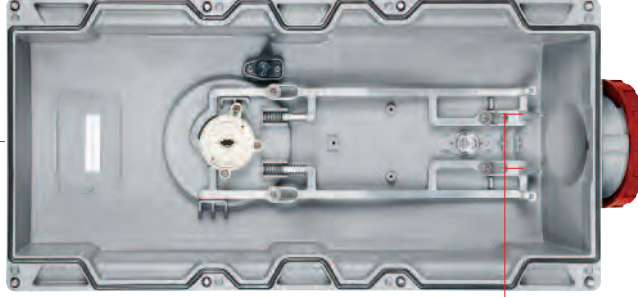
Possible entry from bottom side (input-output also)

TOP VIEW



Self-centering punch marks to facilitate drilling

Single-piece waterproof gasket



Dual mechanical lock

Rating on metal plate

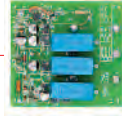
Captive stainless steel closing screws

Ergonomic knob which can be padlocked in position 0 and 1, manoeuvrable even with gloves

High-strength material with superior UV and chemical resistance

Residual current release trip units test push button

Cover entirely separate from the base for easy installation



Thermal magnetic protection:

Molded case circuit breaker
ABB Tmax T1B (16kA) with thermal magnetic trip unit TMD (adjustable thermal threshold 0,7...1 x In fixed magnetic threshold 10 x In)

Thermal-magnetic and residual current protection:
Molded case circuit breaker ABB Tmax T1B (16kA) with thermal magnetic trip unit TMD (adjustable thermal threshold 0,7...1 x In fixed magnetic threshold 10 x In) + residual current release trip units RC221/1 (adjustable residual current trip 0,03 - 0,1 - 3A and time limit for non-trip instantaneous)

Version with contactor:
Contactors CL09 GE POWER CONTROL

I-Device

An electronic device controls (Intelligence Device) the status of the interlocked socket, monitoring the electrical functionality:
 - operation of the signalling and control card is guaranteed even when the load is not connected;

INDICATOR LIGHT ON

- indicates that the fuses are not open and all the phases are present;
- indicates that the socket outlet is powered correctly;

INDICATOR LIGHT FLASHING

- signals the interruption of one or more fuses;
- signals the absence of a phase*;

INDICATOR LIGHT OFF

- indicates that the socket outlet is not powered.

* for single-phase products in the event of phase/neutral loss led signalling appears off.

ADVANCE-GRP[AMR] System

■ AMR SYSTEM

SCAME, always focused on innovation and techno-logical research, has developed a smart system called **AMR SYSTEM** (Automated Meter Reading), to apply to its products. The SCAME products equipped with this smart system are the ADV GRP interlocked sockets and the DOMINO switch panels with two and four sockets.

A smart system features technology through which it is able to control and manage, on its own and in remote, industrial electrical systems aimed at improving the user's service.

In addition to being an effective solution for preventing failures and quickly resolving them, remote management systems are also a valid instrument for cost containment and for system monitoring and control.

This system is equipped with an extremely versatile and accurate energy analyser with microprocessor, designed to meet the needs of the most advanced applications for the monitoring of electrical parameters and for the management of energy consumption, allowing real-time reading via the Internet of all acquisition data and threshold management in automatic mode; moreover, it is possible to send, by e-mail, local alarms pertaining to anomalies or control of the status of manoeuvring switch and inserted plug.

The system is preset for load management. Preventing overload risks is important in order to avoid the tripping of circuit breakers and consequently the resulting malfunction (partial or total power failure), and to significantly reducing energy costs.

In fact, as everyone knows, exceeding certain limits and parameters pertaining to the supply of electricity agreed upon with the grid operator results in the application of penalties or higher rates.

Therefore, it will be possible to automatically disable or reinstate devices or loads connected to the ADV GRP AMR socket.

The various functions include the sending of commands. Commands can be sent to a single socket or to a group of sockets, in both local or remote mode. In the latter case, an Internet connection is required.

Lastly, it allows the Energy Manager to be informed in real time on the condition of the system through any device capable of displaying a web page.

Therefore, the product can be used to diagnose, command, control and manage remote units towards a central server through specific communication protocols. The system consists of one or more sockets and management software.

In order for the two parts to communicate one with the other, a basic communication infrastructure needs to be set up. The communication channels can be RS485, Canbus and wireless. The main carrier is the Wi-Fi.

In case the Wi-Fi connection is not working, the **AMR SYSTEM** can store processing reports in a circular buffer for over a month. Once communication is restored, it sends the stored data to the management software.

The system fitted to the GRP and DOMINO sockets is suited for applications on all kinds of electric grids, 3 and 4-wire three-phase, single-phase, low and medium voltage.

All operating parameters can be set through the software, including the input and output, the alarms, the Canbus/RS485 port.

The digital input is typically used as a status indicator for inserted plug and as an ON/OFF manoeuvre selector, as well as for earth presence signalling purposes.

■ DATA ACQUISITION AND MONITORING FROM A SINGLE POINT

The AMR system allows the management and monitoring of loads from a single "socket" point, ensuring the highest functionality, reliability and operating potential, in addition to simplifying installation.

In this case, the interlocked socket carries out a "multi-service", supplying electricity for proper operation to the connected load, at the same time performing monitoring and management functions.

This is a huge advantage in terms of installation costs and times. All energy-related data can be detected using a single card

- The card is located inside the socket
- No wiring required. Significant savings as far as time and materials are concerned.
- Accuracy class: 1% current/voltage, 1.5% power/energy
- Local and remote control with alarm and/or signalling of manoeuvre status and inserted plug

- Control with the signalling of anomalies and system status on the socket through a warning light
- Warning light on the socket for no earth
- Through the socket, the SCAME system can monitor refrigerated containers; however it is not designed for controlling the temperature inside the containers
- The SCAME system does not carry out checks other than electricity-related ones.

The products fitted with the AMR system (from the acronym **AMR "automated meter reading"**) feature advanced technology.

Through the AMR system, you can analyse the power grid for current and power consumption, as well as read all acquisition data in real time via the Internet;

■ PRODUCT RANGE – AMR SYSTEM



ADVANCE-GRP Series



DOMINO Series



OMNIA Series

Available functions

- Socket monitoring
- Monitoring of consumption
- Fuse check
- Internal temperature
- Plug presence
- Earth presence
- Energy management
- Data collection
- Graphs
- Alarms
- Reports
- Remote control
- Load management
- Notifications by e-mail
- Text messages (optional)

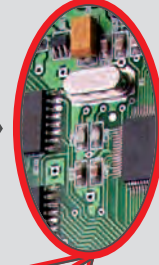


- ALARM
- E-MAIL
- ENERGY MANAGER



- DATABASE
-

- ENERGY METER



ADVANCE-GRP[AMR] System

MANAGEMENT SOFTWARE

The system is also preset for communicating in local mode with other AMR devices through RS485 or Canbus channels (optional), while it communicates with the data collection server through a Wi-Fi connection.

The computer assigned the task of monitoring the devices, process their status and retaining it for a defined time period, issues notices in case of anomalous operating conditions. Through the sampling of energy data, the system is also able to process information on the energy and consumption profile as well as represent data in graph form.

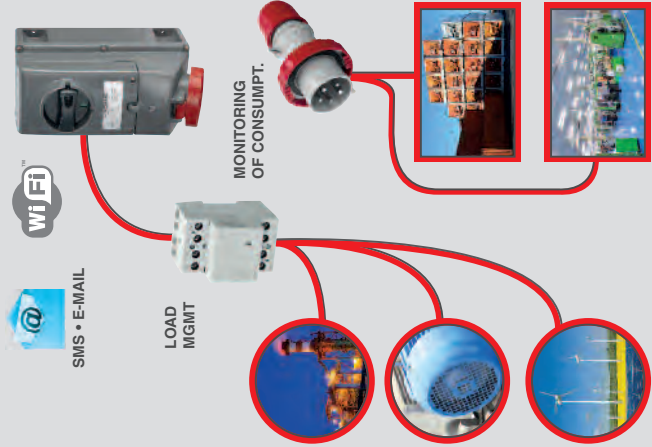
The software can be structured according to the customer's needs. The system can carry out quality measurements, make decisions on its own and inform the Energy Manager in real time with regards to the system status.

It is also possible to **monitor** energy parameters so as to avoid penalties applied for a low COS-FI (power factor). **Eliminate waste** by checking motors, lighting, heating, air-conditioning, compressors, refrigerators, transformers, distribution lines and other utilities.



A few good reasons for choosing the AMR system

- **Small investment** that yields significant benefits at a reasonable cost.
- **Simple to install** and to manage, at the same time ensuring reliable performance.
- **User interface that is simple to use**, also suited for users with no prior experience.
- **Networked installation**, in order to share information and improve communication.
- **Flexible**, quick start-up and installation, with no additional installations required.
- **Improved service** to the system, thus reducing the number of failures and downtime.
- **More integrated functions** in a single instrument that can be used to both manage maintenance jobs and to control the systems quickly and directly.
- **It provides useful information**, constantly populating a database in order to subsequently carry out statistical analyses.
- **It handles emergencies** quickly and effectively, sending anomaly notices to the Energy Manager.
- **It cuts operator involvement down to a minimum.**
- **It oversees the processes**, with constant control of the systems being managed.



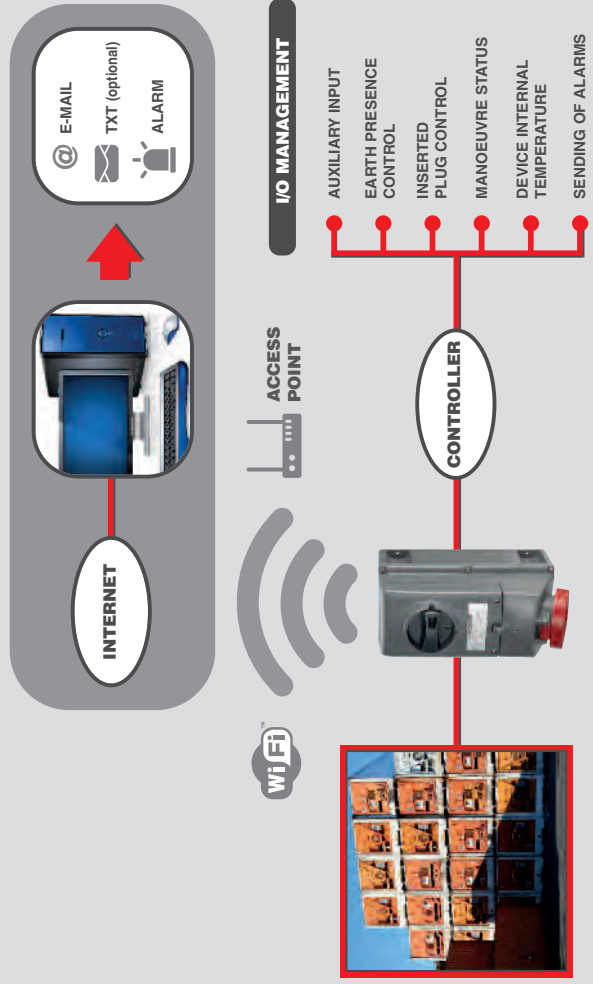
FIELDS OF APPLICATION

There are various application fields, from terminal containers to the shipyard sector to heavy industry. These are just some of the examples of possible applications. Below are a few tables that list some application examples and the requested product type.

TERMINAL CONTAINER

Application	Decision maker	Product type	Problems	Suggested solution	Benefits
Reefer towers	Maintenance Manager	interlocked sockets 32A 3P+E 3H	Frequent failures and tripping of protections with possible/probable loss or deterioration of the reefer load	AMR system I/O	Real-time monitoring of failures and tripping of protections with alarm systems to the maintenance managers in order to implement the necessary operations
Energy management	Energy Manager	interlocked sockets 32A 3P+E 3H energy meter on transformer cabin	Uncontrolled consumption, with major waste due to the use of old reefers with high consumption	AMR system EM	Knowledge of exact consumption at the single socket level. Possibility to check anomalous consumption and modulate the service fees in addition to the incidence of consumption due to improper use
Container handling	Maintenance Manager	interlocked sockets 32A 3P+E 3H	Handling of the container with the plug inserted and consequent breaking of sockets and structures	AMR system I/O with relay output	Possibility to combine relay outputs and aux. contacts to acoustic or visual devices to provide consent to the handling

EXAMPLE OF CONTAINER TERMINAL APPLICATIONS

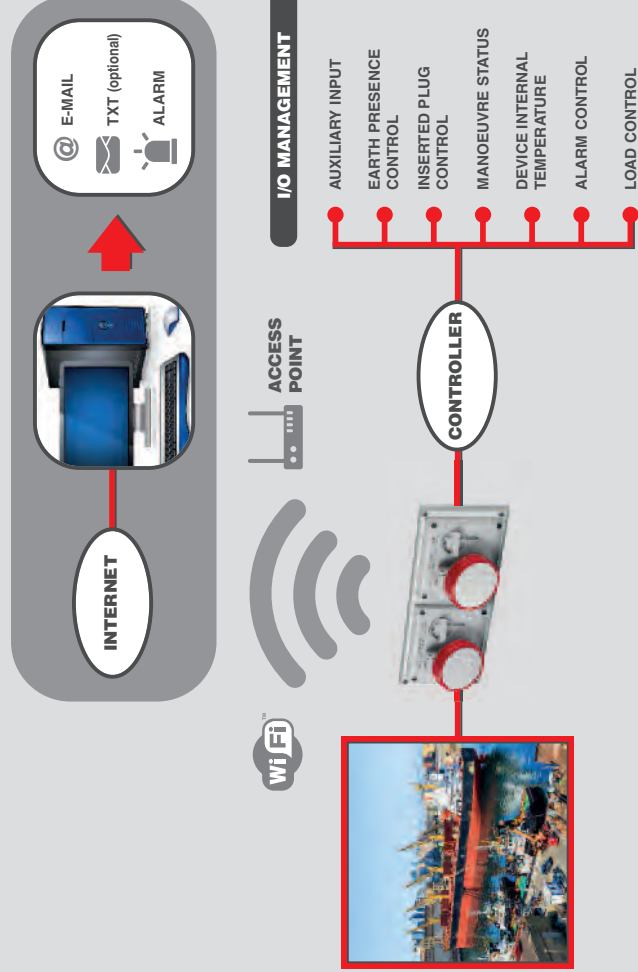


ADVANCE-GRP[AMR] System

■ SHIPYARD

Application	Decision maker	Product type	Problems	Suggested solution	Benefits
Worksite driving force units	Maintenance Manager	Groups of interlocked sockets	Long maintenance jobs and downtimes	I/O AMR system	Targeted management and scheduling of maintenance jobs, with consequent reduction of maintenance times and costs
External companies' equipment	Energy Manager	Groups of interlocked sockets	Waste due to improper use and management of the power supply	EM AMR system with relay outputs	Possibility for exact control of the consumptions of the individual sockets matched to the container or to external companies' equipment and possibility to manage and turn off unnecessary power supplies
Suction and lighting system in a water basin	Systems Manager	Power supply sockets or plugs to the equipment	Both suction and temporary lighting systems stay turned on even when no one is operating on board	I/O AMR system with relay output	The Manager is guaranteed that this type of equipment with high consumption work only when truly necessary, so as to be able to manage their proper operation in remote as well.

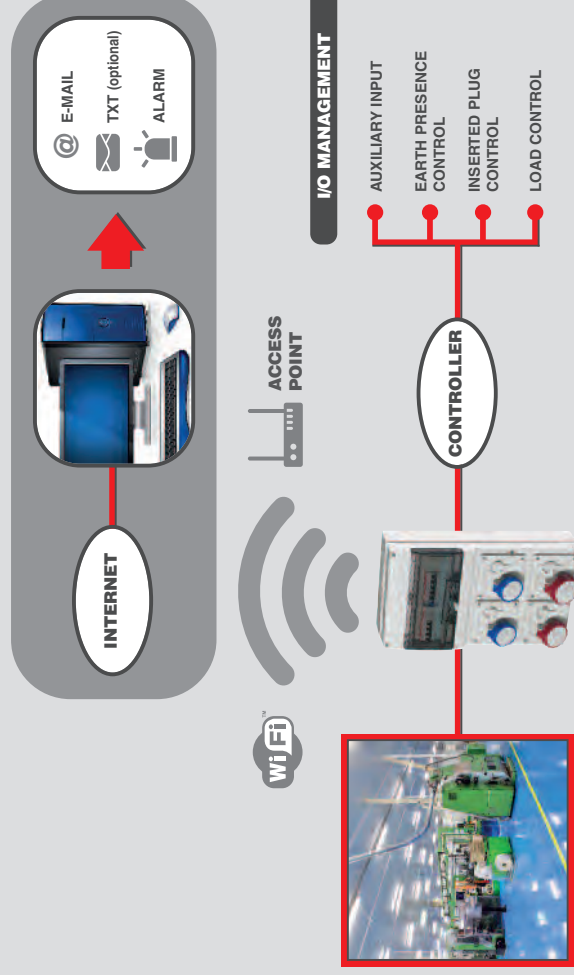
■ SHIPYARD APPLICATION



■ INDUSTRY

Application	Decision maker	Product type	Problems	Suggested solution	Benefits
Worksite driving force units	Maintenance Manager	Groups of interlocked sockets	Long maintenance jobs and downtimes	AMR system I/O	Targeted management and scheduling of maintenance jobs, with consequent reduction of maintenance times and costs
Large machinery and production plants	Energy Manager	Interlocked sockets	Uncontrolled machinery consumption and failure to check for proper operation of the loads (machinery) connected to the interlocked sockets	AMR system EM	Possibility for exact control over energy consumption and Efficiency, as well as checking the consumption log
Process management	Methods Manager	Interlocked sockets	Poor machinery utilisation management and poor work distribution	AMR system EM	The Methods Manager can check the absorption/utilisation of the machinery in order to make the production processes more efficient

■ INDUSTRY APPLICATION



LOAD MANAGEMENT AND REMOTE CONTROLS

The system is pre-set for load management. Preventing overload risks is important in order to avoid the tripping of circuit breakers and consequently the resulting malfunction (partial or total power failure), and to significantly reduce energy costs.

In fact, as everyone knows, exceeding certain limits and parameters pertaining to the supply of electricity agreed upon with the grid operator results in the application of penalties or higher rates.

Therefore, it will be possible to automatically disable or reinstate devices or loads connected to the ADV GRP AMR socket. The various functions include the sending of commands. Commands can be sent to a single socket or to a group of sockets, in local or remote mode. In the latter case, an Internet connection is required.



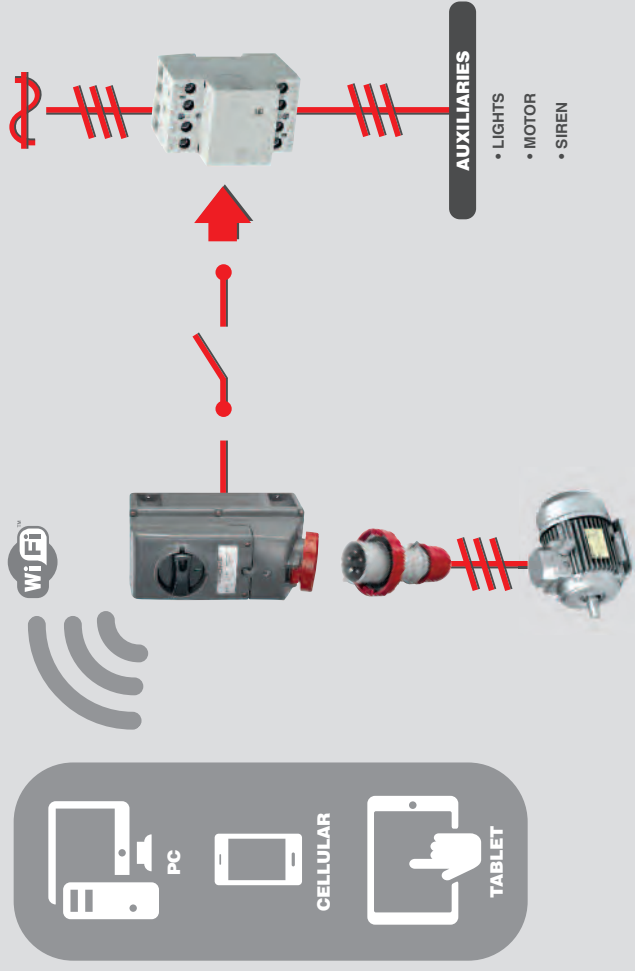
CALENDAR FUNCTION

Through the calendar function, the user can program certain rules to activate/deactivate at an established date and time.

For example, deactivating the load connected to the socket, setting the day and time.

EXAMPLE

The example below shows an application in which the load applied to the socket is a motor. In case the AMR control and monitoring system detects a malfunction of the motor or the

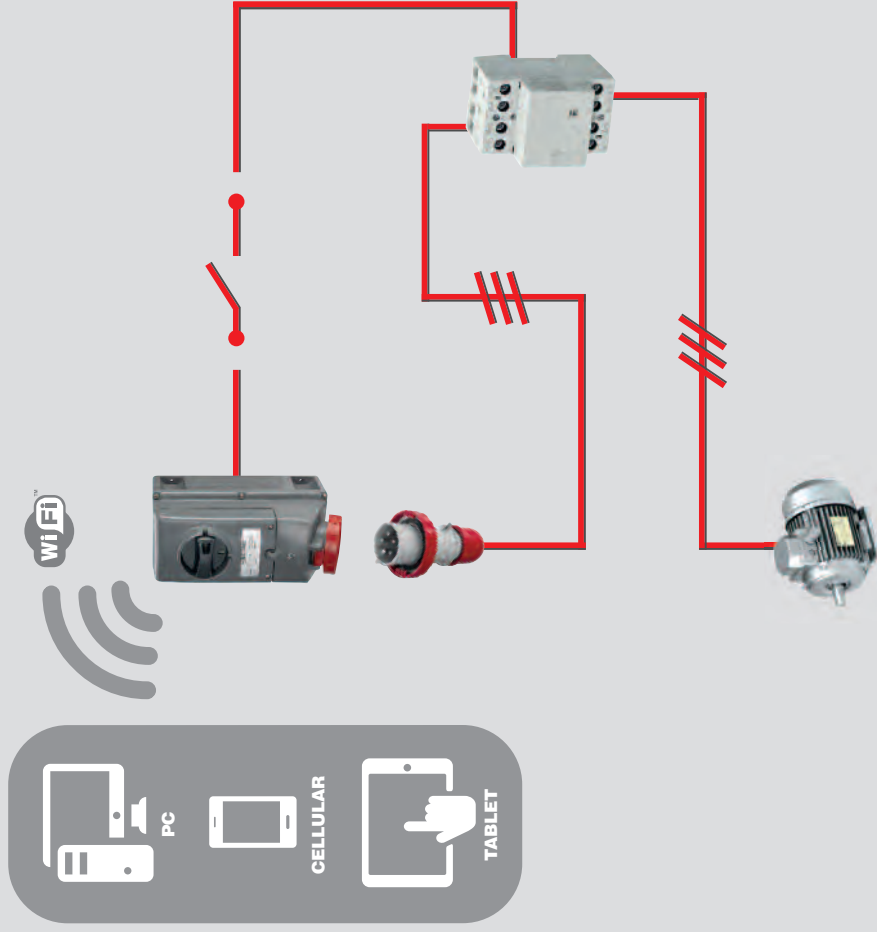


EXAMPLE: CONTROL OF LOAD CONNECTED TO THE SOCKET

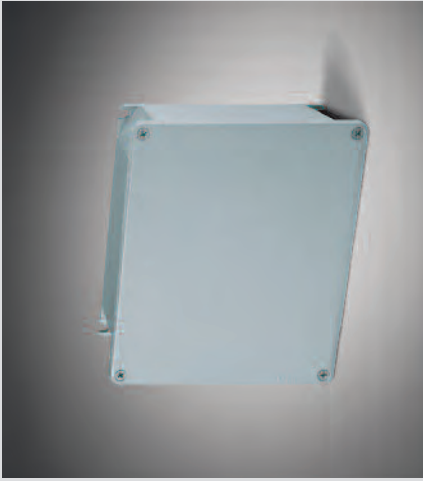
With this installation, the motor can be piloted by the socket through the contact output (NO/NC) of the AMR system which, in turn, pilots an external relay to which the motor is connected.

This way, the motor can be deactivated/activated depending on special events that have occurred, such as alarms, failures or simply to cut down on electricity consumption.

Moreover, this configuration allows the user to interact with the socket, activating/deactivating the motor in local or remote mode (through the web).



■ JUNCTION BOXES FOR ELECTRICAL INSTALLATIONS



■ REFERENCE STANDARDS




EN 60670-22

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. Part 22: particular requirements for connecting boxes and enclosures.

■ QUALITY MARKS



■ VERSIONS

	Enclosure IP66
	Mounting plates
	DIN rail kit (horizontal and diagonal fixing)

■ TECHNICAL CHARACTERISTICS

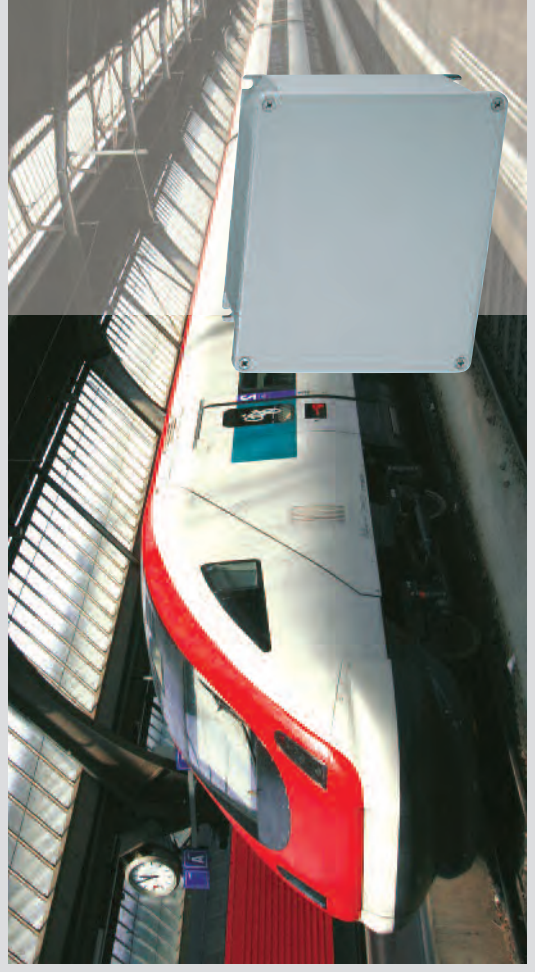
Protection degree:	IP66/67
Operating ambient temperature according to the reference standard:	-25°C +60°C
Max. operating ambient temperature (Short period):	-40°C +90°C
Material:	Aluminium alloy
IK degree at 20°C:	IK08
Cable inlets:	Blank sides
DIN rail fixing	Yes
Colour:	Grey RAL 9006 with metallic pigments
Heavy duty appliance for internal industrial applications.	

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Resistant	Resistant	Resistant



■ APPLICATION EXAMPLES



■ CABLE REELS WITH AUTOMATIC REWIND



■ REFERENCE STANDARDS

EN 61242
Electrical accessories.
Cable reels for household
and similar purposes.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant



Portable lamp: handle made of non-hygroscopic insulating material, conforms to EN 60598-2-8 and all live parts are completely insulated. There is a hooking eye on the AUTOROLLER for hanging up the lamp when it is not in use.



Wall mounting bracket: allows the Autoroller to be secured onto any vertical surface. There is housing for the safety transformer and two cable clamps are fitted onto the rear of the bracket. When correctly installed, the bracket allows the unit to swivel 310° in the direction of the cable pull.

■ VERSIONS

	Cable reel without plug and connector - IP41
	Cable reel with domestic plug and trailing socket for domestic application - IP40
	Cable reel with plug and portable lamp - IP20
	Cable reel with plug and portable lamp - IP40

■ TECHNICAL CHARACTERISTICS

Rated current:	2,5A-4A-6A-10A
Rated voltage:	12±24V ~ - 230V ~
Frequency:	50Hz
Insulating voltage:	250V ~
SELV transformer 220/24V:	60W
Protection degree:	IP20-IP40-IP41
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	60°C
Glow wire test:	650°C/850°C
Material:	Tecnopolimero
IK degree at 20°C:	IK08
Max load wound:	2300W
Cable:	H07RN-F (cable reel with plug and portable lamp) H05VV-F

■ APPLICATION EXAMPLES



AUTOROLLER Series

■ STRUCTURAL CHARACTERISTICS

- 1 - Wall mounting bracket**
Made of an engineering plastic, it is designed to hold the cable reel and allow it to swivel through 310°.
- 2 - Automatic rewind unit**
A sturdy casing made of engineering plastic contains the automatic cable rewind device, which is made up of a high-strength spring.
- Electrical continuity is maintained at all times by means of an integral slip-ring configuration (rated at 10 A). Two rollers located at the cable outlet ensure kink-free rewinding.
- 3 - Transformer (SELV)**
An isolating transformer can be fitted on the wall bracket.

A luminous two-pole switch connected to the primary winding indicates ON/OFF status, while a fuse on the secondary winding protects the transformer against overcurrents.

4 - Cable
Cable lengths up to 16 m can be wound onto the drum. Problem-free winding of both PVC and rubber cables is assured.

5 - Power supply
Power can be supplied either through the rewind unit or through the reeling cable. Factory-wired units supplied by Scame come equipped with a plug connected to the drum casing by a cable, and with a connector or a portable lamp connected to the reeling cable.

■ INSTRUCTIONS FOR USE

The cable coiler is equipped with a spring for cable winding. This mechanical device is constantly in operation; therefore make sure that both during winding and unwinding the cable is accompanied during its movement and NEVER left free.

If used on an automatic machine, appropriate guards shall be installed in order to prevent any damage to persons or things in the event of any cable or spring breakage.

The cable coiler is provided with cable blocking device at every turn of the coil.

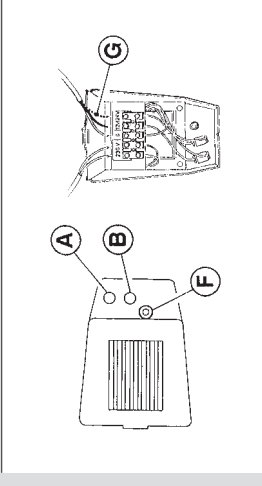
When working with cable unwound and ratchet stop on, make sure that the cable is not accidentally touched (the catch may be released and the cable may wind up uncontrolledly).

■ CABLE REEL WITH TRANSFORMER

The transformer has a power of 60 Watt, protected through circuit breakers against short circuits and overloads due to the use of bulbs with power above 60 Watt.

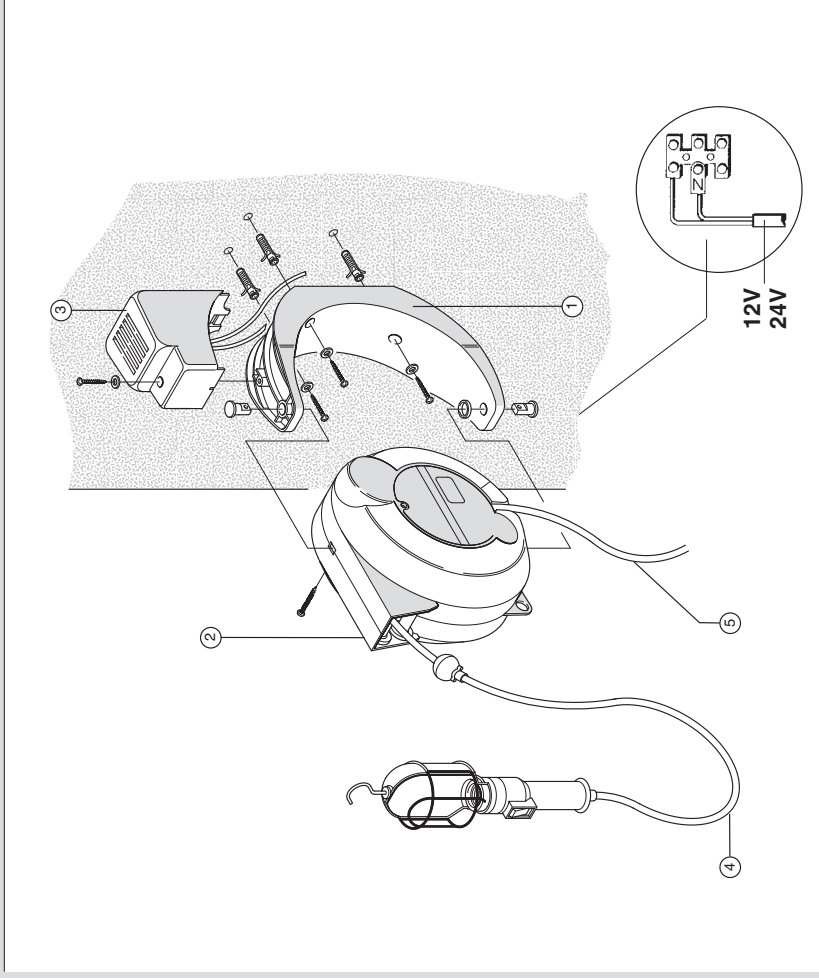
In case of overload, the circuit breaker breaks the circuit; before connecting it again wait a moment to allow the cooling of the circuit breaker and then press the button A for 12 Volt running and the button B for 24 Volt.

For changing power it is necessary to disconnect the current supply unscrewing the screw F and then connecting the G wire to the junction-box of requested power.



CABLING NOTES

The versions supplied without connector and plug may be cabled directly to the appliances: correct installation requires a cable clamp capable of withstanding the pull forces and a cable sleeve to protect the cable from abrasion.



■ DOMESTIC PLUGS, SOCKETS AND MULTI-OUTLET SOCKETS



■ REFERENCE STANDARDS

CEI 23-50

Socket-outlets for household and similar purposes.
Part 1: general requirements.

■ QUALITY MARKS



■ VERSIONS



Plugs with straight outlet



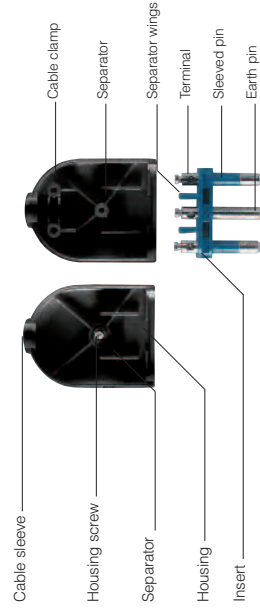
Flat plugs with angled outlet



Trailing socket with straight outlet

■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V ~
Frequency:	50Hz
Insulating voltage:	250V ~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max operating ambient temperature:	60°C
Cabling capacity of the terminals:	10A: 0,75 - 1,5mm ² 16A: 0,75 - 2,5mm ²
Glow wire test:	750°C
Halogen free:	Yes
Material:	Engineering plastic
Colour:	White RAL 9010 Black RAL 9011



Cable sleeve
Housing screw
Separator
Housing
Insert
Cable clamp
Separator
Separator wings
Terminal
Sleeved pin
Earth pin

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ DOMESTIC ADAPTORS



■ REFERENCE STANDARDS

CEI 23-57
Plugs and sockets for domestic and similar applications.
Part 2: specific requirements for adaptors.



■ QUALITY MARKS



■ VERSIONS



One-way adaptors



Multi-way adaptors

■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max operating ambient temperature:	60°C
Glow wire test:	750°C
Halogen free:	Yes
Material:	Engineering plastic
Colour:	White RAL 9010 Black RAL 9011

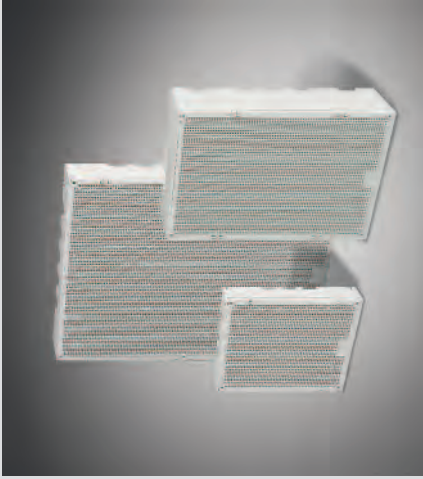
■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ EMPTY DISTRIBUTION ASSEMBLIES



■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 1: general requirements.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant




■ QUALITY MARKS



■ APPLICATION EXAMPLES



■ VERSIONS

	1 module
	2 module
	4 module

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP41
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max. operating ambient temperature	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Halogen free:	Yes
Colour:	Grey RAL 7035

■ DISTRIBUTION ASSEMBLIES



■ REFERENCE STANDARDS

EN 62208

Empty enclosure for low-voltage switchgear and controlgear assemblies.
Part 1: general requirements.

EN 60670-24

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 24: particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment.

EN 61439-3

Low-voltage switchgear and controlgear assemblies.
Part 3: distribution boards intended to be operated by ordinary persons (DBO).

EN 61439-4

Low-voltage switchgear and controlgear assemblies.
Part 4: particular requirements for assemblies for construction sites (ACS)

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 1: general requirements.

CEI 23-49

Enclosure for accessories for household and similar fixed electrical installations.
Part 2: particular requirements for enclosures for protection devices and accessories dissipating a considerable power in normal use.

■ VERSIONS



BLOCK1 (110x280x95mm)
- Portable or surface mounting empty units.



BLOCK3 (136x440x114mm)
- Surface mounting
- Panel mounting
- Mobile on appropriate stand
- Portable with cable and plug



BLOCK4 (212x415x114mm)
- Surface mounting
- Panel mounting
- Mobile on appropriate stand
- Portable with cable and plug



BLOCK5 (272x414x110mm)
- Portable or surface mounting empty units.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant



BLOCK3 Series



BLOCK4: built-in foldaway handle.



BLOCK4: Metal stand.

■ TECHNICAL CHARACTERISTICS

Rated current: **IP44-IP66**

Operating ambient temperature according to the reference standard:

-25 °C +35 °C

Max. operating ambient temperature: **60 °C**

Glow Wire test: **650 °C**

Material: **Engineering plastic**

IK degree at 20 °C: **IK08**

Cable inlet: **PG13,5 - PG21**

Insulation class: **Class II (double insulation)**

Dissipable power according to CEI 23-49 standard: **8-15W**

Colour: **Grey RAL 7035**

■ QUALITY MARKS



■ DOMESTIC PLUGS, SOCKET AND MULTI-OUTLET SOCKETS



■ REFERENCE STANDARDS

CEI 23-50

Plugs and socket outlets for household and similar purposes.
Part 1: general requirements.

CEI 23-124

Plugs and socket outlets for household and similar purposes.
Part 2-7: particular requirements for cord extension set.

■ QUALITY MARKS

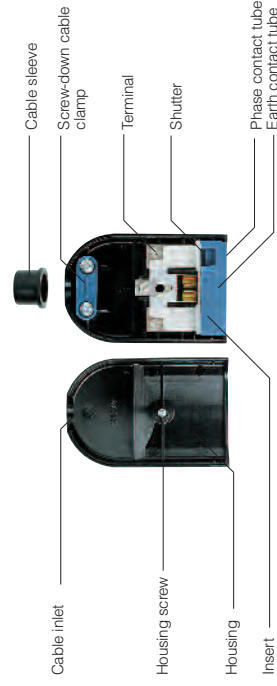


■ VERSIONS

	Plugs with straight outlet
	Flat plugs with angle outlet
	Trailing socket with straight outlet
	Multi-outlet sockets

■ TECHNICAL CHARACTERISTICS

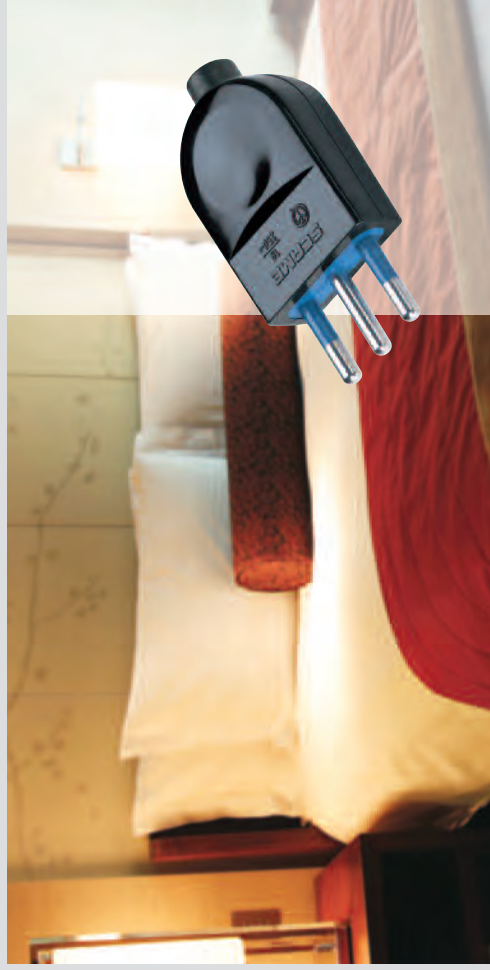
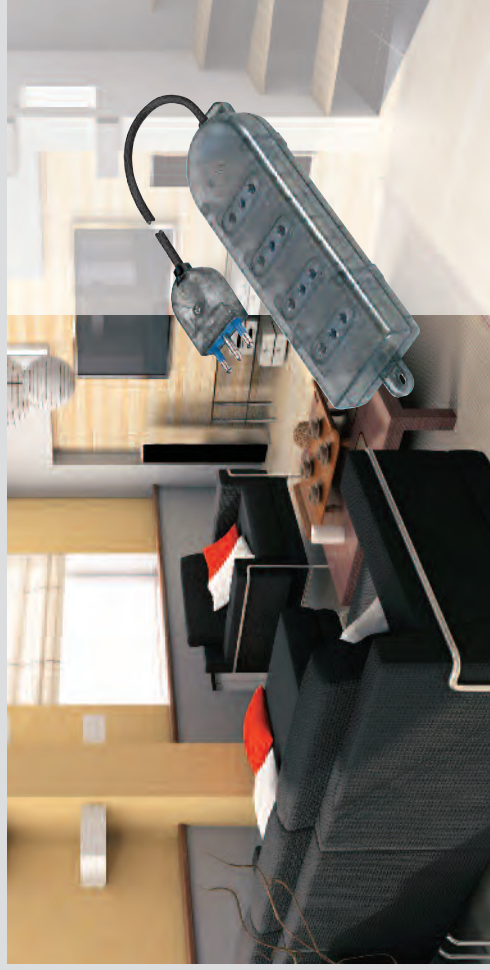
Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max operating ambient temperature:	60°C
Cabling capacity of the terminals:	10A: 0,75 - 1,5mm ² 16A: 0,75 - 2,5mm ²
Glow wire test:	750°C
Material:	Engineering plastic
Colour:	White RAL 9010 Black RAL 9011 Anthracite RAL 7021 Tinted (transparent) Turquoise (transparent)



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ DOMESTIC ADAPTORS

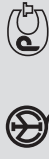


■ REFERENCE STANDARDS

CEI 23-57
Plugs and sockets for domestic and similar applications.
Part 2: specific requirements for adaptors.



■ QUALITY MARKS

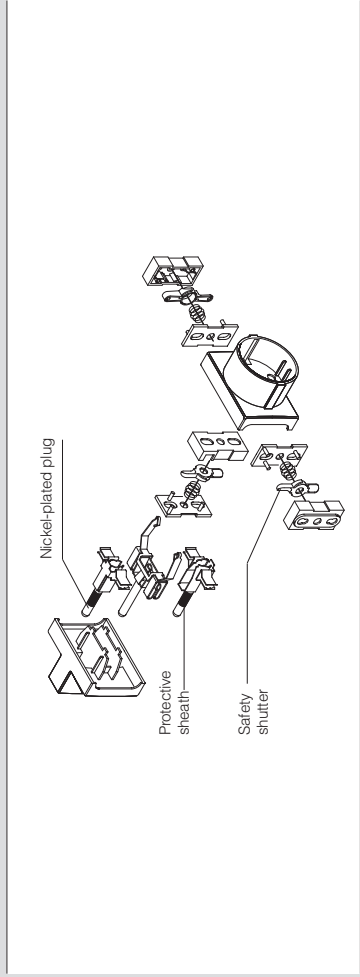


■ VERSIONS

	One-way adaptors
	Multi-way adaptors
	With USB

■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max operating ambient temperature:	60°C
Glow wire test:	750°C
Halogen free:	Yes
Material:	Engineering plastic
Colour:	White RAL 9010 Black RAL 9011



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ DOMESTIC ADAPTORS AND MULTI-OUTLET SOCKETS WITH OVERVOLTAGE PROTECTION



■ VERSIONS



Single adaptor socket with special device to protect against voltage overload in the electrical supply



Multi-outlet sockets with lighting protection

Lightning protection devices are fitted with an overload dissipater, a special electric circuit protected by a phase and neutral fast fuse protection having nominal tension of 250V~. Maximum dissipation of overload energy: 21J. Minimum overload tension at which dissipation is triggered off: 300V.

Discharge current: 1,2 kA (8/20µs).
When the pilot light is on it means that the overload dissipater is working efficiently.

■ REFERENCE STANDARDS

CEI 23-50

Plugs and sockets-outlets for household and similar purposes.
Part 1: general requirements

CEI 23-57

Plugs and sockets for domestic and similar applications.
Part 2: specific requirements for adaptors.



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	750°C
Material:	Engineering plastic
Colour:	White RAL 9010 Tinted (transparent) Turquoise blue (transparent)

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ HIGH RATING SWITCH DISCONNECTORS - 160A-1600A



■ REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors
and fuse-combination unit.

■ TECHNICAL CHARACTERISTICS 3P, 3P+N






Switch size	K2		K3		K4		K5		K6	
	160	200	400	500	630	800	1000	1250	1500	1600 (*)
Rated current In	(V)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage	(kV)	12	12	12	12	12	12	12	12	12
Impulse withstand voltage	(kV)	12	12	12	12	12	12	12	12	12
Rated thermal current	(A)	160	200	250	315	400	500	630	800	1000
Rated operational current - Ie	AC21A	(A)	160	200	250	315	400	500	630	800
	Resistive loads, including moderate overloads	(A)	160	200	250	315	400	500	630	800
	AC22A	(A)	160	200	250	315	400	500	630	800
Mixed resistive and inductive loads, including moderate overloads	(A)	160	200	250	315	400	500	630	800	1000
	AC23A	(A)	160	200	250	315	400	500	630	800
Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	(A)	125	160	200	250	315	315	500	800	800
	(A)	100	125	160	200	250	250	400	400	400
	AC23A Rated operational power (*)	kW	85	105	130	165	200	210	330	420
Rated making capacity	415V AC23	(A)	1600	2000	2500	3150	4000	4000	6300	6300
Rated breaking capacity	415V AC23	(A)	1280	1600	2000	2520	3200	5040	5040	5040
Short circuit withstand current 1sec	(kA)	8	8	8	13	13	13	26.5	35	35
	(kA)	16	16	16	26	26	26	53	70	70
Short circuit making capacity	(kA)	13.5	13.5	13.5	26	26	26	30	73.5	73.5
	(A)	160	200	250	315	400	400	630	800	1000
Rated fuse short-circuit current	(kA)	100	50	50	50	50	50	100	100	100
Flexible wire	mm ²	120	120	185	2x150	2x150	2x185	2x240	-	-
	mm	20x5	20x5	2x (25x4)	2x (25x4)	2x (25x4)	2x (25x4)	2x (25x4)	2x (25x4)	2x (25x4)

(*) Neutral pole 1250A

Full current neutral pole available on request.

(*) Values are given for guidance and may vary according to the specifics provided by the motor manufacturer.

■ VERSIONS

	Switch size K2 Box version (B) Base mounting screws fixing
	Switch size K3 Box version (B) Base mounting screws fixing
	Switch size K4 Box version (B) Base mounting screws fixing
	Switch size K5 Box version (B) Base mounting screws fixing
	Switch size K6 Box version (B) Base mounting screws fixing

■ TECHNICAL CHARACTERISTICS

Polarity:	3P-3P+N
Rated current:	160A-200A-250A-315A-400A 500A-630A-800A-1000A 1250A-1600A (*)
Protection degree:	IP65 (front operator)
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	+60°C
3P+N with late break early make neutral pole	Front operators box version equipped with door locking in ON position. Padlockable handle.
Full current neutral pole up to 1250A.	(*) Neutral pole 1250A.
Full current neutral pole available on request.	

■ CHANGE-OVER SWITCHES I/O/II - 16A-160A



■ REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors
and fuse-combination unit.

■ TECHNICAL CHARACTERISTICS 3P, 3P+N

Switch size	Y3					Y4			Y5			
	16A	25A	32A	40A	63A	80A	100A	125A	160A	800	800	800
Rated current In	800	800	800	800	800	800	800	800	800	800	800	800
Rated insulation voltage	Ui											
Rated impulse withstand voltage	Uimp											
Thermal current	Ith/Ithe											
Rated operational current - Ie	AC21A											
	415V											
	Resistive loads, including moderate overloads											
	500V											
	690V											
Rated operational current - Ie	AC22A											
	415V											
	Mixed resistive and inductive loads, including moderate overloads											
	500V											
Rated operational current - Ie	AC23A											
	415V											
	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)											
	500V											
Rated short time withstand current	low (1 s)											
Conditional short circuit current	kA _{eff}											
Associate fuse size for conditional short circuit current - Type gG	A											
Flexible wire	mm ²											
Rigid wire	mm ²											

■ VERSIONS



Switch size Y3
Box version (B)
Base mounting DIN rail fixing or screws fixing



Switch size Y4
Box version (B)
Base mounting DIN rail fixing or screws fixing



Switch size Y5
Box version (B)
Base mounting DIN rail fixing or screws fixing

■ TECHNICAL CHARACTERISTICS

Polarity: **3P-3P+N**

Rated current: **16A-25A-32A-40A-63A**
80A-100A-125A-160A

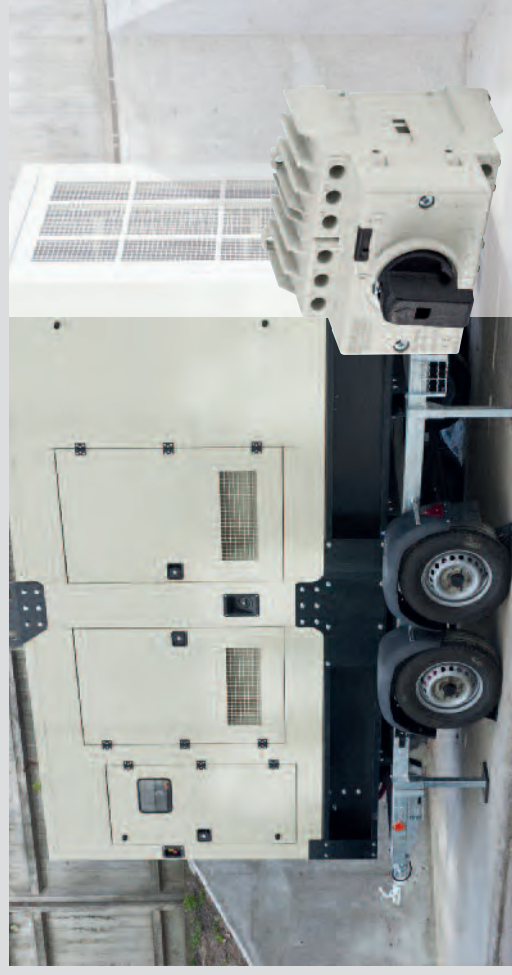
Protection degree: **IP65**

Operating ambient temperature according to the reference standard: **-25°C +40°C**

Max operating ambient temperature: **+60°C**

3P+N with late break early make neutral pole.
Front operators box version equipped with door locking in ON position.
Padlockable handle.

■ APPLICATION EXAMPLES



PHOTOVOLTAIC/DC SWITCH DISCONNECTORS - 450-800 DC



REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

IEC 60364-7-712

Requirements for special installations or locations
Solar photovoltaic (RV) power supply systems.

TECHNICAL CHARACTERISTICS 4P-5P-6P-8P

Switch size	Y1			Y3			Y5	
	16A	15A	20A	25A	30A	40A	30A	40A
Rated current In								
Rated insulation voltage	Ui							
Rated impulse withstand voltage	Uimp							
Thermal current	Ith/Ithe							
Number of poles in series	-							
Rated operational current - Ie	300V	-						
	400V	-						
	450V	-						
	500V	-						
	600V	-						
	750V	-						
Rated short time withstand current - Icw (1s)	low							
	-							
Flexible wire	mm ²							
Rigid wire	mm ²							

DC21A
Resistive loads, including moderate overloads

VERSIONS

	Switch size Y1 Box version (B) Base mounting DIN rail fixing
	Switch size Y3 Box version (B) Base mounting DIN rail fixing or screws fixing
	Switch size Y5 Box version (B) Base mounting DIN rail fixing or screws fixing

Scame embraces completely the renewable energy sources philosophy and the respect for the environment. In our production plant and office building we have installed 250kWp of photovoltaic system. We follow up this field in several countries with a wide range of products. From our experience is born the new range of DC isolators specific for photovoltaic systems. In accordance to the IEC 60364-7-712, in every photovoltaic installation it is necessary to isolate the photovoltaic panel from the rest of the system, DC isolators must have a higher performance than the traditional AC isolators because breaking direct current is more difficult than breaking alternating current, and furthermore in a photovoltaic system the voltage can reach even 800V.

TECHNICAL CHARACTERISTICS

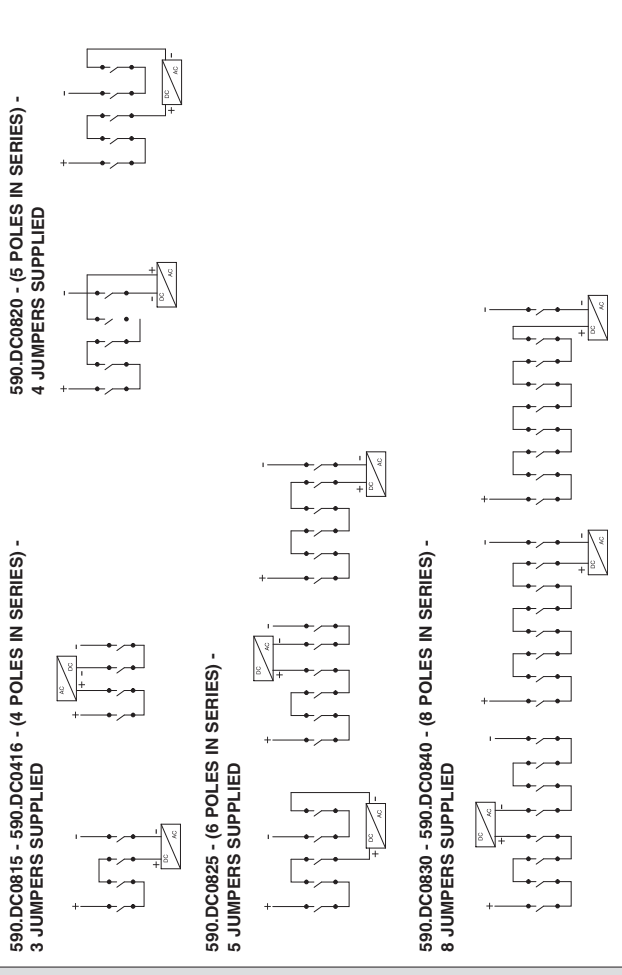
Poles in series:	4P-5P-6P-8P
Rated current (800V):	10A-15A-16A-20A-25A-30A-40A
Protection degree:	IP65 (front operator)
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	+60°C
Front operators box version equipped with door locking in ON position. Padlockable handle.	

The current and voltage values changes depending on the combination of the photovoltaic cells. DC Isolator range has been set up focusing on all of the main photovoltaic installations in order to get a range as essential as possible, simplify the choice of the customer and for have the maximum quality and technical characteristics. In the meantime we are improving and up grading constantly our products, following and anticipating the change that the market requires due to the incentives available. Scame ISOLATORS Series includes also a complete range of AC isolators, essential to make a photovoltaic system in compliance with IEC 60364-7-712. Finally in the photovoltaic range it is available a huge range of water tight cabinets and consumer unit suitable for make distribution board & export control.

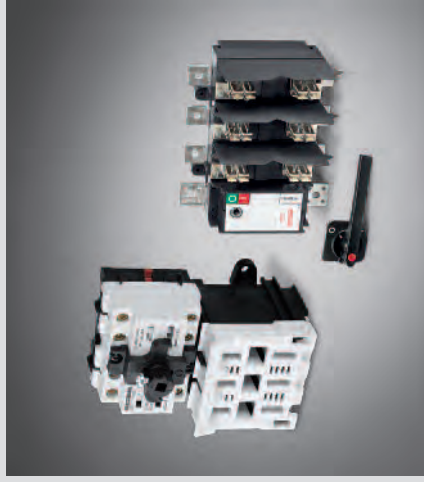
POSSIBLE CONTACT WIRINGS

SWITCH LINKING

In order to make easier the work of the installer, it is possible to choose the manner of wiring of the poles in series. In this way the incoming and the outgoing can be varied both on the top side and on the bottom side. In the packaging, jumpers are supplied to cover the chosen configuration.



■ SWITCH DISCONNECTORS WITH FUSES - 16A-630A



■ REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

■ TECHNICAL CHARACTERISTICS 2P,3P, 3P+N

Switch size	YF1						KF2						KF3						KF4						KF5					
	16A	32A	63A	80A	100A	125A	160A	200A	250A	315A	400A	630A	80A	100A	125A	160A	200A	250A	315A	400A	630A	80A	100A	125A	160A	200A	250A	315A	400A	630A
Rated current In																														
Rated insulation voltage	UI															UI														
	VAC															VDC														
Rated impulse withstand voltage	kV															kV														
	4															8														
Thermal current	A															A														
	400V															400V														
AC21A	Resistive loads, including moderate overloads															Resistive loads, including moderate overloads														
	500V															500V														
	690V															690V														
	400V															400V														
AC22A	Mixed resistive and inductive loads, including moderate overloads															Mixed resistive and inductive loads, including moderate overloads														
	500V															500V														
	690V															690V														
	400V															400V														
AC23A	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)															Switching of motor loads or other highly inductive loads (3 phase / 3 pole)														
	500V															500V														
	690V															690V														
	400V															400V														
DC21A	Resistive loads, including moderate overloads															Resistive loads, including moderate overloads														
	220V															220V														
	400V															400V														
	600V															600V														
DC22A	Mixed resistive and inductive loads, including moderate overloads															Mixed resistive and inductive loads, including moderate overloads														
	220V															220V														
	400V															400V														
	600V															600V														
DC23A	Switching of highly inductive loads (e.g. series motors)															Switching of highly inductive loads (e.g. series motors)														
	220V															220V														
	400V															400V														
	600V															600V														
Short circuit protection	K _{scif}															K _{scif}														
	A															A														
Fuse type	gG															gG														
	DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS															DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS/DIN/BS														
Rated making capacity at 420V c.a. cos 0,35 (0,45°)	A															A														
	160															160														
Rated making capacity at 420V c.a. cos 0,35 (0,45°)	A															A														
	1,5-10															1,5-10														
Flexible wire	mm ²															mm ²														
	16-8															16-8														
Bars dimension	mm															mm														
	12x3															12x3														

■ VERSIONS

	Switch size YF1 Box version (B) Base mounting DIN rail fixing
	Switch size KF1 Box version (B) Base mounting screws fixing
	Switch size KF2 Box version (B) Base mounting screws fixing
	Switch size KF3 Box version (B) Base mounting screws fixing
	Switch size KF4 Box version (B) Base mounting screws fixing
	Switch size KF5 Box version (B) Base mounting screws fixing

■ TECHNICAL CHARACTERISTICS

Polarity: **2P-3P-3P+N (16A-32A)**
3P-3P+N (63A-100A-125A-160A-200A-250A-315A-400A-630A)

Rated current: **16A-32A-63A-100A-125A-160A-200A-250A-315A-400A-630A**

Protection degree: **IP65 (front operator)**

Operating ambient temperature according to the reference standard: **-25°C +40°C**

Max operating ambient temperature: **+60°C**

3P+N with late break early make neutral pole.
Front operators box version equipped with door locking in ON position.
Padlockable handle.

CONNECTING ACCESSORIES



REFERENCE STANDARDS

IEC 60998-1

Connecting devices for low voltage circuits for household and similar purposes.
Part 1: general requirements.

IEC 60998-2-1

Connecting devices for low voltage circuits for household and similar purposes.
Part 2-1: particular requirements for connecting devices as separate entities with screw-type clamping units.

QUALITY MARKS



VERSIONS

Insulated wire connectors



Multi-way wire connectors



Terminal strips



APPLICATION EXAMPLES



CONNECTION CAPACITY

Connec. capacity mm ²	Rated current A	Type of conductor	T85 DOMINO CONNECTORS Conductors size (mm ²) and number														
			0,75	1	1,5	2,5	4	6	10	16	25	35	50				
10	57	rigid	-	-	1-4	1-3	1-2	1	1	-	-	-	-	-	-	-	-
		flexible	-	-	1-4	1-3	1-2	1	1	-	-	-	-	-	-	-	-
16	76	rigid	-	-	-	1-4	1-3	1-2	1	1	-	-	-	-	-	-	-
		flexible	-	-	-	1-4	1-3	1-2	1	1	-	-	-	-	-	-	-

Connec. capacity mm ²	Fixing hole Ø (mm) (•)	Rated current A	Type of conductor	INSULATED WIRE CONNECTORS - SINGLE AND IN STRIPS Conductors size (mm ²) and number													
				0,75	1	1,5	2,5	4	6	10	16	25	35	50			
1,5	3	17,5	rigid	2-4	1-3	1-2	1										
			flexible	2-4	1-3	1-2	1										
2,5	4	24	rigid	3-5	2-3	1-2	1										
			flexible	2-4	2-3	1-2	1										
4	4,6	32	rigid	3-4	2-3	1-2	1										
			flexible	3-4	2-3	1-2	1										
6	6	41	rigid	3-5	2-3	1-2	1										
			flexible	3-4	2-3	1-2	1										
10	8	57	rigid	3-5	2-4	1-2	1										
			flexible	3-4	2-3	1-2	1										
16	10	76	rigid	3-5	2-3	1-2	1										
			flexible	3-4	2-3	1-2	1										
25	12	101	rigid	2-3	2-3	2	1										
			flexible	3-5	2-3	2	1										
35	14	125	rigid	2-4	1-3	1-2	1										
			flexible	2-4	1-3	1-2	1										

Connec. capacity mm ²	Fixing hole Ø (mm) (•)	Rated current A	Type of conductor	T140 AND T85 TERMINAL STRIPS Conductors size (mm ²) and number													
				0,75	1	1,5	2,5	4	6	10	16	25	35				
2,5	2,7	24	rigid	1-3	1-2	1	1										
			flexible	1-2	1-2	1	1										
4	3	32	rigid	2-4	1-3	1-2	1	1									
			flexible	1-2	1-2	1	1										
6	3,5	41	rigid	1-3	1-2	1	1										
			flexible	1-3	1-2	1	1										
10	4,4	57	rigid	1-2	1-2	1	1										
			flexible	2-3	1-2	1	1										
16	5,5	76	rigid	2	1-2	1	1	1									
			flexible	2-4	2-3	1	1	1									
25	7,4	101	rigid	2-3	1-2	1	1	1									
			flexible	2-3	1-2	1	1	1									
35	9	125	rigid	2-4	1-2	1	1	1									
			flexible	2-3	1-2	1	1	1									

The table refers to a single terminal and to connections from one side only.

Connec. capacity mm ²	Rated current A	Type of conductor	MULTI-WAY WIRE CONNECTORS - T85 Conductors size (mm ²) and number														
			1	1,5	2,5	4	6	10	16	25	35	50					
6	41	rigid	1-6	1-4	1-3	1-2											
		flexible	1-7	1-5	1-4	1-3	1-2										
16	76	rigid	1	1	1	1											
		flexible	1-4	1-2	1	1	1										
35	125	rigid	1-4	1-2	1	1	1										
		flexible	1-2	1	1	1	1										

■ JUNCTION BOXES FOR ELECTRICAL INSTALLATIONS



■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. *Part 1: general requirements.*

EN 60670-22

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. *Part 22: particular requirements for connecting boxes and enclosures.*

■ QUALITY MARKS



■ VERSIONS



CUBIK 650 Series
Glow wire 650°C halogen free:
- With cable sleeve and release cover
- With cable sleeve and 1/4 turn screw cover
- With blank sides and 1/4 turn screw cover



CUBIK 960 Series
Glow wire 960°C:
- With cable sleeve and release cover
- With cable sleeve and 1/4 turn screw cover
- With blank sides and 1/4 turn screw cover



CUBIK 960 Series
Glow wire 960°C (red versions):
- With cable sleeve and release cover
- With cable sleeve and 1/4 turn screw cover
- With blank sides and 1/4 turn screw cover

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant



Glow wire 960°C versions (also in red) are identifiable by the symbol marked on the external side.



■ APPLICATION EXAMPLES



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP55
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/960°C
Material:	Engineering plastic
IK degree at 20°C:	IK07
Cable inlets:	Cable sleeve / Blank sides
Halogen free:	Yes (CUBIK 650 Series)
DIN rail fixing:	Yes
Colour:	Grey RAL 7035 - Red
Insulation class:	Class II (double insulation)



Internal fixing system

Connecting boxes up to 80x80x40mm dimensions feature two internal knock out fixing slots.
Connecting boxes over 100x100x50mm dimensions feature four internal knock out fixing slots.



Back fixing system

Versions up to 80x80x40mm dimensions can also be screwed to existing fixings on the wall. The fixings feature has to be an external M7 threaded pin, which is designed to fit with the base of boxes.
In addition, specific reeding is on the backside so to avoid any accidental rotational movement of the box.



External fixing system

Connecting boxes above 100x100x50mm dimensions can also be wall mounted by four fixing slots featured outside the cabling area to avoid piercing the box.



Closing

The cover is available either as a pressure-type for the small boxes or closed with four 1/4 - turn screws for the larger boxes.
The 1/4 - turn screw versions feature 0-1 markings indicating Open-close.



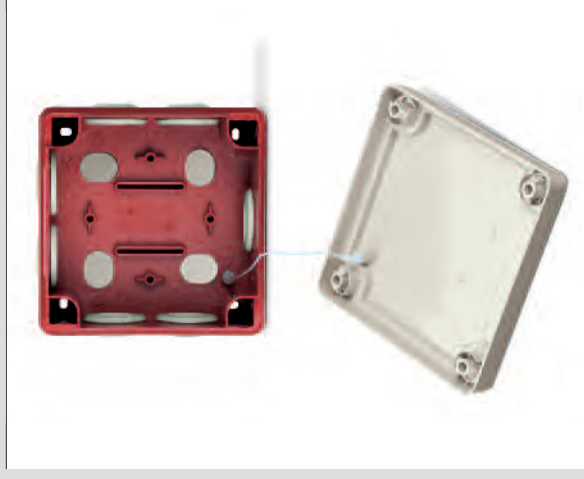
Capacity

Series CUBIK connector blocks are very spacious; raised walls increase the internal room, making any cabling operation easier.



Cables sleeves

Cable sleeve provided with the kit consist of 5 different levels allowing the identification of pipe and wire diameters, making precise cut for cable easier and cable positioning quicker.
Versions up to 80x80x40mm dimensions are equipped with 23mm-diameter cable sleeve that fit 5, 8, 12, 16 or 20mm-diameter wires or pipes; on the contrary, versions up to 100x100x50mm dimensions are provided with 29mm-diameter cable sleeve that fit 5, 12, 16, 20 and 25mm diameters. The cable sleeve completely fit the pipe/wire in a reliable way.



Captive cover

This cover has been designed for all versions with a support cable to retain the cover.



Wall fixing system.

Insulating caps

All versions are provided with caps to provide total insulation.

■ JUNCTION BOXES FOR ELECTRICAL INSTALLATIONS



■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. *Part 1: general requirements.*

EN 60670-22

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. *Part 22: particular requirements for connecting boxes and enclosures.*




■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant


■ APPLICATION EXAMPLES



■ VERSIONS

	- With cable sleeve and release cover
	- With cable sleeve and 1/4 turn screw cover
	- With blank sides and 1/4 turn screw cover

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP55
Operating ambient temperature according to the reference standard:	-25 °C +35 °C
Max. operating ambient temperature:	60 °C
Glow Wire test:	650 °C
Material:	Engineering plastic
IK degree at 20 °C:	IK07
Cable inlets:	Cable sleeve / Blank sides
Halogen free:	No
DIN rail fixing:	Yes
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) 

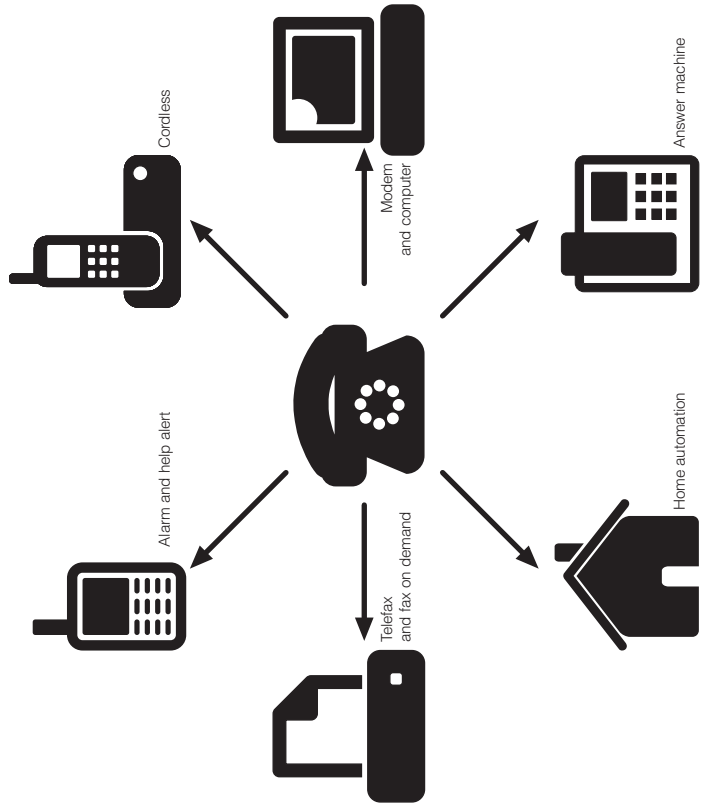
COMPONENTS FOR TELEPHONE INSTALLATIONS



The telephone network is gradually evolving - it's not only voices and sounds that travel along the telephone cable but also digital signals. This important expansion demands new skills from the qualified installer, who is in the position of having to wire "intelligent" buildings, or to transform and adapt traditional telephone installations to conform to the new requirements.

A simple on-off sequence, the presence or absence of agreed tones and signals can make high technology appliances communicate, both in domestic use and in the service industry. The number of appliances connected to the network is multiplying: internet and digital TV, alarms or help alerts, user and appliance controls and commands - and so, at home and in the office, it all has to be inter-connected within the same installation.

For the qualified installer, Scame is offering a series of products that will satisfy most of the common needs both for wiring up and for expanding a telephone installation.



Surface and flush mounting RJ socket 6/4



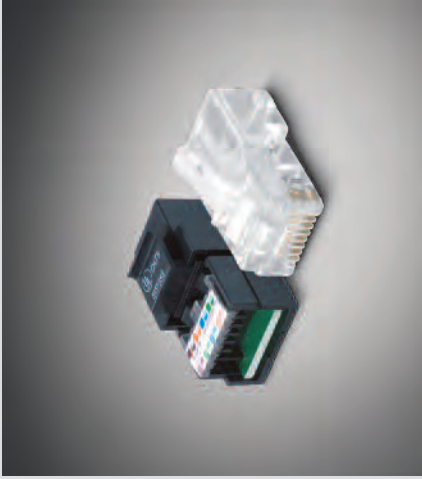
Surface mounting RJ Socket 6/4

APPLICATION EXAMPLES



DATEL-DATA Series

COMPONENTS FOR CLASS 5E TRANSMISSION SYSTEMS



REFERENCE STANDARDS

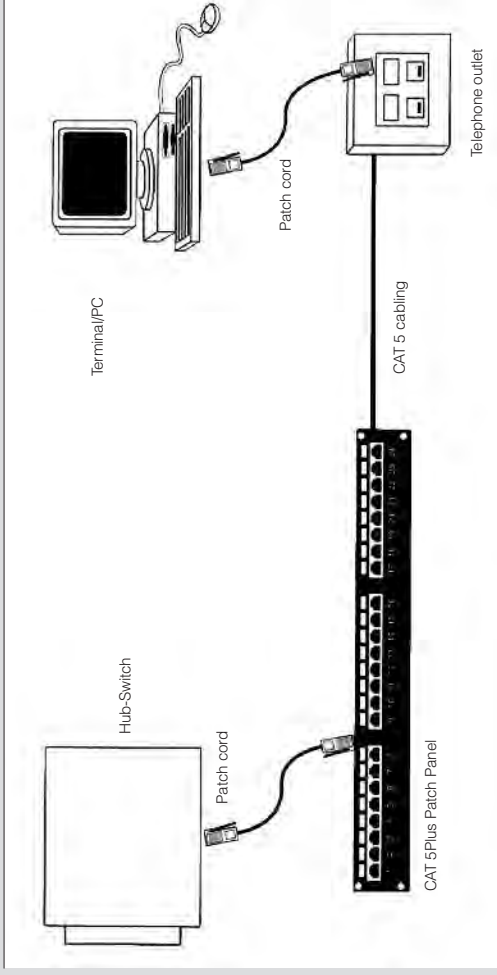
<p>ANSI/TIA/EIA-568 Commercial Building Telecommunications Cabling Standard.</p>
<p>ISO/IEC 11801 Information Technology-Generic Cabling for Customer Premises.</p>
<p>EN 50173 Information technology Generic cabling systems.</p>

EIA TIA 565/A or /B Standards (the extensions A or B refer to different cabling); this US Standard first introduced the term "CAT. 5" to classify the cabling transmission features and application fields. CAT. 5 equipments are suitable for 100 Mbs up to 100 MHz.

IEC 11801, International Standard for generic cabling. The transmission features are classified according to different.

EN 50173 is similar to U.S. and international standards.

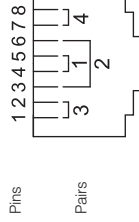
EXAMPLE OF A "CAT. 5E" DATA TRANSMISSION SYSTEM



APPLICATION EXAMPLES



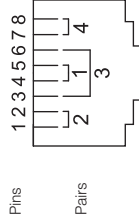
EIA/TIA 568A



Pin Colours

- 1- White and green
- 2- Green
- 3- White and orange
- 4- Blue
- 5- White and blue
- 6- Orange
- 7- White and brown
- 8- Brown

EIA/TIA 568B



Pin Colours

- 1- White and orange
- 2- Orange
- 3- White and green
- 4- Blue
- 5- White and blue
- 6- Green
- 7- White and brown
- 8- Brown

COMPONENTS FOR TV INSTALLATIONS



REFERENCE STANDARDS

<p>CEI EN 50083 Communal aerial installations.</p>
<p>IEC 60169 Radio-frequency connectors.</p>

APPLICATION EXAMPLES



AERIAL INSTALLATION IS MADE UP OF:

- 1) The aerial that receives the audio/video signal.
- 2) The aerial unit for amplifying and mixing the received signal.
- 3) The distribution network that sends the signal to the user's socket.

In addition, an aerial installation can also be:

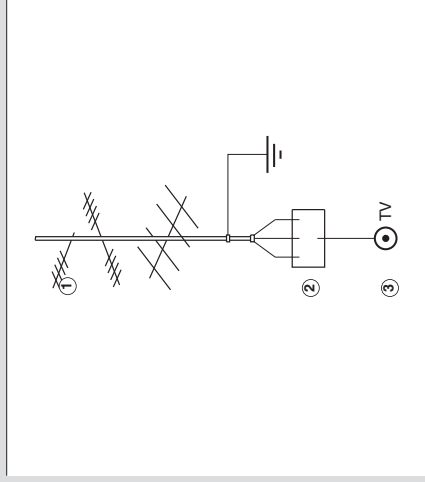
- a single aerial installation
 - a communal aerial installation.
- The aerial installation can be set up to receive radio signals as well as television signals.
- Scame offers a series of accessories for completing the distribution network:
- coaxial plugs and sockets for both surface and flush mounting;
 - cable dividers and junction boxes.

TECHNICAL CHARACTERISTICS OF TV PLUGS

- Direct type (of derivation).
- No attenuation (without devices for splitting the signal).
- Not technical with terminal resistance.
- Not to be connected to other sockets in cascade connection.

COAXIAL USER SOCKETS

- In order to guarantee the appropriate use of the installations, the plugs, sockets and TV outlets should insure the CEI EN 50083 standards.
- Efficient shunting, which makes T.V. signals immune to electromagnetic emissions present in the environment.
 - Avoid undesirable reflections of signals (impedance adaptation)
 - Coupling among various outlets or among various connections of plugs.



CONSUMER UNITS AND ENCLOSURES



VERSIONS

	Surface mounting - IP66
	Surface mounting - IP40 With window
	Surface mounting - IP40 Without window
	Flush mounting - IP40 With window


QUALITY MARKS



REFERENCE STANDARDS

EN 62208 Empty enclosure for low-voltage switchgear and controlgear assemblies. <i>Part 1: general requirements.</i>
EN 60670-24 Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. <i>Part 24: particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment.</i>
EN 61439-3 Low-voltage switchgear and controlgear assemblies. <i>Part 3: distribution boards intended to be operated by ordinary persons (DBO).</i>
EN 61439-4 Low-voltage switchgear and controlgear assemblies. <i>Part 4: particular requirements for assemblies for construction sites (ACS)</i>
EN 60670-1 Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. <i>Part 1: general requirements.</i>
CEI 23-49 Enclosure for accessories for household and similar fixed electrical installations. <i>Part 2: particular requirements for enclosures for protection devices and accessories dissipating a considerable power in normal use.</i>

TECHNICAL CHARACTERISTICS

Protection degree:	IP40-IP66
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
IK degree at 20°C:	IP40: IK06 IP66: IK07
Cable inlets:	PG/METRIC
Dissipable power according to CEI 23-49 standard:	9+140W
Colour:	Grey RAL 7035 White RAL 9003
Terminal blocks fixing possibility:	Yes
Insulation class:	Class II (double insulation) 

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Not Resistant	Resistant

APPLICATION EXAMPLES

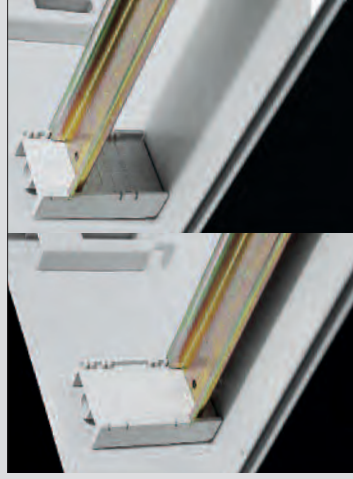


DOMINO Series

■ SURFACE MOUNTING IP66



Hinges, should be snap-fitted into their guides, can be mounted on the left or the right side, in the series versions 12 to 64 DIN modules.



DIN rail (EN 60715): can be placed on different levels.

■ SURFACE MOUNTING IP40



1/4 turn locking device.



Vertical connection.



The semi-transparent tinted window, lockable and sealable. To open it, just lower the handle provided. snap-closing.

SOCKETS FOR DOMESTIC APPLICATIONS



REFERENCE STANDARDS

CEI 23-50
Plugs and socket-outlets for household and similar purposes.
Part 1: general requirements.

IEC 60884-1
Plugs and socket-outlets for household and similar purposes.
Part 1: general requirements.

QUALITY MARKS



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Not Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

AVAILABLE STANDARDS

	ITALIAN STANDARD P17/11 - 16A Shuttered socket CEI 23-50		ITALIAN STANDARD P30 - 16A Shuttered socket CEI 23-50		PLURISTANDARD P40 - 16A Shuttered socket CEI 23-50		FRENCH STANDARD - 16A Shuttered socket NFC 61-314		ARGENTINIAN STANDARD - 10A Unshuttered socket IIRAM 2071		BRAZILIAN STANDARD - 10A Unshuttered socket ABNT NBR 14136:2002
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VERSIONS

	Panel mounting flange 50x60mm IP54.
	Panel mounting flange 70x87mm IP54.
	Surface mounting flange 70x87mm IP54.

TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	690V~
Protection degree:	IP44 closed cover/IP54
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/750°C
Material:	Engineering plastic
Cabling capacity of the terminals:	1,5mm ² +2x2,5 mm ²

DOMESTIC STANDARD SOCKETS FOR INDUSTRIAL APPLICATIONS



VERSIONS



Flush mounting flange 70x87mm IP66

CABLING CAPACITY OF THE TERMINAL

Rated voltage	Rated current (A)	Sockets	
		Min	Max
250V~	10A	0,75	2,5
	13A	2,5	6
	15A	2,5	6
	16A	1	2,5

(mmq)

REFERENCE STANDARDS

EN 60670-1 (2005-10)

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. Part 1: general requirements.

IEC 60884-1

Plugs and socket-outlets for household and similar purposes. Part 1: general requirements.

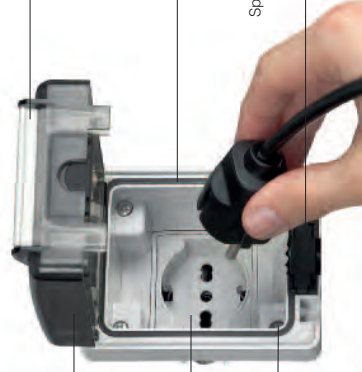
TECHNICAL CHARACTERISTICS

Rated current:	6A-10A-13A-15A-16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP66 (also with plug inserted)
Operating ambient temperature:	-5°C +60°C
Installation temperature:	-20°C +60°C
Glow Wire test:	650°C / 850°C (Contact-holder base)
Halogen free:	Yes
Material:	Engineering plastic
IK degree at 20°C:	IK08
Colour:	Base: Gray RAL 7035 Cover: tinted polycarbonate

Tinted polycarbonate cover to see inside

Tilting device holder (Fixed with additional terminal strip for English version)

Fixing screws within the insulating gasket



A wing on the lid assists one-handed opening

Co injected gasket to guarantee total insulation

Specifically high formulated gel seal to maintain protection degree when the plug is inserted

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

AVAILABLE STANDARDS

ITALIAN STANDARD P17/11 - 16A Shuttered socket CEI 29-50	ITALIAN STANDARD P30 - 16A Shuttered socket CEI 29-50	PLURISTANDARD P40 - 16A Shuttered socket CEI 29-50	GERMAN STANDARD - 16A Shuttered socket DIN VDE 0620	FRENCH STANDARD - 16A Shuttered socket NFC 61-314
BRITISH STANDARD - 13A Shuttered socket BS 1363-2	BRITISH STANDARD - 15A Shuttered socket BS 546	ARGENTINIAN STANDARD - 10A Unshuttered socket IRAM 2071	NEW ZEALAND STANDARD - 10A Unshuttered socket ASN25 3112	SWISS STANDARD - 10A Unshuttered socket SEV 1011:1998
SOUTH AFRICAN STANDARD - 16A Shuttered socket SANS 164-1 (2006)	BRAZILIAN STANDARD - 10A Unshuttered socket ABNT NBR 14136:2002	INDIAN STANDARD - 6/16A Shuttered socket IS 1283:1988		

APPLICATION EXAMPLES



WEATHER-PROOF ENCLOSURES



REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 1: general requirements.

CEI 23-49

Enclosure for accessories for household and similar fixed electrical installations.
Part 2: particular requirements for enclosures for protection devices and accessories dissipating a considerable power in normal use.

EN 62208

Empty enclosure for low-voltage switchgear and controlgear assemblies.
Part 1: general requirements.

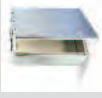
VERSIONS



LT enclosure
Special high resistance thermoplastic compound.



MV enclosure
Metal 15/10 painted with an epoxy resin suitable for inside use.



AI enclosure
Stainless steel.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Resistant

TYPES

Dimensions (mm)	rows of	max	
Type 1	320x370x210	12 DIN	24 DIN
Type 2	460x370x245	20 DIN	40 DIN
Type 3	460x320x245	20 DIN	60 DIN
Type 4	460x670x245	20 DIN	80 DIN
Type 5	775x715x345	35 DIN	140 DIN

There are 5 cabinets available in the EASYBOX Series, each with three different variations (LT, MV and AI):

DISSIPABLE POWER

Cabinet	DIN Modules			Set-up with chassis and DIN rail (W)			Set-up with base plate in L3 position (W)		
	LT	MV	AI	LT	AI	LT	MV	AI	
Type 1	24 DIN	35	45	30	40	65	40	40	
Type 2	40 DIN	50	60	42	84	105	62	62	
Type 3	60 DIN	58	73	47	100	125	78	78	
Type 4	80 DIN	85	98	63	125	150	94	94	
Type 5	140 DIN	138	155	-	235	280	-	-	

Dissipable power according to Italian standard CEI 23-49

APPLICATION EXAMPLES



QUALITY MARKS

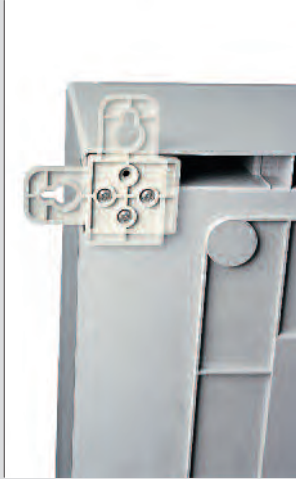


TECHNICAL CHARACTERISTICS

Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic/Metal
IK degree at 20°C:	IK08 (door with window) IK10 (plain door)
Cable inlets:	Blank sides (Engineering plastic) Plate (Metal)
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Colour:	Grey RAL 7035



Metal enclosures: stainless steel (AI) and metal 15/10 varnished with epoxy resin (MV) take the same accessories as the (LT) cabinets.



LT cabinet fixing brackets, positioned either horizontally or vertically for MV and AI enclosures.



Setting up with vertical mrcbb.

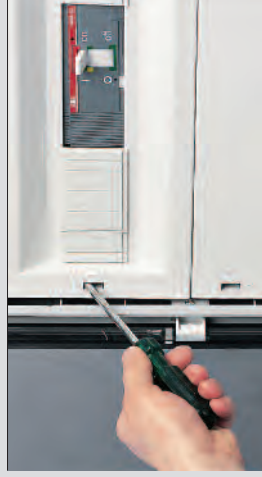


MODULARITY

The Easy-Box series offers a range of components that are modular and inter-changeable among the different enclosures. Enclosures with the same height or width can be placed above or beside each other, while enclosures of the same width have various components in common - DIN rails, modular plates, panels and accessories.



LT cabinet type 3: set up with 2 DIN rows and half module (blank panel 1/2 module).



EMERGENCY CALL POINTS



VERSIONS

	Flush mounting version IP55 with illuminated push button.
	Surface mounting version IP55 with illuminated push button.
	Surface mounting version IP65 with DIN Rail or mounting plate.

REFERENCE STANDARDS

<p>EN 60947-5-1 Low-voltage switchgear and controlgear. Part 5-1: control circuit devices and switching elements. <i>Electromechanical control circuit devices.</i></p>
<p>EN 60670-1 Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. <i>Part 1: general requirements.</i></p>

TECHNICAL CHARACTERISTICS

Protection degree:	IP55-IP65
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow wire test:	650°C
Material:	Engineering plastic and glass
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Halogen free:	Yes
Colour:	Red RAL 3000

TECHNICAL CHARACTERISTICS FOR EMERGENCY SWITCHING DEVICES

Rated voltage U _e :	250V
Category of use:	AC12
Rated current I _e :	2A
Rated insulation voltage U _i :	250V

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Not resistant	Not resistant	Resistant	Resistant	Resistant

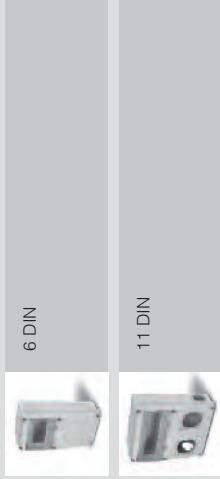
APPLICATION EXAMPLES



■ DISTRIBUTION ASSEMBLIES



■ VERSIONS



Left and right side knockouts for DOMO Series (flange 50x60mm).

■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 1: general requirements.

EN 60670-24

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 24: particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment.

■ TECHNICAL CHARACTERISTICS

Rated current:	IP55
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlet:	PG16-PG21-PG29
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Dissipable power according to CEI 23-49 standard:	9-15W
Colour:	Grey RAL7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Not Resistant	Limited Resistance

■ APPLICATION EXAMPLES



INDUSTRIAL PLUGS AND SOCKETS



REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

QUALITY MARKS



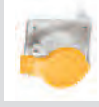
VERSIONS



Plugs and connectors
90° angled



Panel mounting socket outlets
90° angled outlet



Panel mounting socket outlets
Straight (reduced flange)

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	100-690V~
Frequency:	c.c. - 50-500Hz
Insulating voltage:	500/690V~
Protection degree:	IP44/IP54-IP66/IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK07 (plugs and connectors 90° angled) IK09 (panel mounting socket outlets 90° angled outlet)
Cable inlets:	Cable sleeve IP44/IP54 Cable gland IP66/IP67

NO. OF CYCLES

Rated current (A)	Under load	Without load
16A	5.000	-
32A	1.000	1.000

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

WIRING AND INSTALLATION

Wiring capacity of the terminals

Cross-section of connectable conductors (mm²)

Max. cable size accepted by the cable clamp

Rated voltage	Rated current (A)		Plugs, connectors and appliance inlets		Socket outlets		Outside Ø mm	
	16A	32A	Min	Max	Min	Max	Min	Max
>50V	16A	32A	1,5	2,5	1,5	4	8	15
			2,5	6	2,5	10	11,5	21

APPLICATION EXAMPLES





■ PIN AND SLEEVE DEVICES

■ REFERENCE STANDARDS

- IEC 60309-1**
Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.
- IEC 60309-2**
Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.
- UL 1682**
Plugs, receptacles and cable connectors of the pin and sleeve type.
- UL 1686**
Standard for pin and sleeve configuration.

■ VERSIONS

	Plugs and connectors
	Appliance inlets
	Receptacle
	Accessories Back Box and closure caps
	Liquid tight adapter

UL LISTED:
E238171, E238172

UL US

UL CLASSIFIED:
E238170

UL 1682

■ QUALITY MARKS

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ WIRING AND INSTALLATION

Cross-section of connectable conductors (awg/mm²)

Rated current	Plugs, connectors and appliance inlets			Receptacle		
	Series I	Series II	Max awg	Min awg	Max awg	Max mm²
16A	16	12	2,5	16	1,5	12
32A	14	2,5	10	6	14	2,5
63A	10	6	16	10	6	4
125A	6	16	2	50	4	25
						0
						70

■ Cord grip range (Plugs and connectors)

Rated current	Outside Ø mm		
	Series I	Series II	Max mm²
16A	20A	,570	14
32A	30A	,675	17
63A	60A	,937	24
125A	100A	1,265	32
			1,790
			45

■ TECHNICAL CHARACTERISTICS FOR BACK BOX

Protection degree (IEC 60529):	IP66/IP67
Operating ambient temperature:	-25°C +40°C
Max. operating ambient temperature:	+70°C
Self-extinguishing (IEC 60695-2-1):	GW test 850°C
Self-extinguishing (UL94):	5VA (3mm)
Material:	PC siloxane
IK degree at 20°C (EN 50102):	IK10 (20J)

■ TECHNICAL CHARACTERISTICS FOR PIN & SLEEVE

Rated current:	16A - 32A - 63A - 125A (SERIES I) 20A - 30A - 60A - 100A (SERIES II)
Rated voltage:	100-690V~
Frequency:	D.C. - 50-500Hz
Insulating voltage:	500/690V~
Protection degree (IEC 60529):	IP44 - IP67
Operating ambient temperature according to the reference standard:	-25°C + 40°C
Max. operating ambient temperature:	+70°C
Self-extinguishing (IEC 60695-2-1):	GW test 650°C / 850°C
Self-extinguishing (UL94):	V1 (3mm)
Material:	VALOX®
IK degree at 20°C (EN 50102):	IK10 (20J)

EUREKA[PIN&SLEEVE] Series

■ WATERTIGHT - IP67



IP67

Watertight design and construction meet stringent IP67 internal protection standards. Rugged thermoplastic housings resist impact or abuse and provide excellent corrosion resistance. Unique Scame strain relief grip and sealing system assure superior cable retention and watertight conductor termination. Ideal for outdoor, wet marine and washdown applications. Unique 75% faster assembly with Snap-on handle locking, and cable grip system.

■ SPLASHPROOF - IP44



IP44

Suitable for indoor use where splashing liquids and other contaminants may interfere with electrical connections. Ideal for most heavy commercial applications and light industrial applications. Available 16A, 20A, 30A and 32A Amp ratings.



No Tools, No Screws Necessary
Snap-on locking handle saves 75% on assembly time. Unique Snap-on assembly feature on 16A, 20A, 30A and 32A Amp plugs and connectors makes installation and inspection fast and reliable. Captive gaskets in handles seal out water, chemicals and dust.



Easy Action Single-Wiring Point Access Saves Time Wiring
All terminal screws face in same direction allowing installer to make safe and secure conductor terminations in 30% less time than other devices. Rugged, corrosion free thermoplastic housings are color-coded for safe reliable connections to all other mating type/polarizations, with raised earth terminal standard.



Simple Cable Clamping
Threaded cable gland on 16/32A and 20/30A devices makes assembly fast and easy. One-piece lock screw verifies clamp locking hold, with no external metal contact possible (16/32A and 20/30A devices).



Unique and Quick
One-piece cable gland with locking screw loads to cable followed by cable grip 6-Finger cable clamp/grip piece. Watertight onion ring bushing fits a wide variety of outside diameters.



Watertight and cable Grip Safety
Grip cable flexible 6-Finger clamp teeth holds well beyond all agency test pullout forces. No internal clamps required. Available in all amperages.



The Performance Connection
Watertight spring-loaded covers with high-strength flex-hinge screw covers on IP67 devices. Flap covers on IP44 splashproof styles. Safety, performance and durability for all EN 60309 applications worldwide.

■ WATERTIGHT - IP67

PLUG

Safe Connections Standard
- Earth contacts make first, break last for safe connections even under load



75% Faster Cable builds
- Nylon lock screw System
- One-piece cable gland
- Nylon locking screw prevents loosening
- Hand assembly of cable gland, cable grip
- 6 Finger clamp and onion-ring bushing

The Easy Way
- Snap-on locking feature on all 16/32A and 20/30A plugs and connectors

Screw Collars Stay Put
- Turreted grip allows for easy handling

CONNECTOR

Combination Flap/Screw Cover
- Integral neoprene gasket for IP67 (Watertight protection)
- Unique flex hinge design

Solid Neoprene Gasket in Handle

Neoprene Cable Bushing
- Onion ring design
- Universal fit capability

Secure Grip Handle
- Tapered shoulder (16/32A and 20/30A)
- Ribbed (60/100A and 63/125A)

Cable grip 6-Finger Clamp
- Provides superior cable retention

Fast and Easy Wiring
- Unique, one-way terminal access
- Clearly marked terminal connections

Safe Connections Standard
- Earth contacts make first, break last for safe connections even under load

Double Secure Wiring
- Dual, combination point terminal screw for failsafe connections

LIQUID TIGHT ADAPTER



BACK BOX



Grounding terminals
Ground plate

■ CONTROL DEVICE



■ REFERENCE STANDARDS




EN 60669-1

Switches for household and similar fixed-electrical installations.
Part 1: general requirements.

■ QUALITY MARKS



■ VERSIONS

	Single pole switches
	Double pole switches
	Reversing switches
	Two-way switches
	Single pole push button
	Double pole push button

■ TECHNICAL CHARACTERISTICS

Rated current:	2A-10A-16A-16AX-20AX
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max operating ambient temperature:	60°C
Glow Wire test:	650°C/750°C
Material:	Engineering plastic
Cabling capacity of the terminals:	2A: 0,5mm ² -1mm ² 10A: 1mm ² -2,5mm ² 16A: 1mm ² -4mm ² 20A: 1mm ² -6mm ²
Glow Wire test:	650°C/850°C
Halogen free:	Yes
Material:	Engineering plastic
Colour:	Grey RAL 7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



DOMESTIC SOCKET-OUTLETS





REFERENCE STANDARDS

<p>CEI 23-50</p> <p>Plugs and sockets for domestic and similar applications. <i>Part 1: general requirements.</i></p>
<p>IEC 60884-1</p> <p>Plugs and socket-outlets for household and similar purposes. <i>Part 1: general requirements.</i></p>

QUALITY MARKS



VERSIONS

	Socket-outlet - European Standard
	Socket-outlet - International Standard

















TECHNICAL CHARACTERISTICS

Rated current:	10A-13A-15A-16A-20A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-155°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/750°C
Material:	Engineering plastic
Cabling capacity of the terminal:	10A: 1mm ² ±2.5mm ² 13A: 1.5mm ² ±4mm ² 15A: 1.5mm ² ±4mm ² 16A: 1mm ² ±4mm ² 20A: 1mm ² ±6mm ²
Glow Wire test:	650°C/850°C
Halogen free:	Yes
Colour:	Grey RAL 7035 Red

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

AVAILABLE STANDARDS

	ITALIAN STANDARD P10- 10A Shuttered socket CEI 23-50		ITALIAN STANDARD P11- 16A Shuttered socket CEI 23-50		ITALIAN STANDARD P17/11- 16A Shuttered socket Bivalente CEI 23-50		ITALIAN STANDARD P30- 16A Shuttered socket CEI 23-50		PLURISTANDARD P40- 16A Shuttered socket CEI 23-50		GERMAN STANDARD - 16A Shuttered socket DIN VDE 0620
	FRENCH STANDARD - 16A Shuttered socket NFC 61-314		BRITISH STANDARD - 13A Shuttered socket BS 1363-2		BRITISH STANDARD - 15A Shuttered socket BS 546		ARGENTINIAN STANDARD - 10A Unshuttered IRAM 2071		ARGENTINIAN STANDARD - 20A Unshuttered IRAM 2071		EURO-AMERICAN STANDARD - 15A Shuttered socket
	NEW ZEALAND STANDARD - 10A Unshuttered socket AS/NZS 3112		SOUTH AFRICAN STANDARD - 16A Shuttered socket SANS 164-1 (2006)		BRAZILIAN STANDARD - 10A Unshuttered socket ABNT NBR 14136:2002		INDIAN STANDARD - 6/16A Shuttered socket IS 1293:1988				

APPLICATION EXAMPLES



TV/SAT OUTLETS (Ø 9,5mm)



VERSIONS

	TV outlets Male - Direct - Terminal - Attenuation 12 dB
	Coax/sat. F outlets - Direct
	TV/SAT outlets

REFERENCE STANDARDS

CEI EN 50083 Communal aerial installations.
IEC 60169 Radio-frequency connectors.

QUALITY MARKS



TECHNICAL CHARACTERISTICS

Frequency:	TV: 5-862 Mhz SAT: 950-2400 Mhz
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max. operating ambient temperature:	60°C
Material:	Engineering plastic
Halogen free:	Yes
Colour:	Grey RAL 7035

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases				Solvents				Mineral oil	UV rays	
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Limited Resistance	Not Resistant			Limited Resistance
Resistant	Limited Resistance	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Limited Resistance	Limited Resistance	Resistant

Direct	Terminal	Attenuation 12dB

APPLICATION EXAMPLES



FIXER Series

CONDUIT FIXING ACCESSORIES



TECHNICAL CHARACTERISTICS (Engineering plastic versions)

For tube Ø (mm):	16 - 20 - 25 - 32 - 40 - 50
Operating ambient temperature:	-15°C +60°C
Max. operating ambient temperature:	60°C
Halogen free:	Yes
Material:	Engineering plastic
Colour:	Grey RAL 7035

ENGINEERING PLASTIC VERSIONS

	Snap clip
	Snap clip with plug and screw
	Collar clip
	Collar clip
	Pressure clip

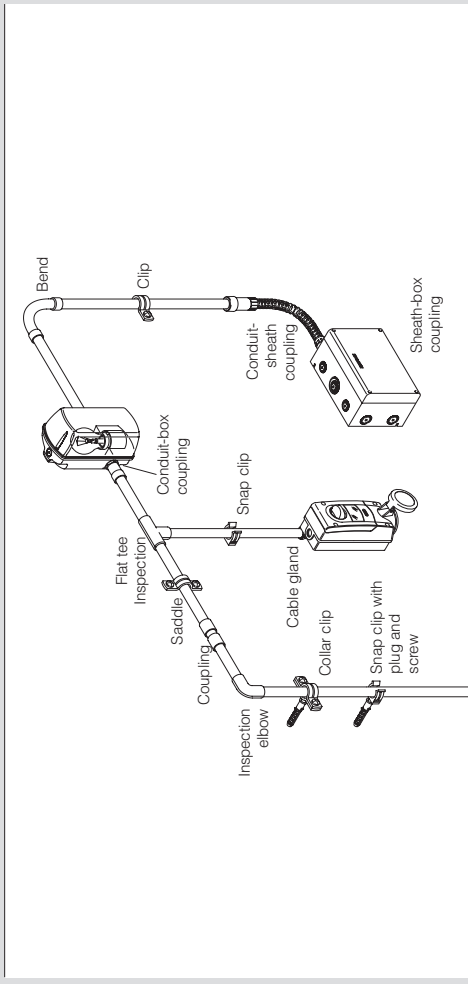
METAL VERSIONS

	Spacer bracket with M6 threaded base
	Half-saddle standard type
	Half-saddle heavy duty type
	Saddle

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS (ENGINEERING PLASTIC VERSIONS)

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

ACCESSORIES FOR RIGID CONDUITS



APPLICATION EXAMPLES



FLUSH MOUNTING CONSUMER UNITS



REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. Part 1: General requirements.

EN 60670-24

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Resistant	Resistant	Resistant

VERSIONS



Flush and hollow mounting

TECHNICAL CHARACTERISTICS

Rated voltage:	400V~
Protection degree:	IP40
Operating ambient temperature according to the reference standard:	-15°C +60°C
Max. operating ambient temperature:	+60°C
Glow wire test:	650°C (enclosure) 850°C (enclosure) 960°C (terminal boards)
Material:	Engineering plastic (enclosure and terminal boards) Painted steel (door)
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Halogen free:	Yes
Power dissipation:	25W (12 mod.) - 40W (24 mod.) 55W (36 mod.) - 75W (48 mod.)
Colour:	White
Terminal blocks:	Yes

ACCESSORIES



Accessories for flush mounting included.



Accessories for hollow mounting.



Terminal blocks (2x16mm² + 14x10mm²) included.

APPLICATION EXAMPLES



■ DISTRIBUTION ASSEMBLIES



■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installation.
Part 1: general requirements.

EN 61439-3

Low-voltage switchgear and controlgear assemblies.
Part 3: distribution boards intended to be operated by ordinary persons (DBO).

EN 61439-4

Low-voltage switchgear and controlgear assemblies.
Part 4: particular requirements for assemblies for construction sites (ACS)

■ VERSIONS



Distribution assemblies
- Portable with cable and plug



Two-front units distribution assemblies
- 3+3 socket outlets
- 4+4 socket outlets

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP44
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	60°C
Glow Wire test:	960°C
IK degree at 20°C:	IK09 (distribution assemblies) IK10 (empty units)
Terminal blocks fixing possibility:	Yes
DIN rail fixing:	Yes
Power output:	max. 18KW
Material:	Rubber
Colour:	Black

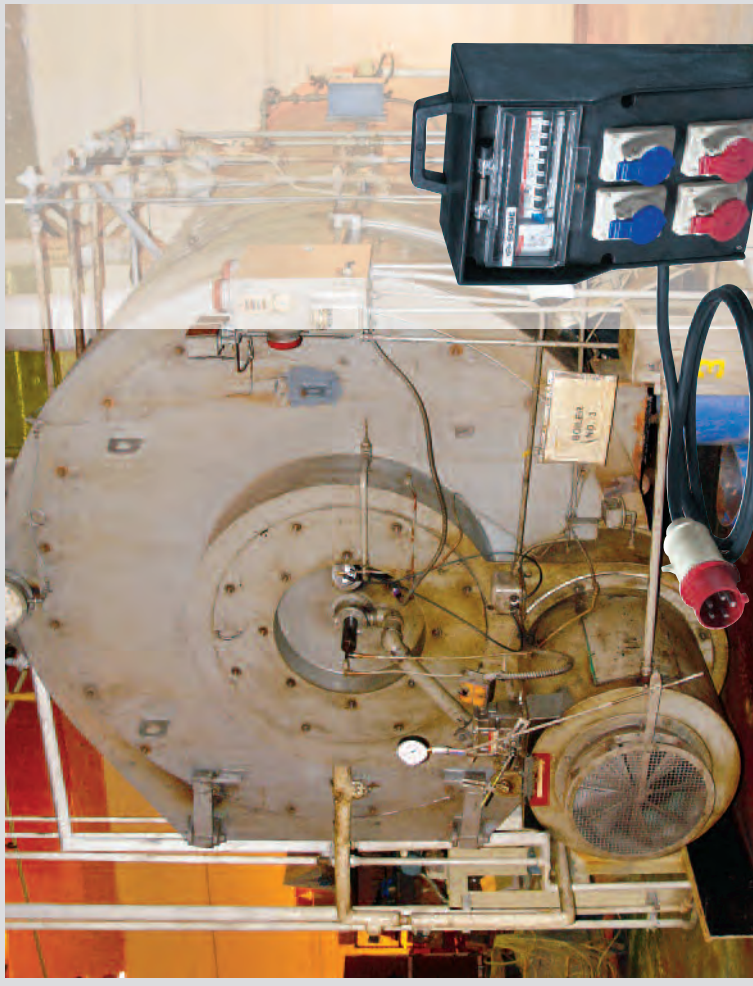
■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS (DISTRIBUTION ASSEMBLIES)

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS (EMPTY UNITS)

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant



■ APPLICATION EXAMPLES



■ LIGHT FITTINGS



■ VERSIONS

 HALE Series - IP20 - Standard version - Heavy duty version	 HALE Series - IP65
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■ REFERENCE STANDARDS

EN 60598-1 Luminaires. <i>Part 1: general requirements and tests.</i>
EN 60598-2-8 Luminaires. <i>Part 2: particular requirements.</i>

■ QUALITY MARKS



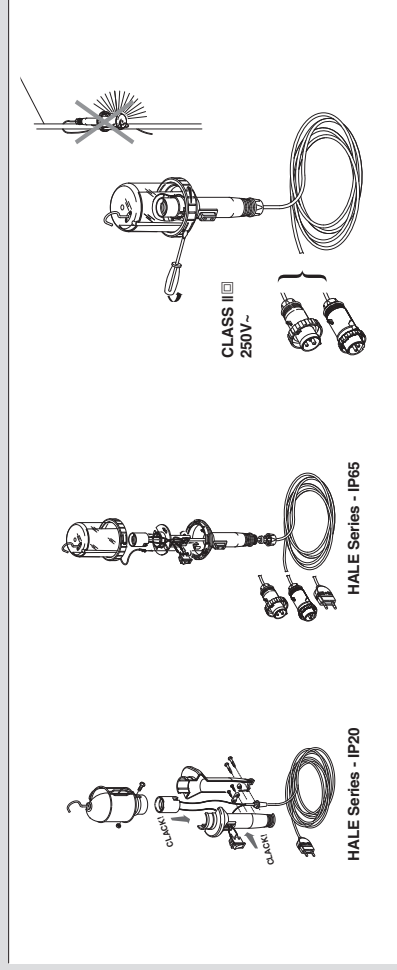
■ TECHNICAL CHARACTERISTICS

Protection degree:	IP20-IP65
Operating ambient temperature according to the reference standard:	-5°C +35°C
Rated wattage:	60W
Glow Wire test:	650°C
IK degree at 20°C:	IK08 (IP65 version) IK09 (IP20 version)
Cable inlet:	8-13mm (version without cable)
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Lampholder type:	E27
Material:	Engineering plastic

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ INSTALLATION



■ APPLICATION EXAMPLES



■ LIGHT FITTINGS



■ REFERENCE STANDARDS

<p>EN 60598-1 Luminaires. <i>Part 1: general requirements and tests.</i></p>
<p>EN 60598-2-1 Luminaires. <i>Part 2: particular requirements.</i> <i>Section 1: fixed general purpose luminaires.</i></p>

■ QUALITY MARKS



■ VERSIONS

	Bulkhead light oval
	Bulkhead light round
	Bulkhead light square

■ TECHNICAL CHARACTERISTICS

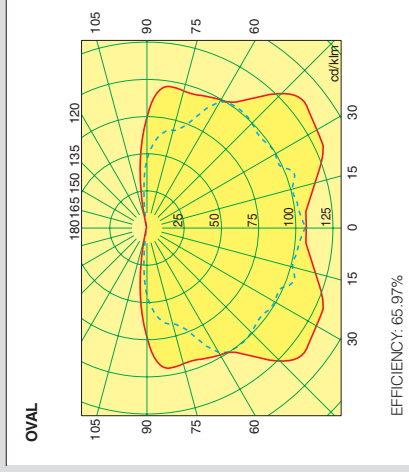
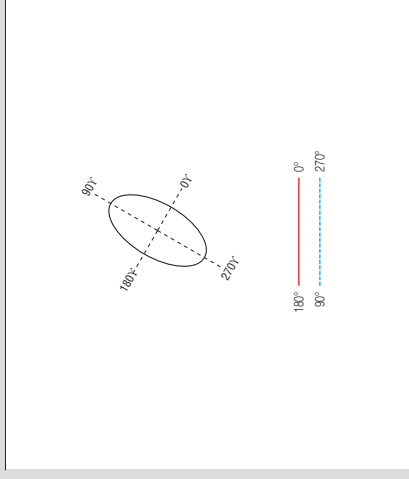
Protection degree:	IP44 - IP65
Operating ambient temperature according to the reference standard:	-25°C +35°C
Rated wattage:	Max. 100W
Glow Wire test:	850°C
Grado IK a 20°C:	IK08 - IK10
Cable inlet:	PG9 - PG13,5
Insulation class:	Class II (double insulation) <input checked="" type="checkbox"/>
Lampholder type:	E27 - B22
Installation on inflammable surface:	Yes
Material:	Engineering plastic

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

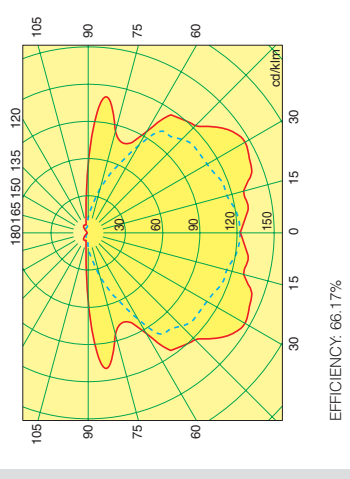
Saline solution	Acids		Bases			Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol			
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Resistant	Resistant	Limited Resistance	Resistant

■ POLE DIAGRAM

E27
- Incandescent bulb: 100W E27
- Total flux: 1350 lm

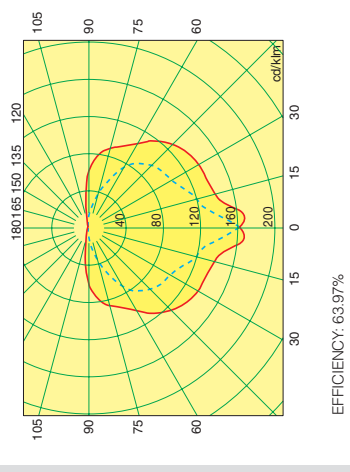


■ SQUARE



Co-ordinates system: c-gamma

■ ROUND



■ ALUMINIUM ENCLOSURE - 16A-160A



EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors
and fuse-combination unit.

EN 60529

Degrees of protection provided by enclosure.

■ REFERENCE STANDARDS

■ CABLE INLETS Aluminium enclosure 2, 3, 4 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
1	20-32-40	2-3-4	150x105x82	Top	1xM20+1xM25
				Bottom	1xM20+1xM25
2	63-80-100	2-3-4	210x155x107	Top	2xM32
				Bottom	2xM32
3	125	3-4	315x264x122	Top	Threaded entries
				Bottom	Threaded entries
4	160	3-4	410x315x128	Top	Blank side (*)
				Bottom	Blank side (*)

(*) Perforated or threaded entries on request.

■ CABLE INLETS Aluminium enclosure 6 and 8 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
2	16-25-32-40	6-8	210x155x107	Top	2xM32
				Bottom	2xM32
3	63-80-100	6-8	315x264x122	Top	Threaded entries
				Bottom	Threaded entries
4	125-160	6-8	410x315x128	Top	Blank side (*)
				Bottom	Blank side (*)

(*) Perforated or threaded entries on request.

■ APPLICATION EXAMPLES

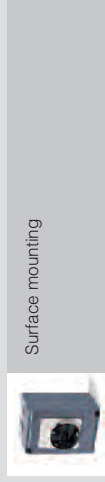


■ TECHNICAL CHARACTERISTICS

Polarity:	2P-3P-3P-N-4P-6P-8P
Rated current:	16A-20A-25A*-32A-40A-63A 80A-100A-125A-160A
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-25°C +60°C
Material:	Die-cast aluminium
IK degree:	IK10
Colour:	Grey RAL7015

3P-4N with late break early make neutral pole.
Equipped with door locking.
Padlockable handle.
* Only for 6 and 8 poles.

■ VERSIONS



Surface mounting

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Diluted	Hexane	Benzol	Acetone	Alcohol	Resistant
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant

■ TECHNICAL DATA SWITCH DISCONNECTORS 2P, 3P, 3P+N, 4P

	20A	32A	40A	63A	80A	100A	125A	160A
Rated insulation voltage	VAC	690	690	690	690	800	800	800
Rated impulse withstand voltage	kV	4	4	4	4	8	8	8
Thermal current	A	30	40	40	63	86	100	125
AC21A	415V	A	20	32	40	63	80	100
Resistive loads, including moderate overloads	500V	A	20	32	32	63	80	100
	690V	A	20	32	32	63	80	100
AC22A	415V	A	20	32	40	63	80	100
Mixed resistive and inductive loads, including moderate overloads	500V	A	20	32	32	63	80	100
	690V	A	20	32	32	63	80	100
AC23A	415V	A	20	32	35	63	67	100
Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	500V	A	20	25	25	40	67	125
	690V	A	20	25	25	30	38	100
AC23A Rated operational power	415V	kW	9	15	18.5	33	37	46
AC3	400V	A	-	28.5	28.5	40	55	-
Squirrelcage motor: starting, switching off motor during running (3 phase / 3 pole)	690V	A	12	20	20	25	32	-
DC22A	250V	A	25(*)	32(*)	32(*)	-	-	-
Mixed resistive and inductive loads, including moderate overloads	600V	A	10(*)	10(*)	10(*)	-	-	-
Rated short time withstand current I_{ow} (1s)	A	400	400	400	1500	1500	1500	3000
Conditional short circuit current I_p	kA _{eff}	10	10	10	10	10	10	30
Associate fuse size for conditional short circuit current - Type gG	A	20	32	40	63	80	100	125
Flexible wire	mm ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70
Rigid wire	mm ²	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70

(*) Only 4P with 2+2 poles in series.

4P SWITCH LINKING FOR DC APPLICATION



■ TECHNICAL DATA SWITCH DISCONNECTORS 6 AND 8 POLES

	16A	25A	32A	40A	63A	80A	100A	125A	160A
Rated insulation voltage	VAC	800	800	800	800	800	800	800	800
Rated impulse withstand voltage	kV	8	8	8	8	8	8	8	8
Thermal current	A	16	25	32	40	63	80	100	125
AC21A	415V	A	16	25	32	40	63	80	100
Resistive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
	690V	A	16	25	32	40	63	80	100
AC22A	415V	A	16	25	32	40	63	80	100
Mixed resistive and inductive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
	690V	A	16	25	32	40	63	80	100
AC23A	415V	A	16	25	32	40	63	80	100
Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	500V	A	16	25	32	40	63	80	100
	690V	A	16	25	25	25	32	32	100
AC23A Rated operational power	415V	kW	7.5	11	15	18.5	35	37	46
Rated short time withstand current I_{ow} (1s)	A	1100	1100	1100	1500	1500	1500	3000	3000
Conditional short circuit current I_p	kA _{eff}	50	50	50	50	50	50	30	50
Associate fuse size for conditional short circuit current - Type gG	A	16	25	32	40	63	80	100	125
Flexible wire	mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-70	10-70
Rigid wire	mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-70	10-70



HEAVY DUTY ENGINEERING THERMOPLASTIC INSULATED ENCLOSURE 20A-40A



VERSION



Surface mounting

OUTSTANDING HEAT AND FIRE RESISTANCE

The thermopolymer used for Heavy Duty Isolators guarantees an excellent heat and fire resistance: Glow Wire 960°C according to EN 60695-2-1; 5VA according to UL94.

OUTSTANDING IMPACT RESISTANCE

This material guarantees an excellent mechanical resistance to impacts. The impact resistance of the casings is higher than 20J (IK10) according to EN50102, even under limit temperature conditions (-40°C +60°C).

RESISTANCE TO ATMOSPHERIC AGENTS

The structure and materials used also make HD ISOLATOR a product suited for the most extreme environmental conditions. The special silicon gasket and the IP65 degree guarantees an excellent seal against the entry of solid objects or liquids into the casings even after a long term installation.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

EN 60529

Degrees of protection provided by enclosure.

TECHNICAL CHARACTERISTICS

Polarity:	2P-3P-3P+N
Rated current:	20A-32A-40A
Protection degree:	IP66
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-40°C +60°C
Material:	High performance engineering thermoplastic
IK degree:	IK10
Glow wire test:	960°C (enclosure and switch)
Self extinguishing UL94:	5VA
Colour:	Grey RAL7004
Insulation class:	Class II (double insulation) <input checked="" type="checkbox"/>

3P+N with late break early make neutral pole.
Padlockable handle.
Equipped with door locking.

Outstanding resistance to UV radiation, exceptional reliability under environmental stress and use at both low and high ambient temperatures (-40°C +60°C).

CABLE INLETS

Heavy duty engineering plastic insulated enclosure 2P, 3P, 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Blank side (°)	Blank side (°)
1	20-32-40	2-3-4	190x115x128	Bottom	-	-
				Rear	-	-

(°) Perforated or threaded entries on request.

TECHNICAL DATA SWITCH-DISCONNECTORS 2P,3P,3P+N

Rated insulation voltage	Ui	Rated impulse withstand voltage	Uimp	Thermal current	Ith/Ithe	Rated operational current - Ie	Rated operational current - Ie		
							20A	32A	40A
VAC		kV		A			680	680	680
Resistive loads, including moderate overloads				A			4	4	4
AC21A				A			30	40	40
Resistive loads, including moderate overloads				A			20	32	40
AC22A				A			20	32	32
Mixed resistive and inductive loads, including moderate overloads				A			20	32	32
AC23A				A			20	32	32
Switching of motor loads or other highly inductive loads (3 phase / 3 pole)				A			20	25	25
AC23A Rated operational power				kW			9	15	18.5
AC3				A			-	28.5	28.5
Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)				A			12	20	20
Rated short time withstand current: low (1s)				A			400	400	400
Conditional short circuit current				kAeff			10	10	10
Associate fuse size for conditional short circuit current - Type gG				A			20	32	40
Flexible wire				mm ²			1.5-10	1.5-10	1.5-10
Rigid wire				mm ²			1.5-16	1.5-16	1.5-16

This values are given for guidance and may vary according to the specifics provided by the motor manufacturer.

APPLICATION EXAMPLES



■ HIGH RATING HINGED SHEET STEEL ENCLOSURE - 200A-1600A



■ REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors
and fuse-combination unit.

EN 60529

Degrees of protection provided by enclosure.

■ VERSIONS



Surface mounting

■ TECHNICAL CHARACTERISTICS

Polarity:	3P-3P+N
Rated current:	160A-200A-250A-315A-400A 500A-630A-800A-1000A 1250A-1600A (*)
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-25°C +60°C
Material:	Sheet steel
IK degree:	IK10
Finishing/colour:	Polyester powder grey RAL7032

3P+N with late break early make neutral pole.
Padlockable handle.
Equipped with door locking.
Full current neutral pole up to 1250A.
(*) Neutral pole 1250A
Full current neutral pole available on request.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ CABLE INLETS

Hinged sheet steel enclosure
3P, 3P+N top/bottom entries

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
1	200-250	3-3P+N	500x300x150	Top Bottom	Gland plate Gland plate
2	315-400-500-630	3-3P+N	600x400x200	Top Bottom	Gland plate Gland plate
3	800-1000-1250	3-3P+N	700x500x250	Top Bottom	Gland plate Gland plate
4	1600	3-3P+N	1000x600x300	Top Bottom	Gland plate Gland plate

Perforated or threaded entries on request.

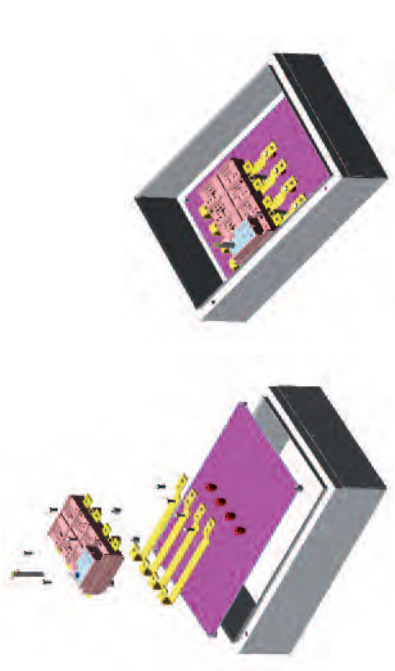
Hinged sheet steel enclosure
3P, 3P+N bottom/bottom entries

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
1	200-250	3-3P+N	500x300x150	Top Bottom	Gland plate Gland plate
2	315-400	3-3P+N	600x400x200	Top Bottom	Gland plate Gland plate
3	500	3-3P+N	700x500x250	Top Bottom	Gland plate Gland plate
4	630-800	3-3P+N	800x600x300	Top Bottom	Gland plate Gland plate
5	1000-1250-1600	3-3P+N	1000x1000x600	Top Bottom	Gland plate Gland plate

■ CONNECTIONS

BOTTOM/BOTTOM ENTRIES

Equipped with an insulated bar system which allows the wiring both incoming and outgoing cables from the bottom side without cable bending.



■ APPLICATION EXAMPLES



■ TECHNICAL DATA HIGH RATING SWITCH DISCONNECTORS 3P AND 3P+N

	160A	200A	250A	315A	400A	500A	630A	800A	1000A	1250A	1600A(*)
Rated insulation voltage	(V) 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage	(kV) 12	12	12	12	12	12	12	12	12	12	12
Thermal current	(A) 160	200	250	315	400	500	630	800	1000	1250	1600
AC21A Resistive loads, including moderate overloads	415V	160	200	250	315	400	500	630	800	1000	1250
	500V	160	200	250	315	400	500	630	800	1000	1250
	690V	160	200	250	315	400	500	630	800	1000	1250
AC22A Mixed resistive and inductive loads, including moderate overloads	415V	160	200	250	315	400	500	630	800	1000	1250
	500V	160	200	250	315	400	400	630	800	1000	1250
AC23A Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	415V	160	200	250	315	400	500	630	800	1000	1250
	500V	125	125	200	250	315	315	500	800	800	800
AC23A Rated operational power	690V	100	160	160	200	250	250	400	400	400	400
	415V	85	105	130	165	200	210	330	420	525	630
Rated making capacity	(A) 1600	2000	2500	3150	4000	4000	6300	6300	6300	6300	6300
Rated breaking capacity	(A) 1280	1600	2000	2520	3200	3200	5040	5040	5040	5040	5040
Short circuit withstand current 1sec	(kA) 8	8	8	13	13	13	26.5	26.5	26.5	26.5	26.5
Short circuit withstand current 0.25 sec	(kA) 16	16	16	26	26	26	53	53	53	53	53
Short circuit making capacity	(kA) 13.5	13.5	13.5	26	26	26	30	30	30	30	30
Back up fuse	(A) 160	200	250	315	400	400	630	800	1000	1000	-
R.M.S value	(kA) 100	50	50	50	50	50	50	100	100	100	-
Peak value	(kA) 16	20	25	25	30	30	40	70	90	100	-
Cable section	mm ² 120	120	120	185	2x150	2x150	2x185	2x240	-	-	-
Bars dimension	mm 20x5	20x5	20x5	2x (25x4)	2x (25x4)	2x (25x4)	2x (32x6)	2x (50x5)	2x (50x6)	2x (50x8)	2x (80x102)

(*) Neutral pole 1250A.

Full current/neutral pole available on request.

■ AUXILIARY CONTACTS

	590.PL00400x	590.PL005	590.PL0060x
Rated thermal current	400V 16A	10A	10A
Rated operational current AC15	250V 16A	16A	16A
	400V 4.5A	-	-
Break before main contacts switches.	250V 6A	1A	1A

■ STAINLESS STEEL ENCLOSURE - 16A-160A



EN 60947-3
Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

EN 60529
Degrees of protection provided by enclosure.

■ REFERENCE STANDARDS

■ CABLE INLETS Stainless steel enclosure 3 and 4 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries
1	20-32-40	3-4	176x136x65	Top
				Bottom
				Rear
2	63-80-100	3-4	226x176x90	Top
				Bottom
				Rear
3	125-160	3-4	306x226x115	Top
				Bottom
				Rear

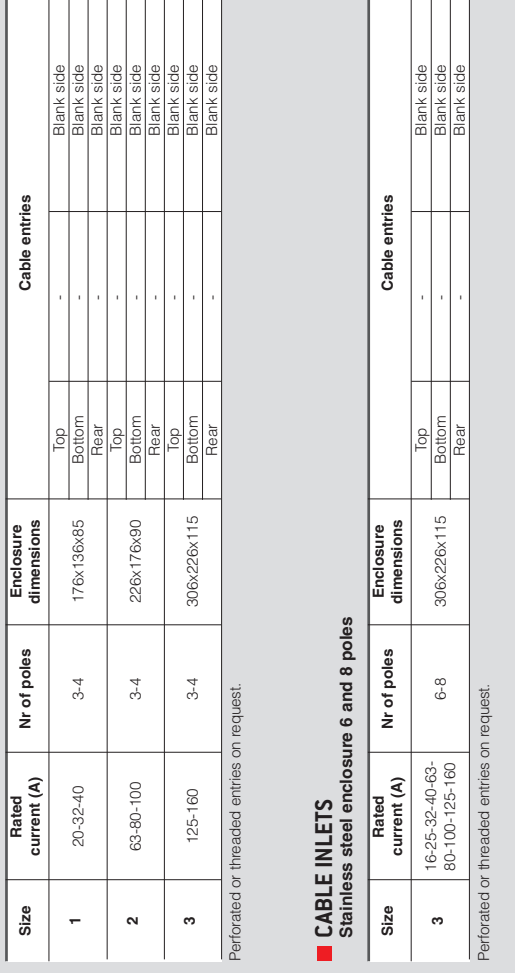
Perforated or threaded entries on request.

■ CABLE INLETS Stainless steel enclosure 6 and 8 poles

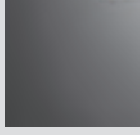
Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries
3	16-25-32-40-63-80-100-125-160	6-8	306x226x115	Top
				Bottom
				Rear

Perforated or threaded entries on request.

■ APPLICATION EXAMPLES



■ VERSIONS



Surface mounting

■ TECHNICAL CHARACTERISTICS

Polarity: **2P-3P-4P-N-6P-8P**
Rated current: **16A*-20A-25A*-32A-40A-63A**
80A-100A-125A-160A

Protection degree: **IP65**

Operating ambient temperature according to the reference standard: **-5°C +40°C**

Min-Max. operating ambient temperature: **-25°C +60°C**

IK degree: **IK10**

Material: **Stainless steel 304L (316L stainless steel on request)**

3P-4N with late break early make neutral pole.
Equipped with door locking.
Padlockable handle.
* Only for 6 and 8 poles.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Resistant	Resistant
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ TECHNICAL DATA SWITCH DISCONNECTORS 2P,3P, 3P+N

		20A	32A	40A	63A	80A	100A	125A	160A
Rated insulation voltage	Ui	VAC	690	690	800	800	800	800	800
Rated impulse withstand voltage	Uimp	kV	4	4	4	4	4	4	4
Thermal current	Ith/Ithe	A	30	40	40	63	80	100	125
Rated operational current - Ie	AC21A	415V	A	20	32	40	63	80	100
	Resistive loads, including moderate overloads	500V	A	20	32	32	63	80	100
		690V	A	20	32	32	63	80	100
Rated operational current - Ie	AC22A	415V	A	20	32	40	63	80	100
	Mixed resistive and inductive loads, including moderate overloads	500V	A	20	32	32	63	80	100
		690V	A	20	32	32	40	40	-
Rated operational current - Ie	AC23A	415V	A	20	32	35	63	80	100
	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	500V	A	20	25	25	63	63	-
		690V	A	20	25	25	32	32	-
Rated operational current - Ie	AC23A Rated operational power	415V	kW	9	15	18.5	35	37	46
	AC3	400V	A	-	28.5	28.5	-	-	-
Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)		690V	A	12	20	20	25	32	-
Rated short time withstand current Iow (1s)		A							
Conditional short circuit current	Ip	A							
Associate fuse size for conditional short circuit current - Type gG		KAEff 10 10 10 10 50 50 50 30 50 50							
Flexible wire		mm² 1.5-10 1.5-10 1.5-10 1.5-10 10-50 10-50 10-50 10-50 10-70 10-70							
Rigid wire		mm² 1.5-16 1.5-16 1.5-16 1.5-16 10-50 16-50 10-50 10-50 10-70 10-70							

■ TECHNICAL DATA SWITCH DISCONNECTORS 6 AND 8 POLES

		16A	25A	32A	40A	63A	80A	100A	125A	160A
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8
Thermal current	Ith/Ithe	A	16	25	32	40	63	80	100	125
Rated operational current - Ie	AC21A	415V	A	16	25	32	40	63	80	100
	Resistive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
		690V	A	16	25	32	40	63	80	100
Rated operational current - Ie	AC22A	415V	A	16	25	32	40	63	80	100
	Mixed resistive and inductive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
		690V	A	16	25	32	40	40	40	
Rated operational current - Ie	AC23A	415V	A	16	25	32	40	63	80	100
	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	500V	A	16	25	32	40	63	63	
		690V	A	16	25	25	32	32	32	
Rated operational current - Ie	AC23A Rated operational power	415V	kW	7.5	11	15	18.5	35	37	
	AC3	400V	A	1100	1100	1100	1500	1500	3000	
Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)		690V	A	50	50	50	50	50	30	
Rated short time withstand current Iow (1s)		A								
Conditional short circuit current	Ip	A								
Associate fuse size for conditional short circuit current - Type gG		mm² 4-25 4-25 4-25 4-25 10-50 10-50 10-50 10-50 10-50 10-70								
Flexible wire		mm² 4-25 4-25 4-25 4-25 10-50 10-50 10-50 10-50 10-70 10-70								
Rigid wire		mm² 4-25 4-25 4-25 4-25 10-50 10-50 10-50 10-50 10-70 10-70								

■ PHOTOVOLTAIC/DC SWITCH DISCONNECTORS THERMOPLASTIC INSULATED ENCLOSURE 10A-40A (800V DC)



■ VERSIONS



Surface mounting

Scame embraces completely the renewable energy sources philosophy and the respect for the environment. In our production plant and office building we have installed 250kWp of photovoltaic system. We follow up this field in several countries with a wide range of products.

From our experience is born the new range of DC Isolators specific for photovoltaic systems.

In accordance to the IEC 60364-7-712, in every photovoltaic installation it is necessary to isolate the photovoltaic panel from the rest of the system, DC Isolators must have a higher performance than the traditional AC Isolators because breaking direct current is more difficult than breaking alternating current, and furthermore in a photovoltaic system the voltage can reach even 800V.

The current and voltage values changes depending on the combination of the photovoltaic cells. DC Isolator range has been set up focusing on all of the main photovoltaic installations in order to get a range as essential as possible, simplify the choice of the customer and for have the maximum quality and technical characteristics. In the meantime we are improving and

■ REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

IEC 60364-7-712

Requirements for special installations or locations
Solar photovoltaic (PV) power supply systems.

EN 60529

Degrees of protection provided by enclosure.

■ CABLE INLETS

Photovoltaic/DC switch disconnectors thermoplastic insulated enclosure 3 and 4 poles

Size	Rated current (A)	Rated voltage (V)	Nr of poles in series	Enclosure dimensions	Cable entries	
1	16	450V	4	150x105x82	Top	1xM20+1xM25
					Bottom	1xM20+1xM25
					Rear	1xM20+1xM25
2	15-20	800V	3-4-5	150x105x100	Top	-
					Bottom	Blank side (*)
					Rear	Blank side (*)
					Right	Blank side (*)
					Left	Knock-out
					M25	Knock-out
3	25-30	800V	6-8	210x155x107	Top	2xM32
					Bottom	Knock-outs
					Rear	Knock-outs
					Top	Blank side (*)
					Bottom	Blank side (*)
					Bottom	Blank side (*)
4	40	800V	8	308x228x128	Top	-
					Bottom	-
					Bottom	Blank side (*)

(*) Perforated or threaded entries on request.

■ TECHNICAL CHARACTERISTICS

Poles in series:	3P-4P-5P-6P-8P
Rated current (800V):	10A-15A-20A-25A-30A-40A
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5 °C +40 °C
Min-Max. operating ambient temperature:	-25°C +60°C
IK degree:	IK08
Material:	Thermoplastic
Insulation class:	Class II (double insulation) <input checked="" type="checkbox"/>
Glow wire test:	650°C (enclosure) 850°C (switch)

up grading constantly our products, following and anticipating the change that the market requires due to the incentives available. Scame ISOLATORS Series includes also a complete range of AC Isolators, essential to make a photovoltaic system in compliance with IEC 60364-7-712.

Finally in the photovoltaic range it is available a huge range of water tight cabinets and consumer unit suitable for make distribution board & export control.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Limited Resistance	Resistant
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ TECHNICAL DATA DC SWITCH DISCONNECTORS FOR PHOTOVOLTAIC DC APPLICATION

Rated insulation voltage	16A		15A		20A		25A		30A		40A	
	UI	Uimp	8	4	8	8	8	8	8	8	8	8
Rated impulse withstand voltage			4	4	8	8	8	8	8	8	8	8
Thermal current			30	30	63	63	63	63	63	63	125	125
Rated operational current – Ie	300V	A	32	-	-	-	-	-	-	-	-	-
	400V	A	-	30	35	40	40	40	60	60	80	80
	450V	A	16	-	-	-	-	-	-	-	-	-
	500V	A	-	30	35	40	40	45	45	65	65	65
	600V	A	-	20	25	40	40	40	40	60	60	60
	750V	A	-	15	20	25	25	30	30	40	40	40
800V	A	-	15	20	25	25	30	30	40	40	40	
Rated short time withstand current			400	1100	1100	1100	1100	1100	1100	1100	3000	3000
Flexible wire			1.5-10	16	16	16	16	16	16	16	70	70
Rigid wire			1.5-10	16	16	16	35	16	16	16	70	70

■ POSSIBLE CONTACT WIRINGS

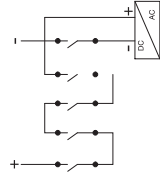
SWITCH LINKING

In order to make easier the work of the installer, it is possible to choose the manner of wiring of the poles in series. In this way the incoming and the outgoing can be varied both on the top side and on the bottom side. In the packaging jumpers are supplied to cover the chosen configuration.

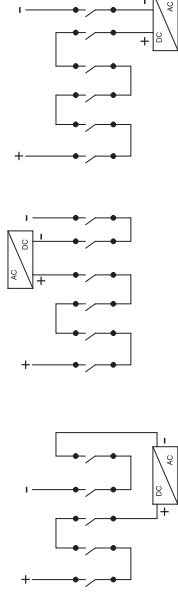
590.DCGE0815 - (4 POLES IN SERIES) - 3 JUMPERS SUPPLIED



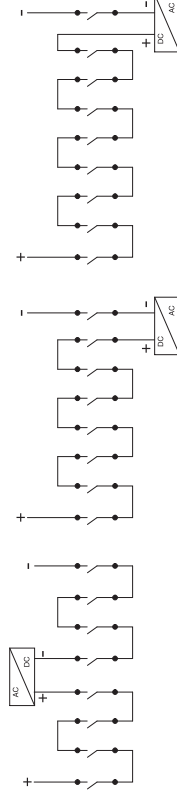
590.DCGE0820 - (5 POLES IN SERIES) - 4 JUMPERS SUPPLIED



590.DCGE0825 - (6 POLES IN SERIES) - 5 JUMPERS SUPPLIED



590.DCGE0830 - (8 POLES IN SERIES) - 8 JUMPERS SUPPLIED






ISOLATORS-SWITCH Series

ENCLOSED CHANGE-OVER SWITCHES I/O/II 16A-160A



VERSIONS

	Thermoplastic version
	Aluminium version
	Stainless steel version

REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

EN 60529

Degrees of protection provided by enclosure.

TECHNICAL CHARACTERISTICS

Polarity:	3P-3P+N
Rated current:	16A-25A-32A-40A-63A 80A-100A-125A-160A
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-25°C +60°C
Material:	Thermoplastic Die-cast aluminium Stainless steel 304L (316L stainless steel on request)
IK degree:	IK08 Thermoplastic IK10 Aluminium/Stainless Steel
Glow wire test:	650°C (Thermoplastic)
Colour:	Grey RAL7035 (Thermoplastic) Grey RAL7015 (Aluminium)

3P+N with late break early make neutral pole.

ISOLATORS-TP Series (Thermoplastic)

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

CABLE INLETS

Thermoplastic insulated enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries
4	16-25-32-40	3P - 3P+N	210x155x107	Top
				Bottom
				Rear
5	63-80-100	3P - 3P+N	308x228x128	Top
				Bottom
				Rear
6	125-160	3P - 3P+N	338x308x128	Top
				Bottom
				Rear

(*) Perforated or threaded entries on request.

ISOLATORS-AL Series (Aluminium)

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant

CABLE INLETS

Aluminium enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries
2	16-25-32-40	3P - 3P+N	210x155x107	Top
				Bottom
				Rear
3	63-80-100	3P - 3P+N	315x264x122	Top
				Bottom
				Rear
4	125-160	3P - 3P+N	410x315x128	Top
				Bottom
				Rear

(*) Perforated or threaded entries on request.

ISOLATORS-INOX Series (Stainless steel)

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

CABLE INLETS

Stainless steel enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries
3	16-25-32-40 63-80-100	3P - 3P+N	306x226x115	Top
				Bottom
				Rear
4	125-160	3P - 3P+N	412x312x115	Top
				Bottom
				Rear

Perforated or threaded entries on request.

TECHNICAL DATA SWITCH DISCONNECTORS 3P - 3P+N

Rated insulation voltage	Ui	16A	25A	32A	40A	63A	80A	100A	125A	160A
Rated impulse withstand voltage	Uimp	8	8	8	8	8	8	8	8	8
Thermal current	Ith/Ihe	A	16	25	32	40	63	80	100	125
AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100
		500V	A	16	25	32	40	63	80	100
		690V	A	16	25	32	40	63	80	100
AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	80	125
		500V	A	16	25	32	40	63	80	125
		690V	A	16	25	32	40	40	40	125
AC23A	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	415V	A	16	25	32	40	63	80	125
		500V	A	16	25	32	40	63	63	125
		690V	A	16	25	25	25	32	32	100
Rated short time withstand current - low (1s)		A	1100	1100	1100	1100	1500	1500	1500	3000
Conditional short circuit current		kAeff	50	50	50	50	50	30	50	50
Associate fuse size for conditional short circuit current - Type gG		A	16	25	32	40	63	80	100	125
Flexible wire		mm²	4-25	4-25	4-25	4-25	10-50	10-50	10-70	10-70
Rigid wire		mm²	4-25	4-25	4-25	4-25	10-50	10-50	10-70	10-70

APPLICATION EXAMPLES



ISOLATORS-TP Series

■ THERMOPLASTIC INSULATED ENCLOSURE 16A-160A



■ REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

EN 60529

Degrees of protection provided by enclosure.

■ CABLE INLETS

Thermoplastic insulated enclosure 1, 2, 3, 4 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
1	20-32-40	1	120x82x69	Top	1xM20+1xM25
				Bottom	1xM20+1xM25
				Rear	2xM20
2	20-32-40	2-3-4	125x136x84(*)	Top	3xM20/M25
				Bottom	3xM20/M25
				Right	2xM20
				Left	2xM20
				Rear	2xM20/M25
				Top	1xM20+1xM25
3	20-32-40	2-3-4	150x105x82	Bottom	1xM20+1xM25
				Rear	1xM20+1xM25
				Top	1xM20+1xM25
4	63-80-100	2-3-4	210x155x107	Top	2xM32
				Bottom	2xM32
5	125	3-4	308x228x128	Rear	-
				Top	-
				Bottom	-
				Rear	-
				Top	-
				Bottom	-
6	160	3-4	338x308x128	Top	-
				Bottom	-

(*) Omnia enclosure.

(*) Perforated or threaded entries on request.

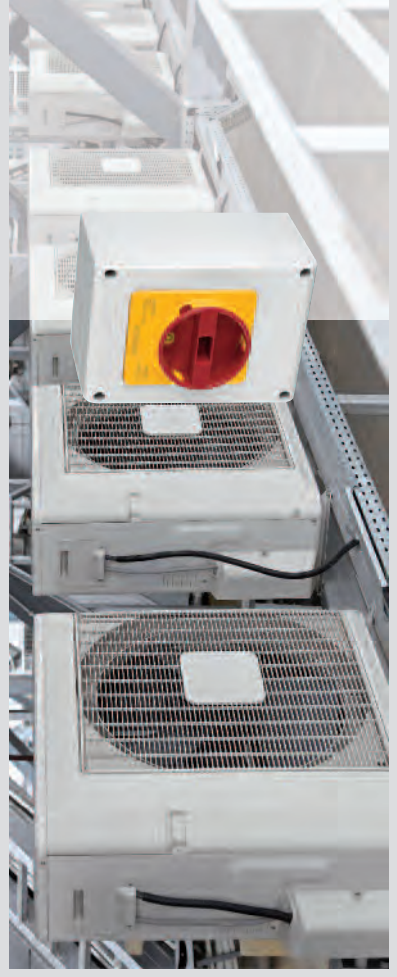
■ CABLE INLETS

Thermoplastic insulated enclosure 6 and 8 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
4	16-25-32-40	6-8	210x155x107	Top	2xM32
				Bottom	2xM32
				Rear	-
5	63-80-100	6-8	308x228x128	Top	-
				Bottom	-
				Rear	-
				Top	-
				Bottom	-
				Rear	-
6	125-160	6-8	338x308x128	Top	-
				Bottom	-

(*) Perforated or threaded entries on request.

■ APPLICATION EXAMPLES



■ TECHNICAL CHARACTERISTICS

Polarity:	1P-2P-3P-3P+N-4P-6P-8P
Rated current:	16A* - 20A - 25A* - 32A - 40A - 63A 80A - 100A - 125A - 160A
Protection degree:	IP55 flush mounting version IP65 surface mounting version
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-25°C +60°C
Material:	Engineering plastic
IK degree:	IK08
Glow wire test:	650°C
Colour:	Grey RAL7035
Insulation class:	Class II (double insulation) <input checked="" type="checkbox"/>

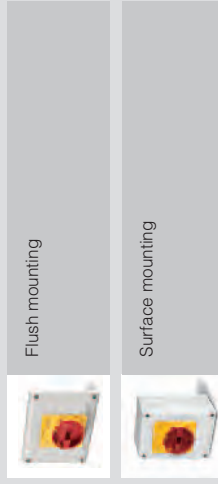
3P+N with late break early make neutral pole.

Equipped with door locking.

Padiocable handle.

* Only for 6 and 8 poles.

■ VERSIONS



Flush mounting

Surface mounting

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Diluted	Hexane	Benzol	Acetone	Alcohol	Resistant
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ TECHNICAL DATA SWITCH DISCONNECTORS 1 POLES

Rated insulation voltage	20A				VAC	40A
	32A	63A	80A	100A		
Rated impulse withstand voltage	4	4	4	4	kV	250
Rated impulse withstand voltage	20	20	20	20	A	40
Thermal current	20	20	20	20	A	40
Rated operational current - Ie	AC22A					250V
	Mixed resistive and inductive loads, including moderate overloads					
Rated operational current - Ie	AC23A					250V
	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)					
Rated short time withstand current low (1s)	480	480	480	480	A	480
Conditional short circuit current Ip	10	10	10	10	kAeff	10
Associate fuse size for conditional short circuit current - Type gG	20	20	20	20	A	40
Flexible wire	6	6	6	6	mm ²	6
Rigid wire	6	6	6	6	mm ²	6

■ TECHNICAL DATA SWITCH DISCONNECTORS 6 AND 8 POLES

Rated insulation voltage	16A								VAC	160A
	32A	40A	63A	80A	100A	125A	160A			
Rated impulse withstand voltage	8	8	8	8	8	8	8	8	8	8
Rated impulse withstand voltage	16	16	16	16	16	16	16	16	16	16
Thermal current	16	16	16	16	16	16	16	16	16	16
Rated operational current - Ie	AC21A									
	Resistive loads, including moderate overloads									
Rated operational current - Ie	AC22A									
	Mixed resistive and inductive loads, including moderate overloads									
Rated operational current - Ie	AC23A									
	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)									
Rated short time withstand current low (1s)	110	110	110	110	110	110	110	110	110	110
Conditional short circuit current Ip	50	50	50	50	50	50	50	50	50	50
Associate fuse size for conditional short circuit current - Type gG	16	16	16	16	16	16	16	16	16	16
Flexible wire	4-25	4-25	4-25	4-25	4-25	4-25	4-25	4-25	4-25	4-25
Rigid wire	4-25	4-25	4-25	4-25	4-25	4-25	4-25	4-25	4-25	4-25

■ TECHNICAL DATA SWITCH DISCONNECTORS 2P, 3P, 3P+N, 4P

Rated insulation voltage	20A							VAC	160A
	32A	40A	63A	80A	100A	125A			
Rated impulse withstand voltage	4	4	4	4	4	4	4	4	
Rated impulse withstand voltage	20	20	20	20	20	20	20	20	
Thermal current	20	20	20	20	20	20	20	20	
Rated operational current - Ie	AC21A								
	Resistive loads, including moderate overloads								
Rated operational current - Ie	AC22A								
	Mixed resistive and inductive loads, including moderate overloads								
Rated operational current - Ie	AC23A								
	Switching of motor loads or other highly inductive loads (3 phase / 3 pole)								
Rated operational power	9	15	18.5	30	37	46	55	69	
AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)								
DC22A	Mixed resistive and inductive loads, including moderate overloads								
Rated short time withstand current low (1s)	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current Ip	10	10	10	10	10	10	30	50	
Associate fuse size for conditional short circuit current - Type gG	20	20	20	20	20	20	100	125	
Flexible wire	1.5-10	1.5-10	1.5-10	10-35	10-35	10-35	10-70	10-70	
Rigid wire	1.5-16	1.5-16	1.5-16	10-35	10-35	10-35	10-70	10-70	

(*) Only 4P with 2+2 poles in series

4P SWITCH LINKING FOR DC APPLICATION



KIOSK Series

■ DISTRIBUTION PEDESTALS TERMINALS



■ REFERENCE STANDARDS

CEI 64-8/7 section 708/711
IEC 60364-7-709
IEC 60364-7-711
IEC 60364-7-740
Electrical installations.

CEI EN 61439-1
CEI EN 61439-7
Assembled equipment.

■ CHARACTERISTICS OF THE "SAFE-IN" OPTIMA SERIES PLUGS



■ VERSIONS

	Distribution pedestals terminals with DOMINO in painted metal sheet / stainless steel
	Distribution pedestals terminals with MBOX in painted metal sheet / stainless steel
	Distribution pedestals terminals in thermoplastic material SMART-K - SMART-C - SMART-X
	Distribution pedestals terminals in thermoplastic material (fire-proof versions) SMART-H - SMART-C
	Distribution pedestals terminals with BLOCK in painted metal sheet

■ TECHNICAL CHARACTERISTICS

Operating temperature:	-25°C +40°C
Protection degree:	Plastic: IP56 Metal: IP66
Max. operating ambient temperature according to the reference standard:	+60°C
Insulation class:	Class II (double insulation) □
Material:	Zinc-plated metal sheet/ Thermoplastic/Stainless steel
IK degree at 20°C:	IK10
Plastic colour:	Blue - Green - Yellow - Red - White (No RAL reference)
Power supply terminal board:	Upon request
Water service:	Upon request
Circuit breakers:	Supplied 6A other sizes upon request

POSSIBILITY TO CONFIGURE OTHER VERSIONS (UPON REQUEST)

■ THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets is the most innovative element of the new OPTIMA Series.

The "SAFE-IN" device works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires.

This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.

■ SAFETY LEVEL

The OPTIMA Series sockets with the "SAFE-IN" safety device guarantee a higher level of safety in comparison with ordinary industrial sockets, especially in environments where there may be children present or people who have not been trained about electrical dangers (public areas, amusement parks, campgrounds, open markets, etc.).

Dangerous situations, such as the important examples illustrated in the figure to the side, can be resolved thanks to the new OPTIMA Series sockets equipped with the "SAFE-IN" safety device.



■ THE ONLY DISTRIBUTION PEDESTALS TERMINALS WITH INCREASED DEGREE OF SAFETY



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents		Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Resistant	Resistant
					Not Resistant	Limited Resistance	Resistant	Resistant

Connector tube protective shutter for greater safety against direct contacts. (The SAFE-IN safety device).

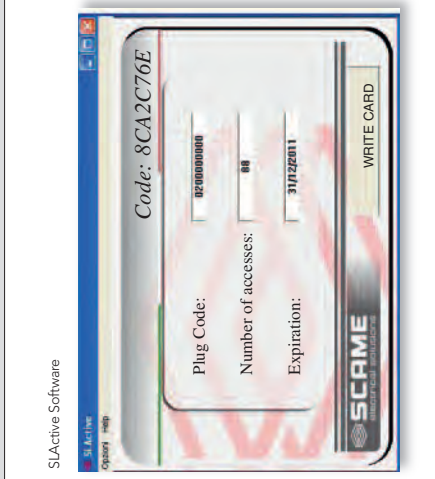
STAND ALONE

The charging stations are not connected one to the other and work independently. The charging stations administrator can leave them in free charging mode (FREE) or limited to authorized users (PERSONAL). Through the card programmer, the administration can nevertheless influence the charging operation depending on a specific time or number of accesses.



ACTIVE CARD

Each User Card can be programmed by assigning it an expiry date and/or a limited number of accesses through the 208.PROG programmer, to be connected to one's computer, and the SLActive software supplied with the User Card.



NET

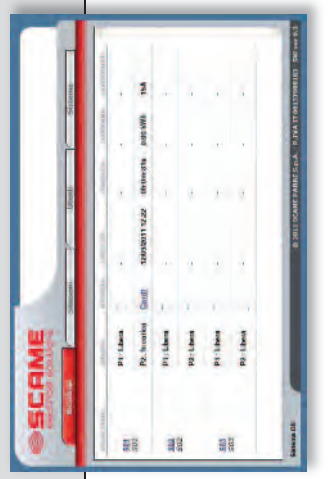
The stations are connected one to the other to a local server whose access is assigned exclusively to the stations administrator. In addition to being a data concentrator, the server also contains the standard software developed in cooperation with our standard partner GENERALE SYSTEMI; this software makes it possible to manage users, monitor and configure the stations, calculate the consumptions, etc. Through the card programmer, the administration can nevertheless influence the charging operation depending on a specific time or number of accesses. The services are managed through a local server positioned near the columns.



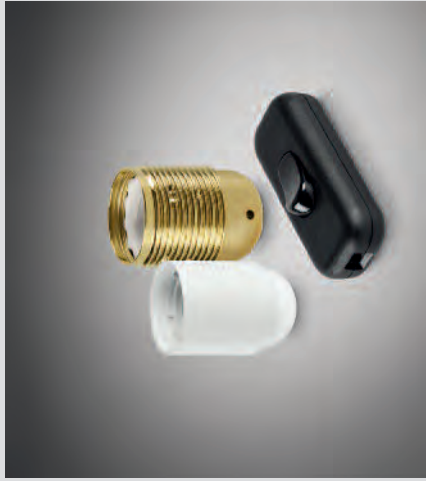
Local server with standard management software

The management system of SCAME stations does not require the installation of any software for its operation as the program is already stored on the server.

The web page provided here below displays in real time the operating status of the plugs of the connected stations.



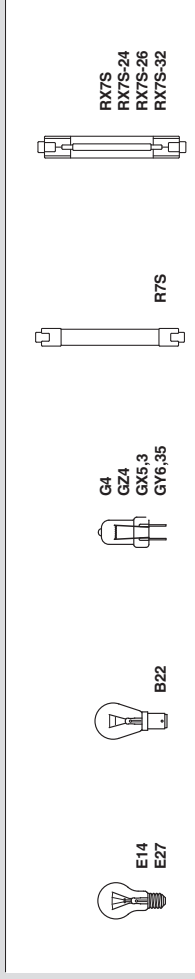
■ LAMPHOLDER



■ REFERENCE STANDARDS

<p>EN 60238 Edison screw lampholders.</p>
<p>EN 60838-1 Miscellaneous lampholders. <i>Part 1: general requirements and tests.</i></p>
<p>EN 61058-1 Switches for appliances. <i>Part 1: general requirements.</i></p>

■ TYPE OF COUPLING



■ APPLICATION EXAMPLES



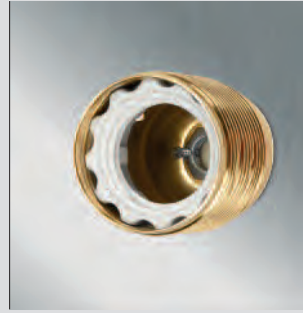
■ VERSIONS

<p>Lampholders - For incandescent lamps (E14-E27) - For fluorescent lamps (G5-G23) - For halogen lamps (G4-GX53-GY6.35-R75)</p>	<p>Switches - press switches - pull switches - slide in-line switches - foot switches</p>	<p>Ceiling accessories</p>
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■ QUALITY MARKS



Thermoset lampholders: left, with E27 coupling; partly threaded skirt and metal nipple; right, with E14 coupling; fully threaded skirt and moulded thread.



Metal lampholder. Detail of locking screw and earth terminal.



Slide in-line switch, with neutral connection for flat cable.

■ DISTRIBUTION ASSEMBLIES - IP66



■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosure for electrical accessories for household and similar fixed electrical installation. Part 1: general requirements.


EN 61439-3

Low-voltage switchgear and controlgear assemblies. Part 3: distribution boards intended to be operated by ordinary persons (DBO).

EN 61439-4


Low-voltage switchgear and controlgear assemblies. Part 4: particular requirements for assemblies for construction sites (ACS)

■ VERSIONS




MBOX2

- Portable
- Wall installation
- Trestle installation
- Turret installation
- Pole fastening



MBOX3

- Portable
- Wall installation
- Trestle installation
- Pole fastening



MBOX5

- Wall installation
- Trestle installation
- Pole fastening
- Portable with two folding handles

■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS COMMON TO THE ENTIRE PRODUCT LINE

Protection degree: **IP66-IP65 (version with emergency button)**

Operating ambient temperature according to the reference standard: **-25°C +40°C**

Max. operating ambient temperature: **60°C**

Glow Wire test: **650°C**

IK degree at 20°C: **IK08-IK09**

Material: **Engineering plastic Class II (double insulation)**

Dissipate power according to CEI 23-49 standard: **-**

The Logotype featuring SCAME MBOX2 series.



"REGISTERED DESIGN"

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Diluted	Acetone	Benzol	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

■ MBOX2 TECHNICAL CHARACTERISTICS

Dimensions: **432x365x290 mm**

Power supply: **With 16mm² terminal box (5 poles) or with mobile (16/32A)**

Cable length: **2m**

Cable entry: **M32 or M25 break-through input and cable for power supply and M16 break-through for earthing cable**

- Switchboard for 16 DIN modules (2 rows of 8 modules) with tinted door and YALE key or triangular lock.

- Possibility to install up to 4 interlocked OMNIA Series 16/32A socket with or without fuses or up to 6 flush mounting EUREKA Series 16/32A sockets

- Possibility to install the panel on turret or trestle

- Possibility to install the emergency push button

- Fuse-testing device housed in the switchboard compartment (only in the versions with fuses)

- Possibility to house three spare fuses

■ MBOX3 TECHNICAL CHARACTERISTICS

Dimensions: **465x380x520mm**

Average weight: **15 Kg**

Power supply: **Cable input through hole for M40 cable gland.**

- M8 brass pin for earthing connection.

- 16 mm² power supply terminal box (5 poles) for currents up to 32A and 35 mm² terminal box (5 poles) for currents up to 125A.

- Possibility to equip the panel with a 63A or 125A fixed plug.

- Switchboard for 39 DIN modules (3 rows of 13 modules) with tinted door and YALE key or triangular lock.

Key or triangular lock.

- Possibility to install up to 6 interlocked OMNIA Series 16/32A sockets with or without fuses or up to 9 flush mounting EUREKA Series 16/32A sockets.

- In the version without door it is possible to install up to 4 interlocked OMNIA Series 16/32A sockets and an interlocked OMNIA Series 63A socket.

- Fuse-testing device inserted in the switchboard compartment

- Possibility to install the emergency push button or a disconnecter with functional control and emergency functions.

■ MBOX5 TECHNICAL CHARACTERISTICS

Dimensions: **775x400x670mm**

Average weight: **27 Kg**

Power supply: **Cable input through hole for M40 cable gland.**

- M8 brass pin for earthing connection

- 16 mm² power supply terminal box (5 poles) for currents up to 32A and 35 mm² terminal box (5 poles) for currents up to 125A.

- Possibility of 70 mm² input/output terminal box (5 poles).

- Possibility to equip the panel with a 63A or 125A fixed plug.

- Switchboard for 52 DIN modules (4 rows of 13 modules) with tinted door and YALE key or triangular lock.

- Possibility to install up to 12 interlocked OMNIA Series sockets and 4 interlocked ADVANCEZ Series compact or large 16/32/63A sockets.

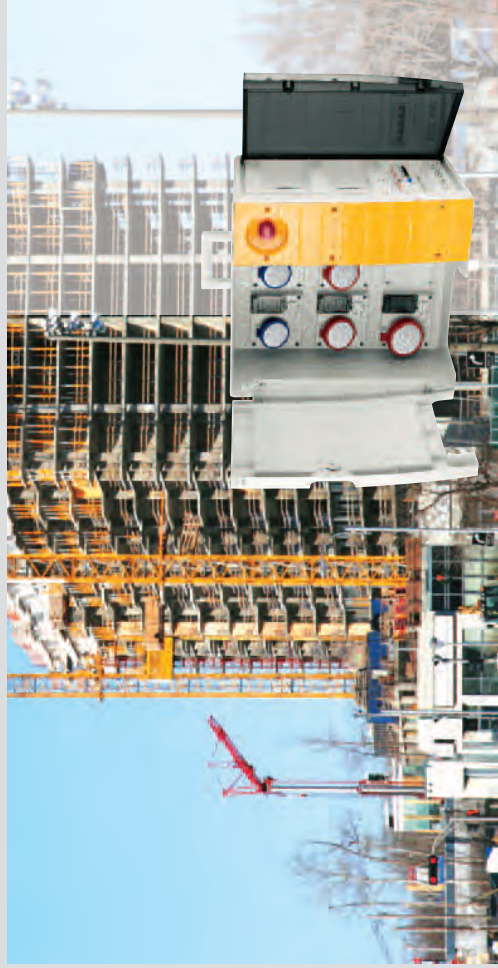
- Output terminal box: it is possible to install the OMNIA Series containers n. 572.0321 and n. 572.0322 respectively for terminal box output with or without protection (6 DIN modules).

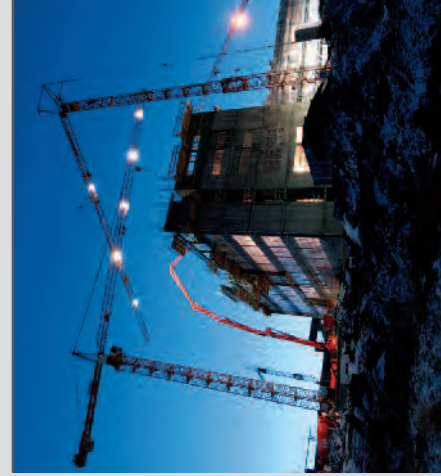
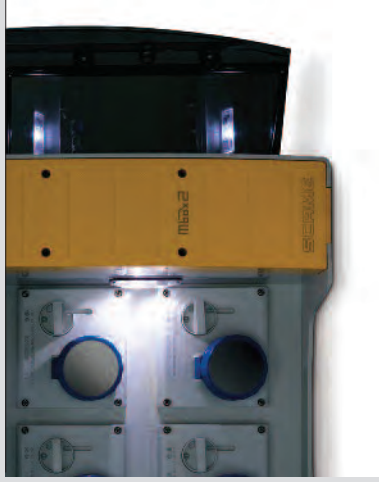
- Fuse-testing device inserted in the switchboard compartment.

- Possibility to house live spare fuses.

- Possibility to install the emergency push button or a disconnecter with functional control and emergency functions.

■ APPLICATION EXAMPLES



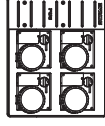


NIGHT & DAY

MBOX turns on a new era with a box that is even more functional and complete. The addition of an automatic device (LED with extremely low consumption hooked up to a sensor) ensures proper lighting of the compartment containing outlets and switch gear and protection devices when the outdoor light intensity diminishes. This allows the product to be identified and used under conditions of poor lighting; ideal for the worksite, MBOX is also perfect for campsites and parking areas.

Extremely compact and totally safe, MBOX features an innovative design and it is made in collision-proof and self-extinguishing technopolymer, to withstand collisions and atmospheric agents. In compliance with the highest safety standards, the MBOX series includes a complete product range and comes in many customized versions, with fast delivery.

MBOX2

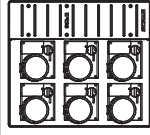


Version with 4 interlocked OMNIA Series sockets with fuses without emergency push button.

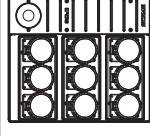


Version with 6 EUREKA Series flush mounting industrial sockets and emergency push button.

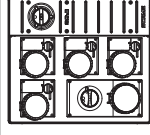
MBOX3



Version with 6 interlocked OMNIA Series sockets with fuses without emergency push button.

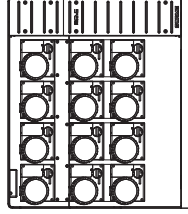


Version with 9 EUREKA Series flush mounting industrial sockets and emergency push button.

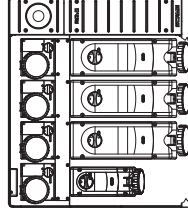


Version with 4 interlocked OMNIA Series 1632A sockets with fuses and 1 interlocked OMNIA Series 64A socket and disconnecter.

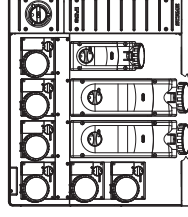
MBOX5



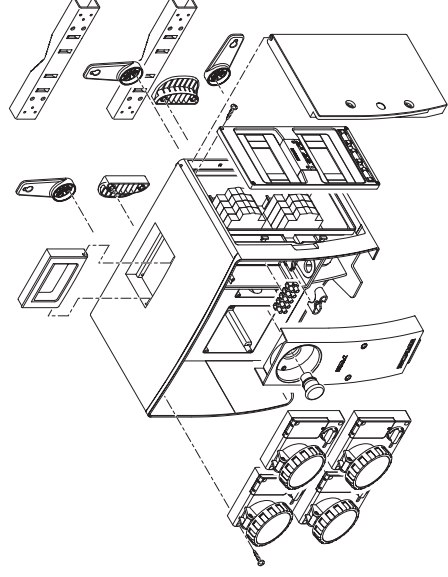
Version with 12 interlocked OMNIA Series sockets with fuses without emergency push button.



Version with 4 interlocked OMNIA Series sockets with fuses and 4 interlocked ADVANCEZ Series LARGE sockets and emergency push button.



Version with 6 interlocked OMNIA Series sockets with fuses and 3 interlocked ADVANCEZ Series COMPACT and LARGE sockets with disconnecter.



■ DISTRIBUTION ASSEMBLIES



■ VERSIONS

Distribution assemblies IP55
 - transportable
 - with SELV safety transformer 220/24V



■ REFERENCE STANDARDS

EN 61439-1
 Low-voltage switchgear
 and controlgear assemblies (BT panels).
Part 1: general requirements.

EN 61439-4
 Low-voltage switchgear
 and controlgear assemblies (BT panels).
*Part 4: particular requirements for assemblies
 for construction sites.*

EN 61439-2
 Low-voltage switchgear
 and controlgear assemblies (BT panels).
Part 2: power switchgear and controlgear assemblies

EN 61439-3
 Low-voltage switchgear and controlgear assemblies.
*Part 3: distribution boards intended to be operated by ordinary
 persons (DBO).*

■ TECHNICAL CHARACTERISTICS

Rated current:	125A+630A
Rated voltage:	400V~
Frequency:	50Hz
Insulating voltage:	400V~
Protection degree:	IP55
SELV transformer 220/24V:	Yes
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	60°C
Glow Wire test:	650°C
Power output:	70KW±375KW
Material:	Engineering plastic
Colour:	Grey RAL 9007

- Sturdy galvanized fire painted sheet iron.
- Fitted with a lifting device, handles on the side and a roof to protect it from rain or falling objects.
- The structure can be fastened to the ground (purposely fitted feet).

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

■ APPLICATION EXAMPLES



■ LIGHT FITTINGS



■ REFERENCE STANDARDS

EN 60598-1

Luminaires.
Part 1: general requirements and tests.

EN 60598-2-1

Luminaires.
Part 2: specific requirements
Section 1: fixed general purpose luminaires.

■ QUALITY MARKS



■ VERSIONS



For incandescent lamps - 60W 250V~
- Thermoplastic diffuser - IP44
- Polycarbonate diffuser - IP44 or IP55



For indicating working areas
- Polycarbonate diffuser - IP44

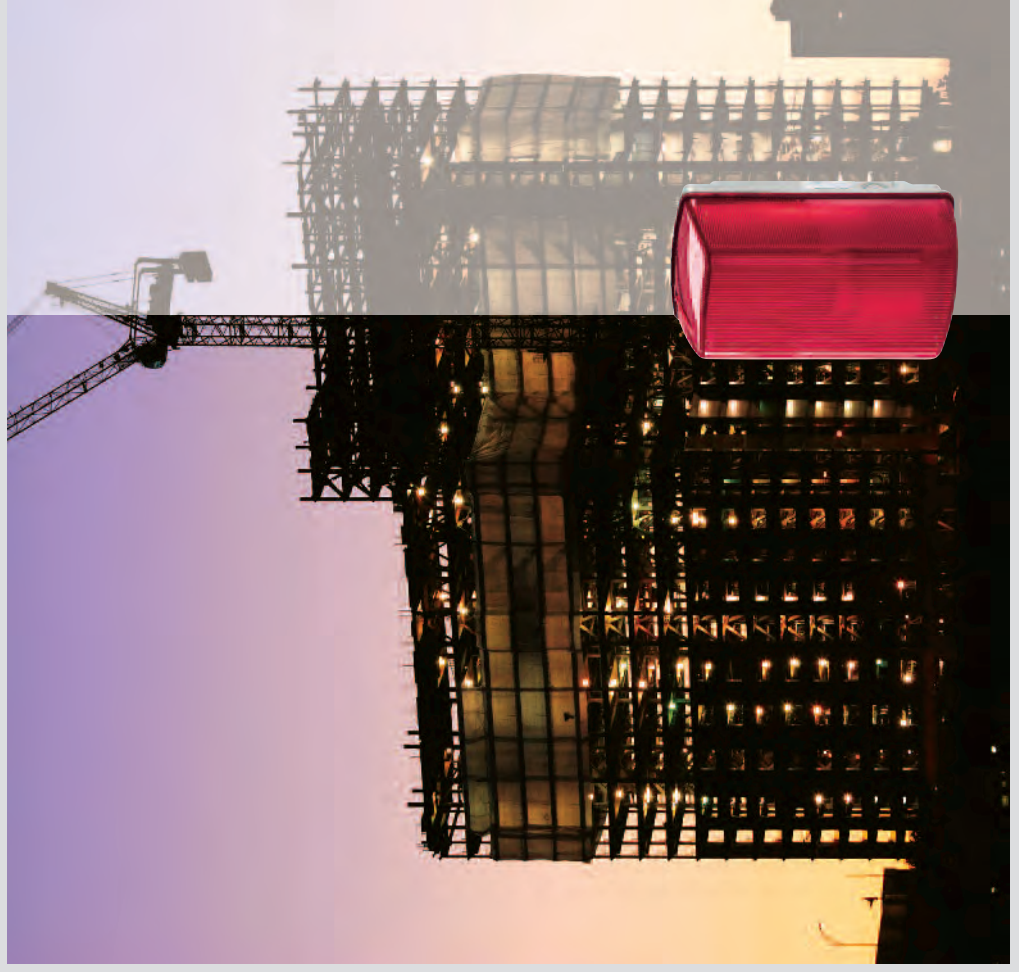


Automatic twilight turn-on
- Two operation modes

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Not Resistance	Not Resistance	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP44-IP55
Operating ambient temperature according to the reference standard:	Thermoplastic diffuser: -5°C +35°C Polycarbonate diffuser: -15°C +35°C
Glow Wire test:	650°C
Material:	Engineering plastic
IK degree at 20°C:	IK04 - IK07
Cable inlets:	PG11-PG13
Insulation class:	Class II (double insulation) □
Lamp/holder type:	E27 - B22
Installation on inflammable surface:	Yes

MIZAR Series

■ **CABLE INLET**



Five knockouts for PG11/PG13.5 cable inlets, located around the four sides and on the base provide a wide range of installation options: with cable sleeve, with cable gland or with couplings between Ø 16 mm rigid

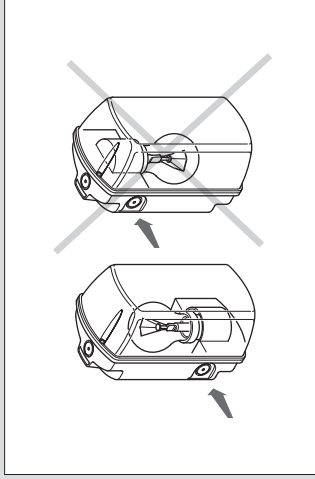
or flexible conduit and box. A flexible conduit for flush mounting and power supply from the rear of the base can also be installed.



This layout of knockout cable inlets allows a number of different installation possibilities: with power supply to the fixture from any side or through

cabling in and out when several fixtures need to be supplied in parallel.

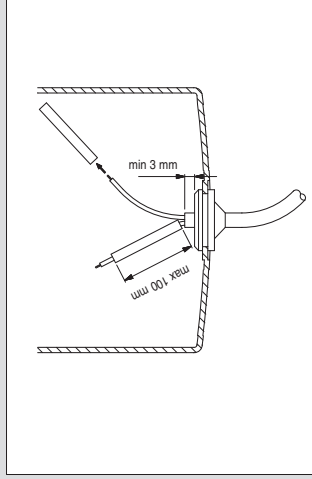
■ **CORRECT INSTALLATION**



Overheating may affect the life of the lamp-holder and of the cables. To avoid this the lamp must be upright when mounting the fixture vertically, i.e. the lampholder must be in the lower part of the fixture. This also guarantees the protection degree.



An isolating screen provides total insulation, and by segregating the cabling protects the operator against contact with live parts when replacing the lamp.

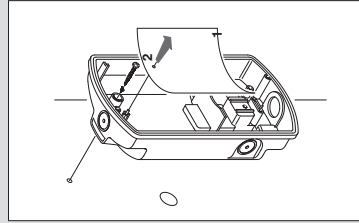


The mounting kit included in the supply comes with heat resistant sleeving for protecting the power supply cables from the heat generated by the lamp when in use.



A fast mounting plate for maintaining the protection degree is provided with the IP55 version.

■ **FIXING**



MIZAR Series light-fittings are fitted with a slot on the rear of the base for hooking onto a nail, screw or hook, or for fastening to poles, pipes, bars or scaffolding using one or two cable ties. For permanent installation, the fixtures can be wall or ceiling mounted using screw anchors.

■ INTERLOCKED SWITCH SOCKET OUTLETS



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact/tube accessories of harmonised configurations.

EN 60309-4

Plugs, socket-outlets and couplers for industrial purposes.
Part 4: switched socket-outlets and connectors with or without interlock.

■ VERSIONS



Surface mounting
Without fuse carrier



Surface mounting
With fuse carrier



Flush mounting
Without fuse carrier



Flush mounting
With fuse carrier

■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	100±690V~
Frequency:	c.c. - 50-500Hz
Insulating voltage:	500/690V~
Protection degree:	IP44-IP66/IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlet:	PG/METRIC
Fuse-carriers:	gG 10.3x38 mm
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) <input type="checkbox"/>

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

■ WIRING AND INSTALLATION

Wiring capacity of the terminals
Cross-section of the connectable conductors (mm²)

Rated voltage	Rated current (A)	Socket outlets	
		Min	Max
>50V	16A	1,5	4
	32A	2,5	10
	63A	6	25

■ APPLICATION EXAMPLES



■ TECHNICAL DATA SWITCH DISCONNECTORS

	with fuse			without fuse			
	16A	32A	63A	16A	32A	63A	
Rated insulation voltage Ui	Vac	690	690	690	690	690	
	Vdc	600	600	600	600	-	
Rated impulse withstand voltage Uimp	kV	4	4	4	4	8	
Thermal current Ith	A	25	32	30	40	63	
Thermal current Ithe	A	25	32	30	40	63	
AC21A Resistive loads, including moderate overloads	400V A	-	-	-	-	-	
	500V A	-	-	-	-	-	
	690V A	25	32	30	32	63	
AC22A Mixed resistive and inductive loads, including moderate overloads	400V A	-	-	-	-	-	
	500V A	-	-	-	-	-	
	690V A	30	32	20	32	63	
AC23A Switching off motor loads or other highly inductive loads (3 phase / 3 pole)	400V A	-	-	20	32	50	
	500V A	-	-	-	-	40	
	690V A	16	25	16	25	30	
AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	400V A	-	28.5	-	28.5	40	
	690V A	12	20	12	20	25	
DC21A Resistive loads, including moderate overloads	300V A	25	32	25	32	-	
	250V A	20	32	20	32	-	
DC22A Mixed resistive and inductive loads, including moderate overloads	600V A	-	-	10(*)	10(*)	-	
	Rated short-time withstand current, Ist (1s)	A	400	400	400	1500	
Short-circuit protection	Conditional short-circuit current	kA	10	10	10	10	
	Associate fuse size for conditional short-circuit current - type GG	kA	16	32	16	32	63
UL rating	Rated short-circuit making capacity, Icm	kA	1500	1500	1500	2850	
	General use single phase and 3 phase	A	20	30	32	40	63
Permissible wire gauge	AC motor starting break all line single phase	Hp	1.5	2	1.5	2	3
	AC motor B, C, D starting break all lines three phase	Hp	3	5	3	5	7.5
		Hp	7.5	10	7.5	10	10
		Hp	10	15	10	15	20
		Hp	15	20	15	20	25
		mm ²	1.5-10	1.5-10	1.5-10	1.5-10	10-35
Wire gauge	Flexible wire	AWG	16-8	16-8	16-8	10-2	
	Rigid wire	mm ²	1.5-16	1.5-16	1.5-16	10-35	
		AWG	16-8	16-8	16-8	10-2	

(*) 2+2 poles in series

■ IMO approved ■ UL approved

■ APPLICATION EXAMPLES



■ INTERLOCKED SWITCH SOCKET OUTLETS



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

■ QUALITY MARKS



■ VERSIONS



Flush mounting
- with transformer
- without transformer



Surface mounting
- without transformer

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ WIRING AND INSTALLATION

Wiring capacity of the terminals
Cross-section of the connectable conductors (mm²)

Rated current (A)	Socket outlets	
	Min	Max
16A	4	10
32A	4	10

■ APPLICATION EXAMPLES



■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	20÷50V ~
Frequency:	c.c. - 50÷60Hz
SELV transformer 220/24V:	150VA
Insulating voltage:	500/690V ~
Protection degree:	IP44-IP66/IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C (housing) 850°C (contact carrier)
Material:	Engineering plastic
IK degree at 20°C:	IK07 - IK08
Cable inlet:	PG/METRIC
Fuse-carriers:	gG 10.3x38 mm
Colour:	Grey RAL 7035
Insulation class:	Class III

FLUSH AND SURFACE MOUNTING MODULAR SYSTEM



VERSIONS

	Consumer unit assembly kit - IP55
	Plates - IP55
	Protection cover - IP20
	Flush mounting box
	Frame - IP55
	Coupling insert
	Surface mounting box - IP67
	Surface mounting system

REFERENCE STANDARDS

EN 60670-1

General requirements for enclosures for accessories for household and similar fixed electrical installations.
Part 2: general requirements.

CEI 23-49

Enclosures for accessories for household and similar fixed electrical installations.
Part 2: detailed requirements for enclosures for containing protective devices and appliances that under ordinary use dissipate significant energy.

QUALITY MARKS



TECHNICAL CHARACTERISTICS

Protection degree:	IP44-IP55-IP66
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlet:	PG/METRIC
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) <input type="checkbox"/>

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases				Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Limited Resistance	Not Resistant		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Limited Resistance	Resistant

APPLICATION EXAMPLES



Example of a flush mounting combination: consumer unit, junction box and OMNIA Series interlocked-switch socket outlet. IP55 weatherproof.



Example of a surface mounting combination: consumer unit and OMNIA Series interlocked-switch socket outlet. IP55 weatherproof.

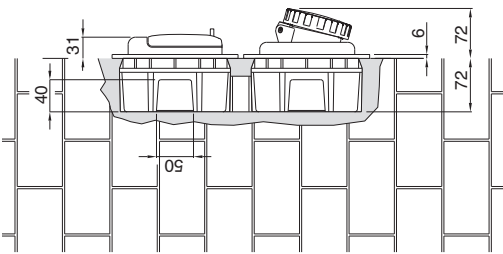
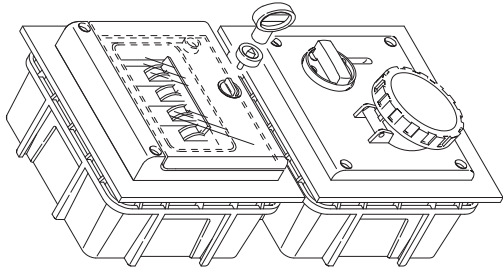


Surface mounting system. Consumer unit 6 DIN system version with interlocked-switch socket outlet with fuse carrier.

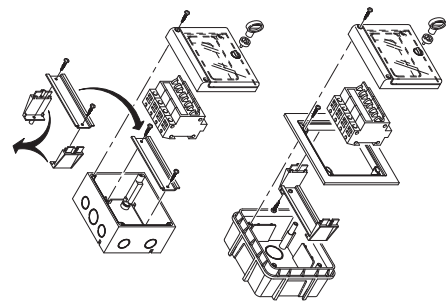
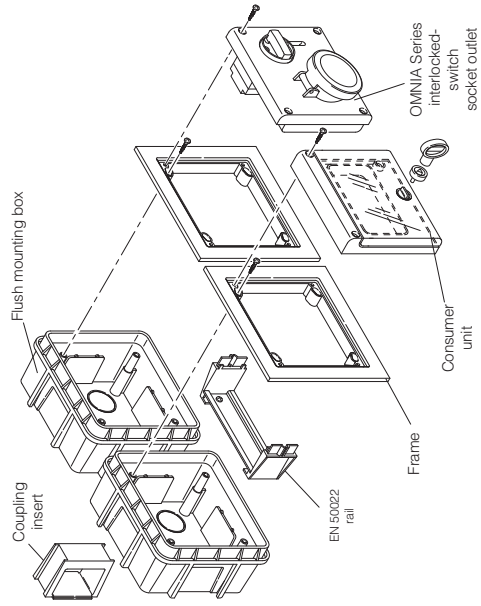
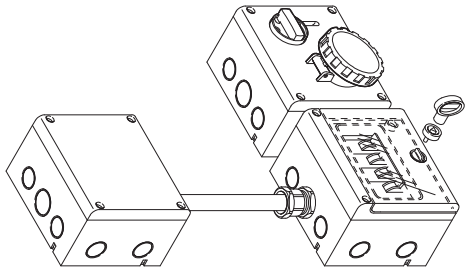


Surface mounting system. Blank plate system with OMNIA Series interlocked-switch outlet without fuse carrier.

FLUSH MOUNTING INSTALLATIONS



SURFACE MOUNTING INSTALLATIONS



Consumer unit with DIN window.
Flush or surface mounting installation.

■ DOMESTIC INTERLOCKED SOCKET



IEC 60884-2-6
Plugs and socket-outlets for household and similar purposes.
Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations.

■ REFERENCE STANDARDS

■ VERSIONS

	Without protection
	With fuse
	MCB
	RCBO

Rated current:	10A - 13A - 16A
Rated voltage:	250 Vac
Frequency:	50 Hz
Insulating voltage:	250 Vac
Fuse:	10A - 250V~
MCB:	16A - 1P+N, C16, 3kA 10A - 1P+N, C10, 3kA
RCBO:	16A - 1P+N, C16, 10mA, 3kA 10A - 1P+N, C10, 10mA, 3kA
Protection degree:	IP56
Operating ambient temperature according to the reference standard:	-15°C +35°C
Maximum operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C (Contact-holder base)
Material:	Engineering plastic
IK Degree at 20°C:	IK08
Colour:	BASE: Grey RAL 7035 COVER: tinted transparent

■ TECHNICAL CHARACTERISTICS

■ AVAILABLE STANDARDS

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

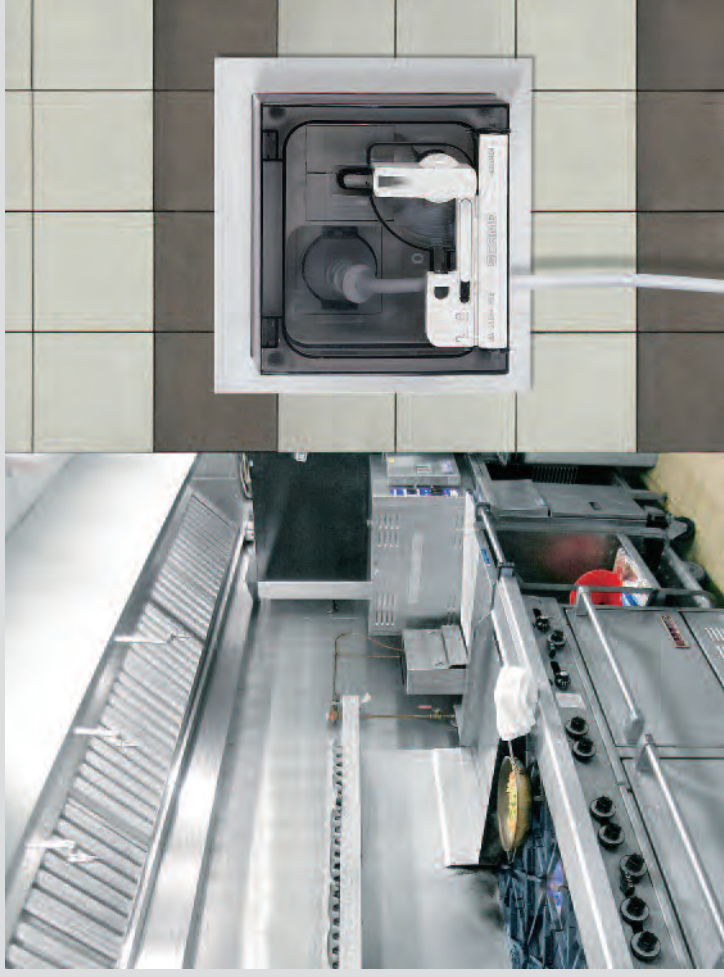
Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant



	ITALIAN STANDARD P30 - 16A Shuttered socket CEI 23-50		GERMAN STANDARD 16A Shuttered socket DIN VDE 0620		FRENCH STANDARD 16A Shuttered socket NFC 61-314		ITALIAN STANDARD P1711 - 16A Shuttered socket CEI 23-50		ARGENTINIAN STANDARD - 10A Unshuttered socket IRAM 2071
	BRITISH STANDARD - 13A Shuttered socket BS 1363-2		NEW ZEALAND STANDARD - 10A Unshuttered socket AS/NZS 3112		SWISS STANDARD - 10A Unshuttered socket SEV 1011:1998		SOUTH AFRICAN STANDARD - 16A Shuttered socket SANS 164-1 (2006)		INDIAN STANDARD - 6/16A Shuttered socket IS 1293:1988

OMNIAPLUS Series

■ APPLICATION EXAMPLES



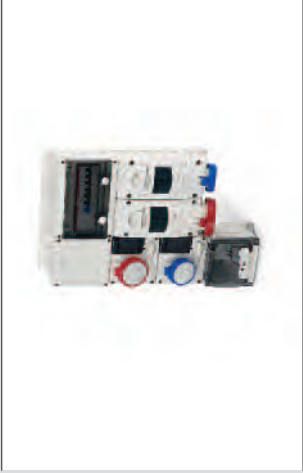
MBOX Series



ADVANCE Series



OMNIA Series



DOMINO Series



INDUSTRIAL PLUGS AND SOCKETS



VERSIONS

Plugs	
Connectors	
Appliance inlets	
Flush mounting socket outlets	
Surface mounting socket outlets	

Nickel-plated brass pins to guarantee long-lasting efficiency of the electrical contact.

REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	100-690V~
Frequency:	d.c - 50±500HZ
Insulating voltage:	500/690V~
Protection degree:	IP44/IP54 - IP66/IP67/IP69
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable gland
Halogen free:	Yes
Terminals:	Screw (16A-32A-63A-125A) Insulation perforating (16A) Spring (32A mobile) Spring (16A-32A flush/surface mounting) Mantle (63A-125A)
Safe-in device:	16A
Snap-on device:	16A-32A
Nickel-plated pins:	16A-32A-63A-125A

NICKEL-PLATED PINS



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Limited Resistance		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Limited Resistance

WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

Max. cable size accepted by the cable clamp:

Rated voltage	Rated current (A)	Plugs connectors and appliance inlets		Socket outlets		Rated current (A)	Outside Ø mm	
		Min	Max	Min	Max		Min	Max
Over 50V	16A	1	2.5	1.5	4	16A	8	15
	32A	2.5	6	2.5	10	32A	11,5	21
	63A	6	16	6	25	63A	17	31
	125A	16	50	25	70	125A	26	48

APPLICATION EXAMPLES

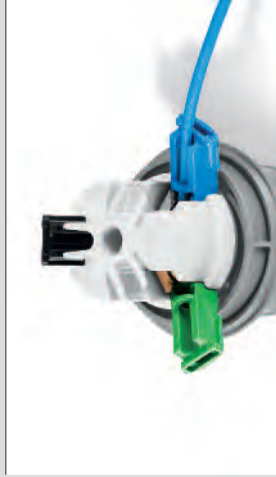




On the 16A and 32A 'Snap-on' device with stainless steel spring to guarantee frequent opening/closing (possibility to inspect the terminals).



External cable stay with tulip clamping having IP66/IP67/IP69 cable gland functions (the device is used on both IP44/IP54 and IP66/IP67/IP69 products).



16A plugs and connectors with insulation perforating terminals which allow wiring without stripping the conductor.



Insulation piercing terminal made in highly elastic phosphor bronze.



Internal profile of the handle which avoids the accidental opening of the contact.



Socket/plug module with screw terminals (16A - 32A - 63A - 125A).

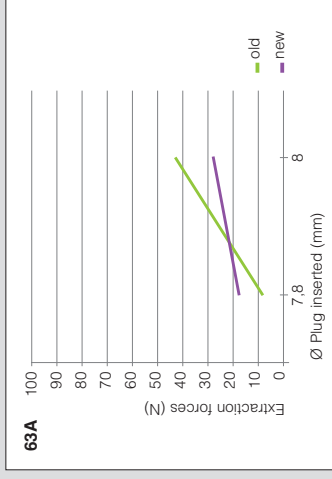


16A and 32A plugs and connectors with screwless spring terminal. Requires cable stripping, but not the tightening of the screws.

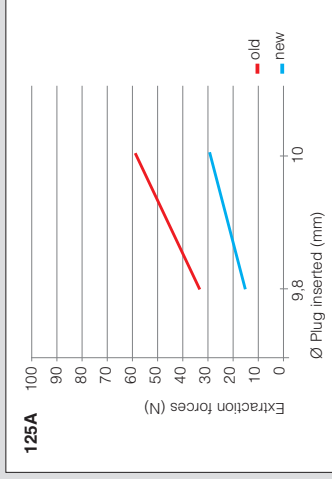


16-32A plugs, flush mounting sockets and surface mounting sockets with spring terminals.

■ EXTRACTION FORCES



The reduction in plug-socket insertion and extraction forces was obtained thanks to the study of a new compression spring of the socket contact. As illustrated in this graph, the reduction in the force was an average of 30% compared to the previous versions, in any event guaranteeing low contact resistance.



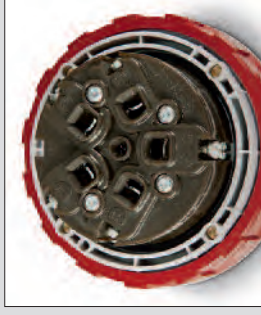
The materials of the pin and contact tube have different surface hardness so as to eliminate, during insertion and extraction operations, the layer of oxide that forms on the surface, thus improving contact smoothness and resistance while keeping them unchanged over time.



The axial incisions and the new compression spring of the socket contact with elasticity coefficient such as to keep insertion and extraction forces constant.



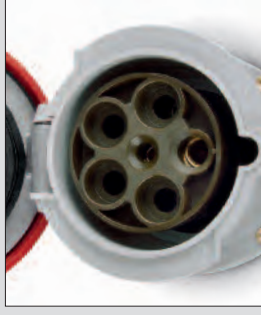
The nickel-plating of the socket contact combined with the special drawing and polishing process increase smoothness and ensure a higher number of contact points.



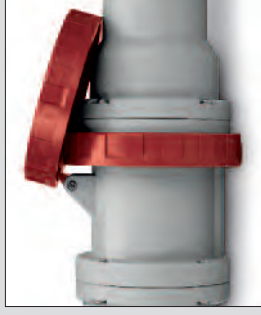
Thanks to their characteristic geometry, the new mantle terminals are suited to all types of conductors and terminals. They increase cable accessibility and contact surface, thus allowing higher tightening torques to benefit contact resistance and seal.



All gaskets are moulded directly on the cover and at the coupling point with the grip. Grip closing is by means of metric screws and metal inserts, making tightening easier and allowing for unlimited inspections and closings.



Contact holder in special technopolymer with fibreglass, featuring high heat resistance. Pilot contacts available as standard equipment on both plugs and sockets.



Entirely made with halogen-free materials, with excellent mechanical resistance to impacts, chemical substances and UV rays.

■ THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets is the most innovative element of the new OPTIMA Series. The "SAFE-IN" device works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.

■ SAFETY LEVEL OF THE OPTIMA SERIES SOCKETS

The OPTIMA Series sockets with the "SAFE-IN" safety device guarantee a higher level of safety in comparison with ordinary industrial sockets, especially in environments where there may be children present or people who have not been trained about electrical dangers (public areas, amusement parks, campgrounds, open markets, etc.). Dangerous situations, such as the important examples illustrated in the figure to the side, can be resolved thanks to the new OPTIMA Series sockets equipped with the "SAFE-IN" safety device.



Connector tube protective shutter for greater safety against direct contacts. (The SAFE-IN safety device).

■ APPLICATION EXAMPLES



■ POTENTIALLY DANGEROUS SITUATIONS



INDUSTRIAL SURFACE MOUNTING SOCKET OUTLETS



REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes. Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes. Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

QUALITY MARKS



VERSIONS



BASE version

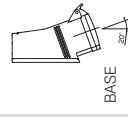


TOP version (with or without switch)

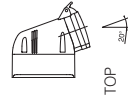


COMBI version (with or without switch)

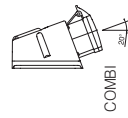
SURFACE MOUNTING INSTALLATION AXIS



BASE



TOP



COMBI

REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes. Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes. Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	100±690V ~
Frequency:	d.c - 50±500Hz
Insulating voltage:	500/690V~
Protection degree:	Base: IP44/IP54 Top: IP44 - IP66/IP67/IP69 COMBI: IP44/IP54 closed cover
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C (housing) 850°C (contact carrier)
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable sleeve IP44/IP54 Cable gland IP66/IP67/IP69
Halogen free:	Yes
Terminals:	Screw (16A-32A) Spring (32A) Mantle (16A-125A)
Safe-in device:	16A
Fuses:	Max 10A - 5x20mm (COMBI version)
	H: high power cutoff (1500A) T: delayed action

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

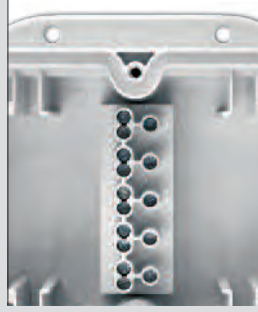
Saline solution	Acids		Bases			Solvents		Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance



Fastening to exterior wall.



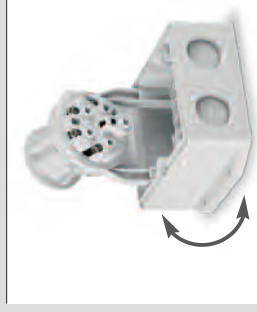
TOP version: ability to create entry-exit.



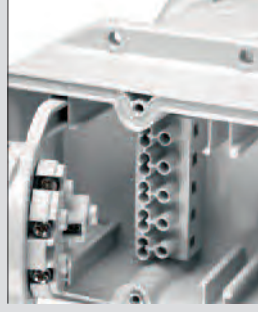
TOP IP66/IP67/IP69 version: integrated, one-piece gasket, fastening screws outside the gasket.



TOP version: threaded knockout hole inlets, version IP66/IP67/IP69, for quick fastening of the cable entry device. IP44 versions supplied with cable gland.



TOP version: reversible base and removable socket for easy wiring.



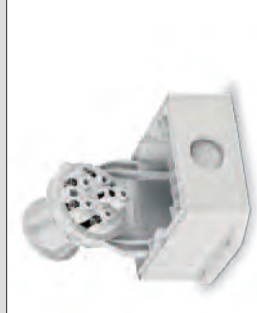
TOP version: entry-exit terminal board accessory.



BASE version: simplified wiring. Socket fixed to the base, open terminals orientated in the same direction and easily accessible.



16-32A Surface mounting sockets with spring terminals.



TOP version: versions with SAFE-IN (16A) safety device available.



COMBI version: combined versions, industrial and household socket.



■ PLUGS AND CONNECTORS FOR DEMANDING APPLICATIONS



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

■ APPLICATION EXAMPLES



■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-125A
Rated voltage:	48-440V~
Frequency:	50-60Hz
Insulating voltage:	500/690V~
Protection degree:	IP66/IP67/IP69
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	-40°C +60°C
Glow Wire test:	960°C
Self extinguishing UL94:	5VA
Material:	Thermoplastic
IK degree:	IK10
Terminals:	Screw
Snap-on:	16A-32A
Nickel plated pins:	16A-32A-63A-125A

OUTSTANDING HEAT AND FIRE RESISTANCE

The technopolymer used for OPTIMA-HD guarantees an excellent heat and fire resistance: Glow Wire 960°C according to EN 60695-2-1; 5VA according to UL94.

OUTSTANDING IMPACT RESISTANCE

This material guarantees an excellent mechanical resistance to impacts. The impact resistance of the casings is higher than 20J (IK10) according to EN50102, even under limit temperature conditions (-40°C +60°C).

RESISTANCE TO ATMOSPHERIC AGENTS

The structure and materials used also make OPTIMA-HD a product suited for the most extreme environmental conditions. The special silicon gasket and the IP67 degree guarantees an excellent seal against the entry of solid objects or liquids into the casings even after a long term installation, and an outstanding resistance against UV radiation.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance

OPTIMA-METAL Series HDAL and HDAS Type

■ ASSISTED CONNECTORS



■ REFERENCE STANDARDS

EN 60309-1

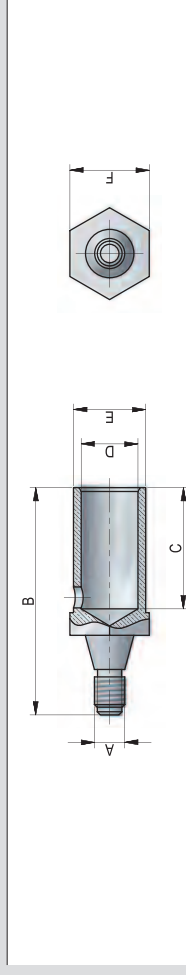
Plugs, socket outlets and couplers for industrial purposes.
Part 1: General requirements

EN 60529

Degrees of protection provided by enclosure.

■ CABLE CONNECTION

Back terminals dimensions



Section (mm²)	HDAL250 / HDAS250						HDAL500 / HDAS500						HDAL800 / HDAS800					
	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
50	3P+E M5	50	29	Ø10,8	Ø14	17	M8	52	24	Ø10,8	Ø14	21						
	4P+E M5	50	24	Ø10,8	Ø14	14												
70	3P+E M5	50	29	Ø13	Ø17	17	M8	56	29	Ø13	Ø17	21						
	4P+E M5	52	29	Ø13	Ø17	14												
95	3P+E 4P+E M5	55	30	Ø15	Ø19	17	M8	60	32	Ø15	Ø19	21						
120	3P+E 4P+E M5						M8	64	35	Ø16,5	Ø21	21						
150	3P+E 4P+E M5						M8	64	35	Ø18,5	Ø22,5	21						
185	3P+E 4P+E M5						M8	62	32	Ø21	Ø25	21						
240	3P+E 4P+E M5						M8	76	43	Ø23	Ø28	21	M10	74	43	Ø23	Ø28	28
300	3P+E 4P+E M5												M10	80	49	Ø27	Ø33	28

■ MAXIMUM CONDUCTOR AND CABLE SIZES

	Cable outside diameter (mm)		Sheathing stripping length (mm)		Insulation stripping length (mm)
	min	max	Phases	±	
HDAL250 / HDAS250 (60°)	32	60	110	150	(see table page 7, mark C)
HDAL500 / HDAS500 (ANGLED HANDLE)	45	80	160	220	
HDAL500 / HDAS500 (STRAIGHT HANDLE)	45	80	200	210	
HDAL800 / HDAS800	52	100	145	145	

■ CRIMPING INSTRUCTIONS

Insert the cable into the cable terminal and crimp the cable using a hexagonal crimping tool with the jaw adapted to the cable section.

Thread the cable terminal into the male or female contacts and tighten by a wrench torque using the tightening torque (see table on the side)

OPTIMA-METAL HDAL250: 4Nm
OPTIMA-METAL HDAL500: 20Nm
OPTIMA-METAL HDAL800: 25Nm

■ LOCKINGS

HDAL type can be equipped with different type of lockings avoiding use of the connectors by people not allowed. Available an additional satty key.

■ MICROSWITCH

HDAL250, HDAL500 and HDAL800 sockets can be equipped with a microswitch for information transmission.

■ HDAS TYPE VERSIONS

	Socket
	Straight plug
	Appliance inlet
	Connector

■ HDAL TYPE VERSIONS

	Socket
	Plug
	Connector
	Reversed socket AVAILABLE ON REQUEST
	Reversed plug AVAILABLE ON REQUEST

■ LIST OF MATERIAL USED

Casings:	Corrosion proof tempered cast aluminium
Inserts:	Thermo-hardening moulded plastic
Contacts:	Silver plated copper alloy
Screws and fastenings:	Stainless steel
Seals:	Neoprene

■ MECHANICAL CHARACTERISTICS

Protection degree:	IP67
Casings:	Corrosion proof tempered cast aluminium
Fastenings:	Stainless steel
Ambient temperature range:	-30°C / +60°C
Mechanical shocks withstand:	IK10

OPTIMA-METAL Series

HDAL - HDIN - HDAS Type



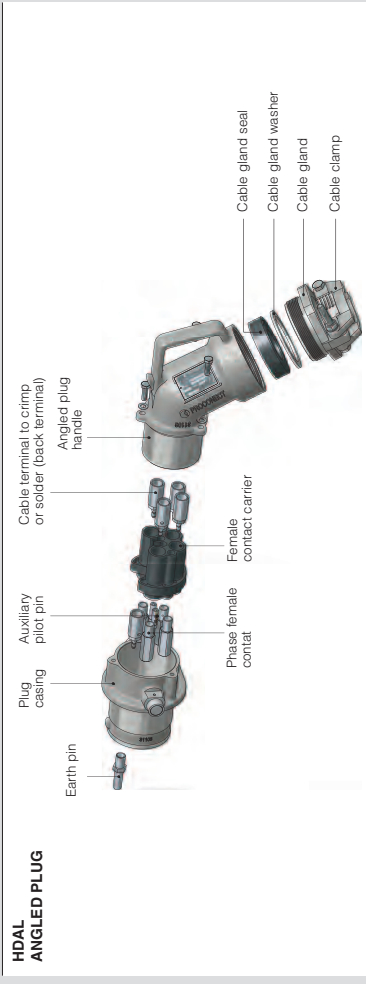
CONTACTS

Contacts are built in 2 parts:

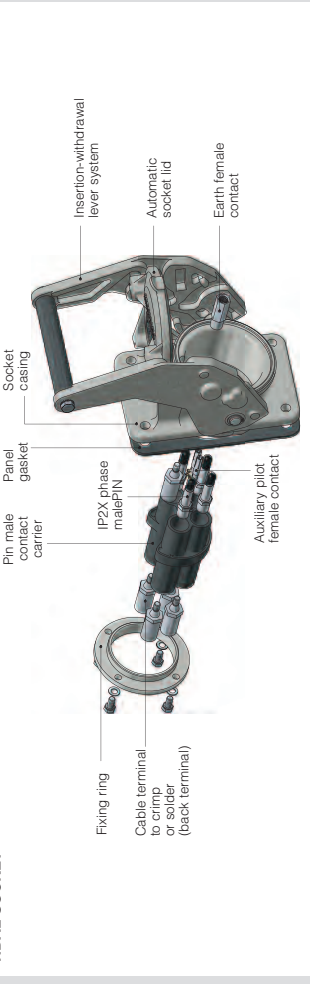
- One front part, male or female used for the connection between plug and socket (contact)
- One back part, called the terminal, in which the cable is crimped, screwed or soldered. It is ended by a threaded cone to screw into the contact.

HDAL type

HDAL sockets are equipped with insertion-withdrawal lever system which provides simple and quick mating and unmating operations and IP67 coupling. It is recommended for application which require frequent coupling or in presence of strong vibrations. When plug is not inserted, insertion-withdrawal lever provide automatic closing of socket lid to seal socket and provide IP67 protection when it is not in use.



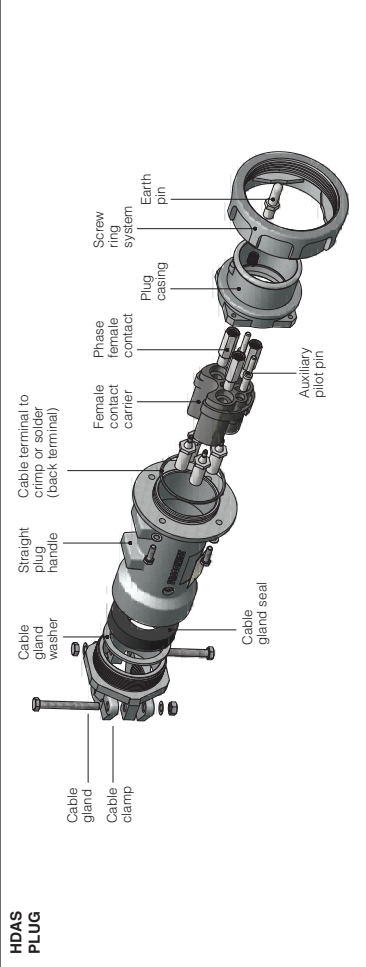
HDAL SOCKET



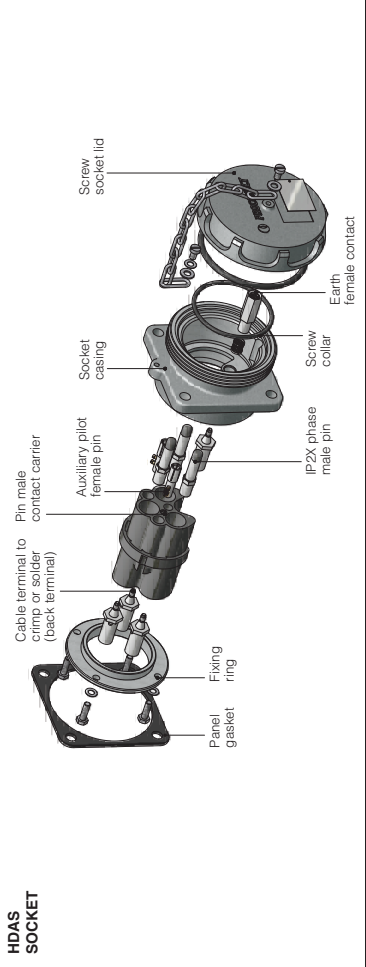
HDAS type

HDAS plugs and sockets are mated and unmated by means of screw collar on plugs and collar ring on sockets giving secure IP67 coupling. Screw socket lid is supplied as standard on sockets and connectors to provide IP67 protection when they are not in use.

HDAS PLUG



HDAS SOCKET



IP2X CONTACTS FOR HDAL250 / HDAL500 / HDIN250 / HDAS250 / HDAS500

Male contacts

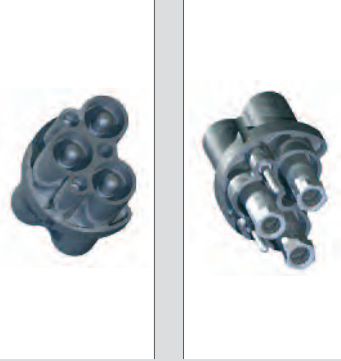
Supplying connectors (generally sockets and connectors) are intended the contacts that supply the voltage, they are fitted with insulated cap that guarantee IP2X (Finger protection), this protection is not available for HDAL800 and HDAS800. Male contact pins are supplied with cable terminal in which the cable is crimped or soldered.

Female contacts

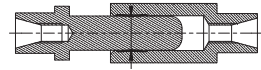
Receiving connectors (generally plugs and appliance inlets), are intended the contacts that receive the voltage, they are fitted with the slotted sleeve of female contacts. They are supplied with cable terminal in which the cable is crimped or soldered.

Pilot pins

All standard products are equipped with 2 pilot pins. Their characteristics of connecting later and disconnecting earlier than phase pins is for making electrical interlock insuring that no connection and disconnection occur under load.



Multipoint contacts
SCAME power connector contacts are silver-plated self cleaning and make use of a special technique using lamellar technology with multicontacts. This technology guarantees a great number of connections points (see table), excellent temperature resistance (up to 200 °C) and low insertion force.



Diam. (mm)	Nb lamelles	Amp.
10	21	250
12	22	320
14	29	400
16	33	500
18	37	640
20	41	800

	Amperage	Voltage up to	Nb contacts		Nb pilots		Section		Diam. Cable	
			Max.	Max.	Max.	Max.	Max.	Max.		
HDAL250/HDAS250	250A	1,000V	5	2	95 mm ²	60 mm				
HDAL500/HDAS500	570A	1,000V	5	2	240 mm ²	80 mm				
HDAL800/HDAS800	800A	1,000V	5	2	300 mm ²	100 mm				

OPTIMA-METAL Series HDIN250 Interlocked socket

■ INTERLOCKED SOCKET



SCAME OPTIMA-METAL Series can also be delivered with mechanical and electrical interlocked socket with housing of polyester powder coating metal sheet enclosure.

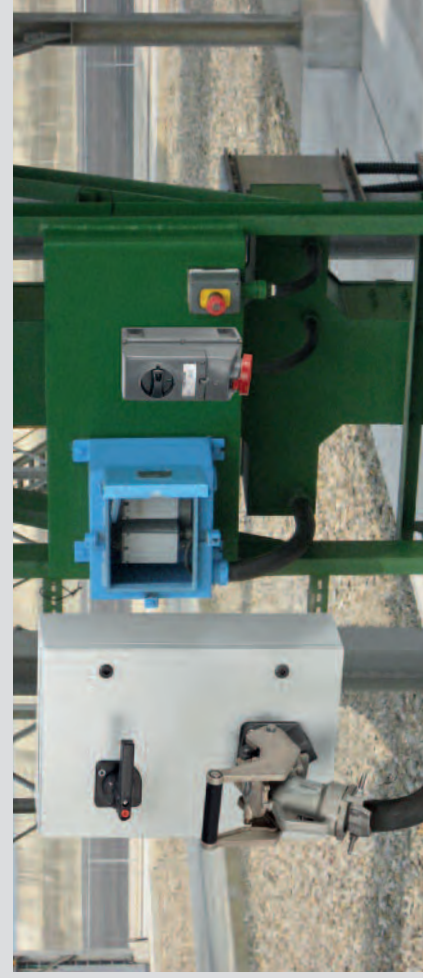
Mechanical interlocked socket are provided with a wide range of switches and protection devices as: switch disconnecter, fuse switch disconnecter, MCCB (Molded case Circuit Breaker) and MCCB with RCD (Residual Current Device).

The interlock mechanism prevents making and breaking of power under load.

"The switch cannot be actuated to the ON position until a compatible plug is fully inserted, and the plug cannot be removed until the switch is in the OFF position".

Switched socket with interlock HDIN can be mated only with HDAL250 plugs.

■ APPLICATION EXAMPLES



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: General requirements.

EN 60309-4

Plugs, socket outlets and couplers for industrial purposes.
Part 4: Switched socket-outlets and connectors with or without interlock.

■ CONNECTOR CHARACTERISTICS

- OPTIMA-METAL Series HDIN250 Switch Sockets (mechanical interlock):
3P+E 250 A 400-690 V
3P+N+ E 250 A 400-690 V
- OPTIMA-METAL Series HDIN250 Fuse switch sockets (mechanical interlock):
3P+E 250 A 400-690 V (lcv: 50 kA - 400V)
3P+N+ E 250 A 400-690 V (lcv: 50 kA - 400V)
- OPTIMA-METAL Series HDIN250 With MCCB (electrical interlock):
3P+E 250 A 400-690 V (lcv: 50 kA - 400V)
3P+N+ E 250 A 400-690 V (lcv: 50 kA - 400V)
- OPTIMA-METAL Series HDIN250 With MCCB plus RCD (electrical interlock):
3P+E 250 A 400-690 V (lcv: 50 kA - 400V)
3P+N+ E 250 A 400-690 V (lcv: 50 kA - 400V)

■ TECHNICAL DATA RATING SWITCH DISCONNECTORS 3P AND 3P+N 250A

Rated current	(A)	25	
Rated insulation voltage	(V)	1000	
Impulse withstand voltage	(kV)	12	
Rated thermal current	(A)	250	
Rated operational current	415V	(A) 250	
	500V	(A) 250	
	690V	(A) 250	
Rated operational current	415V	(A) 250	
	500V	(A) 250	
	690V	(A) 250	
Rated operational current	415V	(A) 250	
	500V	(A) 200	
	690V	(A) 160	
Rated making capacity	(A)	2500	
Rated breaking capacity	(A)	2000	
Short circuit withstand current 1 sec.	(kA)	8	
Short circuit withstand current 0.25 sec.	(kA)	16	
Short circuit making capacity	(kA)	13.5	
Rated operational power	(kW)	130	
Rated fuse short-circuit current	Back up fuse	(A)	250
	R.M.S. value	(kA)	50
	Peak value	(kA)	25
	Cable section	mm ²	120
	Bars dimension	mm ²	20x5

■ ENCLOSURE TECHNICAL CHARACTERISTICS

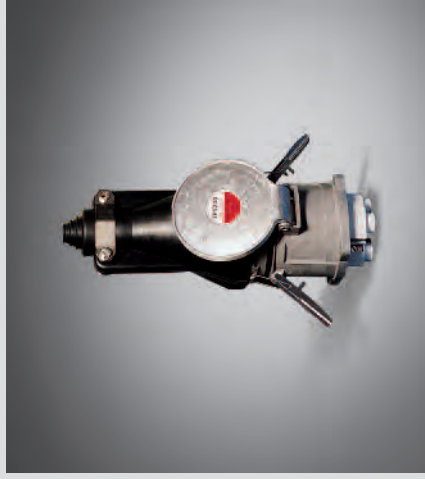
Polarity:	3P-3P+N
Rated current:	250A
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5 °C / +40 °C
Mix-Max. operating ambient temperature:	-25 °C +60 °C
Material:	Sheet steel
IK degree:	IK10
Finishing/colour:	Polyester powder grey RAL7032
3P+N with late break early make neutral pole. Padlockable handle. Equipped with door locking.	

■ WIRING OPERATIONS

Wiring capacity of the terminals (mm²):

Type	min.	max
Switch	70	185
Fuses switch	90	120
MCCB	70	185
MCCB + RCD	70	185

■ SWITCHING CONNECTOR



■ REFERENCE STANDARDS

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: General requirements.

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse combination unit.

■ LIST OF MATERIAL USED

Size	Casing	Flat Seal	Lip seal	Insert	Latch	Contact	Handle	Wall box	Inclined sleeve	Screw	Plug cap
HDSD200	ASTG	Neopren	Nitrile	PAG	ASTG	Copper/Silver	EPDM	ASTG	ASTG	Stainless steel	PAG

■ MAXIMUM CONDUCTOR AND CABLE SIZES

	Cable outside diameter (mm)		Sheathing stripping length (mm)	Insulation stripping length (mm)
	Min.	Max.		
899.SD2G	22	50	155	38
899.SD2GM	25	62	155	38
899.SD2GMA	25	62	155	38

■ WATERTIGHT CONNECTORS WITH SWITCHING CAPACITY

Our **HDSD200** range of connectors is extremely robust and supercedes the requests of **EN 60309-1** standards in terms of safety, insulation, temperature resistance, heating, life duration, resistance to shocks and traction on the cables.

Besides, due to the special technology of the contacts and the materials chosen, the 3PS series can be used as **SWITCHED sockets**, according to the standard **EN60947-3, AC23**.

■ SAFETY DISC (IP4X)

This device protects the user preventing accidental and voluntary contact of live parts of the sockets and connectors even with small linear tool or wire with a diameter of 1 mm. Which corresponds to IP4X degree protection.

Conductor cross section (mm²)	
Standard	120
Flexible	95
Tightening torque	5

■ CONTACTS

HDSD200 connectors are fitted with butt contacts which have a brazed silver alloy tip for low voltage drop and high arc resistance. These contacts warrant an excellent behaviour of the switching function.

The contact terminal will ensure a permanent pressure on the cable due to its elastic slotted sleeve with its expansion limited by a ring. This construction is vibration proof. All conductive parts are tin plated to prevent corrosion.



Butt contacts with brazed silver alloy tip.

■ ELECTRICAL CHARACTERISTICS

Rated current:	150/250A
Max. Voltage:	1000 V AC / 250 V DC
Switching capacity:	150A AC23 (acc. IEC 60 947-3) *

* up to 150A 500V

■ MECHANICAL CHARACTERISTICS

Protection degree:	IP4X when lid open IP66
Housings:	Corrosion proof cast aluminum
Stainless steel fastenings	
Self-closing lid	
Ambient temperature range:	- 30° C / + 60° C
Mechanical shocks withstand:	IK09 (metal)

HDSD200 plugs and sockets are equipped of an innovative system to disconnect the equipment on full load up to 200A by special contacts able to macking carrying and bracking current as a switch disconnector even in case of high inductive loads, like motor loads. So that connections and disconnections can be done under load in complete safety and reliability.

HDSD200 plugs and sockets have also a device to avoid wrong mating between plug and socket with different amperage, voltage and number of poles as for IEC60309 plugs and sockets.

Finally a very high level of safety is guaranteed by shatter (safety disc) on the sockets or connectors which are the supplier part normally live (IP4X when lid is open).

HDSD200 range is the complete answer for management who take industrial safety seriously and have many non-specialist personnel needing power for portable tools and equipment.

Our HDSD200 plug and sockets are moulded in high quality plastic materials which combine exceptional impact resistance, tolerance of most industrial chemicals, detergents and exposure to UV light.

■ PLUGS WITH PHASE INVERTER



■ REFERENCE STANDARDS



EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket-outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

■ VERSIONS

	Plugs
	Appliance inlets

■ PHASE INVERTER



Fixed and movable plugs which rapidly invert two phases in order to return to the correct direction of rotation of three-phase motors for movable and fixed applications.

■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	346÷415V~
Frequency:	50÷60Hz
Insulating voltage:	690V~
Protection degree:	IP44/IP54 - IP66/IP67/IP69
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C (housing) 850°C (contact carrier)
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable gland
Halogen free:	Yes
Terminals:	Screw
Snap-on device:	16A-32A
Polarity:	3P+E / 3P+N+E
Connectable cables:	Flexible class 5 or 6

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Limited Resistance	Limited Resistance
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Limited Resistance

■ WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

Rated voltage	Rated current (A)	Plugs		Rated current (A)	Outside Ø mm	
		Appliance inlets	Max		Min	Max
Over 50V	16A	1	2,5	16A	8	15
	32A	2,5	6	32A	11,5	21

Max. cable size accepted by the cable clamp:

Rated voltage	Rated current (A)	Plugs		Rated current (A)	Outside Ø mm	
		Appliance inlets	Max		Min	Max
Over 50V	16A	1	2,5	16A	8	15
	32A	2,5	6	32A	11,5	21

■ OPERATING PRINCIPLE OF THE PHASE INVERTER



The phases are inverted by simply pushing and turning the phase pin support with a screwdriver.

INDUSTRIAL PLUGS AND SOCKETS



REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couplers for industrial purposes.
Part 1: general requirements.

QUALITY MARKS



VERSIONS

Plugs	
Connectors	
Appliance inlets	
Flush mounting socket outlets	
Surface mounting socket outlets	

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	100+690V~
Frequency:	50+500Hz
Insulating voltage:	500/690V~
Protection degree:	IP44 - IP66/IP67
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	IK08
Cable inlets:	Cable gland
Halogen free:	Yes
Snap-on device:	16A-32A
Nicke-plated pins:	16A-32A

APPLICATION

- Star delta connections
- Tapped winding connections
- Monitoring
- Controlling and actuation
- Electrical interlocks

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance

WIRING AND INSTALLATION

Wiring capacity of the terminals (mm²)

Max. cable size accepted by the cable clamp:

Rated voltage	Rated current (A)	Plugs and connectors		Appliance inlets and socket outlets		Rated current (A)		Outside Ø mm	
		Min	Max	Min	Max	Min	Max	Min	Max
Over 50V	16A	1	2,5	1,5	4	16A	8	16	
	32A	2,5	6	2,5	10	32A	11,5	22	

APPLICATION EXAMPLES



PROTECTA Series
ENCLOSURES

REFERENCE STANDARDS
EN 60670-1 (2005-10)

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. *Part 1: general requirements.*

A wing on the lid assist one-handed opening

Tinted polycarbonate cover to see inside

Polycarbonate box shockproof, chemical and UV resistant

Ø20 cable entries

Specifically high formulated gel seal to maintain protection degree when the plug is inserted

Stainless steel screws


VERSIONS

	Empty 1-module enclosure - flush mounting - surface mounting
	Empty 2-module enclosure - flush mounting - surface mounting
	Pole side by side enclosure
	Pole-top enclosure
	3-module flush-mounting box adapter IP55

TECHNICAL CHARACTERISTICS

Protection degree:	IP66 (*)
Operating ambient temperature:	-5°C +60°C
Installation ambient temperature:	-20°C +60°C
Glow Wire test:	650°C
Halogen free:	SI
Material:	Engineering plastic
IK degree at 20°C:	IK07
Cable inlets:	M20
Colour:	Base: grey RAL 7035 Cover: tinted transparent

(*) IP55 for 3-module flush-mounting box adapter flange.

Empty enclosure to be assembled as for specific needs

Easy clip-on modular devices to suit individual requirements

Stylish design of flush mounting box


AVAILABLE STANDARDS

	ITALIAN STANDARD PT711 - 16A Shuttered socket CEI 23-50		GERMAN STANDARD - 16A Shuttered socket DIN VDE 0620		FRENCH STANDARD - 16A Shuttered socket NFC 61-314		BRITISH STANDARD - 13A Shuttered socket BS 1363-2 BS 7288:1990
	BRITISH STANDARD - 15A Shuttered socket BS 546		ARGENTINIAN STANDARD - 10A Unshuttered socket IRAM 2071		NEOZELANDER STANDARD - 10A Unshuttered socket AS/NZS 3112		SWISS STANDARD - 10A Unshuttered socket SEV 1011:1996
	BRAZILIAN STANDARD - 10A Unshuttered socket ABNT NBR 14136:2002						

■ CABLE REELS FOR INDUSTRIAL, COMMERCIAL AND DOMESTIC APPLICATIONS



■ VERSIONS

	ROLLER330 Series - For domestic applications
	ROLLER330 Series - For industrial applications
	ROLLER450 Series - With portable stand
	ROLLER-BLOCK450 Series - With wheeled portable distribution assembly stand available

■ REFERENCE STANDARDS

IEC 61242 Electrical accessories cable reels for household and similar purposes.
IEC 61316 Industrial cable reels.

■ QUALITY MARKS

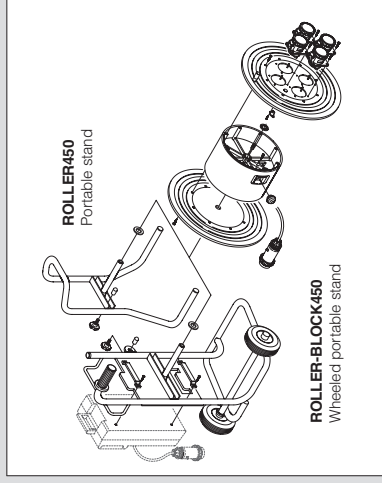
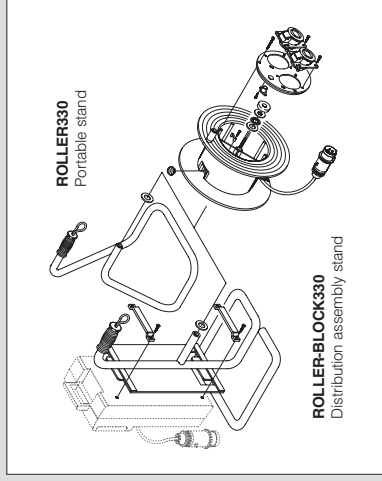


■ TECHNICAL CHARACTERISTICS

Rated voltage:	230÷400V~
Frequency:	50Hz
Insulating voltage:	500/690V~
Protection degree:	IP20-IP44-IP55
Operating ambient temperature according to the reference standard:	-25°C +40°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
IK degree at 20°C:	Roller 300: IK07 Roller 450: IK08
Cable for industrial versions:	Type H07RN-F
Cable for domestic versions:	Type H05VV-F

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases				Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Not Resistant	Limited Resistance		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Not Resistant	Not Resistant	Not Resistant	Resistant



■ APPLICATION EXAMPLES



ROLLER Series

■ ROLLER330 SERIES



Shows: cable clamp, terminal strip, thermal overload switch, contactor, isolating protection pivot and elastic hook



The version with the interlocked switch socket outlet is well-suited for use in public entertainment venues.

■ ROLLER-BLOCK450 SERIES



ROLLER-BLOCK450
Screwing a holding bracket onto the back of any BLOCK4 distribution assembly makes for a combined cable reel/assembly unit.



ROLLER-BLOCK450
As well as the holding plate for attaching the distribution assembly, the cable reel comes with wheels for moving the combined unit, a cable-holding bracket, an ergonomic handle and a brake for the drum.

■ ROLLER450 SERIES



Portable stand with integral brake. The cable reel stand is made of corrosion-proof steel and has an adjustable thumbscrew brake to avoid unnecessary overrun.

■ JUNCTION BOXES FOR ELECTRICAL INSTALLATION



■ REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. Part 1: general requirements.

EN 60670-22

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations. Part 22: particular requirements for connecting boxes and enclosures.

■ QUALITY MARKS



■ VERSIONS

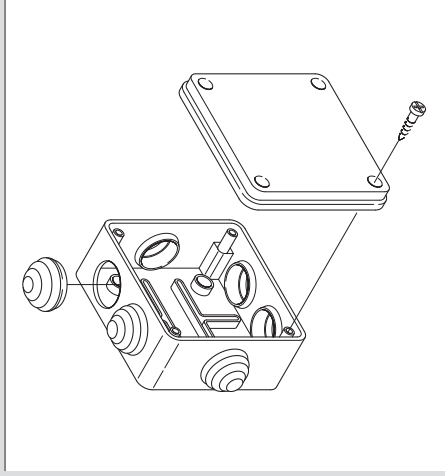
	With cavie sleeves - IP55 - With press-fit cover
	With cavie sleeves - IP55 - With screw-down cover
	With blank sides - IP56 - With screw-down cover
	With blank sides - IP56 - Higer box with screw-down cover

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP55-IP56
Operating ambient temperature according to the reference standard:	-25°C +35°C
Max operating ambient temperature:	60°C
Glow wire test:	650°C
Material:	Engineering plastic
IK degree at 20°C:	IK04 - IK08
Insulation class:	Class II (double insulation) <input checked="" type="checkbox"/>
Halogen free:	Yes (blank sides versions)
DIN rail fixing:	Yes
Colour:	Grey RAL 7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Mineral oil	UV rays
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant



Surface mounting junction box 100x100 mm. 50 mm high box with IP55 cable sleeves. Screw-down cover.



Wall fixing system.

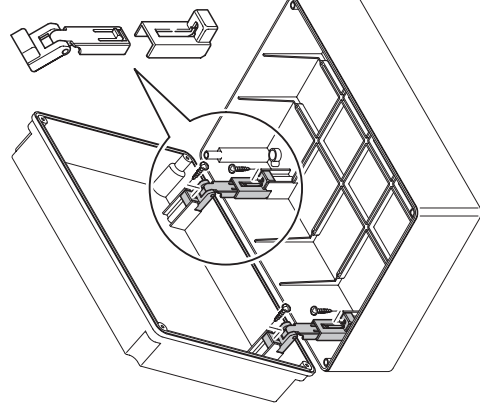
■ HINGES KIT

An interesting novelty for the SCABOX Series, a practical hinge kit is available that permits the book-like opening of the cover while keeping it integral with the base.

The kit can be optionally applied inside the casing in a quick and simple manner; thus the SCABOX acquires greater functionality – perfect in the installation phase, during the wiring operations, and extremely practical for the subsequent phases of maintenance and inspection, since it keeps the cover supported and hinged to the base.

Pressing lightly on the small lever of the hinge, it is possible to remove the cover from the base and to thus separate the two elements.

With a simple locking manoeuvre it is possible to eventually replace the cover to the base.



SCABOX Series
Hinges kit (3 pieces) Item 654-0085.

■ MULTI-OUTLET SOCKETS



■ REFERENCE STANDARDS

IEC 60884-1

Plugs and socket-outlets for household and similar purposes.
Part 1: general requirements.

CEI 23-124

Plugs and socket outlets for household and similar purposes.
Part 2.7: particular requirements for cord extension set.

CEI 23-50

Plugs and sockets for domestic and similar applications.
Part 1: general requirements.

■ VERSIONS

	Multi-outlet sockets without luminous switch
	Multi-outlet sockets with luminous switch
	Multi-outlet sockets with lighting protection

■ TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	750°C
Halogen free:	Yes
Cabling capacity of the terminal:	0,75+2,5mm ²
Material:	Engineering plastic
Colour:	Random (*) Anthracite RAL 7021 Tinted (transparent) Turquoise blue (transparent)

(*) Random colour means casual "white base – grey lid" or "grey base – white lid".

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ CONDUIT INSTALLATION ACCESSORIES



■ VERSIONS

	90° bend
	Conduit coupling
	Conduit to box coupling
	Conduit to box couplings (equal diameter)

■ REFERENCE STANDARDS

<p>EN 61386-1 Conduit systems for cable management. <i>Part 1: general requirements.</i></p>
<p>EN 61386-21 Conduit systems for cable management. <i>Part 2: particular requirements - rigid conduit systems.</i></p>

■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Protection degree:	IP66/IP67
Operating ambient temperature according to the reference standard:	-5°C +60°C
Max operating ambient temperature:	60°C
Glow wire test:	750°C
Halogen free:	Yes
IK degree at 20°C:	IK07-IK10
Material:	Engineering plastic
Colour:	Grey RAL 7035

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

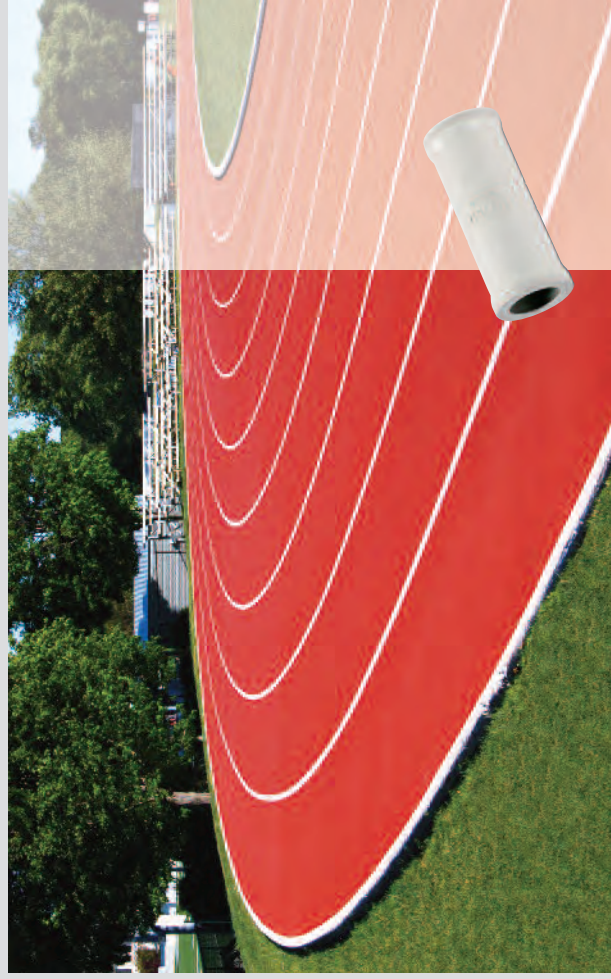
Saline solution	Acids		Bases			Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol			
Resistant	Resistant	Resistant	Resistant	Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant	Limited Resistance	Resistant	Resistant

■ CO-INJECTION MOULDED GASKET



The use of a co-injection moulding system makes it possible to turn the technopolymer gasket into an extension of the piece and disguise it as part of the pipe. It also provides a greater degree of sealing efficiency and makes it easier to insert pipe fittings without squashing or deforming the gasket.

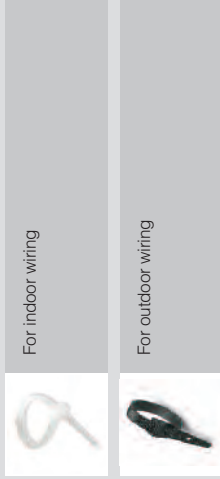
■ APPLICATION EXAMPLES



■ CABLE TIES



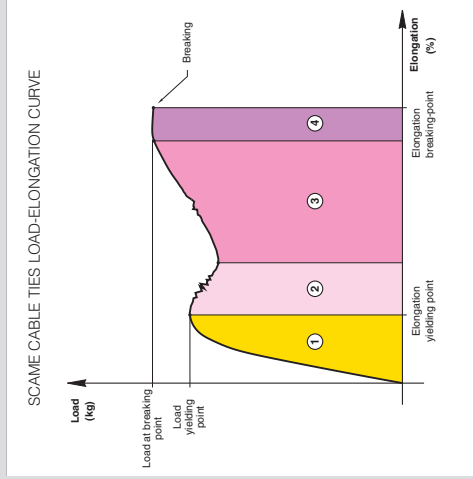
■ VERSIONS



For indoor wiring

For outdoor wiring

■ LOADING DIAGRAM



■ TECHNICAL CHARACTERISTICS

Operating ambient temperature:	-40°C +85°C for indoor wiring -45°C +85°C for outdoor wiring
Installation ambient temperature:	-10°C +60°C for indoor wiring -30°C +60°C for outdoor wiring
Glow Wire test:	650°C
Material:	PA 6.6 (Indoor wiring) Engineering plastic (outdoor wiring)
Colour:	Black Natural
IK degree at 20°C:	IK08-IK10

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ DIMENSIONS

Cable ties for indoor wiring

Dimensions (mm)	Grip capacity MIN ÷ MAX Ø (mm)	Tensile strenght (kg)
2.2x75	1.5 ÷ 15	6
2.5x98	1.5 ÷ 18	8
2.5x135	1.5 ÷ 30	8
2.5x160	1.5 ÷ 40	8
2.5x200	1.5 ÷ 50	8
3.6x140	1.5 ÷ 35	13
3.6x200	1.5 ÷ 50	13
3.6x290	1.5 ÷ 80	13
3.6x365	1.5 ÷ 100	13
4.8x180	1.5 ÷ 45	22
4.8x200	1.5 ÷ 45	22
4.8x250	1.5 ÷ 60	22
4.8x290	1.5 ÷ 75	22
4.8x360	1.5 ÷ 100	22
4.8x130	1.5 ÷ 110	22
7.6x180	4.5 ÷ 45	55
7.6x300	4.5 ÷ 80	55
7.6x365	4.5 ÷ 100	55
9x780	4.5 ÷ 230	55

Cable ties for outdoor wiring

Dimensions (mm)	Grip capacity MIN ÷ MAX Ø (mm)	Tensile strenght (kg)
6x115	4 ÷ 25	25
6x175	10 ÷ 45	28
9x120	4 ÷ 22	48
9x180	10 ÷ 42	48
9x265	30 ÷ 60	51
9x360	30 ÷ 93	51

■ APPLICATION EXAMPLES



Four areas with different characteristics can be clearly identified:

- 1) Elastic elongation (utilization area).
The cable tie subject to traction strenght undergoes elastic elongation. Once the strenght stops, it goes back to the initial state without altering its physical characteristics.
- 2) Stretching of molecular bonds.
The cable tie is subject to a load such as to undergo inter-molecular breaks. The elasticity characteristics are altered.
- 3) Permanent deformation.
The cable tie undergoes the breaking of all intermolecular bonds. Elongation to rupture.
- 4) Elongation to rupture.
Range within which the cable tie breaks.

■ CONTROL AND SIGNALLING ACCESSORIES



■ REFERENCE STANDARD

EN 60947-5-1

Low-voltage switchgear and controlgear.
Part 5-1: control circuit devices and switching elements -
Electromechanical control circuit devices.

■ ELECTRICAL RATING

Rated thermic voltage Ith: 16A - Limits of usage as IEC 60947-5-1

Cat. AC15		Cat. DC13	
Voltage Ue	(VI) 24	Voltage Ue	(VI) 24
Current Ie	(IAI) 16	Current Ie	(IAI) 2
		Voltage Ue	60
		Current Ie	0,85
		Voltage Ue	110
		Current Ie	0,4
		Voltage Ue	400
		Current Ie	4,5
		Voltage Ue	440
		Current Ie	3,5
		Voltage Ue	500
		Current Ie	3
		Voltage Ue	590
		Current Ie	1

■ APPLICATION EXAMPLES



■ VERSIONS

	Control stations
	Push buttons
	Selectors
	Enbloc pilot lamp
	Contact blocks

■ QUALITY MARKS

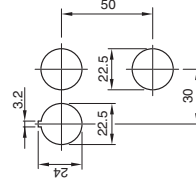


■ TECHNICAL CHARACTERISTICS

Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-25°C +70°C
IK degree at 20°C:	IK08
Material:	Engineering plastic

■ PERFORMANCE ACCORDING TO EN 60947-5-1

Hole EN 60947-5-1



■ MULTI-OUTLET SOCKETS



■ REFERENCE STANDARDS

CEI 23-124

Plugs and socket outlets for household and similar purposes.

Part 2-7: particular requirements for cord extension set.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ APPLICATION EXAMPLES



■ QUALITY MARKS



■ VERSIONS

	Without luminous switch
	With luminous switch
	With lighting protection
	With USB

■ TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	750°C
Halogen free:	Yes
Material:	Engineering plastic
Colour:	Random (*) Anthracite RAL 7021 Turquoise blue (transparent)

(*) Random colour means casual "white base – grey lid" or "grey base – white lid".

■ DOMESTIC CABLE REELS - ENERGY



■ REFERENCE STANDARDS

EN 61242
Electrical accessories cable reels for household and similar purposes.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant

■ POWER OUTPUT

Plug	Power supply		Cable		Max load (W)	
	Type	Meters	⊖	⊕	Volt (V~)	
10A	2X1	5	1200	2200	230	230
		10	110	2300	230	230
		15	110	2300	230	230
	3X1	20	110	2200	230	230
		5	1200	2300	230	230
		10	1100	2850	230	230
16A	4	1700	3200	230	230	230
		5	1200	3200	230	230
		10	1200	3200	230	230
	15	1200	3200	230	230	230
		15	1200	3200	230	230
		20	1200	3200	230	230

■ APPLICATION EXAMPLES



■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Rated current:	10A-16A
Rated voltage:	250V ~
Frequency:	50Hz
Insulating voltage:	250V ~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-5°C +40°C
Max. operating ambient temperature:	40°C
Glow Wire test:	650°C/850°C
Material:	Engineering plastic
Colour:	Petrol Blue/Orange

■ PRACTICAL ADVICE

- Do not use in places where there is danger of explosion or fire.
- When in use the cable should be extended on the ground or the floor avoiding wear and tear or damage (crushing caused by heavy loads or vehicles passing over the cable for example). If necessary suitable mechanical protection should be used.
- After use rewind the cable carefully back onto the reel.
- Periodically check the condition of the cable for example (there should be no signs of wear, compression or cracks) and test the phase and earth conductors for conductivity.

■ VERSIONS

	TRIS150 Series - Italian standard plugs
	TRIS190 Series - Italian standard plugs - French-German standard plugs
	TRIS230 Series - Italian standard plugs - French-German standard plugs

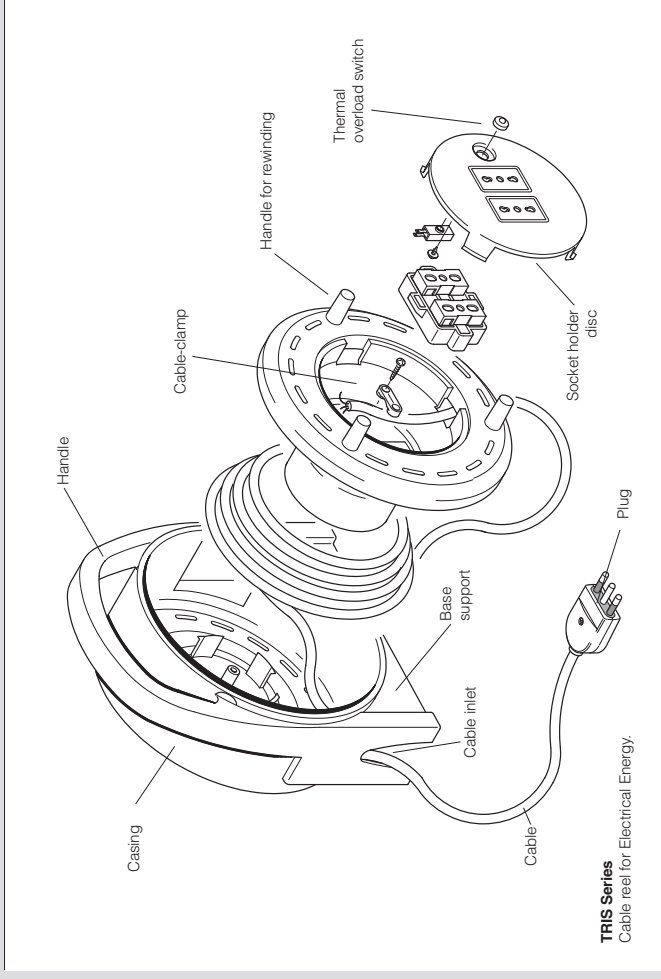


Handle and knob for rewinding the cable easily.



Thermal overload switch: a bimetallic device is put in close contact with the supply cable and protects it from excessive overheating resulting from the Joule effect. If activated, the device opens the circuit to the socket, interrupting the supply of electrical energy. Reactivation is only possible manually and if the temperature is below intervention threshold.

WARNING: The thermal overload switch is not an isolator switch, therefore maintenance operations are carried out after having disconnected the circuit. The thermal overload switch does not protect the load from overcurrents (overloading and short-circuiting).



TRIS Series
Cable reel for Electrical Energy.

■ DOMESTIC CABLE REELS - TV AND TELEPHONE



■ TECHNICAL CHARACTERISTICS

Operating ambient temperature: -5°C +40°C

Glow Wire test: 650°C

Material: Engineering plastic

Colour: Petrol Blue/Water green

Petrol Blue/Light blue

■ PRACTICAL ADVICE

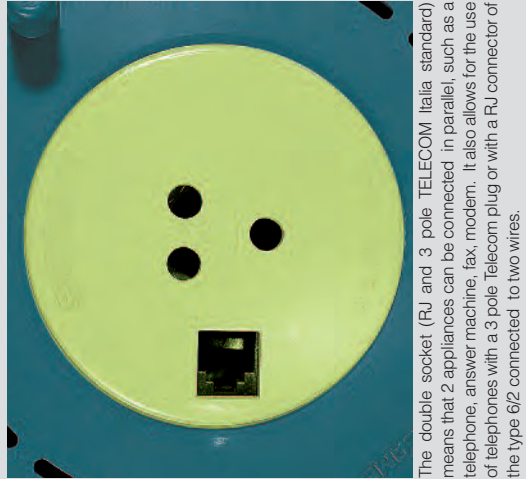
- When in use the cable should be extended on the ground or the floor avoiding wear and tear or damage (crushing caused by heavy loads or vehicles passing over the cable for example). If necessary suitable mechanical protection should be used.
- After use rewind the cable carefully back onto the reel.
- Periodically check the condition of the cable for example (there should be no signs of wear, compression or cracks) and test the phase and earth conductors for conductivity.

■ VERSIONS



TRIS130 Series
- TV and telephone version

TRIS150 Series
- TV and telephone version



The double socket (RJ and 3 pole TELECOM Italia standard) means that 2 appliances can be connected in parallel, such as a telephone, answer machine, fax, modem. It also allows for the use of telephones with a 3 pole Telecom plug or with a RJ connector of the type 6/2 connected to two wires.



TV socket: IEC connector with a diameter of 9.5 mm for coaxial cable.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases				Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol				
Resistant	Limited Resistance	Not Resistant	Limited Resistance	Limited Resistance	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Limited Resistance	Resistant	

■ APPLICATION EXAMPLES



■ CONDUIT INSTALLATION ACCESSORIES - IP40



■ REFERENCE STANDARDS

- EN 61386-1**
Conduit system for cable management.
Part 1: general requirements.
- EN 61386-21**
Conduit system for cable management.
Part 2: particular requirements-rigid conduit systems.
- EN 60423**
Conduits for electrical installation.
External diameters of rigid
are flexible conduits for electrical installations.

■ QUALITY MARKS



■ VERSIONS

	Inspection elbow
	Flat tee inspection
	Bend with two couplings
	Conduit coupling

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Operating ambient temperature according to the reference standard:	-5°C +60°C
Max. operating ambient temperature:	60°C
Glow Wire test:	750°C
IK degree at 20°C:	IK06-IK10
Material:	Engineering plastic
Colour:	Grey RAL 7035

■ CONDUIT INSTALLATION ACCESSORIES - IP65



■ REFERENCE STANDARD

- EN 61386-1**
Conduit system for cable management.
Part 1: general requirements.
- EN 61386-21**
Conduit system for cable management.
Part 1: particular requirements-rigid conduit systems.
- EN 60423**
Conduits for electrical installation.
External diameters of rigid
are flexible conduits for electrical installations.

■ QUALITY MARKS



■ VERSIONS

	Bend with two couplings
	90° flexible bend
	Conduit couplings
	Conduit to box couplings
	Flexible joint for rigid-box tube connections
	Conduit to sheath couplings
	Sheat to box couplings
	Sheat to EUREKA couplings

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5°C +60°C
Max. operating ambient temperature:	60°C
Glow Wire test:	750°C
IK degree at 20°C:	IK06-IK10
Material:	Engineering plastic
Colour:	Grey RAL 7035

■ CABLING OPERATIONS



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol	Resistant	Resistant
Resistant	Resistant	Resistant	Resistant	Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant	Resistant	Resistant

■ DOMESTIC PLUGS AND SOCKETS



■ REFERENCE STANDARDS

CEI 23-50

Plugs and sockets for domestic and similar applications.
Part 1: general requirements.

IEC 60884-1

Plugs and socket-outlets for household and similar purposes.
Part 1: general requirements.

■ QUALITY MARKS



■ VERSIONS



90° angled plugs.



Plugs with straight outlet.



Trailing sockets with straight outlet.

■ TECHNICAL CHARACTERISTICS

Rated current:	16A
Rated voltage:	250V~
Frequency:	50Hz
Insulating voltage:	250V~
Protection degree:	IP20D
Operating ambient temperature according to the reference standard:	-15°C +35°C
Max. operating ambient temperature:	60°C
Cabling capacity of the terminals:	10A: 0,75 - 1,5mm ² 10A: 0,75 - 2,5mm ²
Glow Wire test:	750°C
Material:	Engineering plastic
Colour:	White RAL 9010 Black RAL 9011

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ APPLICATION EXAMPLES



ENCLOSURE FOR WIRING ACCESSORIES



REFERENCE STANDARDS

EN 60670-1

Boxes and enclosures for electrical accessories for household and similar fixed electrical installations.
Part 1: general requirements.

QUALITY MARKS



VERSIONS

	Surface mounting enclosure - IP40
	Surface mounting enclosure - IP55
	Flush mounting enclosure - IP55

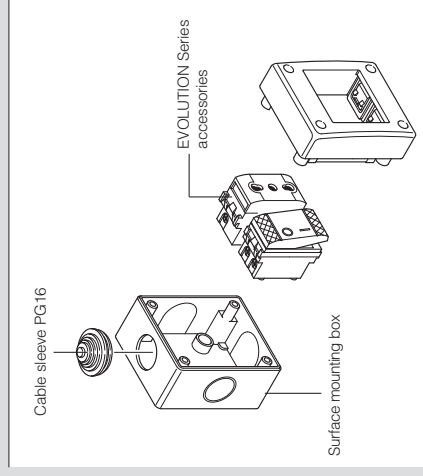
TECHNICAL CHARACTERISTICS

Protection degree:	IP40-IP55
Operating ambient temperature according to the reference standard:	-5°C +35°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
IK degree at 20°C:	IK06
Colour:	Grey RAL 7035 Anthracite RAL 7021 (flush mounting version)

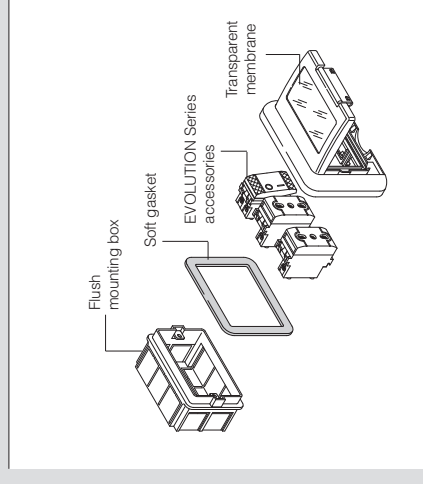
BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

EXAMPLES OF INSTALLATION



Surface mounting enclosure - IP40.



Flush mounting enclosure - IP55.

APPLICATION EXAMPLES



MINI-TRUNKING AND ACCESSORIES



REFERENCE STANDARD

EN 50085-1

Cable trunking systems and cable ducting systems for electrical installations.
Parte 1: general requirements.




EN 50085-2-1

Cable trunking systems and cable ducting systems for electrical installations.
Parte 2-1: cable trunking systems and cable ducting systems intended for mounting on walls and ceiling.

QUALITY MARKS



VERSIONS

	Version with standard lid
	Version with enveloping lid
	Version with self adhesive bottom

TECHNICAL CHARACTERISTICS

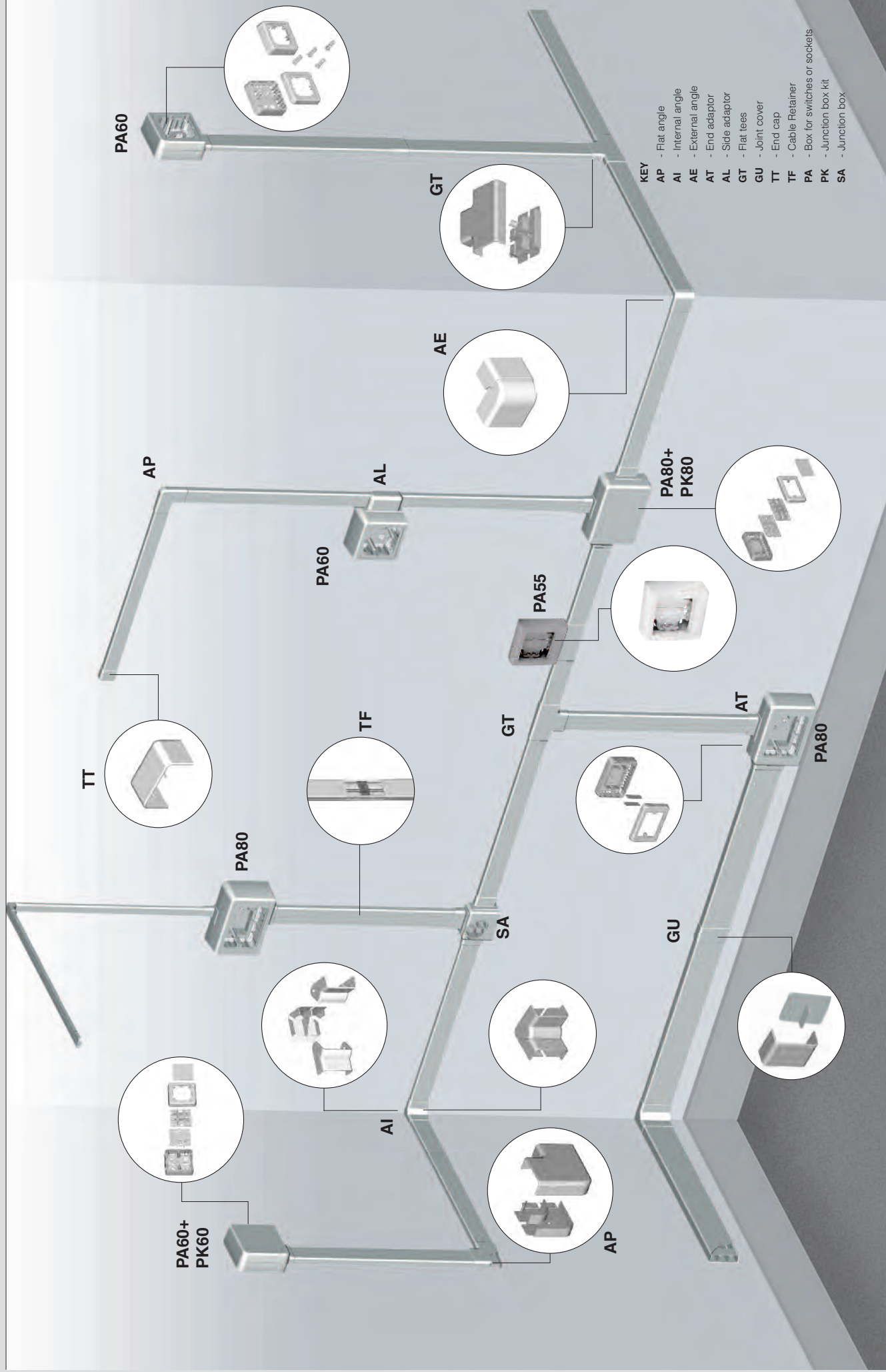
Protection degree:	IP40
Operating ambient temperature according to the reference standard:	+5°C +60°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
Colour:	Grey RAL 7035 White RAL 9003
Impact resistance according to the reference standard:	1 Joule

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant	Resistant

APPLICATION EXAMPLES






- KEY**
- AP - Flat angle
 - AI - Internal angle
 - AE - External angle
 - AT - End adaptor
 - AL - Side adaptor
 - GT - Flat tees
 - GU - Joint cover
 - TT - End cap
 - TF - Cable Retainer
 - PA - Box for switches or sockets
 - PK - Junction box kit
 - SA - Junction box

WADO Series - Minitrunking




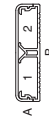
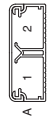

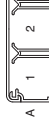
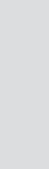
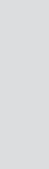
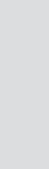
HOW TO CHOOSE THE CORRECT WADO SERIES SCAME MINI-TRUNKING

Note: The maximum allowable number of cables complies with the specifications of IEC 64-8 standards, requiring a capacity factor equal to 50% for the compartments designed to accommodate power cables.


STANDARD LID





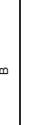




Can be removed: without any tool

	Size w x h (mm)	Number of compartments	A	B	Compartment section (mm ²)	Total section (mm ²)	CAPACITY				
							Maximum allowable number of cables H07V-U/R/K Cable				
							Section (mm ²)				
	20x10	1	10	20	1	129	129	5	4	3	2
	20x15	1	15	20	1	170	170	7	5	4	3
	30x15	1	15	30	1	288	288	12	9	7	5
	40x10	2	10	40	1	126	252	5	3	3	2
	40x15	2	15	40	1	173	346	8	5	4	3
	40x20	2	20	40	2	173	346	8	5	4	3
	40x20	2	20	40	1	259	518	11	8	6	5
	60x20	3	20	60	2	259	518	11	8	6	5
	60x20	3	20	60	1	254	774	11	8	6	5
	60x20	3	254	60	3	254	774	11	8	6	5

ENVELOPING LID



Can be removed: with the aid of a tool

	Size w x h (mm)	Number of compartments	A	B	Compartment section (mm ²)	Total section (mm ²)	CAPACITY				
							Maximum allowable number of cables H07V-U/R/K Cable				
							Section (mm ²)				
	20x15	1	15	20	1	160	160	8	5	4	3
	30x15	1	15	30	1	278	278	13	9	7	5
	40x15	2	15	40	1	168	336	7	5	4	3
	40x20	2	20	40	2	248	496	11	8	6	5
	60x20	2	20	60	2	248	496	11	8	6	5
	60x20	2	20	60	1	242	750	12	8	6	5
	60x20	2	242	60	3	242	750	12	8	6	5

SKIRTING TRUNKING AND ACCESSORIES



REFERENCE STANDARDS

EN 50085-1

Cable trunking systems and cable ducting systems for electrical installations.
Parte 1: general requirements.

EN 50085-2-1

Cable trunking systems and cable ducting systems for electrical installations.
Parte 2-1: cable trunking systems and cable ducting systems intended for mounting on walls and ceiling.

QUALITY MARKS



VERSIONS



80mm skirting trunking



120mm skirting trunking



Floor trunking

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

TRUNKING SECTIONS (mm²)

80-mm skirting trunking	Trunking sections mm ²					
	1	2	3	4	5	
	Trunking sections mm ²	274	300	274		
	1.5mm ²	13	14	13		
	2.5mm ²	9	10	9		
	4mm ²	7	8	7		
	Trunking sections mm ²	327	391	409	391	327
	1.5mm ²	14	18	18	18	14
	2.5mm ²	10	12	12	12	10
	4mm ²	8	9	9	9	8
	Trunking sections mm ²	152	194	152		
	1.5mm ²	7	8	7		
	2.5mm ²	5	5	5		
	4mm ²	4	4	4		

APPLICATION EXAMPLES



SKIRTING TRUNKING AND ACCESSORIES



REFERENCE STANDARDS

EN 50085-1

Cable trunking systems and cable ducting systems for electrical installations.
Parte 1: general requirements.

EN 50085-2-1

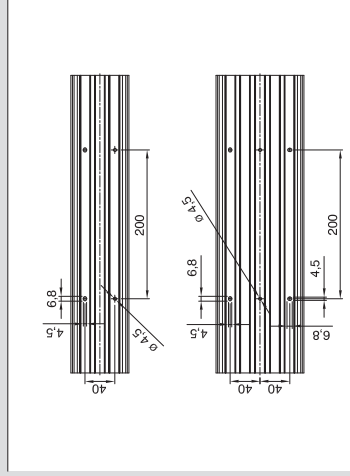
Cable trunking systems and cable ducting systems for electrical installations.
Parte 2-1: cable trunking systems and cable ducting systems intended for mounting on walls and ceiling.

QUALITY MARKS



TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Operating ambient temperature according to the reference standard:	+5°C +60°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
Colour:	Grey RAL 7035 White RAL 9003 Anthracite Brown
Impact resistance according to the reference standard:	1 Joule



The trunking back is provided with \varnothing 4.5-mm holes and 6.8x4.5-mm slots with 40-mm distance between centres and 200-mm pitch.

WADO Series - Skirting trunking

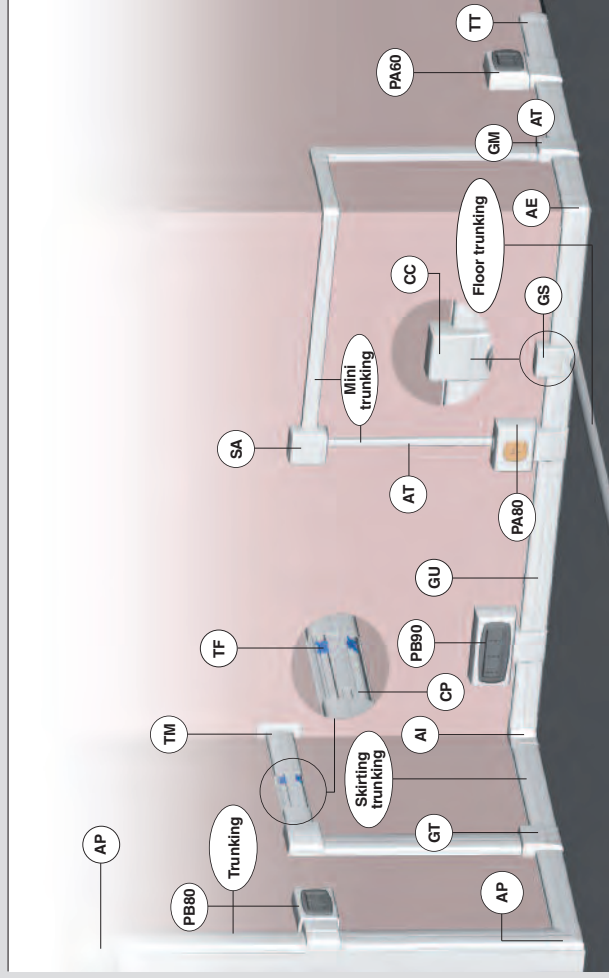
■ SKIRTING, FLOOR TRUNKING AND ACCESSORIES

80MM VERSION

Offering excellent aesthetic and functional integration with skirting version: 120 mm and with mini-trunking by Scame, WADO Series.

KEY

- AP** - Flat angle
- AI** - Variable internal angle
- AE** - Variable external angle
- CC** - Closing cap
- GT** - Flat tees
- GU** - Joint cover
- GM** - Flat tees for mini-trunking
- GT** - Flat tees
- GS** - Floor trunking joint
- TT** - End cap
- TF** - Cable retainer
- TM** - Wall passage terminal
- PA** - Box for switches or sockets
- PB** - Box for switches or sockets
- SA** - Junction box
- AT** - End adaptor (mini-trunking)

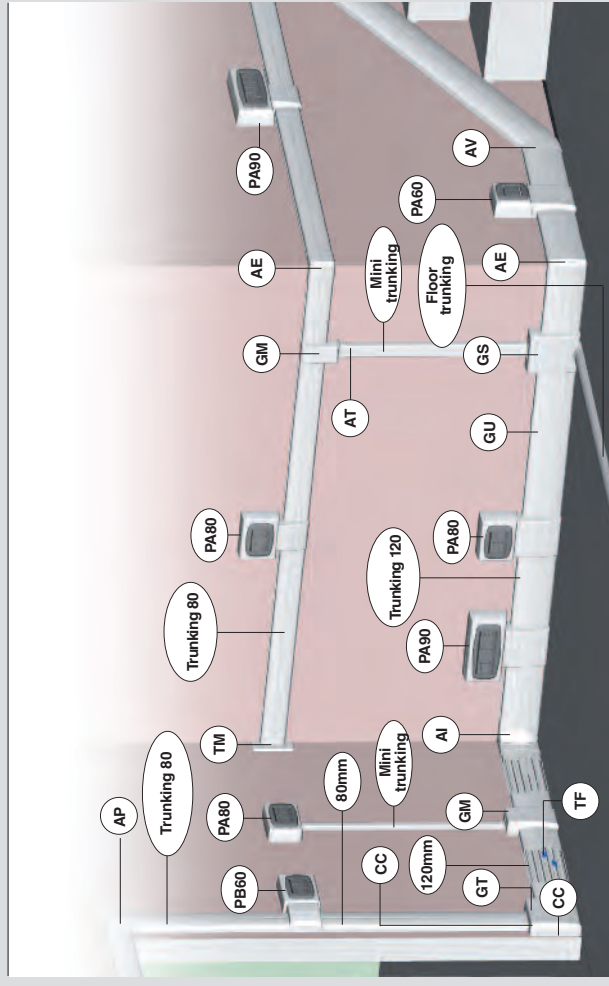


120mm VERSION

Offering excellent aesthetic and functional integration with skirting version: 120 mm and with mini-trunking by Scame, WADO series.

KEY

- AP** - Flat angle
- AI** - Variable internal angle
- AE** - Variable external angle
- CC** - Closing cap
- GT** - Flat tees
- GU** - Joint cover
- GM** - Flat tees for mini-trunking
- GT** - Flat tees
- GS** - Floor trunking joint
- TT** - End cap
- TF** - Cable retainer
- TM** - Wall passage terminal
- PA** - Box for switches or sockets
- PB** - Box for switches or sockets
- AT** - End adaptor (mini-trunking)



■ CABLE AND SET HOUSING TRUNKING



■ REFERENCE STANDARD

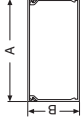
CEI 23-32
Trunking insulating plastic material and related accessories for cable trunking and carrying electrical appliances, for ceiling and wall-mounting.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

■ TRUNKING SECTIONS AND NUMBER OF CABLES TO INSTALL

Type of trunking A B	Trunking geometry SEZ. 1,5mm ² cm ²	Trunking geometry						
		SEZ. 1,5mm ²	SEZ. 2,5mm ²	SEZ. 4mm ²	SEZ. 6mm ²	SEZ. 10mm ²	SEZ. 16mm ²	SEZ. 25mm ²
40 40	14,2	74	51	39	23	16	12	7
60 40	20,4	105	74	56	33	23	17	11
60 60	32	166	115	88	51	35	26	17
80 60	42,4	220	153	117	68	47	35	22
100 60	53,6	279	194	148	86	59	44	28
150 60	79,5	413	287	220	128	88	65	42
100 80	72,8	379	263	201	117	80	60	38
150 80	108,8	566	393	301	175	120	89	57
200 80	149,7	738	526	403	234	161	120	77



■ WORKING GEOMETRIC SECTION OF TRUNKING IN cm² WITH INSTALLED SWITCH HOLDERS

Type of trunking A	Trunking section B	Holder centre distance cm ²	Holder centre distance 83,5cm ²	Jack holder 60cm ²	Socket, holder cm ²	cm ²
80	60	42,6	8	7	0,3	-
100	60	53,6	19	18	11	-
120	60	62,9	28	27	21	-
150	60	79,5	45	44	37	-
100	80	72,8	38	37	31	-
150	80	108,8	74	73	66	27
200	80	149,7	111	110	103	64

■ VERSIONS



Cable trunking



Cable and set housing trunking

■ TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Operating ambient temperature according to the reference standard:	-25°C +60°C
Max. operating ambient temperature:	60°C
Glow Wire test:	960°C
Material:	Engineering plastic
Colour:	White RAL 9016
Impact resistance according to the reference standard:	6 Joule

■ QUALITY MARKS



WADO Series - Slotted cable trunking

■ SLOTTED CABLE TRUNKING



■ VERSIONS



Slotted cable trunking
- standard pitch
- short pitch

■ REFERENCE STANDARDS

EN 50085-1

Cable trunking systems and cable ducting systems for electrical installations.
Part 1: general requirements.

EN 50085-2-3

Cable trunking systems and cable ducting systems for electrical installations.
Part 2-3: particular requirements for slotted cable trunking systems intended for installation in cabinets.

■ QUALITY MARKS



■ TECHNICAL CHARACTERISTICS

Operating ambient temperature according to the reference standard: **-5°C +60°C**

Max. operating ambient temperature: **60°C**

Glow Wire test:

Material: **Engineering plastic**

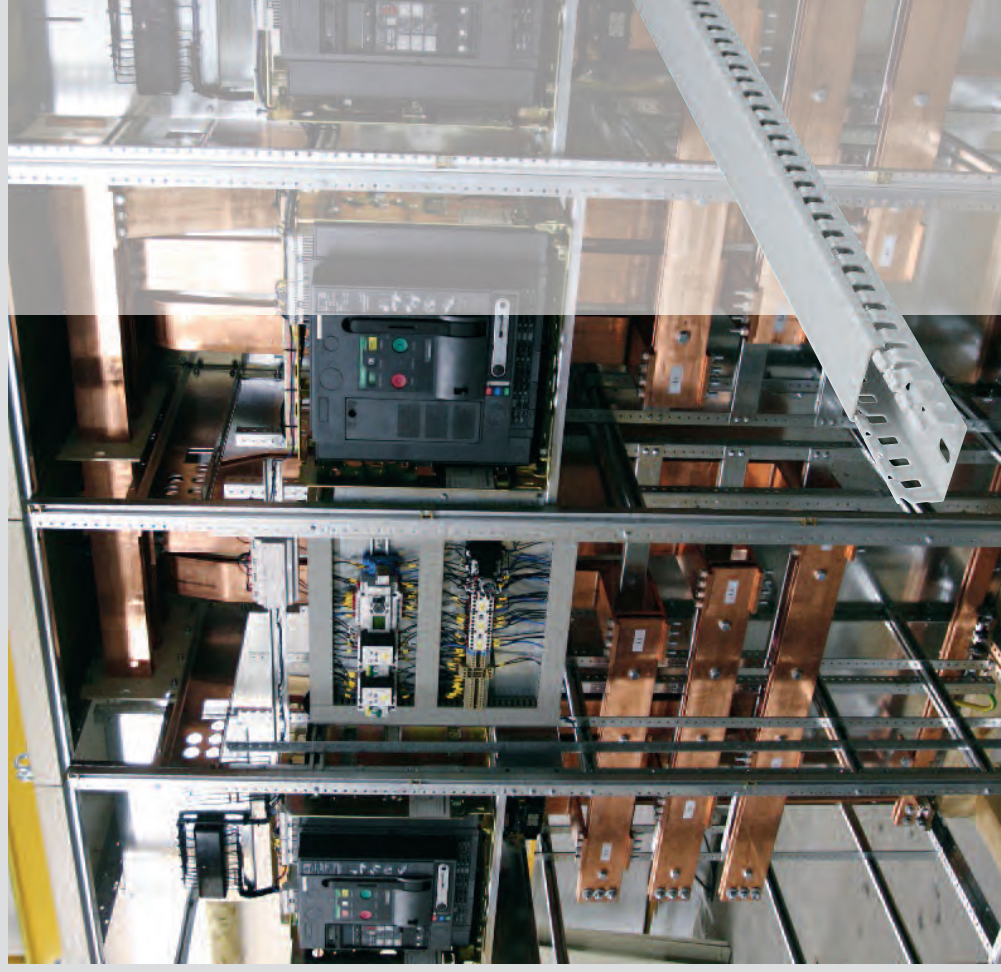
Colour: **Grey RAL 7030**

Impact resistance according to the reference standard: **1 Joule**

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

■ APPLICATION EXAMPLES



WADO Series - Trunking for air conditioning systems

TRUNKING FOR AIR CONDITIONING SYSTEMS



VERSIONS

	Dimension: 60x45mm
	Dimension: 80x60mm
	Dimension: 110x75mm

TECHNICAL CHARACTERISTICS

Operating ambient temperature according to the reference standard: **-25°C +60°C**

Material:	Engineering plastic
Colour:	White RAL 9001

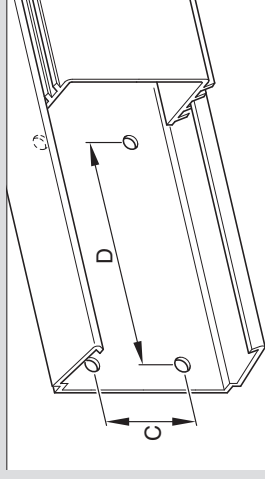
TECHNICAL CHARACTERISTICS OF THE MATERIAL

Resistance to tensile stress:	40N/mm ²
Resistance to breaking:	38N/mm ²
Elongation to pulling stress:	109%
Elastic module:	2810N/mm ²
Resistance to impacts 23°C c.i.:	745/m
Vic at softening temperature 50N (thermal increment 50°C/h):	81°C
Inflammability on 1,36 mm thickness (flame is not propagated):	UL 94 V-0

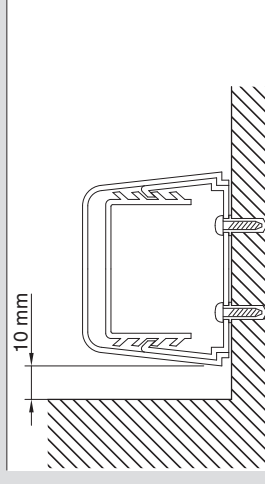
BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant	Resistant

FIXING HOLES



METHOD OF INSTALLATION



Code	C	D
871.060	35	200
871.080	50	200
871.110	80	200

The trunking base is pre-drilled at 600mm centres for wall fixing. The bracket has to be installed just on blocks. The bend and wall passage are ready for fixing by blocks.

APPLICATION EXAMPLES



FLUSH MOUNTING BOXES



REFERENCE STANDARDS

EN 60670-1

Boxes and enclosure for electrical accessories for household and similar fixed electrical installation.
Part 1: general requirements.

QUALITY MARKS



VERSIONS



Round flush mounting box



Rectangular flush mounting box



Flush junction box

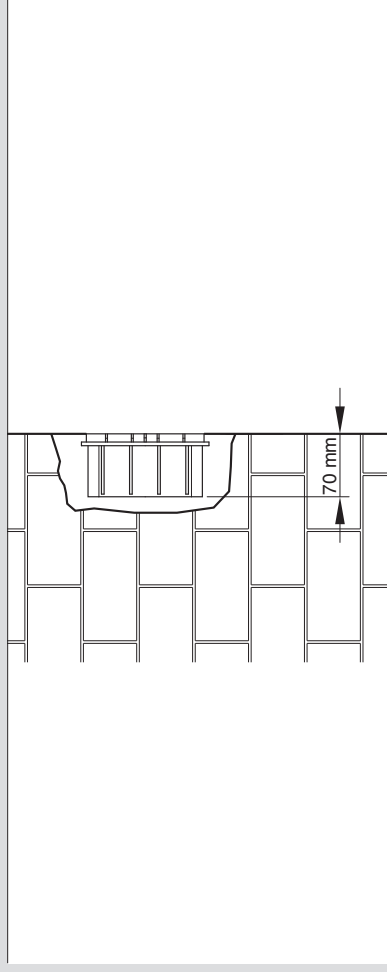
TECHNICAL CHARACTERISTICS

Protection degree:	IP40
Operating ambient temperature according to the reference standard:	-25°C +60°C
Max. operating ambient temperature:	60°C
Glow Wire test:	650°C
Material:	Engineering plastic
Halogen free:	Yes
DIN rail fixing:	Yes
IK degree at 20°C:	IK04 - IK07 (cover)

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

FLUSH MOUNTING INSTALLATION



APPLICATION EXAMPLES



INDUSTRIAL PLUGS AND SOCKETS



REFERENCE STANDARDS

EN 60309-1

Plugs, socket-outlets and couples for industrial purposes.
Part 1: general requirements.


EN 60309-2

Plugs, socket-outlets and couples for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories.

QUALITY MARKS



VERSIONS

Plugs	
Connectors	

TECHNICAL CHARACTERISTICS

Rated current:	16A-32A
Rated voltage:	110-130V 200-250V 380-415V
Frequency:	50/60Hz
Insulation voltage:	500V
Protection degree:	IP44
Operating ambient temperature according to the reference standard:	-25°C +40°C
Glow wire test:	850°C contacts carrier 650°C handle
IK degree:	IK08
Material:	Engineering plastic

WIRING AND INSTALLATION

Wiring capacity of the terminals
Cross-section of connectable conductors (mm²)

Rated voltage	Rated current (A)	Plugs and connectors		Sockets outlet	
		Min	Max	Min	Max
>50V	16A	1,5	2,5	1,5	4
	32A	2,5	6	2,5	10

Max. cable size accepted by the cable clamp

Rated current (A)	Outside Ø mm	
	Min	Max
16A	8	15
32A	11,5	21

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases			Solvents			Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

APPLICATION EXAMPLES







**GENERAL
CATALOGUE
2016-2018**

index by
product number



Index by product number

www.scame.com

For more informations, visit our website.
































The screenshot shows the SCAME website interface. At the top, there is a navigation bar with links for Home, Company, Distribution, Products, INFOPORT, IN/TECH, and Documentazione. The SCAME logo is prominently displayed. Below the navigation, a breadcrumb trail indicates the product's location: Catalogue: General Catalogue > Industry > Interlocked switch sockets outlets > OMNIA Series > Rated voltage > 50V > With fuse carrier > Surface mounting IP44/IP47 > 506.1686. The main content area features a product image of the 'INTERLOCKED SOCKET 3P+E IP67 16A 6H' and a table of technical specifications. The specifications table includes fields for Minimum order, Net Weight, EAN code, INTRASTAT code, Commercial series, Rated current, Poles, Hour position, Rated voltage, Working frequency, Working frequency, Colour, Syntactical description, Protection degree, and Notes. A sidebar on the left provides a detailed product tree, and a right sidebar lists applicable standards and laws, including EN 60309-1 and EN 60309-2.

Master data		TechData	
Minimum order:	1NR	Commercial series:	OMNIA Series
Net Weight:	0.865KG	Rated current:	16A
EAN code:	800163611483	Poles:	3P+E
INTRASTAT code:	85366990	Hour position:	6h
		Rated voltage:	380-415V
		Working frequency:	50Hz
		Working frequency:	60Hz
		Colour:	RED
		Syntactical description:	INTERLOCKED SOCKET
		Protection degree:	IP66/IP67
		Notes:	CON BASE PORTAFUSIBILI





Standard and approvals:

		IMQ - Istituto Italiano del Marchio di qualità
		CSV/IMQ - Certificato con sorveglianza
		AEE - Marca de conformidad a normas UNE
		DEMKO - Danmarks Elektriske Materiel Kontrol
		BSI - British Standard Institution
		VDE - Verband Deutscher Elektrotechniker
		ÖVE - Österreichischer Verband für Elektrotechnik
		FIMKO - Sähkötekniikan tutkimuskeskus / Elinspektion
		NEMKO - Norges Elektriske Materielkontroll
		SEMKO - Svenska Elektriska Materielkontrollanstalten
		CEBEC - Comité Electrotechnique Belge
		UTE - Union Technique de l'Electricité
		KEMA-KEUR - N.V. Tot Keuring Van Electrotechnische Materialen
		SEV - Schweizerischer Elektrotechnischer Verein
		SAA - Standard Association of Australia
		MEEI - Magyar elektrotechnikai ellenőrző intézet
		IRAM - Instituto Argentino de Normalizacion
		UL CLASSIFIED (USA)
		UL LISTED cUL
		
		GOST - Gosudarstvenne komitet Sandardtov



Index by product number

101		
Cat.numb.	Pack qty.	Page
● 101.6200	100	633
● + 101.6200.11	100	633
● + 101.6200.12	100	633
● + 101.6200.24	100	633
● 101.6201.G	100/800	626
● + 101.6203.G	100	626
● + 101.6301K.G	6/240	626
● + 101.6302.20G	12/480	626
● + 101.6302.G	12/480	626
● + 101.6303.20G	12/480	626
● 101.6303.G	12/480	626
● + 101.6304.20G	12/480	626
● + 101.6304.G	12/480	626
● 101.6311.G	12/480	626
● 101.6323.G	12/480	627
● + 101.63312.G	12/480	627
● + 101.6331T.G	6/240	627
● + 101.6332.G	12/480	627
● 101.6333.G	12/480	627
● + 101.6334.G	12/480	627
● + 101.6340.06G	12/480	627
● + 101.6340.10G	12/480	627
● + 101.6340.G	12/480	627
● + 101.6341.06G	6/240	628
● + 101.6341.10G	6/240	628
● + 101.6341.G	6/240	628
● + 101.6345.G	12/480	628
● + 101.6401.G	12/480	629
● + 101.6402.G	12/480	629
● 101.6403.G	12/480	629
● 101.6403.GD	6	630
● 101.6403.R	12/480	629
● + 101.6404.G	6/240	629
● + 101.6404.R	6/240	629
● 101.6405.G	6/240	629
● 101.6405.GD	6	630
● 101.6405.R	6/240	629
● 101.6407.G	6/240	629
● 101.6407.GD	6	630
● 101.6407.R	6/240	629
● 101.6411.G	6/240	629
● ✓ 101.6411.GD	6	630
● 101.6412.G	6/240	629
● 101.6412.R	6/240	629
● + 101.6413.G	6/240	629
● ✓ 101.6413.GD	6	630
● ✓ 101.6414.G	6/240	629
● 101.6417.G	12/480	629
● ✓ 101.6417.GD	6	630
● ✓ 101.6421.G	12/480	630
● ✓ 101.6421.R	12/480	630
● + 101.6423.G	12/480	630
● ✓ 101.6424.G	6/240	630
● ✓ 101.6424.GD	6	630
● ✓ 101.6425.G	12/480	630
● ✓ 101.6426.G	6/240	630
● ✓ 101.6427.G	6/240	630
● 101.6428.G	6/240	630
● ✓ 101.6428.GD	6	630
● ✓ 101.6429.G	6/240	630
● + 101.6431.01G	12/480	631
● + 101.6431.10	12/480	631

101		
Cat.numb.	Pack qty.	Page
● + 101.6431.10G	12/480	631
● + 101.6431.G	12/480	631
● + 101.6432.01G	12/480	631
● + 101.6432.10G	12/480	631
● + 101.6432.G	12/480	631
● + 101.6433.G	12/480	631
● + 101.6434.G	6/240	631
● + 101.6461.64G	12/480	632
● + 101.6462.64G	12/480	632
● + 101.6464.G	12/480	632
● + 101.6466.G	12/480	0
● + 101.6481.50G	6/240	630
● 101.6481.50GD	6	630
● + 101.6481.51G	6/240	632
● 101.6481.60G	6/240	632
● 101.6481.61G	6/240	632
● + 101.6541.1G	12/480	632
● + 101.6541.2G	12/480	632
● 101.6541.2GD	6	630
● + 101.6541.3G	12/480	632
● + 101.6542.G	12/480	632

104		
Cat.numb.	Pack qty.	Page
● 104.4000	50/500	540
● 104.4000/N	50/500	540
● 104.4001	50/500	540
● 104.4001/N	50/500	540
● 104.4003	50/500	540
● 104.4003/N	50/500	540
● 104.4010	50/500	540
● 104.4010/N	50/500	540
● 104.4011	50/500	540
● 104.4011/N	50/500	540
● 104.4013	50/500	540
● 104.4013/N	50/500	540
● 104.4068	100	540
● 104.4068/N	100	540
● 104.4070	100	540
● 104.4070/N	100	540

106		
Cat.numb.	Pack qty.	Page
● 106.3000	50/500	541
● 106.3000/N	50/500	541
● 106.3001	50/500	541
● 106.3001/N	50/500	541
● 106.3003	50/500	541
● 106.3003/N	50/500	541
● 106.3010	50/500	541
● 106.3010/N	50/500	541
● 106.3011	50/500	541
● 106.3011/N	50/500	541
● 106.3013	50/500	541
● 106.3013/N	50/500	541

110		
Cat.numb.	Pack qty.	Page
● ✓ 110.3000	20/400	542
● ✓ 110.3010	20/400	542
● ✓ 110.3100	10/150	542
● ✓ 110.3150	10/150	542
● ✓ 110.3160	10/150	542

116		
Cat.numb.	Pack qty.	Page
● 116.68	100	541
● 116.68/N	100	541
● 116.70	100	541
● 116.70/N	100	541

130		
Cat.numb.	Pack qty.	Page
● 130.2063	50/500	543
● 130.2063/N	50/500	543
● 130.2083	25/250	543
● 130.2083/N	25/250	543
● 130.2084	25/250	543
● 130.2084/N	25/250	543
● 130.2085	25/250	543
● 130.2085/N	25/250	543
● 130.83	50/500	543
● 130.83/N	50/500	543

136		
Cat.numb.	Pack qty.	Page
● + 136.001	10	625
● 136.0901	10/100	0
● 136.0902	10/100	0
● 136.0911	10/100	0
● 136.0912	10/100	0
● 136.4121	5/100	618
● 136.4122	5/100	618
● 136.4123	3/60	618
● ✓ 136.4123-411	50	619
● 136.4123-412	50	619
● ✓ 136.4123-413	50	619
● ✓ 136.4123-414	50	619
● 136.4124	1/24	618
● 136.4126	1/16	618
● 136.5023	85	622
● 136.5023.AT	85	622
● 136.5121	5/80	618
● 136.5121-302	32/128	619
● 136.5121-303	32/128	619
● 136.5121-304	32/128	619
● 136.5121-323	32/128	619
● 136.5121-333	32/128	619
● ✓ 136.5121-417	32/128	619
● 136.5122	5/80	618
● 136.5122-303	32/128	620
● 136.5122-323	32/128	620
● + 136.5122-407	32/128	620
● + 136.5122-411	32/128	620

136		
Cat.numb.	Pack qty.	Page
● 136.5122-412	32/128	620
● 136.5122-413	32/128	620
● 136.5122-414	32/128	620
● + 136.5122-427	32/128	620
● ✓ 136.5122-429	32/128	620
● 136.5123	3/60	618
● 136.5123-303	24/96	620
● 136.5123-323	24/96	620
● + 136.5123-407	24/96	620
● + 136.5123-411	24/96	620
● 136.5123-412	24/96	620
● 136.5123-413	24/96	620
● ✓ 136.5123-414	24/96	620
● ✓ 136.5123-429	24/96	620
● 136.5124	1/24	618
● ✓ 136.5124-303	1/24	621
● ✓ 136.5124-323	1/24	621
● + 136.5124-407	24	621
● ✓ 136.5124-411	1/24	621
● 136.5124-412	1/24	621
● ✓ 136.5124-413	1/24	621
● 136.5126	1/16	618
● ✓ 136.5126-303	1/16	621
● ✓ 136.5126-323	1/16	621
● + 136.5126-407	16	621
● ✓ 136.5126-411	1/16	621
● 136.5126-412	1/16	621
● ✓ 136.5126-413	1/16	621
● ✓ 136.6122	5/100	0
● ✓ 136.6123	3/60	0
● ✓ 136.6124	24	0
● ✓ 136.7023	85	0
● ✓ 136.7122	5/80	0
● ✓ 136.7123	3/60	0
● ✓ 136.7124	24	0

137		
Cat.numb.	Pack qty.	Page
● + 137.001	1/12	617
● + 137.002	1/12	617
● + 137.101	1/12	609
● + 137.102	1/12	609
● + 137.103	1/12	609
● + 137.104	1/12	609
● + 137.121	1/12	613
● + 137.122	1/12	613
● + 137.123	1/12	613
● + 137.124	1/12	613
● 137.125	12/120	614
● 137.131	1/12	615
● 137.141	1/12	615
● 137.151	1/12	616
● + 137.200	10/100	617
● + 137.201	10/100	617
● + 137.202	10/100	617
● + 137.3011	1/12	609
● + 137.3012	1/12	609
● + 137.3021	1/12	609
● + 137.3022	1/12	609
● 137.3111	1/12	609

137		
Cat.numb.	Pack qty.	Page
● 137.3112	1/2	609
● + 137.3211	1/2	609
● + 137.3212	1/2	609
● + 137.3221	1/2	609
● + 137.3222	1/2	609
● + 137.3311B	1/2	609
● + 137.3311P	1/2	609
● 137.3312P	1/2	609
● 137.3321	1/2	609
✓ 137.3410	1/2	610
● + 137.3462	1/2	609
● + 137.4001	1/2	612
● + 137.4002	1/2	612
● + 137.4003	1/2	612
● + 137.4022	1/2	612
● + 137.4042	1/2	612
● 137.4043	1/2	612
● + 137.4111	1/2	612
● + 137.4403	1/2	611
● + 137.4404	1/2	611
● + 137.4407	1/2	611
● + 137.4411	1/2	611
● + 137.4412	1/2	611
● 137.4417	1/2	611
● 137.4421	1/2	611
● + 137.4424	1/2	611
● + 137.4427	1/2	611
● + 137.4481.50	1/2	611
● + 137.5011	1/2	606
● + 137.5012	1/2	606
● + 137.5021	1/2	606
● + 137.5022	1/2	606
● 137.5111	1/2	606
● 137.5112	1/2	606
● + 137.5211	1/2	606
● + 137.5212	1/2	606
● + 137.5221	1/2	606
● + 137.5222	1/2	606
● + 137.5311B	1/2	606
● + 137.5311P	1/2	606
● 137.5312P	1/2	606
● 137.5321	1/2	606
✓ 137.5410	1/2	606
● + 137.5462	1/2	606
● + 137.6001	1/2	608
● + 137.6002	1/2	608
● + 137.6003	1/2	608
● + 137.6022	1/2	608
● + 137.6042	1/2	608
● 137.6043	1/2	608
● + 137.6111	1/2	608
● + 137.6403	1/2	607
● + 137.6404	1/2	607
● + 137.6407	1/2	607
● + 137.6411	1/2	607
● + 137.6412	1/2	607
● 137.6417	1/2	607
● 137.6421	1/2	607
● + 137.6424	1/2	607
● + 137.6427	1/2	607
● + 137.6481.50	1/2	607

144		
Cat.numb.	Pack qty.	Page
● 144.441	50	546
● 144.441/N	50	546
● 144.450	25/250	546
● 144.450/N	25/250	546
● 144.451	50	546
● 144.451/N	50	546
● 144.455	50	546
● 144.455/N	50	546
● 144.457	25	547
● 144.457/N	25	547
● 144.459	25	547
● 144.459/N	25	547
● ✓ 144.470	25	547
● ✓ 144.470/N	25	547

146		
Cat.numb.	Pack qty.	Page
● 146.351	50/500	549
● + 146.351/N	50/500	549
● 146.360	12/48	553
● 146.361	50	549
● 146.361/N	50	549
● + 146.500	25/250	552
● + 146.501	25/250	552
● 146.510	10	552
● 146.510/N	10	552
● 146.511	10	552
● 146.511/N	10	552
● 146.530	25/250	551
● + 146.530/N	25/250	551
● 146.534	25/250	551
● + 146.534/N	25/250	551
● 146.550/3	25/250	550
● 146.550/3-N	25/250	550
● 146.555/3	50	550
● 146.555/3-N	50	550
● 146.557	25	550
● 146.557/N	25	550
● 146.559	25	550
● 146.559/N	25	550
● 146.560	25	551
● 146.560/N	25	551
● 146.561	25	551
● 146.561/N	25	551
● ✓ 146.570	25	550
● ✓ 146.570/N	25	550
● 146.641	50	548
● 146.641/N	50	548
● 146.651	50	548
● 146.651/N	50	548
● 146.661	50	548
● 146.661/N	50	548

160		
Cat.numb.	Pack qty.	Page
● 160.001	10/100	566
● + 160.219	10/100	565
● 160.219/C	10	563

160		
Cat.numb.	Pack qty.	Page
● + 160.219/C-F	10	563
● 160.219/C-N	10	563
● + 160.219/C-T	10	563
● + 160.219/F	10/100	565
● + 160.219/N	10/100	565
● + 160.219/T	10/100	565
● 160.220	10/100	565
● 160.220/C	10	563
● + 160.220/C-F	10	563
● 160.220/C-N	10	563
● + 160.220/C-T	10	563
● + 160.220/F	10/100	565
● 160.220/N	10/100	565
● + 160.220/T	10/100	565
● 160.223	10/100	565
● 160.223/C	10	563
● + 160.223/C-F	10	563
● 160.223/C-N	10	563
● + 160.223/C-T	10	563
● + 160.223/F	10/100	565
● 160.223/N	10/100	565
● + 160.223/T	10/100	565
● 160.224	10/120	565
● 160.224/C	10	563
● + 160.224/C-F	10	563
● 160.224/C-N	10	563
● + 160.224/C-T	10	563
● + 160.224/F	10/120	565
● 160.224/N	10/120	565
● + 160.224/T	10/120	565
● 160.225	10/120	565
● 160.225/C	10	563
● + 160.225/C-F	10	563
● 160.225/C-N	10	563
● + 160.225/C-T	10	563
● + 160.225/F	10/120	565
● 160.225/N	10/120	565
● + 160.225/T	10/120	565
● 160.229	10/100	562
● 160.229/C	10	561
● 160.229/C-F	10	561
● 160.229/C-N	10	561
● 160.229/C-T	10	561
● + 160.229/F	10/100	562
● + 160.229/N	10/100	562
● + 160.229/T	10/100	562
● 160.230	10/40	562
● 160.230/C	10	561
● 160.230/C-F	10	561
● 160.230/C-N	10	561
● 160.230/C-T	10	561
● 160.230/D	10	561
● + 160.230/D-N	10	561
● 160.230/F	10/40	562
● 160.230/N	10/40	562
● 160.230/T	10/40	562
● 160.231	10/40	565
● 160.231/C	10	563
● + 160.231/C-F	10	563
● 160.231/C-N	10	563
● + 160.231/C-T	10	563
● + 160.231/F	10/40	565

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Cat.numb.	Pack qty.	Page
● 160.231/N	10/40	565
● + 160.231/T	10/40	565
● 160.232/C	10	560
● + 160.232/C-F	10	560
● 160.232/C-T	10	560
● 160.233/C	10	560
● + 160.233/C-F	10	560
● + 160.233/C-T	10	560
● + 160.233/D	10	560
● + 160.237/C	10	560
● + 160.237/C-F	10	560
● + 160.237/C-T	10	560
● + 160.238	10/50	565
● + 160.238/C	10	563
● + 160.238/C-F	10	563
● + 160.238/C-N	10	563
● + 160.238/C-T	10	563
● + 160.238/D	10	564
● + 160.238/D-F	10	564
● + 160.238/D-N	10	564
● + 160.238/D-T	10	564
● + 160.238/F	10/50	565
● 160.238/N	10/50	565
● + 160.238/T	10/50	565
● + 160.239	10/50	562
● 160.239/C	10	561
● + 160.239/C-F	10	561
● + 160.239/C-N	10	561
● + 160.239/C-T	10	561
● + 160.239/D	10	561
● + 160.239/D-F	10	561
● + 160.239/D-N	10	561
● + 160.239/D-T	10	561
● + 160.239/F	10/50	562
● + 160.239/N	10/50	562
● + 160.239/T	10/50	562
● + 160.240/C	10	560
● + 160.240/C-F	10	560
● + 160.240/C-T	10	560
● + 160.240/D	10	560
● + 160.240/D-F	10	560
● + 160.240/D-T	10	560
● 160.241	10/50	565
● 160.241/C	10	564
● + 160.241/C-F	10	564
● + 160.241/C-N	10	564
● + 160.241/C-T	10	564
● + 160.241/F	10/50	565
● + 160.241/N	10/50	565
● + 160.241/T	10/50	565
● + 160.242	10/50	562
● + 160.242/C	10	561
● + 160.242/C-F	10	561
● + 160.242/C-N	10	561
● + 160.242/C-T	10	561
● + 160.242/F	10/50	562
● + 160.242/N	10/50	562
● + 160.242/T	10/50	562
● + 160.243/D	10	560
● + 160.243/D-F	10	560
● + 160.243/D-T	10	560
● + 160.247	10/50	565

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● + 160.247/C	10	564
● + 160.247/C-F	10	564
● + 160.247/C-N	10	564
● + 160.247/C-T	10	564
● + 160.247/F	10/50	565
● + 160.247/N	10/50	565
● + 160.247/T	10/50	565
● + 160.248	10/50	562
● + 160.248/C	10	561
● + 160.248/C-F	10	561
● + 160.248/C-N	10	561
● + 160.248/C-T	10	561
● + 160.248/F	10/50	562
● + 160.248/N	10/50	562
● + 160.248/T	10/50	562
● + 160.249/C	10	560
● + 160.249/C-F	10	560
● + 160.249/C-T	10	560
● 160.250/C	10	561
● 160.250/C-N	10	561
● 160.5013	6/24	566
● 160.5014	6/24	566

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● + 161.246/C-F	10	567
● + 161.246/C-T	10	567
● 161.40500.F	10	570
● 161.40500.N	10	570
● 161.40500.R	10	570
● 161.40500.T	10	570
● 161.40501.F	10	568
● 161.40501.N	10	568
● 161.40501.R	10	568
● 161.40501.T	10	568
● 161.40510.F	10	569
● 161.40510.N	10	569
● 161.40510.R	10	569
● 161.40510.T	10	569
● 161.40511.F	10	567
● 161.40511.N	10	567
● 161.40511.R	10	567
● 161.40511.T	10	567
● ✓ 161.60500.N	10	570
● ✓ 161.60500.R	10	570
● ✓ 161.60501.N	10	568
● ✓ 161.60501.R	10	568
● ✓ 161.60510.N	10	569
● ✓ 161.60510.R	10	569
● ✓ 161.60511.N	10	567
● ✓ 161.60511.R	10	567

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Cat.numb.	Pack qty.	Page
● 165.10401.N	10	556
● 165.10401.R	10	556
● 165.20401.N	10	556
● 165.20401.R	10	556

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Cat.numb.	Pack qty.	Page
● 165.20411.N	10	556
● 165.20411.R	10	556
● 165.20421.T	10	558
● 165.20431.N	10	559
● 165.20431.ND	10	559
● 165.20431.R	10	559
● 165.20431.RD	10	559
● ✓ 165.20441.N	10	557
● ✓ 165.20441.R	10	557
● 165.30401.N	10	556
● 165.30401.R	10	556
● 165.30411.N	10	556
● 165.30411.R	10	556
● 165.30421.T	10	558
● 165.40411.N	10	556
● 165.40411.R	10	556

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● 168.0072B-03	10	571
● 168.0072N-03	10	571
● 168.0073B-03	10	571
● 168.0073B-05	10	571
● + 168.0073N-03	10	571
● 168.0073N-05	10	571
● + 168.4272B-03	10	571
● + 168.4272N-03	10	571
● + 168.4273B-03	10	571
● + 168.4273B-05	10	571
● + 168.4273N-03	10	571
● + 168.4273N-05	10	571

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180.4520	10/100	600
180.4521	100/1600	600
180.4700	10/100	600
180.4701	100/1600	600
180.5510	50	599
180.5511	50	599
180.5520	50	599
180.5521	50	599
180.561	50/500	601
180.563	10/50	601
180.5640	10/100	600
180.5641	10/100	600
180.58/CEI	200/2000	601
✓ 180.5902	60	602
✓ 180.5902/N	60	602
✓ 180.5912	60	602
✓ 180.5913	50	602
✓ 180.5915	35	602
180.60/CEI	200/2000	601
180.60/CEI-P	200/2000	601
180.60/CEI-S	200/2000	601
● 180.690	12/72	594
● 180.691	12/72	594
● 180.692	12/72	357

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180.701	12/60	592
180.702	12/60	592
180.705	12/60	592
180.706	12/60	592
180.723	12/60	594
180.724	12/60	594
180.725	12/60	594
180.726	12/60	594
● + 180.727	12/60	594
180.728	12/60	594
180.729	12/60	594
180.741	12/60	594
180.742	12/60	594
180.743	12/60	594
180.744	12/60	594
180.745	12/60	594
180.746	12/60	594
180.790	100/1000	592
180.791	100/1000	592
180.792	100/1000	592
180.793	100/1000	592
180.794	12/60	593
180.795	12/60	593
✓ 180.7951	60	593
180.796	12/60	593
180.797	1/10	593
180.7971	10	593
180.798	10	593
180.799	12/60	593
180.800	100/1000	596
180.810	100/1000	596
180.811	100/1000	596
180.812	100/1000	596
180.813	100/1000	596
180.814	100/1000	596
180.815	100/1000	596
180.820	25/100	597
180.821	25/100	597
180.822	25/100	597
180.823	25/100	597
180.830	10/100	596
● + 180.831	10/100	596
● + 180.832	10/100	596
● + 180.833	10/100	596
180.840	50/1000	597
● + 180.841	12/60	597
180.842	12/60	597
● + 180.843	12/60	597
180.844	12/60	597
● + 180.846	12/60	597
180.850	12/60	598
● + 180.851	12/60	598
180.852	12/60	598
180.853	12/60	598
180.854	12/60	598
180.855	12/60	598
180.856	12/60	598
180.857	12/60	598
180.910	100/1000	595
● + 180.911	100/1000	595
180.920	100/800	595
180.921	100/800	595

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Cat.numb.	Pack qty.	Page
180.930	100/1000	595
180.931	100/1000	595
180.940	100/1000	595
180.950	100/500	598
180.960	100/500	598
● + 180.970	100/1000	595

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Cat.numb.	Pack qty.	Page
● 190.100	1/10	585
● 190.147B	50/500	583
● 190.2000FCG	100/600	582
● 190.2000FCGB	100/600	582
● 190.2000FCN	100/600	582
● 190.2000FCNB	100/600	582
● 190.2000FG	100/600	582
● 190.2000FGB	100/600	582
● + 190.2000FGO	100/600	582
● 190.2000FN	100/600	582
● 190.2000FNB	100/600	582
● 190.2000LG	100/600	581
● 190.2000LGB	100/600	581
● 190.2000LN	100/600	581
● 190.2000LNB	100/600	581
● + 190.2000LT	100/600	581
● + 190.2000LTB	100/600	581
● 190.31	50/500	583
● 190.31B	50/500	583
● + 190.31Z	50/500	583
● + 190.3570ES	50/500	580
● 190.3570S	50/500	580
● 190.3585ES	50/500	580
● 190.3585S	50/500	580
● + 190.363B	50/500	589
● + 190.363N	50/500	589
190.366B	50	589
190.366N	50	589
190.376B	50/250	589
190.376N	50/250	589
● + 190.378	500	589
● + 190.5501/15TB	100	585
● 190.5740B1	10	584
● + 190.5778/304T	20/200	583
● + 190.5778/306L	20/200	583
● 190.5778/311T	20/200	583
● 190.5778/313T	20/200	583
● + 190.5778/348	20/200	583
● + 190.5778B	20/200	583
● 190.6000FCG	50/300	582
● 190.6000FCGB	50/300	582
● 190.6000FCN	50/300	582
● + 190.6000FCNB	50/300	582
● + 190.6000FCT	50/300	582
● + 190.6000FCTB	50/300	582
● 190.6000FG	50/300	582
● 190.6000FGB	50/300	582
● + 190.6000FGO	50/300	582
● 190.6000FN	50/300	582
● 190.6000FNB	50/300	582
● + 190.6000FT	50/300	582

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Cat.num.	Pack qty.	Page
● + 190.6000FTB	50/300	582
● 190.6000LG	50/300	581
● 190.6000LGB	50/300	581
● 190.6000LN	50/300	581
● 190.6000LNB	50/300	581
● + 190.6000LT	50/300	581
● + 190.6000LTB	50/300	581
● 190.71	50/500	583
● 190.71B	50/500	583
● + 190.7350Z	50/300	582
● 190.73B	50/500	583
● 190.73N	50/500	583
● + 190.73Z	50/500	583
● 190.74B	50/500	583
● 190.74N	50/500	583
● 190.81	50/500	584
● 190.8200	50/300	584
● 190.8200T	50/300	584
● 190.CP70A	50/300	580
● 190.CP70B	50/300	580
● 190.CP85A	50/300	580
● 190.CP85B	50/300	580

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● 191.5031	100/1000	585
● 191.5122	20/200	586
● 191.5124	50/500	586

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Cat.num.	Pack qty.	Page
● 195.115B	100/1000	587
● + 195.135B	3000	587
● 195.200B	20/200	587
● 195.450B	20/200	588
● 195.450N	20/200	588
● 195.450P	20/200	588
● 195.565B	20/160	588
● 195.565N	20/160	588
● 195.565P	20/160	588

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Cat.num.	Pack qty.	Page
● 213.1630	10/50	22
● + 213.1630.TR	10/50	25
● 213.1630P	10/50	23
● + 213.1630P.TR	10/50	25
● 213.1631	10/50	22
● 213.1632	10/50	22
● 213.1633	10/50	22
● 213.1633.K	10/50	162
● 213.1633.TR	10/50	25
● 213.16332	10/50	22
● 213.16333	10/50	22
● 213.16334	10/50	22
● 213.16336	10/50	22

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Cat.num.	Pack qty.	Page
● 213.16338	10/50	22
● 213.1633P	10/50	23
● 213.1633P.K	10/50	162
● 213.1633P.TR	10/50	25
● + 213.1634	10/50	22
● 213.1634P	10/50	23
● 213.1635	10/50	22
● + 213.1635.K	10/50	162
● 213.1636	10/50	22
● + 213.1636.K	10/50	162
● 213.16361	10/50	22
● 213.16362	10/50	22
● 213.16364	10/50	22
● 213.16365	10/50	22
● 213.16366	10/50	22
● 213.16367	10/50	22
● 213.1636P	10/50	23
● + 213.1636P.K	10/50	162
● + 213.1636P.TR	10/50	25
● 213.1636RV	10/50	26
● 213.1637	10/50	22
● + 213.1637-7	10	200
● 213.1637.K	10/50	162
● 213.16372	10/50	22
● 213.16374	10/50	22
● 213.16375	10/50	22
● 213.16376	10/50	22
● 213.16377	10/50	22
● 213.1637P	10/50	23
● + 213.1637P.K	10/50	162
● + 213.1637P.TR	10/50	25
● 213.1637RV	10/50	26
● + 213.1638	10/50	22
● + 213.1638P	10/50	23
● 213.3230	10/40	22
● 213.3230F	10/40	23
● 213.3231	10/40	22
● 213.3232	10/40	22
● 213.3233	10/40	22
● + 213.3233.K	10/40	162
● 213.32332	10/40	22
● 213.32333	10/40	22
● 213.32334	10/40	22
● 213.32336	10/40	22
● 213.32338	10/40	22
● 213.3233F	10/40	23
● 213.3233F.K	10/40	163
● + 213.3234	10/40	22
● 213.3234F	10/40	23
● 213.3235	10/40	22
● + 213.3235.K	10/40	162
● 213.3236	10/40	22
● + 213.3236.K	10/40	162
● 213.32361	10/40	22
● 213.32362	10/40	22
● 213.32364	10/40	22
● 213.32365	10/40	22
● 213.32366	10/40	22
● 213.32367	10/40	22
● 213.3236F	10/40	23
● 213.3236F.K	10/40	163
● 213.3236RV	10/40	26

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Cat.num.	Pack qty.	Page
● 213.3237	10/40	22
● + 213.3237-7	10	200
● 213.3237.K	10/40	162
● 213.32372	10/40	22
● 213.32374	10/40	22
● 213.32375	10/40	22
● 213.32376	10/40	22
● 213.32377	10/40	22
● 213.3237F	10/40	23
● 213.3237F.K	10/40	163
● 213.3237RV	10/40	26
● + 213.3238	10/40	22
● 213.3238F	10/40	23
● + 213.6330	6/24	24
● + 213.6331	6/24	24
● + 213.6332	6/24	24
● 213.6333	6/24	24
● + 213.63332	6/24	24
● + 213.63333	6/24	24
● + 213.63334	6/24	24
● + 213.63336	6/24	24
● + 213.63338	6/24	24
● + 213.6334	6/24	24
● + 213.6335	6/24	24
● 213.6336	6/24	24
● + 213.63361	6/24	24
● + 213.63362	6/24	24
● + 213.63364	6/24	24
● + 213.63365	6/24	24
● + 213.63366	6/24	24
● + 213.63367	6/24	24
● 213.6337	6/24	24
● + 213.63372	6/24	24
● + 213.63374	6/24	24
● + 213.63375	6/24	24
● + 213.63376	6/24	24
● + 213.63377	6/24	24
● + 213.63378	6/24	24

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● + 214.1630	50	27
● 214.1633	50	27
● 214.1636	40	27
● 214.1637	30	27
● 214.3230	25	27
● 214.3233	25	27
● 214.3236	25	27
● 214.3237	20	27

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Cat.num.	Pack qty.	Page
● + 215.812533		178
● + 215.812536		178
● + 215.812537		178
● + 215.86333		178
● + 215.86336	1	178
● + 215.86337	1	178

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● + 216.81633	1/5	178
● + 216.81636	1/5	178
● + 216.81637	1/5	178
● + 216.83233	1/5	178
● + 216.83236		178
● + 216.83237	1/5	178

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Cat.num.	Pack qty.	Page
● + 218.12530	1/8	30
● 218.12531	1/8	30
● 218.12532	1/8	30
● + 218.12533	1/8	30
● 218.12533.K	1/8	171
● + 218.12533.KX	1/8	32
● 218.125332	1/8	30
● 218.125333	1/8	30
● + 218.125334	1/8	30
● 218.125336	1/8	30
● + 218.125338	1/8	30
● + 218.12534	1/8	30
● 218.12535	1/8	30
● + 218.12535.KX	1/8	32
● 218.12536	1/8	30
● + 218.12536.K	1/8	171
● + 218.12536.KX	1/8	32
● 218.125361	1/8	30
● 218.125362	1/8	30
● 218.125364	1/8	30
● 218.125365	1/8	30
● 218.125366	1/8	30
● 218.125367	1/8	30
● 218.12537	1/8	30
● + 218.12537.K	1/8	171
● + 218.12537.KX	1/8	32
● 218.125372	1/8	30
● 218.125374	1/8	30
● 218.125375	1/8	30
● 218.125376	1/8	30
● 218.125377	1/8	30
● + 218.12538	1/8	30
● 218.1630	10/40	28
● + 218.1630.TR	10/40	31
● 218.1630P	10/40	29
● + 218.1630P.TR	10/40	31
● 218.1631	10/40	28
● 218.1632	10/40	28
● 218.1633	10/40	28
● 218.1633.K	10/40	169
● + 218.1633.KX	10/40	32
● 218.1633.TR	10/40	31
● 218.16332	10/40	28
● 218.16333	10/40	28
● 218.16334	10/40	28
● 218.16336	10/40	28
● 218.16338	10/40	28
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● 218.1633P.K	10/40	170
● 218.1633P.TR	10/40	31
● + 218.1634	10/40	28

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● + 218.1634P	10/40	29
● 218.1635	10/40	28
● + 218.1635.KX	10/40	32
● 218.1636	10/40	28
● + 218.1636.K	10/40	169
● + 218.1636.KX	10/40	32
● 218.16361	10/40	28
● 218.16362	10/40	28
● 218.16364	10/40	28
● 218.16365	10/40	28
● 218.16366	10/40	28
● 218.16367	10/40	28
● 218.1636P	10/40	29
● + 218.1636P.K	10/40	170
● 218.1636RV	10/40	31
● 218.1637	10/40	28
● ✓ 218.1637-7	10	200
● 218.1637.K	10/40	169
● + 218.1637.KX	10/40	32
● 218.16372	10/40	28
● 218.16374	10/40	28
● 218.16375	10/40	28
● 218.16376	10/40	28
● 218.16377	10/40	28
● 218.1637P	10/40	29
● + 218.1637P.K	10/40	170
● 218.1637RV	10/40	31
● + 218.1638	10/40	28
● + 218.1638P	10/40	29
● 218.3230	10/40	28
● 218.3230F	10/40	29
● 218.3231	10/40	28
● 218.3232	10/40	28
● 218.3233	10/40	28
● + 218.3233.K	10/40	169
● + 218.3233.KX	10/40	32
● 218.32332	10/40	28
● 218.32333	10/40	28
● 218.32334	10/40	28
● 218.32336	10/40	28
● 218.32338	10/40	28
● 218.3233F	10/40	29
● 218.3233F.K	10/40	170
● + 218.3234	10/40	28
● 218.3234F	10/40	29
● 218.3235	10/40	28
● + 218.3235.KX	10/40	32
● 218.3236	10/40	28
● + 218.3236.K	10/40	169
● + 218.3236.KX	10/40	32
● 218.32361	10/40	28
● 218.32362	10/40	28
● + 218.32364	10/40	28
● 218.32364.KX	1/12	32
● 218.32364F	10/40	29
● 218.32365	10/40	28
● 218.32366	10/40	28
● 218.32367	10/40	28
● 218.3236F	10/40	29
● 218.3236F.K	10/40	170
● 218.3236RV	10/40	31
● 218.3237	10/40	28

218		
Cat.numb.	Pack qty.	Page
● ✓ 218.3237-7	10	200
● 218.3237.K	10/40	169
● + 218.3237.KX	10/40	32
● 218.32372	10/40	28
● 218.32374	10/40	28
● 218.32375	10/40	28
● 218.32376	10/40	28
● 218.32377	10/40	28
● 218.3237F	10/40	29
● 218.3237F.K	10/40	170
● 218.3237RV	10/40	31
● + 218.3238	10/40	28
● 218.3238F	10/40	29
● + 218.6330	6/24	30
● 218.6331	6/24	30
● 218.6332	6/24	30
● 218.6333	6/24	30
● 218.6333.K	6/24	171
● + 218.6333.KX	6/24	32
● 218.63332	6/24	30
● 218.63333	6/24	30
● 218.63334	6/24	30
● 218.63336	6/24	30
● 218.63338	6/24	30
● 218.6334	6/24	30
● 218.6335	6/24	30
● + 218.6335.KX	6/24	32
● 218.6336	6/24	30
● 218.6336.K	6/24	171
● + 218.6336.KX	6/24	32
● 218.63361	6/24	30
● 218.63362	6/24	30
● 218.63364	6/24	30
● 218.63365	6/24	30
● ✓ 218.63365.KX	6/24	32
● 218.63366	6/24	30
● 218.63367	6/24	30
● 218.6337	6/24	30
● 218.6337.K	6/24	171
● + 218.6337.KX	6/24	32
● 218.63372	6/24	30
● 218.63374	6/24	30
● 218.63375	6/24	30
● 218.63377	6/24	30
● + 218.6338	6/24	30

221		
Cat.numb.	Pack qty.	Page
● + 221.1630	10/100	27
● 221.1633	10/100	27
● 221.1636	10/100	27
● 221.1637	10/100	27
● + 221.3230	10/60	27
● 221.3233	10/60	27
● 221.3236	10/60	27
● 221.3237	10/50	27

226		
Cat.numb.	Pack qty.	Page
● + 226.1630	10/100	33
● 226.1633	10/100	33
● 226.1636	10/100	33
● + 226.16367	10/100	33
● 226.1637	10/50	33
● + 226.3230	10/40	33
● 226.3233	10/40	33
● + 226.3236	10/40	33
● + 226.32364	10/40	33
● 226.3237	10/40	33

230		
Cat.numb.	Pack qty.	Page
● 230.1600	10/100	156
● 230.1601	10/100	156
● + 230.16010	10/100	156
● + 230.16012	10/100	156
● + 230.16014	10/100	156
● + 230.16015	10/100	156
● + 230.1602	10/100	156
● 230.1603	10/100	156
● 230.16030	10/100	156
● + 230.16032	10/100	156
● + 230.16034	10/100	156
● + 230.16035	10/100	156
● 230.1604	10/100	156
● 230.3200	10/100	156
● 230.3201	10/100	156
● + 230.32010	10/100	156
● + 230.32012	10/100	156
● + 230.32014	10/100	156
● + 230.32015	10/100	156
● + 230.3202	10/100	156
● 230.3203	10/100	156
● 230.32030	10/100	156
● + 230.32032	10/100	156
● + 230.32034	10/100	156
● + 230.32035	10/100	156
● 230.3204	10/100	156

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Cat.numb.	Pack qty.	Page
● 235.1600	10/100	156
● 235.1601	10/100	156
● + 235.16010	10/100	156
● + 235.16012	10/100	156
● + 235.16014	10/100	156
● + 235.16015	10/100	156
● + 235.1602	10/100	156
● + 235.1603	10/100	156
● + 235.16030	10/100	156
● + 235.16032	10/100	156
● + 235.16034	10/100	156
● + 235.16035	10/100	156
● 235.1604	10/100	156
● + 235.3200	10/100	156
● 235.3201	10/100	156
● + 235.32010	10/100	156

235		
Cat.numb.	Pack qty.	Page
● + 235.32012	10/100	156
● + 235.32014	10/100	156
● + 235.32015	10/100	156
● + 235.3202	10/100	156
● + 235.3203	10/100	156
● + 235.32030	10/100	156
● + 235.32032	10/100	156
● + 235.32034	10/100	156
● + 235.32035	10/100	156
● + 235.3204	10/100	156

240		
Cat.numb.	Pack qty.	Page
● ✓ 240.1697-7	10	200
● ✓ 240.3297-7	10	200
● ✓ 240.6390T	4	41
● ✓ 240.6391T	4	41
● ✓ 240.6392T	4	41
✓ 240.63932T		41
✓ 240.63933T		41
✓ 240.63934T		41
✓ 240.63936T		41
✓ 240.63938T		41
● ✓ 240.6393T	4	41
● ✓ 240.6394T	4	41
● ✓ 240.6395T	4	41
✓ 240.63961T		41
✓ 240.63962T		41
✓ 240.63964T		41
✓ 240.63965T		41
✓ 240.63966T		41
✓ 240.63967T		41
● ✓ 240.6396T	4	41
✓ 240.63972T		41
✓ 240.63974T		41
✓ 240.63975T		41
✓ 240.63976T		41
✓ 240.63977T		41
● ✓ 240.6397T	4	41
● ✓ 240.6398T	4	41

242		
Cat.numb.	Pack qty.	Page
● 242.1690	10/100	36
● + 242.1691	10/100	36
● + 242.1692	10/60	36
● 242.1693	10/100	36
● + 242.16932	10/100	36
● + 242.16933		36
● + 242.16934	10/100	36
● + 242.16936		36
● + 242.16938	10/100	36
● 242.1694	10/100	36
● + 242.1695	10/60	36
● 242.1696	10/100	36
● + 242.16961	10/100	36
● + 242.16962	10/100	36
● + 242.16964		36

242		
Cat.numb.	Pack qty.	Page
● + 242.16965	10/100	36
● + 242.16966	10/100	36
● + 242.16967	10/100	36
● 242.1697	10/60	36
● + 242.16972	10/60	36
● + 242.16974	10/60	36
● + 242.16975		36
● + 242.16976	10/60	36
● + 242.16977		36
● + 242.1698	10/100	36
● + 242.3290	10/60	36
● + 242.3291	10/60	36
● + 242.3292	10/40	36
● 242.3293	10/60	36
● + 242.32932		36
● + 242.32933		36
● + 242.32934	10/60	36
● + 242.32936	10/60	36
● + 242.32938	10/60	36
● + 242.3294	10/60	36
● + 242.3295	10/40	36
● 242.3296	10/60	36
● + 242.32961		36
● + 242.32962	10/60	36
● + 242.32964	10/60	36
● + 242.32965	10/60	36
● + 242.32966	10/60	36
● + 242.32967	10/60	36
● 242.3297	10/40	36
● + 242.32972	10/40	36
● + 242.32974	10	36
● + 242.32975	10	36
● + 242.32976	10	36
● + 242.32977	10	36
● + 242.3298	10/60	36

243		
Cat.numb.	Pack qty.	Page
● 243.1690	10/50	34
● + 243.1691	10/50	34
● + 243.1692	10/50	34
● 243.1693	10/50	34
● 243.1693.K	10/50	163
● + 243.1694	10/50	34
● + 243.1695	10/50	34
● 243.1696	10/50	34
● + 243.1696.K	10/50	163
● + 243.16964	10/50	34
● + 243.16965	10/50	34
● 243.1696RV	10/50	35
● 243.1697	10/50	34
● + 243.1697-7	10	201
● + 243.1697.K	10/50	163
● + 243.16974	10/50	34
● + 243.16975	10/50	34
● 243.1697RV	10/50	35
● + 243.1698	10/50	34
● + 243.3290	10/50	34
● + 243.3291	10/50	34
● + 243.3292	10/40	34

243		
Cat.numb.	Pack qty.	Page
● 243.3293	10/50	34
● + 243.3293.K	10/50	163
● + 243.3294	10/50	34
● + 243.3295	10/40	34
● 243.3296	10/50	34
● + 243.3296.K	10/50	163
● + 243.32964	10/50	34
● + 243.32965	10/50	34
● 243.3296RV	10/50	35
● 243.3297	10/40	34
● + 243.3297-7	10	201
● + 243.3297.K	10/40	163
● + 243.32974	10/40	34
● + 243.32975	10/40	34
● 243.3297RV	10/40	35
● + 243.3298	10/50	34
● + 243.6390		34
● + 243.6391		34
● + 243.6392		34
● 243.6393	10	34
● + 243.63932		34
● + 243.63933		34
● + 243.63934		34
● + 243.63936		34
● + 243.63938		34
● + 243.6394		34
● + 243.6395		34
● 243.6396	10	34
● + 243.63961		34
● + 243.63962		34
● + 243.63964		34
● + 243.63965		34
● + 243.63966		34
● + 243.63967		34
● 243.6397	10	34
● + 243.63972		34
● + 243.63974		34
● + 243.63975		34
● + 243.63976		34
● + 243.63977		34
● + 243.6398		34

245		
Cat.numb.	Pack qty.	Page
● + 245.12590T	1/4	42
● + 245.12591T	1/4	42
● + 245.12592T	1/4	42
● + 245.125932T		42
● + 245.125933T		42
● + 245.125934T		42
● + 245.125936T		42
● + 245.125938T		42
● + 245.12593T	1/4	42
● + 245.12594T	1/4	42
● + 245.12595T	1/4	42
● + 245.125961T		42
● + 245.125962T		42
● + 245.125964T		42
● + 245.125965T		42
● + 245.125966T		42

245		
Cat.numb.	Pack qty.	Page
● + 245.125967T		42
● + 245.12596T	1/4	42
● + 245.125972T		42
● + 245.125974T		42
● + 245.125975T		42
● + 245.125976T		42
● + 245.125977T		42
● + 245.12597T	1/4	42
● + 245.12598T	1/4	42
● + 245.1697-7	5	200
● + 245.3297-7	5	200
● + 245.6390T	4	42
● + 245.6391T	4	42
● + 245.6392T	4	42
● + 245.63932T		42
● + 245.63933T		42
● + 245.63934T		42
● + 245.63936T		42
● + 245.63938T		42
● + 245.6393T	4	42
● + 245.6394T	4	42
● + 245.6395T	4	42
● + 245.63961T		42
● + 245.63962T		42
● + 245.63964T		42
● + 245.63965T		42
● + 245.63966T		42
● + 245.63967T		42
● + 245.6396T	4	42
● + 245.63972T		42
● + 245.63974T		42
● + 245.63975T		42
● + 245.63976T	4	42
● + 245.63977T		42
● + 245.6397T	4	42
● + 245.6398T	4	42

246		
Cat.numb.	Pack qty.	Page
● + 246.125977	10	0

247		
Cat.numb.	Pack qty.	Page
● + 247.1690	10/100	40
● + 247.1691	10/60	40
● + 247.1692	10/50	40
● 247.1693	10/100	40
● + 247.16932	10/100	40
● + 247.16933		40
● + 247.16934	10/100	40
● + 247.16936	10/100	40
● + 247.16938		40
● + 247.1694	10/60	40
● + 247.1695	10/50	40
● 247.1696	10/60	40
● + 247.16961		40
● + 247.16962		40
● + 247.16964	10/60	40

247		
Cat.numb.	Pack qty.	Page
● + 247.16965	10/60	40
● + 247.16966	10/60	40
● + 247.16967	10/60	40
● 247.1697	10/50	40
● + 247.16972	10/50	40
● + 247.16974	10/50	40
● + 247.16975		40
● + 247.16976	10/50	40
● + 247.16977		40
● + 247.1698	10/100	40
● + 247.3290	10/40	40
● + 247.3291	10/40	40
● + 247.3292	10/40	40
● 247.3293	10/40	40
● + 247.32932		40
● + 247.32933		40
● + 247.32934	10/40	40
● + 247.32936	10/40	40
● + 247.32938		40
● + 247.3294	10/40	40
● + 247.3295	10/40	40
● 247.3296	10/40	40
● + 247.32961	10/40	40
● + 247.32962		40
● + 247.32964	10/40	40
● + 247.32965	10/40	40
● + 247.32966	10/40	40
● + 247.32967	10/40	40
● 247.3297	10/40	40
● + 247.32972	10/40	40
● + 247.32974	10/40	40
● + 247.32975	10/40	40
● + 247.32976	10	40
● + 247.32977	10/40	40
● + 247.3298	10/40	40
● + 247.812593		179
● + 247.812596		179
● + 247.812597		179
● + 247.81693	1/5	179
● + 247.81696		179
● + 247.81697	1/5	179
● + 247.83293	1/5	179
● + 247.83296		179
● + 247.83297	1/5	179
● + 247.86393		179
● + 247.86396		179
● + 247.86397	1	179

248		
Cat.numb.	Pack qty.	Page
● + 248.12590	10	38
● + 248.12591	10	38
● + 248.12592	10	38
● 248.12593	10	38
● + 248.125932	10	38
● + 248.125933	10	38
● + 248.125934	10	38
● + 248.125936	10	38
● + 248.125938	10	38
● + 248.12594	10	38

314		
Cat.numb.	Pack qty.	Page
● 314.1647	25	51
● + 314.3240	20	51
● + 314.3243	20	51
● + 314.3246	20	51
● 314.3247	15	51

315		
Cat.numb.	Pack qty.	Page
● + 315.812543		180
● + 315.812546	1	180
● + 315.812547		180
● + 315.86343	1	180
● + 315.86346		180
● + 315.86347	1	180

316		
Cat.numb.	Pack qty.	Page
● + 316.81643	15	180
● + 316.81646		180
● + 316.81647	15	180
● + 316.83243	15	180
● + 316.83246		180
● + 316.83247	15	180

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Cat.numb.	Pack qty.	Page
● + 318.12540	1/8	54
● 318.12541	1/8	54
● 318.12542	1/8	54
● + 318.12543	1/8	54
● + 318.12543.K	1/8	174
● + 318.12543.KX	1/8	57
● 318.125432	1/8	54
● 318.125433	1/8	54
● ✓ 318.125434	1/8	54
● 318.125436	1/8	54
● ✓ 318.125438	1/8	54
● + 318.12544	1/8	54
● 318.12545	1/8	54
● 318.12546	1/8	54
● + 318.12546.K	1/8	174
● + 318.12546.KX	1/8	57
● 318.125461	1/8	54
● 318.125462	1/8	54
● 318.125464	1/8	54
● 318.125465	1/8	54
● 318.125466	1/8	54
● 318.125467	1/8	54
● 318.12547	1/8	54
● + 318.12547.K	1/8	174
● + 318.12547.KX	1/8	57
● 318.125472	1/8	54
● 318.125474	1/8	54
● 318.125475	1/8	54
● 318.125476	1/8	54
● 318.125477	1/8	54

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Cat.numb.	Pack qty.	Page
● + 318.12548	1/8	54
● 318.1640	10/40	52
● + 318.1640.TR	10/40	55
● + 318.1640H	10/40	56
● 318.1640P	10/40	53
● + 318.1640P.TR	10/40	55
● 318.1641	10/40	52
● 318.1642	10/40	52
● 318.1643	10/40	52
● 318.1643.K	10/40	172
● + 318.1643.KX	10/40	57
● 318.1643.TR	10/40	55
● 318.16432	10/40	52
● 318.16433	10/40	52
● 318.16434	10/40	52
● 318.16436	10/40	52
● 318.16438	10/40	52
● 318.1643H	10/40	56
● 318.1643H.K	10/40	174
● 318.1643P	10/40	53
● 318.1643P.K	10/40	173
● 318.1643P.TR	10/40	55
● + 318.1644	10/40	52
● + 318.1644H	10/40	56
● + 318.1644P	10/40	53
● 318.1645	10/40	52
● 318.1646	10/40	52
● + 318.1646.K	10/40	172
● + 318.1646.KX	10/40	57
● 318.16461	10/40	52
● 318.16462	10/40	52
● 318.16464	10/40	52
● 318.16465	10/40	52
● 318.16466	10/40	52
● 318.16467	10/40	52
● 318.1646H	10/40	56
● + 318.1646H.K	10/40	174
● 318.1646P	10/40	53
● + 318.1646P.K	10/40	173
● 318.1647	10/40	52
● ✓ 318.1647-7	10	201
● 318.1647.K	10/40	172
● + 318.1647.KX	10/40	57
● 318.16472	10/40	52
● 318.16474	10/40	52
● 318.16475	10/40	52
● 318.16476	10/40	52
● 318.16477	10/40	52
● 318.1647H	10/40	56
● + 318.1647H.K	10/40	174
● 318.1647P	10/40	53
● + 318.1647P.K	10/40	173
● + 318.1648	10/40	52
● + 318.1648H	10/40	56
● + 318.1648P	10/40	53
● 318.3240	10/40	52
● 318.3240F	10/40	53
● 318.3241	10/40	52
● 318.3242	10/40	52
● 318.3243	10/40	52
● + 318.3243.K	10/40	172
● + 318.3243.KX	10/40	57

318		
Cat.numb.	Pack qty.	Page
● 318.32432	10/40	52
● 318.32433	10/40	52
● 318.32434	10/40	52
● 318.32436	10/40	52
● 318.32438	10/40	52
● 318.3243F	10/40	53
● 318.3243F.K	10/40	173
● + 318.3244	10/40	52
● 318.3244F	10/40	53
● 318.3245	10/40	52
● 318.3246	10/40	52
● + 318.3246.K	10/40	172
● + 318.3246.KX	10/40	57
● 318.32461	10/40	52
● 318.32462	10/40	52
● 318.32464	10/40	52
● 318.32464.KX	1/12	57
● 318.32464F	10/40	53
● 318.32465	10/40	52
● 318.32466	10/40	52
● 318.32467	10/40	52
● 318.3246F	10/40	53
● 318.3246F.K	10/40	173
● 318.3247	10/40	52
● ✓ 318.3247-7	10	201
● 318.3247.K	10/40	172
● + 318.3247.KX	10/40	57
● 318.32472	10/40	52
● 318.32474	10/40	52
● 318.32475	10/40	52
● 318.32476	10/40	52
● 318.32477	10/40	52
● 318.3247F	10/40	53
● 318.3247F.K	10/40	173
● + 318.3248	10/40	52
● 318.3248F	10/40	53
● + 318.6340	6/24	54
● 318.6341	6/24	54
● 318.6342	6/24	54
● 318.6343	6/24	54
● 318.6343.K	6/24	174
● + 318.6343.KX	6/24	57
● 318.63432	6/24	54
● 318.63433	6/24	54
● 318.63434	6/24	54
● 318.63436	6/24	54
● 318.63438	6/24	54
● + 318.6344	6/24	54
● 318.6346	6/24	54
● 318.6346.K	6/24	174
● + 318.6346.KX	6/24	57
● 318.63461	6/24	54
● 318.63462	6/24	54
● 318.63464	6/24	54
● 318.63465	6/24	54
● 318.63466	6/24	54
● 318.63467	6/24	54
● 318.6347	6/24	54
● 318.6347.K	6/24	174
● + 318.6347.KX	6/24	57
● 318.63472	6/24	54
● 318.63474	6/24	54

318		
Cat.numb.	Pack qty.	Page
● 318.63475	6/24	54
● 318.63476	6/24	54
● 318.63477	6/24	54
● + 318.6348	6/24	54

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● 405.1686	6	99
● + 405.16861	6	99
● + 405.16862	6	99
● + 405.16864	6	99
● + 405.16865	6	99
● + 405.16866	6	99
● + 405.16867	6	99
● 405.1687	6	99
● + 405.16872	6	99
● + 405.16874	6	99
● + 405.16875	6	99
● + 405.16876	6	99
● + 405.16877	6	99
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● + 405.2621	6	106
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● + 405.3274	6	99
● + 405.3275	6	99
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● + 405.32862	6	99
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● + 405.32866	6	99
● + 405.32867	6	99
● 405.3287	6	99
● + 405.32872	6	99
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● 418.1665	10/100	65
● 418.1666	10/100	65
● 418.1666.K	10/100	175
● 418.16661	10/100	65
● 418.16662	10/100	65
● 418.16664	10/100	65
● 418.16665	10/100	65
● 418.16666	10/100	65
● 418.16667	10/100	65
● 418.1666F	10/100	68
● 418.1666F.K	10/100	176
● 418.1666H	10/100	69
● 418.1666H.K	10/100	176
● 418.1667	10/100	65
● + 418.1667-7	10	201
● + 418.1667.K	10/100	175
● 418.16672	10/100	65
● 418.16674	10/100	65
● 418.16675	10/100	65
● 418.16676	10/100	65
● 418.16677	10/100	65
● 418.1667F	10/100	68
● 418.1667F.K	10/100	176
● 418.1667H	10/100	69
● 418.1667H.K	10/100	176
● 418.1668	10/100	65
● 418.1668F	10/100	68
● 418.1668H	10/100	69
● 418.3260	1050	65
● 418.3260F	1050	68
● 418.3261	1050	65
● 418.3263	1050	65
● 418.3263.K	1050	175
● 418.32632	1050	65
● 418.32633	1050	65
● 418.32634	1050	65
● 418.32636	1050	65
● 418.32638	1050	65
● 418.3263F	1050	68
● 418.3263F.K	1050	176
● 418.3264	1050	65
● 418.3264F	1050	68
● 418.3265	1050	65
● 418.3266	1050	65
● 418.3266.K	1050	175

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● 418.32661	1050	65
● 418.32662	1050	65
● 418.32664	1050	65
● 418.32665	1050	65
● 418.32666	1050	65
● 418.32667	1050	65
● 418.3266F	1050	68
● 418.3266F.K	1050	176
● 418.3267	1050	65
● + 418.3267-7	10	201
● + 418.3267.K	1050	175
● 418.32672	1050	65
● 418.32674	1050	65
● 418.32675	1050	65
● 418.32676	1050	65
● 418.32677	1050	65
● 418.3267F	1050	68
● 418.3267F.K	1050	176
● 418.3268	1050	65
● 418.3268F	1050	68
● + 418.6360	630	66
● + 418.6361	630	66
● + 418.6362	630	66
● 418.6363	630	66
● + 418.63632	630	66
● + 418.63633	630	66
● + 418.63634	630	66
● + 418.63636	630	66
● + 418.63638	630	66
● + 418.6364	630	66
● + 418.6365	630	66
● 418.6366	630	66
● + 418.63661	630	66
● + 418.63662	630	66
● + 418.63664	630	66
● + 418.63665	630	66
● + 418.63666	630	66
● + 418.63667	630	66
● 418.6367	630	66
● + 418.6367.K	630	175
● + 418.63672	630	66
● + 418.63674	630	66
● 418.63675	630	66
● + 418.63676	630	66
● + 418.63677	630	66
● + 418.6368	630	66

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Cat.num.	Pack qty.	Page
● 422.1660	10/100	64
● + 422.1660/R	10/100	64
● + 422.1661	10/100	64
● + 422.1662	10/100	64
● 422.1663	10/100	64
● + 422.1663.K	10/100	169
● 422.1663/R	10/100	64
● + 422.1663/R.K	10/100	168
● + 422.16632	10/100	64
● + 422.16633	10/100	64
● + 422.16634	10/100	64

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Cat.num.	Pack qty.	Page
● + 422.16636	10/100	64
● + 422.16638	10/100	64
● + 422.1664	10/100	64
● + 422.1665	10/100	64
● 422.1666	10/100	64
● + 422.16661	10/100	64
● + 422.16662	10/100	64
● + 422.16664	10/100	64
● + 422.16665	10/100	64
● + 422.16666	10/100	64
● + 422.16667	10/100	64
● 422.1667	10/100	64
● + 422.16672	10/100	64
● + 422.16674	10/100	64
● + 422.16675	10/100	64
● + 422.16676	10/100	64
● + 422.16677	10/100	64
● + 422.1668	10/100	64
● + 422.1668/R	10/100	64
● 422.3260	1050	64
● + 422.3261	1050	64
● + 422.3262	1050	64
● 422.3263	1050	64
● + 422.32632	1050	64
● + 422.32633	1050	64
● + 422.32634	1050	64
● + 422.32636	1050	64
● + 422.32638	1050	64
● + 422.3264	1050	64
● + 422.3265	1050	64
● 422.3266	1050	64
● + 422.32661	1050	64
● + 422.32662	1050	64
● + 422.32664	1050	64
● + 422.32665	1050	64
● + 422.32666	1050	64
● + 422.32667	1050	64
● 422.3267	1050	64
● + 422.3267.K	1050	169
● + 422.32672	1050	64
● + 422.32674	1050	64
● + 422.32675	1050	64
● + 422.32676	1050	64
● + 422.32677	1050	64
● + 422.3268	1050	64

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● + 423.6360		60
● + 423.6361		60
● + 423.6362		60
● + 423.6363	630	60
● + 423.63632		60
● + 423.63633		60
● + 423.63634		60
● + 423.63636		60
● + 423.63638		60
● + 423.6364		60
● + 423.6365		60
● + 423.6366	630	60

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● + 423.63661		60
● + 423.63662		60
● + 423.63664		60
● + 423.63665		60
● + 423.63666		60
● + 423.63667		60
● + 423.6367	6/30	60
● + 423.63672		60
● + 423.63674		60
● + 423.63675		60
● + 423.63676		60
● + 423.63677		60
● + 423.6368		60

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Cat.numb.	Pack qty.	Page
● + 427.1660	10/100	71
● + 427.1661	10/100	71
● + 427.1662	10/100	71
● 427.1663	10/100	71
● + 427.16632	10/100	71
● + 427.16633	10/100	71
● + 427.16634	10/100	71
● + 427.16636	10/100	71
● + 427.16638	10/100	71
● + 427.1664	10/100	71
● + 427.1665	10/100	71
● 427.1666	10/100	71
● + 427.16661	10/100	71
● + 427.16662	10/100	71
● + 427.16664	10/100	71
● + 427.16665	10/100	71
● + 427.16666	10/100	71
● + 427.16667	10/100	71
● 427.1667	10/100	71
● + 427.16672	10/100	71
● + 427.16674	10/100	71
● + 427.16675	10/100	71
● + 427.16676	10/100	71
● + 427.16677	10/100	71
● + 427.1668	10/100	71
● + 427.3260	10/50	71
● + 427.3261	10/50	71
● + 427.3262	10/50	71
● 427.3263	10/50	71
● + 427.32632	10/50	71
● + 427.32633	10/50	71
● + 427.32634	10/50	71
● + 427.32636	10/50	71
● + 427.32638	10/50	71
● + 427.3264	10/50	71
● + 427.3265	10/50	71
● 427.3266	10/50	71
● + 427.32661	10/50	71
● + 427.32662	10/50	71
● 427.32664	10/50	71
● + 427.32665	10/50	71
● + 427.32666	10/50	71
● + 427.32667	10/50	71
● 427.3267	10/50	71

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● + 427.32674	10/50	71
● + 427.32675	10/50	71
● + 427.32676	10/50	71
● + 427.32677	10/50	71
● + 427.3268	10/50	71
● + 427.812563		181
● + 427.812566		181
● + 427.812567		181
● + 427.81663	1/5	181
● + 427.81666		181
● + 427.81667	1/5	181
● + 427.83263	1/5	181
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● + 427.83267	1/5	181
● + 427.86363		181
● + 427.86366		181
● + 427.86367	1	181

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● + 428.12560	1/10	67
● + 428.12561	1/10	67
● + 428.12562	1/10	67
● + 428.12563	1/10	67
● + 428.125632	1/10	67
● + 428.125633	1/10	67
● + 428.125634	1/10	67
● + 428.125638	1/10	67
● + 428.12564	1/10	67
● + 428.12565	1/10	67
● + 428.12566	1/10	67
● + 428.125661	1/10	67
● + 428.125662	1/10	67
● + 428.125664	1/10	67
● + 428.125665	1/10	67
● + 428.125666	1/10	67
● + 428.125667	1/10	67
● + 428.12567	1/10	67
● + 428.125672	1/10	67
● + 428.125674	1/10	67
● + 428.125675	1/10	67
● + 428.125676	1/10	67
● + 428.125677	1/10	67
● + 428.12568	1/10	67
● + 428.6360	6/30	67
● + 428.6361	6/30	67
● + 428.6362	6/30	67
● + 428.6363	6/30	67
● + 428.63632	6/30	67
● + 428.63633	6/30	67
● + 428.63634	6/30	67
● + 428.63636	6/30	67
● + 428.63638	6/30	67
● + 428.6364	6/30	67
● + 428.6365	6/30	67
● + 428.6366	6/30	67
● + 428.63661	6/30	67
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● + 428.63664	6/30	67
● + 428.63665	6/30	67
● + 428.63666	6/30	67
● + 428.63667	6/30	67
● + 428.6367	6/30	67
● + 428.63672	6/30	67
● + 428.63674	6/30	67
● + 428.63675	6/30	67
● + 428.63676	6/30	67
● + 428.63677	6/30	67
● + 428.6368	6/30	67

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● 430.1616	10/100	158
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● + 430.16160	10/100	158
● + 430.16160/R	10/100	158
● + 430.16162	10/100	158
● + 430.16162/R	10/100	158
● + 430.16164	10/100	158
● + 430.16164/R	10/100	158
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● 430.1618	10/100	158
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● + 430.16180	10/100	158
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● + 430.16182	10/100	158
● + 430.16182/R	10/100	158
● + 430.16184	10/100	158
● + 430.16184/R	10/100	158
● + 430.16185	10/100	158
● + 430.16185/R	10/100	158
● 430.1619	10/100	158
● + 430.1619/R	10/100	158
● 430.3215	10/100	158
● + 430.3215/R	10/100	158
● + 430.3216	10/100	158
● + 430.3216/R	10/100	158
● + 430.32160	10/100	158
● + 430.32162	10/100	158
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● + 430.32165	10/100	158
● + 430.32165/R	10/100	158
● + 430.3217	10/100	158
● + 430.3217/R	10/100	158
● + 430.3218	10/100	158
● + 430.3218/R	10/100	158
● 430.32180	10/100	158
● + 430.32180/R	10/100	158
● + 430.32182	10/100	158
● + 430.32182/R	10/100	158
● + 430.32184	10/100	158
● + 430.32184/R	10/100	158
● + 430.32185	10/100	158
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● + 430.3219	10/100	158

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● + 430.32184	10/100	158
● + 430.32184/R	10/100	158
● + 430.32185	10/100	158
● + 430.32185/R	10/100	158
● 430.3219	10/100	158
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● 435.1615	10/100	159
● + 435.1615/R	10/100	159
● + 435.1616	10/100	159
● + 435.1616/R	10/100	159
● + 435.16160	10/100	159
● + 435.16160/R	10/100	159
● + 435.16162	10/100	159
● + 435.16162/R	10/100	159
● + 435.16164	10/100	159
● + 435.16164/R	10/100	159
● + 435.16165	10/100	159
● + 435.16165/R	10/100	159
● + 435.1617	10/100	159
● + 435.1617/R	10/100	159
● + 435.1618	10/100	159
● + 435.1618/R	10/100	159
● + 435.16180	10/100	159
● + 435.16180/R	10/100	159
● + 435.16182	10/100	159
● + 435.16182/R	10/100	159
● + 435.16184	10/100	159
● + 435.16184/R	10/100	159
● + 435.16185	10/100	159
● + 435.16185/R	10/100	159
● + 435.1619	10/100	159
● + 435.1619/R	10/100	159
● + 435.3215	10/100	159
● + 435.3215/R	10/100	159
● + 435.3216	10/100	159
● + 435.3216/R	10/100	159
● + 435.32160	10/100	159
● + 435.32160/R	10/100	159
● + 435.32162	10/100	159
● + 435.32162/R	10/100	159
● + 435.32164	10/100	159
● + 435.32164/R	10/100	159
● + 435.32165	10/100	159
● + 435.32165/R	10/100	159
● + 435.3217	10/100	159
● + 435.3217/R	10/100	159
● + 435.3218	10/100	159
● + 435.3218/R	10/100	159
● + 435.32180	10/100	159
● + 435.32180/R	10/100	159
● + 435.32182	10/100	159
● + 435.32182/R	10/100	159
● + 435.32184	10/100	159
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● + 435.32185	10/100	159
● + 435.32185/R	10/100	159
● + 435.3219	10/100	159

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● + 435.3219/R	10/100	159

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● + 452.1660	10/100	63
● + 452.1661	10/60	63
● + 452.1662	10/60	63
● 452.1663	10/100	63
● + 452.16632		63
● + 452.16633		63
● + 452.16634		63
● + 452.16636		63
● + 452.16638		63
● + 452.1664	10/60	63
● + 452.1665	10/60	63
● 452.1666	10/60	63
● + 452.16661	10/60	63
● + 452.16662		63
● + 452.16664		63
● + 452.16665		63
● + 452.16666		63
● + 452.16667		63
● 452.1667	10/60	63
● + 452.16672	10/60	63
● + 452.16674		63
● + 452.16675		63
● + 452.16676		63
● + 452.16677		63
● + 452.1668	10/100	63
● + 452.3260	10/40	63
● + 452.3261	10/40	63
● + 452.3262	10/40	63
● 452.3263	10/40	63
● + 452.32632		63
● + 452.32633		63
● + 452.32634	10/40	63
● + 452.32636		63
● + 452.32638		63
● + 452.3264	10/40	63
● + 452.3265	10/40	63
● 452.3266	10/40	63
● + 452.32661		63
● + 452.32662		63
● + 452.32664	10/40	63
● + 452.32665	10/40	63
● + 452.32666		63
● + 452.32667		63
● 452.3267	10/40	63
● + 452.32672	10	63
● + 452.32674	10	63
● + 452.32675	10	63
● + 452.32676	10	63
● + 452.32677	10	63
● + 452.3268	10/40	63

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● + 457.1662	10/50	70
● 457.1663	10/60	70
● + 457.16632		70
● + 457.16633		70
● + 457.16634		70
● + 457.16636		70
● + 457.16638		70
● + 457.1664	10/50	70
● + 457.1665	10/50	70
● 457.1666	10/50	70
● + 457.16661	10/50	70
● + 457.16662		70
● + 457.16664		70
● + 457.16665		70
● + 457.16666	10/50	70
● + 457.16667		70
● + 457.1667	10/50	70
● + 457.16672		70
● + 457.16674	10/50	70
● + 457.16675		70
● + 457.16676		70
● + 457.16677		70
● + 457.1668	10/60	70
● + 457.3260	10/40	70
● + 457.3261	10/40	70
● + 457.3262	10/40	70
● + 457.3263	10/40	70
● + 457.32632		70
● + 457.32633		70
● + 457.32634	10/40	70
● + 457.32636	10/40	70
● + 457.32638		70
● + 457.3264	10/40	70
● + 457.3265	10/40	70
● 457.3266	10/40	70
● + 457.32661		70
● + 457.32662		70
● + 457.32664	10/40	70
● + 457.32665		70
● 457.32666	10/40	70
● + 457.32667		70
● 457.3267	10	70
● + 457.32672	10	70
● + 457.32674	10/40	70
● + 457.32675	10/40	70
● + 457.32676	10	70
● + 457.32677	10/40	70
● + 457.3268	10/40	70

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✓ 499.AMRSW-000		155
✓ 499.AMRSW-001		155
✓ 499.AMRSW-010		155
✓ 499.AMRSW-030		155
✓ 499.AMRSW-060		155
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● + 500.1670	6	100
● + 500.1672	6	100
● + 500.1674	6	100
● + 500.1675	6	100
● + 500.1678	6	100
● + 500.1679	6	100
● 500.1683	6	100
● + 500.16832	6	100
● + 500.16833	6	100
● + 500.16834	6	100
● + 500.16836	6	100
● + 500.16838	6	100
● + 500.1686	6	100
● + 500.16861	6	100
● + 500.16862	6	100
● + 500.16864	6	100
● + 500.16865	6	100
● + 500.16866	6	100
● + 500.16867	6	100
● 500.1687	6	100
● + 500.16872	6	100
● + 500.16874	6	100
● + 500.16875	6	100
● + 500.16876	6	100
● + 500.16877	6	100
● + 500.2420	6	107
● + 500.2421	6	107
● + 500.2620	6	107
● + 500.2621	6	107
● + 500.3270	6	100
● + 500.3272	6	100
● + 500.3274	6	100
● + 500.3275	6	100
● + 500.3278	6	100
● + 500.3279	6	100
● + 500.3283	6	100
● + 500.32832	6	100
● + 500.32833	6	100
● + 500.32834	6	100
● + 500.32836	6	100
● + 500.32838	6	100
● + 500.3286	6	100
● + 500.32861	6	100
● + 500.32862	6	100
● + 500.32864	6	100
● + 500.32865	6	100
● + 500.32866	6	100
● + 500.32867	6	100
● 500.3287	6	100
● + 500.32872	6	100
● + 500.32874	6	100
● + 500.32875	6	100
● + 500.32876	6	100
● + 500.32877	6	100

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● + 501.1670	6	104
● + 501.1672	6	104
● + 501.1674	6	104

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● + 501.1675	6	104
● + 501.1678	6	104
● + 501.1679	6	104
● + 501.1683	6	104
● + 501.16832	6	104
● + 501.16833	6	104
● + 501.16834	6	104
● + 501.16836	6	104
● + 501.16838	6	104
● + 501.1686	6	104
● + 501.16861	6	104
● + 501.16862	6	104
● + 501.16864	6	104
● + 501.16865	6	104
● + 501.16866	6	104
● + 501.16867	6	104
● + 501.1687	6	104
● + 501.16872	6	104
● + 501.16874	6	104
● + 501.16875	6	104
● + 501.16876	6	104
● + 501.16877	6	104
● + 501.3270	6	104
● + 501.3272	6	104
● + 501.3274	6	104
● + 501.3275	6	104
● + 501.3278	6	104
● + 501.3279	6	104
● + 501.3283	6	104
● + 501.3286	6	104
● + 501.3287	6	104

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● + 503.12583	1	138
● + 503.12583-F	1	139
● + 503.12583-FS	1	139
● + 503.12583-M	1	140
● + 503.12583-RM	1	140
● + 503.12583-T	1	141
● + 503.125834-F	1	139
● 503.12586	1	138
● 503.12586-F	1	139
● + 503.12586-FS	1	139
● 503.12586-M	1	140
● 503.12586-RM	1	140
● + 503.12586-T	1	141
● + 503.125865	1	138
● 503.12587	1	138
● 503.12587-F	1	139
● + 503.12587-FS	1	139
● 503.12587-M	1	140
● 503.12587-RM	1	140
● + 503.12587-T	1	141
● + 503.1683	1	0
● + 503.1683-F	1	0
● + 503.1686	1	0
● + 503.1686-F	1	0
● + 503.1687	1	0
● + 503.1687-F	1	0

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Cat.numb.	Pack qty.	Page
● + 503.3283	1	0
● + 503.3283-F	1	0
● + 503.3286	1	0
● + 503.3286-F	1	0
● + 503.3287	1	0
● + 503.3287-F	1	0
● + 503.6383	1	0
● + 503.6383-F	1	0
● + 503.6386	1	0
● + 503.6386-F	1	0
● + 503.6387	1	0
● + 503.6387-F	1	0
● ✓ 503.AMR12583	1	153
● ✓ 503.AMR12583-F	1	153
● ✓ 503.AMR12583-M	1	153
● ✓ 503.AMR12586	1	153
● ✓ 503.AMR12586-F	1	153
● ✓ 503.AMR12586-M	1	153
● ✓ 503.AMR12587	1	153
● ✓ 503.AMR12587-F	1	153
● ✓ 503.AMR12587-M	1	153

505		
Cat.numb.	Pack qty.	Page
● + 505.1670	6	101
● + 505.1672	6	101
● + 505.1674	6	101
● + 505.1675	6	101
● + 505.1678	6	101
● + 505.1679	6	101
● 505.1683	6	101
● + 505.16832	6	101
● + 505.16833	6	101
● + 505.16834	6	101
● + 505.16836	6	101
● + 505.16838	6	101
● + 505.1686	6	101
● + 505.16861	6	101
● + 505.16862	6	101
● + 505.16864	6	101
● + 505.16865	6	101
● + 505.16866	6	101
● + 505.16867	6	101
● + 505.1687	6	101
● + 505.16872	6	101
● + 505.16874	6	101
● + 505.16875	6	101
● + 505.16876	6	101
● + 505.16877	6	101
● 505.2420	6	107
● + 505.2421	6	107
● + 505.2620	6	107
● + 505.2621	6	107
● + 505.3270	6	101
● + 505.3272	6	101
● + 505.3274	6	101
● + 505.3275	6	101
● + 505.3278	6	101
● + 505.3279	6	101
● + 505.3283	6	101

505		
Cat.numb.	Pack qty.	Page
● + 505.32832	6	101
● + 505.32833	6	101
● + 505.32834	6	101
● + 505.32836	6	101
● + 505.32838	6	101
● + 505.3286	6	101
● + 505.32861	6	101
● + 505.32862	6	101
● + 505.32864	6	101
● + 505.32865	6	101
● + 505.32866	6	101
● + 505.32867	6	101
● + 505.3287	6	101
● + 505.32872	6	101
● + 505.32874	6	101
● + 505.32875	6	101
● + 505.32876	6	101
● + 505.32877	6	101
● ✓ 505.6370		101
● ✓ 505.6372		101
● ✓ 505.6374		101
● ✓ 505.6375		101
● ✓ 505.6378		101
● ✓ 505.6379	16	101
● ✓ 505.6383	16	101
● ✓ 505.63833		101
● ✓ 505.63834		101
● ✓ 505.63836		101
● ✓ 505.6386	16	101
● ✓ 505.63865		101
● ✓ 505.63866		101
● ✓ 505.63867		101
● ✓ 505.6387	16	101
● ✓ 505.63875		101
● ✓ 505.63876		101
● ✓ 505.63877		101

506		
Cat.numb.	Pack qty.	Page
● + 506.1670	6	105
● + 506.1672	6	105
● + 506.1674	6	105
● + 506.1675	6	105
● + 506.1678	6	105
● + 506.1679	6	105
● 506.1683	6	105
● + 506.16832	6	105
● + 506.16833	6	105
● + 506.16834	6	105
● + 506.16836	6	105
● + 506.16838	6	105
● + 506.1686	6	105
● + 506.16861	6	105
● + 506.16862	6	105
● + 506.16864	6	105
● + 506.16865	6	105
● + 506.16866	6	105
● + 506.16867	6	105
● + 506.1687	6	105
● + 506.16872	6	105

506		
Cat.numb.	Pack qty.	Page
● + 506.16874	6	105
● + 506.16875	6	105
● + 506.16876	6	105
● + 506.16877	6	105
● ✓ 506.3270	6	105
● ✓ 506.3272	6	105
● ✓ 506.3274	6	105
● ✓ 506.3275	6	105
● ✓ 506.3278	6	105
● ✓ 506.3279	6	105
● ✓ 506.3283	6	105
● ✓ 506.3286	6	105
● ✓ 506.3287	6	105

512		
Cat.numb.	Pack qty.	Page
● 512.1650	1050	78
● + 512.1651	1050	78
● + 512.1652	1050	78
● 512.1653	1050	78
● 512.1654	1050	78
● + 512.1655	1050	78
● 512.1656	1050	78
● 512.1657	1050	78
● ✓ 512.1657-7	10	201
● 512.1658	1050	78
● 512.3250	1040	78
● + 512.3251	1040	78
● + 512.3252	1040	78
● 512.3253	1040	78
● 512.3254	1040	78
● + 512.3255	1040	78
● 512.3256	1040	78
● 512.3257	1040	78
● ✓ 512.3257-7	10	201
● + 512.3258	1040	78

513		
Cat.numb.	Pack qty.	Page
● 513.1650	1040	72
● 513.1650T	1040	73
● 513.1650TF	1040	74
● + 513.1650TH	1040	76
● + 513.1651T	1040	73
● + 513.1652T	1040	73
● 513.1653	1040	72
● ✓ 513.1653-1FNS	8	87
● ✓ 513.1653-2AFS	8	87
● ✓ 513.1653-2FNS	8	87
● ✓ 513.1653-AF	10	77
● + 513.1653-BN	10	77
● 513.1653-CF	10	77
● 513.1653-DN	10	77
● 513.1653-FN	10	77
● ✓ 513.1653-KN	10	77
● + 513.1653-LN	10	77
● 513.1653-PN	10	77
● + 513.16532T	1040	73

513		
Cat.numb.	Pack qty.	Page
● + 513.16533T	1040	73
● + 513.16534T	1040	73
● + 513.16536T	1040	73
● + 513.16538T	1040	73
● 513.1653T	1040	73
● 513.1653TF	1040	74
● + 513.1653TH	1040	76
● ✓ 513.1653TS	10	86
● + 513.1654T	1040	73
● 513.1654TF	1040	74
● + 513.1654TH	1040	76
● + 513.1655T	1040	73
● 513.1656	1040	72
● ✓ 513.1656-1FNR	8	88
● ✓ 513.1656-1FNS	8	87
● ✓ 513.1656-2AFS	8	87
● ✓ 513.1656-2FNR	8	88
● ✓ 513.1656-2FNS	8	87
● ✓ 513.1656-AF	10	77
● + 513.1656-BN	10	77
● 513.1656-CF	10	77
● 513.1656-DN	10	77
● 513.1656-FN	10	77
● ✓ 513.1656-KN	10	77
● + 513.1656-LN	10	77
● 513.1656-PN	10	77
● + 513.16561T	1040	73
● + 513.16562T	1040	73
● + 513.16564T	1040	73
● + 513.16565T	1040	73
● + 513.16566T	1040	73
● + 513.16567T	1040	73
● 513.1656T	1040	73
● 513.1656TF	1040	74
● + 513.1656TH	1040	76
● ✓ 513.1656TS	10	86
● 513.1657	1040	72
● ✓ 513.1657-1FNR	8	88
● ✓ 513.1657-1FNS	8	87
● ✓ 513.1657-2AFS	8	87
● ✓ 513.1657-2FNR	8	88
● ✓ 513.1657-2FNS	8	87
● ✓ 513.1657-AF	10	77
● + 513.1657-BN	10	77
● 513.1657-CF	10	77
● 513.1657-DN	10	77
● 513.1657-FN	10	77
● ✓ 513.1657-KN	10	77
● + 513.1657-LN	10	77
● 513.1657-PN	10	77
● + 513.16572T	1040	73
● + 513.16574T	1040	73
● + 513.16575T	1040	73
● + 513.16576T	1040	73
● + 513.16577T	1040	73
● 513.1657T	1040	73
● 513.1657TF	1040	74
● + 513.1657TH	1040	76
● ✓ 513.1657TS	10	86
● + 513.1658T	1040	73
● 513.1658TF	1040	74
● + 513.1658TH	1040	76

513		
Cat.numb.	Pack qty.	Page
● 513.3250	10	72
● + 513.3250T	10	73
● 513.3250TF	10	74
● + 513.3251T	10	73
● + 513.3252T	10	73
● 513.3253	10	72
● ✓ 513.3253-1FFS	8	87
● ✓ 513.3253-2AFS	8	87
● ✓ 513.3253-2FFS	8	87
● ✓ 513.3253-AF	10	77
● + 513.3253-BF	10	77
● 513.3253-CF	10	77
● 513.3253-DF	10	77
● 513.3253-FF	10	77
● ✓ 513.3253-KF	10	77
● + 513.3253-LF	10	77
● 513.3253-PF	10	77
● + 513.32532T	10	73
● + 513.32533T	10	73
● + 513.32534T	10	73
● + 513.32536T	10	73
● + 513.32538T	10	73
● 513.3253T	10	73
● 513.3253TF	10	74
● ✓ 513.3253TS	10	86
● ✓ 513.3253TS.A	10	86
● + 513.3254T	10	73
● 513.3254TF	10	74
● + 513.3255T	10	73
● 513.3256	10	72
● ✓ 513.3256-1FFR	8	88
● ✓ 513.3256-1FFS	8	87
● ✓ 513.3256-2AFS	8	87
● ✓ 513.3256-2FFR	8	88
● ✓ 513.3256-2FFS	8	87
● ✓ 513.3256-AF	10	77
● + 513.3256-BF	10	77
● 513.3256-CF	10	77
● 513.3256-DF	10	77
● 513.3256-FF	10	77
● ✓ 513.3256-KF	10	77
● + 513.3256-LF	10	77
● 513.3256-PF	10	77
● + 513.32561T	10	73
● + 513.32562T	10	73
● + 513.32564T	10	73
● + 513.32565T	10	73
● + 513.32566T	10	73
● + 513.32567T	10	73
● 513.3256T	10	73
● 513.3256TF	10	74
● ✓ 513.3256TS	10	86
● ✓ 513.3256TS.A	10	86
● 513.3257	10	72
● ✓ 513.3257-1FFR	8	88
● ✓ 513.3257-1FFS	8	87
● ✓ 513.3257-2AFS	8	87
● ✓ 513.3257-2FFR	8	88
● ✓ 513.3257-2FFS	8	87
● ✓ 513.3257-AF	10	77
● + 513.3257-BF	10	77
● 513.3257-CF	10	77

513		
Cat.numb.	Pack qty.	Page
● 513.3257-DF	10	77
● 513.3257-FF	10	77
● ✓ 513.3257-KF	10	77
● + 513.3257-LF	10	77
● 513.3257-PF	10	77
● + 513.32572T	10	73
● + 513.32574T	10	73
● + 513.32575T	10	73
● + 513.32576T	10	73
● + 513.32577T	10	73
● 513.3257T	10	73
● 513.3257TF	10	74
● ✓ 513.3257TS	10	86
● ✓ 513.3257TS.A	10	86
● + 513.3258T	10	73
● 513.3258TF	10	74
● ✓ 513.6350T	4	75
● ✓ 513.6351T	4	75
● ✓ 513.6352T	4	75
● ✓ 513.63532T	75	
● ✓ 513.63533T	75	
● ✓ 513.63534T	75	
● ✓ 513.63536T	75	
● ✓ 513.63538T	75	
● ✓ 513.6353T	4	75
● ✓ 513.6354T	4	75
● ✓ 513.6355T	4	75
● ✓ 513.63561T	75	
● ✓ 513.63562T	75	
● ✓ 513.63564T	75	
● ✓ 513.63565T	75	
● ✓ 513.63566T	75	
● ✓ 513.63567T	75	
● ✓ 513.6356T	4	75
● ✓ 513.63572T	75	
● ✓ 513.63574T	75	
● ✓ 513.63575T	75	
● ✓ 513.63576T	75	
● ✓ 513.63577T	75	
● ✓ 513.6357T	4	75
● ✓ 513.6358T	4	75

517		
Cat.numb.	Pack qty.	Page
● + 517.1650	10/50	84
● + 517.1651	10/50	84
● + 517.1652	10/40	84
● 517.1653	10/50	84
● 517.1654	10/50	84
● + 517.1655	10/40	84
● 517.1656	10/50	84
● 517.1657	10/40	84
● ✓ 517.1657-7	5	201
● + 517.1658	10/50	84
● + 517.3250	10/40	84
● + 517.3251	10/40	84
● + 517.3252	10/40	84
● 517.3253	10/40	84
● + 517.3254	10/40	84
● + 517.3255	10/40	84

517		
Cat.numb.	Pack qty.	Page
● 517.3256	10/40	84
● 517.32564	10/40	84
● 517.3257	10/40	84
● ✓ 517.3257-7	5	201
● + 517.3258	10/40	84

518		
Cat.numb.	Pack qty.	Page
● ✓ 518.12550T	1/4	82
● ✓ 518.12551T	1/4	82
● ✓ 518.12552T	1/4	82
● ✓ 518.125532T		82
● ✓ 518.125533T		82
● ✓ 518.125534T		82
● ✓ 518.125536T		82
● ✓ 518.125538T		82
● ✓ 518.12553T	1/4	82
● ✓ 518.12554T	1/4	82
● ✓ 518.12555T	1/4	82
● ✓ 518.125561T		82
● ✓ 518.125562T		82
● ✓ 518.125564T		82
● ✓ 518.125565T		82
● ✓ 518.125566T		82
● ✓ 518.125567T		82
● ✓ 518.12556T	1/4	82
● ✓ 518.125572T		82
● ✓ 518.125574T		82
● ✓ 518.125575T		82
● ✓ 518.125576T		82
● ✓ 518.125577T		82
● ✓ 518.12557T	1/4	82
● ✓ 518.12558T	1/4	82
● 518.1650T	10/40	80
● 518.1650TF	10/40	81
● + 518.1650TH	10/40	83
● + 518.1651T	10/40	80
● + 518.1652T	10/40	80
● + 518.16532T	10/40	80
● + 518.16533T	10/40	80
● + 518.16534T	10/40	80
● + 518.16536T	10/40	80
● + 518.16538T	10/40	80
● 518.1653T	10/40	80
● 518.1653TF	10/40	81
● + 518.1653TH	10/40	83
● ✓ 518.1653TS	10	89
● + 518.1654T	10/40	80
● 518.1654TF	10/40	81
● + 518.1654TH	10/40	83
● + 518.1655T	10/40	80
● + 518.16561T	10/40	80
● + 518.16562T	10/40	80
● + 518.16564T	10/40	80
● + 518.16565T	10/40	80
● + 518.16566T	10/40	80
● + 518.16567T	10/40	80
● 518.1656T	10/40	80
● 518.1656TF	10/40	81
● + 518.1656TH	10/40	83

518		
Cat.numb.	Pack qty.	Page
● ✓ 518.1656TS	10	89
● + 518.16572T	10/40	80
● + 518.16574T	10/40	80
● + 518.16575T	10/40	80
● + 518.16576T	10/40	80
● + 518.16577T	10/40	80
● 518.1657T	10/40	80
● 518.1657TF	10/40	81
● + 518.1657TH	10/40	83
● ✓ 518.1657TS	10	89
● + 518.1658T	10/40	81
● 518.1658TF	10/40	81
● + 518.1658TH	10/40	83
● + 518.3250T	10	80
● 518.3250TF	10	81
● + 518.3251T	10	80
● + 518.3252T	10	80
● + 518.32532T	10	80
● + 518.32533T	10	80
● + 518.32534T	10	80
● + 518.32536T	10	80
● + 518.32538T	10	80
● 518.3253T	10	80
● 518.3253TF	10	81
● ✓ 518.3253TS	10	89
● ✓ 518.3253TS.A	10	89
● + 518.3254T	10	80
● 518.3254TF	10	81
● + 518.3255T	10	80
● + 518.32561T	10	80
● + 518.32562T	10	80
● + 518.32564T	10	80
● 518.32564TF	10	81
● + 518.32565T	10	80
● 518.32566T	10	80
● + 518.32567T	10	80
● 518.3256T	10	80
● 518.3256TF	10	81
● ✓ 518.3256TS	10	89
● ✓ 518.3256TS.A	10	89
● + 518.32572T	10	80
● + 518.32574T	10	80
● + 518.32575T	10	80
● + 518.32576T	10	80
● + 518.32577T	10	80
● 518.3257T	10	80
● 518.3257TF	10	81
● ✓ 518.3257TS	10	89
● ✓ 518.3257TS.A	10	89
● + 518.3258T	10	80
● 518.3258TF	10	81
● ✓ 518.6350T	4	82
● ✓ 518.6351T	4	82
● ✓ 518.6352T	4	82
● ✓ 518.63532T	82	
● ✓ 518.63533T	82	
● ✓ 518.63534T	82	
● ✓ 518.63536T	82	
● ✓ 518.63538T	82	
● ✓ 518.6353T	4	82
● ✓ 518.6354T	4	82
● ✓ 518.6355T	4	82

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518		
Cat.numb.	Pack qty.	Page
● ✓ 518.63561T		82
● ✓ 518.63562T		82
● ✓ 518.63564T		82
● ✓ 518.63565T		82
● ✓ 518.63566T		82
● ✓ 518.63567T		82
● ✓ 518.6356T	4	82
● ✓ 518.63572T		82
● ✓ 518.63574T		82
● ✓ 518.63575T		82
● ✓ 518.63576T		82
● ✓ 518.63577T		82
● ✓ 518.6357T	4	82
● ✓ 518.6358T	4	82

522		
Cat.numb.	Pack qty.	Page
● + 522.1650	10/50	79
● + 522.1651	10/50	79
● + 522.1652	10/50	79
● 522.1653	10/50	79
● 522.1654	10/50	79
● + 522.1655	10/50	79
● 522.1656	10/50	79
● 522.1657	10/50	79
● + 522.1658	10/50	79
● + 522.3250	10/40	79
● + 522.3251	10/40	79
● + 522.3252	10/40	79
● 522.3253	10/40	79
● + 522.3254	10/40	79
● + 522.3255	10/40	79
● 522.3256	10/40	79
● 522.3257	10/40	79
● + 522.3258	10/40	79

527		
Cat.numb.	Pack qty.	Page
● + 527.1650	10/50	85
● + 527.1651	10/50	85
● + 527.1652	10/50	85
● 527.1653	10/50	85
● + 527.1654	10/50	85
● + 527.1655	10/50	85
● 527.1656	10/50	85
● 527.1657	10/50	85
● + 527.1658	10/50	85
● + 527.3250	10/40	85
● + 527.3251	10/40	85
● + 527.3252	10/40	85
● 527.3253	10/40	85
● + 527.3254	10/40	85
● + 527.3255	10/40	85
● 527.3256	10/40	85
● 527.3257	10/40	85
● + 527.3258	10/40	85

530		
Cat.numb.	Pack qty.	Page
● 530.01610	10/50	160
● + 530.01611	10/50	160
● + 530.016110	10/50	160
● + 530.016112	10/50	160
● + 530.016114	10/50	160
● + 530.016115	10/50	160
● + 530.01612	10/50	160
● + 530.01613	10/50	160
● + 530.016130	10/50	160
● + 530.016132	10/50	160
● + 530.016134	10/50	160
● + 530.016135	10/50	160
● 530.01614	10/50	160
● + 530.03210	10/50	161
● + 530.03211	10/50	161
● + 530.032110	10/50	161
● + 530.032112	10/50	161
● + 530.032114	10/50	161
● + 530.032115	10/50	161
● + 530.03212	10/50	161
● + 530.03213	10/50	161
● + 530.032130	10/50	161
● + 530.032132	10/50	161
● + 530.032134	10/50	161
● + 530.032135	10/50	161
● + 530.03214	10/50	161
● 530.1610	10/50	160
● 530.1611	10/50	160
● + 530.16110	10/50	160
● + 530.16112	10/50	160
● + 530.16114	10/50	160
● + 530.16115	10/50	160
● + 530.1612	10/50	160
● + 530.1613	10/50	160
● + 530.16130	10/50	160
● + 530.16132	10/50	160
● + 530.16134	10/50	160
● + 530.16135	10/50	160
● + 530.1614	10/50	160
● + 530.3210	10/50	160
● + 530.3211	10/50	160
● + 530.32110	10/50	160
● + 530.32112	10/50	160
● + 530.32114	10/50	160
● + 530.32115	10/50	160
● + 530.3212	10/50	160
● + 530.3213	10/50	160
● + 530.32130	10/50	160
● + 530.32132	10/50	160
● + 530.32134	10/50	160
● + 530.32135	10/50	160
● + 530.3214	10/50	160

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● + 535.016112	10/50	161
● + 535.016114	10/50	161

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● + 535.01612	10/50	161
● + 535.01613	10/50	161
● + 535.016130	10/50	161
● + 535.016132	10/50	161
● + 535.016134	10/50	161
● + 535.016135	10/50	161
● + 535.01614	10/50	161
● 535.03210	10/50	161
● 535.03211	10/50	161
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● + 535.032112	10/50	161
● + 535.032114	10/50	161
● + 535.032115	10/50	161
● + 535.03212	10/50	161
● + 535.03213	10/50	161
● + 535.032130	10/50	161
● + 535.032132	10/50	161
● + 535.032134	10/50	161
● + 535.032135	10/50	161
● + 535.03214	10/50	161
● 535.1610	10/50	161
● + 535.1611	10/50	161
● + 535.16110	10/50	161
● + 535.16112	10/50	161
● + 535.16114	10/50	161
● + 535.16115	10/50	161
● + 535.1612	10/50	161
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● + 535.3210	10/50	161
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● + 560.1679	1/12	118
● 560.1683	1/12	118
● + 560.16832	1/12	118
● + 560.16833	1/12	118
● + 560.16834	1/12	118

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● 560.1687	1/12	118
● + 560.16872	1/12	118
● + 560.16874	1/12	118
● + 560.16875	1/12	118
● + 560.16876	1/12	118
● + 560.16877	1/12	118
● + 560.3270	1/12	118
● + 560.3272	1/12	118
● + 560.3274	1/12	118
● + 560.3275	1/12	118
● + 560.3278	1/12	118
● + 560.3279	1/12	118
● + 560.3283	1/12	118
● + 560.32832	1/12	118
● + 560.32833	1/12	118
● + 560.32834	1/12	118
● + 560.32836	1/12	118
● + 560.32838	1/12	118
● + 560.3286	1/12	118
● + 560.32861	1/12	118
● + 560.32862	1/12	118
● + 560.32864	1/12	118
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● + 560.32866	1/12	118
● + 560.32867	1/12	118
● + 560.3287	1/12	118
● + 560.32872	1/12	118
● + 560.32874	1/12	118
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● 561.1683	1/12	119
● + 561.16832	1/12	119
● + 561.16833	1/12	119
● + 561.16834	1/12	119
● + 561.16836	1/12	119
● + 561.16838	1/12	119
● 561.1686	1/12	119
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● + 561.16862	1/12	119
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● + 561.16876	1/2	119
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● + 561.3270	1/2	119
● + 561.3272	1/2	119
● + 561.3274	1/2	119
● + 561.3275	1/2	119
● + 561.3278	1/2	119
● + 561.3279	1/2	119
● + 561.3283	1/2	119
● + 561.32832	1/2	119
● + 561.32833	1/2	119
● + 561.32834	1/2	119
● + 561.32836	1/2	119
● + 561.32838	1/2	119
● 561.3286	1/2	119
● + 561.32861	1/2	119
● + 561.32862	1/2	119
● + 561.32864	1/2	119
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● + 561.32866	1/2	119
● + 561.32867	1/2	119
● + 561.3287	1/2	119
● + 561.32872	1/2	119
● + 561.32874	1/2	119
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● + 561.32877	1/2	119
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● + 561.63833	1/4	119
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● 561.6386	1/4	119
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● + 562.16838	1/2	120
● 562.1686	1/2	120
● + 562.16861	1/2	120
● + 562.16862	1/2	120
● + 562.16864	1/2	120
● + 562.16865	1/2	120
● + 562.16866	1/2	120
● + 562.16867	1/2	120
● 562.1687	1/2	120
● + 562.16872	1/2	120
● + 562.16874	1/2	120
● + 562.16875	1/2	120
● + 562.16876	1/2	120
● + 562.16877	1/2	120
● + 562.3270	1/2	120
● + 562.3272	1/2	120
● 562.3274	1/2	120
● + 562.3275	1/2	120
● + 562.3278	1/2	120
● + 562.3279	1/2	120
● 562.3283	1/2	120
● + 562.32832	1/2	120
● + 562.32833	1/2	120
● + 562.32834	1/2	120
● + 562.32836	1/2	120
● + 562.32838	1/2	120
● 562.3286	1/2	120
● + 562.32861	1/2	120
● + 562.32862	1/2	120
● + 562.32864	1/2	120
● + 562.32865	1/2	120
● + 562.32866	1/2	120
● + 562.32867	1/2	120
● 562.3287	1/2	120
● + 562.32872	1/2	120
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● + 562.32875	1/2	120
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● + 563.1683	1/2	121
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● + 563.16867	1/2	121
● 563.1687	1/2	121
● + 563.16872	1/2	121
● + 563.16874	1/2	121
● + 563.16875	1/2	121
● + 563.16876	1/2	121
● + 563.16877	1/2	121
● + 563.3270	1/2	121
● + 563.3272	1/2	121
● + 563.3274	1/2	121
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● 563.3286	1/2	121
● + 563.32861	1/2	121
● + 563.32862	1/2	121
● + 563.32864	1/2	121
● 563.32865	1/2	121
● + 563.32866	1/2	121
● + 563.32867	1/2	121
● 563.3287	1/2	121
● + 563.32872	1/2	121
● + 563.32874	1/2	121
● + 563.32875	1/2	121
● + 563.32876	1/2	121
● + 563.32877	1/2	121
● + 563.6370	1/4	121
● + 563.6372	1/4	121
● 563.6374	1/4	121
● + 563.6375	1/4	121
● + 563.6378	1/4	121
● + 563.6379	1/4	121
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● + 564.16861	1/2	124
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● + 564.3274	1/2	124
● + 564.3275	1/2	124
● + 564.3278	1/2	124
● + 564.3279	1/2	124
● + 564.3283	1/2	124
● + 564.32832	1/2	124
● + 564.32833	1/2	124
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● + 564.32836	1/2	124
● + 564.32838	1/2	124
● + 564.3286	1/2	124
● + 564.32861	1/2	124
● + 564.32862	1/2	124
● + 564.32864	1/2	124
● + 564.32865	1/2	124
● + 564.32866	1/2	124
● + 564.32867	1/2	124
● + 564.3287	1/2	124
● + 564.32872	1/2	124
● + 564.32874	1/2	124
● + 564.32875	1/2	124
● + 564.32876	1/2	124
● + 564.32877	1/2	124
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● + 564.6372	1/4	124
● + 564.6374	1/4	124
● + 564.6375	1/4	124
● + 564.6378	1/4	124
● + 564.6379	1/4	124
● + 564.6383	1/4	124
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● + 567.16861	1/4	122
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● + 567.16864	1/4	122
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● + 567.16866	1/4	122
● + 567.16867	1/4	122
● + 567.1687	1/4	122
● + 567.16872	1/4	122
● + 567.16874	1/4	122
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● + 568.3270	1/4	123
● + 568.3272	1/4	123
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● 568.32874	1/4	123
● 568.32875	1/4	123
● 568.32876	1/4	123
● 568.32877	1/4	123
● + 568.6370	1/4	123
● + 568.6372	1/4	123
● + 568.6374	1/4	123
● + 568.6375	1/4	123
● + 568.6378	1/4	123
● + 568.6379	1/4	123
● + 568.6383	1/4	123
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● + 569.16834	1/4	125
● + 569.16836	1/4	125
● + 569.16838	1/4	125
● 569.1686	1/4	125
● 569.16861	1/4	125
● + 569.16862	1/4	125
● + 569.16864	1/4	125
● + 569.16865	1/4	125
● + 569.16866	1/4	125
● + 569.16867	1/4	125
● + 569.1687	1/4	125
● + 569.16872	1/4	125
● + 569.16874	1/4	125
● + 569.16875	1/4	125
● + 569.16876	1/4	125
● + 569.16877	1/4	125
● + 569.3270	1/4	125
● + 569.3272	1/4	125
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● 569.32861	1/4	125
● + 569.32862	1/4	125
● 569.32864	1/4	125
● 569.32865	1/4	125
● + 569.32866	1/4	125
● + 569.32867	1/4	125
● 569.3287	1/4	125
● 569.32872	1/4	125
● + 569.32874	1/4	125
● + 569.32875	1/4	125
● + 569.32876	1/4	125
● + 569.32877	1/4	125
● + 569.6370	1/4	125
● + 569.6372	1/4	125
● + 569.6374	1/4	125
● + 569.6375	1/4	125
● + 569.6378	1/4	125
● + 569.6379	1/4	125
● + 569.6383	1/4	125
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● 570.2061	10/100	90
● 570.2062	10/100	90
● 570.2071	10/100	90
● 570.2081	10/100	90
● 570.2091	10/100	90
● + 570.2092	10/100	90
● 570.2093	10/100	90
● + 570.2561	10/100	90
● + 570.2591	10/100	90
● + 570.4041	10/100	90
● 570.4051	10/100	90
● 570.4061	10/100	90
● 570.4062	10/100	90
● + 570.4062-SW	10/100	0
● 570.4071	10/100	90
● 570.4081	10/100	90

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● 570.4091	10/100	90
● ✓ 570.4092	10/100	90
● 570.4093	10/100	90
● + 570.4141	9/90	90
● + 570.4151	9/90	90
● 570.4161	9/90	90
● 570.4162	9/90	90
● + 570.4171	9/90	90
● + 570.4181	9/90	90
● + 570.4191	9/90	90
● ✓ 570.4192	9/90	90
● + 570.4193	9/90	90
● 570.5012	10/100	92
● 570.5052	10/100	92
● + 570.6001	1/12	93
● 570.6011	5	93
● + 570.6403	1/12	93
● + 570.6404	1/12	93
● + 570.6405	1/12	93
● + 570.6407	1/12	93
● + 570.6411	1/12	93
● + 570.6413	1/12	93
● + 570.6414	1/12	93
● + 570.6417	1/12	93
● 570.6421	1/12	93
● + 570.6424	1/12	93
● + 570.6427	1/12	93
● + 570.6428	1/12	93
● + 570.6481.50	1/12	93
● 570.7180	1/12	91
● + 570.80163	10/100	182
● + 570.80164	10/100	182
● + 570.80165	10/100	182
● + 570.80324	10/100	182
● + 570.80325	10/100	182
● + 570.8063	10	182
● + 570.8125	10	182
● + 570.90163	10/100	43
● + 570.90164	10/100	43
● + 570.90165	10/100	43
● + 570.90324	10/100	43
● + 570.90325	10/100	43
● + 570.9063	10	43
● + 570.9125	10	43
● + 570.M0125	6	94
● 570.M0163	6	94

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● 572.0120	6	113
● 572.0200	6	110
● 572.0205	6	110
● 572.0210	6/60	110
● 572.0220	6/60	110
● ✓ 572.0308	1/6	111
● ✓ 572.0309	6	111
● 572.0310	6	111
● 572.0311	1	112
● 572.0312	1	113
● 572.0313	1	112

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● 572.0314	1	113
● 572.0315	1	112
● 572.0316	1	113
● + 572.0320	1/6	111
● + 572.0322	1/10	111
● + 572.0330	4	114
● + 572.3390	6	111

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● 576.4300	12	128
● 576.4301	12	128
● 576.4302	6	129
● 576.4303	12	129
● 576.4304	6	129
● 576.4305	6	129
● 576.4321	12	128
● 576.4322	6	129
● 576.4323	12	129
● 576.4324	6	129
● 576.4325	6	129
● 576.4340	6	128
● + 576.4390	6	129

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● 578.4300	12	130
● 578.4301	12	130
● 578.4302	6	131
● 578.4304	6	131
● 578.4305	6	131
● 578.4321	12	130
● 578.4322	6	131
● 578.4324	6	131
● 578.4325	6	131
● 578.4340	6	130

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● + 579.0021		145
● + 579.0022		145
● + 579.0030		145
● + 579.0031		145
● + 579.0040		145
● + 579.0100	12	146
● 579.0125	1	146
● 579.0200	1/12	146
● 579.0201	1/12	146
● 579.0332	12	146
● + 579.0400	12	147
● ✓ 579.0450	10	147
● 579.5001	10	147
● 579.5100	1	143
● 579.5110	1	143
● 579.5111	1	144
● 579.5120	1	143

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● 579.5121	1	144
● 579.5200	1	143
● 579.5210	1	143
● 579.5211	1	144

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● + 590.BK040	12	262
● + 590.BK040H	12	262
● + 590.BK080	5	262
● + 590.BK080H	5	262
● + 590.DC0416	6	224
● + 590.DC0815	6	224
● + 590.DC0820	6	224
● + 590.DC0825	6	224
● + 590.DC0830	6	224
● + 590.DC0840	6	224
● 590.DCGE0416	1/12	253
● 590.DCGE0815	1/10	253
● 590.DCGE0820	1/10	253
● 590.DCGE0825	1/5	253
● 590.DCGE0830	1/5	253
● 590.DCGE0840	1	253
● + 590.EL10003	1/5	241
● + 590.EL10005	1/5	241
● + 590.EL1606	1/5	239
● + 590.EL1608	1/5	239
● + 590.EL2012	1/12	239
● + 590.EL2013	1/12	239
● + 590.EL2015	1/12	239
● + 590.EL2506	1/5	239
● + 590.EL2508	1/5	239
● + 590.EL3206	1/5	239
● + 590.EL3208	1/5	239
● + 590.EL3212	1/12	239
● + 590.EL3213	1/12	239
● + 590.EL3215	1/12	239
● + 590.EL4006	1/5	239
● + 590.EL4008	1/5	239
● + 590.EL4012	1/12	239
● + 590.EL4013	1/12	239
● + 590.EL4015	1/12	239
● + 590.EL6302	1/5	241
● + 590.EL6303	1/5	241
● + 590.EL6305	1/5	241
● + 590.EL8002	1/5	241
● + 590.EL8003	1/5	241
● + 590.EL8005	1/5	241
● 590.EM10003	1/5	242
● + 590.EM10005	1/5	242
● + 590.EM10006	1	242
● + 590.EM10008	1	242
● + 590.EM12503	1	242
● + 590.EM12505	1	242
● + 590.EM12506	1	242
● + 590.EM12508	1	242
● + 590.EM16003	1	242
● + 590.EM16005	1	242
● + 590.EM16006	1	242
● + 590.EM16008	1	242

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● 590.EM1606	1/5	240
● 590.EM1608	1/5	240
● 590.EM2002	1/12	238
● 590.EM2003	1/12	238
● 590.EM2004	1/12	238
● 590.EM2005	1/12	238
● 590.EM2012	1/12	240
● 590.EM2013	1/12	240
● 590.EM2014	1/12	240
● 590.EM2015	1/12	240
● 590.EM2506	1/5	240
● 590.EM2508	1/5	240
● 590.EM3202	1/12	238
● 590.EM3203	1/12	238
● 590.EM3204	1/12	238
● 590.EM3205	1/12	238
● 590.EM3206	1/5	240
● 590.EM3208	1/5	240
● 590.EM3212	1/12	240
● 590.EM3213	1/12	240
● 590.EM3214	1/12	240
● 590.EM3215	1/12	240
● + 590.EM4002	1/12	238
● + 590.EM4003	1/12	238
● + 590.EM4004	1/12	238
● 590.EM4005	1/12	238
● 590.EM4006	1/5	240
● 590.EM4008	1/5	240
● + 590.EM4012	1/12	240
● + 590.EM4013	1/12	240
● 590.EM4014	1/12	240
● 590.EM4015	1/12	240
● + 590.EM6302	1/5	242
● 590.EM6303	1/5	242
● 590.EM6304	1/5	242
● + 590.EM6305	1/5	242
● + 590.EM6306	1	242
● + 590.EM6308	1	242
● + 590.EM8002	1/5	242
● + 590.EM8003	1/5	242
● + 590.EM8004	1/5	242
● + 590.EM8005	1/5	242
● + 590.EM8006	1	242
● + 590.EM8008	1	242
● ✓ 590.EMB10003		254
● ✓ 590.EMB10005		254
● ✓ 590.EMB12503		254
● ✓ 590.EMB12505		254
● ✓ 590.EMB16003		254
● ✓ 590.EMB16005		254
● ✓ 590.EMB6303		254
● ✓ 590.EMB6305		254
● ✓ 590.EMB8003		254
● ✓ 590.EMB8005		254
● ✓ 590.EMD10003		254
● ✓ 590.EMD10005		254
● ✓ 590.EMD12503		254
● ✓ 590.EMD12505		254
● ✓ 590.EMD16003		254
● ✓ 590.EMD16005		254
● ✓ 590.EMD6303		254
● ✓ 590.EMD6305		254

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● ✓ 590.EMD8005		254	● + 590.GE3206	1/5	239	● ✓ 590.GEF3204		254	● + 590.HEM2005	1/12	246
✓ 590.EMF1602		254	● + 590.GE3208	1/5	239	● ✓ 590.GEF3205	1	254	● + 590.HEM2506	1/5	246
● ✓ 590.EMF1603		254	● + 590.GE3212	1/12	239	● + 590.GR2002	1/12	237	● + 590.HEM2508	1/5	246
● ✓ 590.EMF1604		254	● + 590.GE3213	1/12	239	● + 590.GR2003	1/12	237	● + 590.HEM3202	1/12	246
● ✓ 590.EMF1605		254	● + 590.GE3214	1/12	239	● + 590.GR2004	1/12	237	● + 590.HEM3203	1/12	246
● ✓ 590.EMF3202		254	● + 590.GE3215	1/12	239	● + 590.GR2005	1/12	237	● 590.HEM3204	1/12	246
● ✓ 590.EMF3203		254	● + 590.GE3221	1/12	243	● + 590.GR3202	1/12	237	● + 590.HEM3205	1/12	246
● ✓ 590.EMF3204		254	● + 590.GE4002	1/12	238	● + 590.GR3203	1/12	237	● + 590.HEM3206	1/5	246
● ✓ 590.EMF3205		254	● + 590.GE4003	1/12	238	● + 590.GR3204	1/12	237	● + 590.HEM3208	1/5	246
● + 590.ER2002	1/12	237	● ✓ 590.GE4003-C	1/5	259	● + 590.GR3205	1/12	237	● + 590.HEM4002	1/12	246
● + 590.ER2003	1/12	237	● + 590.GE4004	1/12	238	● 590.GR4002	1/12	237	● 590.HEM4003	1/12	246
● + 590.ER2004	1/12	237	● + 590.GE4005	1/12	238	● 590.GR4003	1/12	237	● + 590.HEM4004	1/12	246
● + 590.ER2005	1/12	237	● ✓ 590.GE4005-C	1/5	259	● 590.GR4004	1/12	237	● + 590.HEM4005	1/12	246
● + 590.ER3202	1/12	237	● + 590.GE4006	1/5	239	● ✓ 590.GR4005	1/12	237	● + 590.HEM4006	1/5	246
● + 590.ER3203	1/12	237	● + 590.GE4008	1/5	239	● + 590.HEL10003	1/5	247	● + 590.HEM4008	1/5	246
● + 590.ER3204	1/12	237	● + 590.GE4012	1/12	239	● + 590.HEL10005	1/5	247	● + 590.HEM6302	1/5	248
● + 590.ER3205	1/12	237	● + 590.GE4013	1/12	239	● + 590.HEL1606	1/5	245	● + 590.HEM6303	1/5	248
● 590.ER4002	1/12	237	● + 590.GE4014	1/12	239	● + 590.HEL1608	1/5	245	● + 590.HEM6304	1/5	248
● 590.ER4003	1/12	237	● + 590.GE4015	1/12	239	● + 590.HEL2002	1/12	245	● + 590.HEM6305	1/5	248
● 590.ER4004	1/12	237	● 590.GE4021	1/12	243	● + 590.HEL2003	1/12	245	● + 590.HEM6306	1	248
● ✓ 590.ER4005	1/12	237	● 590.GE4021	1/12	243	● + 590.HEL2005	1/12	245	● + 590.HEM6308	1	248
● + 590.GE10003	1/5	241	● + 590.GE6302	1/5	241	● + 590.HEL2506	1/5	245	● + 590.HEM8002	1/5	248
● ✓ 590.GE10003-C	1	259	● ✓ 590.GE6303	1/5	241	● + 590.HEL2508	1/5	245	● + 590.HEM8003	1/5	248
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● + 590.GE10006	1	241	● + 590.GE6305	1/5	241	● + 590.HEL3203	1/12	245	● + 590.HEM8006	1	248
● + 590.GE10008	1	241	● ✓ 590.GE6305-C	1	259	● + 590.HEL3205	1/12	245	● + 590.HEM8008	1	248
● + 590.GE12503	1	241	● + 590.GE6306	1	241	● + 590.HEL3206	1/5	245	● ✓ 590.HEMB6303		255
● ✓ 590.GE12503-C	1	259	● + 590.GE6308	1	241	● + 590.HEL3208	1/5	245	● ✓ 590.HEMB6305		255
● + 590.GE12505	1	241	● + 590.GE8002	1/5	241	● + 590.HEL4002	1/12	245	● ✓ 590.HEMB6305		255
● + 590.GE12505-C	1	259	● + 590.GE8003	1/5	241	● + 590.HEL4003	1/12	245	● ✓ 590.HEMB8003		255
● + 590.GE12506	1	241	● ✓ 590.GE8003-C	1	259	● + 590.HEL4005	1/12	245	● ✓ 590.HEMB8005		255
● + 590.GE12508	1	241	● + 590.GE8004	1/5	241	● + 590.HEL4006	1/5	245	● ✓ 590.HEMD6303		255
● + 590.GE16003	1	241	● + 590.GE8005	1/5	241	● + 590.HEL4008	1/5	245	● ✓ 590.HEMD6305		255
● ✓ 590.GE16003-C	1	259	● ✓ 590.GE8005-C	1	259	● + 590.HEL6302	1/5	247	● ✓ 590.HEMD8003		255
● + 590.GE16005	1	241	● + 590.GE8006	1	241	● + 590.HEL6303	1/5	247	● ✓ 590.HEMD8005		255
● ✓ 590.GE16005-C	1	259	● + 590.GE8008	1	241	● + 590.HEL6305	1/5	247	✓ 590.HEMF1602		255
● + 590.GE16006	1	241	● ✓ 590.GEB10003		254	● + 590.HEL8002	1/5	247	● ✓ 590.HEMF1603		255
● + 590.GE16008	1	241	● ✓ 590.GEB10005		254	● + 590.HEL8003	1/5	247	● ✓ 590.HEMF1604		255
● ✓ 590.GE1603-C	1/5	259	● ✓ 590.GEB12503		254	● + 590.HEL8005	1/5	247	● ✓ 590.HEMF1605		255
● ✓ 590.GE1605-C	1/5	259	● ✓ 590.GEB12505		254	● + 590.HEM10003	1/5	248	● ✓ 590.HEMF3202		255
● + 590.GE1606	1/5	239	● ✓ 590.GEB16003		254	● ✓ 590.HEM10003.W	1	249	● ✓ 590.HEMF3203		255
● + 590.GE1608	1/5	239	● ✓ 590.GEB16005		254	● + 590.HEM10005	1/5	248	● ✓ 590.HEMF3204		255
● + 590.GE2002	1/12	238	✓ 590.GEB6303		254	● ✓ 590.HEM10005.W	1	249	● ✓ 590.HEMF3205		255
● + 590.GE2003	1/12	238	● ✓ 590.GEB6305		254	● + 590.HEM10006	1	248	● + 590.HGE10003	1/5	247
● + 590.GE2004	1/12	238	● ✓ 590.GEB8003		254	● + 590.HEM10008	1	248	● ✓ 590.HGE10003-C	1	260
● + 590.GE2005	1/12	238	● ✓ 590.GEB8005		254	● + 590.HEM12503	1	248	● ✓ 590.HGE10003.W	1	249
● + 590.GE2012	1/12	239	● ✓ 590.GED10003		254	● ✓ 590.HEM12503.W	1	249	● + 590.HGE10005	1/5	247
● + 590.GE2013	1/12	239	● ✓ 590.GED10005		254	● + 590.HEM12505	1	248	● ✓ 590.HGE10005-C	1	260
● 590.GE2014	1/12	239	● ✓ 590.GED12503		254	● ✓ 590.HEM12505.W	1	249	● ✓ 590.HGE10005.W	1	249
● + 590.GE2015	1/12	239	● ✓ 590.GED12505		254	● + 590.HEM12506	1	248	● + 590.HGE10006	1	247
● 590.GE2021	1/12	243	● ✓ 590.GED16003		254	● + 590.HEM12508	1	248	● + 590.HGE10008	1	247
● ✓ 590.GE2503-C	1/5	259	● ✓ 590.GED16005	1	254	● + 590.HEM16003	1	248	● + 590.HGE12503	1	247
● ✓ 590.GE2505-C	1/5	259	✓ 590.GED6303		254	● ✓ 590.HEM16003.W	1	249	● ✓ 590.HGE12503-C	1	260
● + 590.GE2506	1/5	239	● ✓ 590.GED6305		254	● + 590.HEM16005	1	248	● ✓ 590.HGE12503.W	1	249
● + 590.GE2508	1/5	239	● ✓ 590.GED8003		254	● + 590.HEM16005.W	1	249	● + 590.HGE12505	1	247
● + 590.GE3202	1/12	238	● ✓ 590.GED8005	1	254	● + 590.HEM16006	1	248	● ✓ 590.HGE12505-C	1	260
● + 590.GE3203	1/12	238	✓ 590.GEF1602		254	● + 590.HEM16008	1	248	● ✓ 590.HGE12505.W	1	249
● ✓ 590.GE3203-C	1/5	259	● ✓ 590.GEF1603		254	● + 590.HEM1606	1/5	246	● + 590.HGE12506	1	247
● + 590.GE3204	1/12	238	● ✓ 590.GEF1604		254	● + 590.HEM1608	1/5	246	● + 590.HGE12508	1	247
● + 590.GE3205	1/12	238	● ✓ 590.GEF1605		254	● + 590.HEM2002	1/12	246	● + 590.HGE16003	1	247
			● ✓ 590.GEF3202		254	● + 590.HEM2003	1/12	246	● ✓ 590.HGE16003-C	1	260

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● + 590.HGE16005	1	247
● ✓ 590.HGE16005-C	1	260
● ✓ 590.HGE16005.W	1	249
● + 590.HGE16006	1	247
● + 590.HGE16008	1	247
● ✓ 590.HGE1603-C	1/5	260
● ✓ 590.HGE1605-C	1/5	260
● + 590.HGE1606	1/5	245
● + 590.HGE1608	1/5	245
● 590.HGE2002	1/12	245
● + 590.HGE2003	1/12	245
● 590.HGE2004	1/12	245
● + 590.HGE2005	1/12	245
● ✓ 590.HGE2503-C	1/5	260
● ✓ 590.HGE2505-C	1/5	260
● + 590.HGE2506	1/5	245
● + 590.HGE2508	1/5	245
● 590.HGE3202	1/12	245
● + 590.HGE3203	1/12	245
● ✓ 590.HGE3203-C	1/5	260
● 590.HGE3204	1/12	245
● + 590.HGE3205	1/12	245
● ✓ 590.HGE3205-C	1/5	260
● + 590.HGE3206	1/5	245
● + 590.HGE3208	1/5	245
● + 590.HGE4002	1/12	245
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● ✓ 590.HGE4003-C	1/5	260
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● + 590.HGE4005	1/12	245
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● + 590.HGE4006	1/5	245
● + 590.HGE4008	1/5	245
● + 590.HGE6302	1/5	247
● + 590.HGE6303	1/5	247
● ✓ 590.HGE6303-C	1	260
● 590.HGE6304	1/5	247
● + 590.HGE6305	1/5	247
● ✓ 590.HGE6305-C	1	260
● + 590.HGE6306	1	247
● + 590.HGE6308	1	247
● + 590.HGE8002	1/5	247
● + 590.HGE8003	1/5	247
● ✓ 590.HGE8003-C	1	260
● + 590.HGE8004	1/5	247
● + 590.HGE8005	1/5	247
● ✓ 590.HGE8005-C	1	260
● + 590.HGE8006	1	247
● + 590.HGE8008	1	247
● ✓ 590.HGEB6303	255	
● ✓ 590.HGEB6305	255	
● ✓ 590.HGEB8003	255	
● ✓ 590.HGEB8005	255	
● ✓ 590.HGED6303	255	
● ✓ 590.HGED6305	255	
● ✓ 590.HGED8003	255	
● ✓ 590.HGED8005	1	255
● ✓ 590.HGEF1602	255	
● ✓ 590.HGEF1603	255	
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● ✓ 590.HGEF1605	255	

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● + 590.JEM2003	1/12	244
● + 590.JEM2005	1/12	244
● + 590.JEM3202	1/12	244
● + 590.JEM3203	1/12	244
● + 590.JEM3205	1/12	244
● + 590.JEM4002	1/12	244
● + 590.JEM4003	1/12	244
● + 590.JEM4005	1/12	244
● + 590.JGE2002	1/12	244
● + 590.JGE2003	1/12	244
● + 590.JGE2005	1/12	244
● + 590.JGE3202	1/12	244
● + 590.JGE3203	1/12	244
● + 590.JGE3205	1/12	244
● + 590.JGE4002	1/12	244
● + 590.JGE4003	1/12	244
● + 590.JGE4005	1/12	244
● ✓ 590.K100003B	1	223
● ✓ 590.K100005B	1	223
● ✓ 590.K125003B	1	223
● ✓ 590.K125005B	1	223
● ✓ 590.K160003B	1	223
● ✓ 590.K160005B	1	223
● ✓ 590.K16003B	1	223
● ✓ 590.K16005B	1	223
● ✓ 590.K20003B	1	223
● ✓ 590.K20005B	1	223
● ✓ 590.K25003B	1	223
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● ✓ 590.K31503B	1	223
● ✓ 590.K31505B	1	223
● ✓ 590.K40003B	1	223
● ✓ 590.K40005B	1	223
● ✓ 590.K50003B	1	223
● ✓ 590.K50005B	1	223
● ✓ 590.K63003B	1	223
● ✓ 590.K63005B	1	223
● ✓ 590.K80003B	1	223
● ✓ 590.K80005B	1	223
● ✓ 590.KEM100003	1	251
● ✓ 590.KEM100005	1	251
● ✓ 590.KEM125003	1	251
● ✓ 590.KEM125005	1	251
● ✓ 590.KEM160003	1	251
● ✓ 590.KEM160005	1	251
● ✓ 590.KEM16003	1	251
● ✓ 590.KEM16005	1	251
● ✓ 590.KEM20003	1	251
● ✓ 590.KEM20005	1	251
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● ✓ 590.KEM25005	1	251
● ✓ 590.KEM31503	1	251
● ✓ 590.KEM31505	1	251
● ✓ 590.KEM40003	1	251
● ✓ 590.KEM40005	1	251
● ✓ 590.KEM50003	1	251
● ✓ 590.KEM50005	1	251

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● ✓ 590.KEM63003	1	251
● ✓ 590.KEM63005	1	251
● ✓ 590.KEM80003	1	251
● ✓ 590.KEM80005	1	251
● ✓ 590.KEMB10003	257	
● ✓ 590.KEMB10005	257	
● ✓ 590.KEMB12503	257	
● ✓ 590.KEMB12505	257	
● ✓ 590.KEMB16003	257	
● ✓ 590.KEMB16005	257	
● ✓ 590.KEMB20003	257	
● ✓ 590.KEMB20005	257	
● ✓ 590.KEMB25003	257	
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● ✓ 590.KEMB31503	257	
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● ✓ 590.KEMB40003	257	
● ✓ 590.KEMB40005	257	
● ✓ 590.KEMB63003	257	
● ✓ 590.KEMB63005	257	
● ✓ 590.KEMD10003	256	
● ✓ 590.KEMD10005	256	
● ✓ 590.KEMD12503	256	
● ✓ 590.KEMD12505	256	
● ✓ 590.KEMD16003	256	
● ✓ 590.KEMD16005	256	
● ✓ 590.KEMD20003	256	
● ✓ 590.KEMD20005	256	
● ✓ 590.KEMD25003	256	
● ✓ 590.KEMD25005	256	
● ✓ 590.KEMD31503	256	
● ✓ 590.KEMD31505	256	
● ✓ 590.KEMD40003	256	
● ✓ 590.KEMD40005	256	
● ✓ 590.KEMD63003	256	
● ✓ 590.KEMD63005	256	
● ✓ 590.KFB10003B	1	225
● ✓ 590.KFB10005B	1	225
● ✓ 590.KFB12503B	1	225
● ✓ 590.KFB12505B	1	225
● ✓ 590.KFB16003B	1	225
● ✓ 590.KFB16005B	1	225
● ✓ 590.KFB20003B	1	225
● ✓ 590.KFB20005B	1	225
● ✓ 590.KFB25003B	1	225
● ✓ 590.KFB25005B	1	225
● ✓ 590.KFB31503B	1	225
● ✓ 590.KFB31505B	1	225
● ✓ 590.KFB40003B	1	225
● ✓ 590.KFB40005B	1	225
● ✓ 590.KFB63003B	1	225
● ✓ 590.KFB63005B	1	225
● ✓ 590.KFB6303B	1	225
● ✓ 590.KFB6305B	1	225
● ✓ 590.KFB8003B	1	225
● ✓ 590.KFB8005B	1	225
● ✓ 590.KFD10003B	1	226
● ✓ 590.KFD10005B	1	226
● ✓ 590.KFD12503B	1	226
● ✓ 590.KFD12505B	1	226
● ✓ 590.KFD16003B	1	226
● ✓ 590.KFD16005B	1	226

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● ✓ 590.KFD20005B	1	226
● ✓ 590.KFD25003B	1	226
● ✓ 590.KFD25005B	1	226
● ✓ 590.KFD31503B	1	226
● ✓ 590.KFD31505B	1	226
● ✓ 590.KFD40003B	1	226
● ✓ 590.KFD40005B	1	226
● ✓ 590.KFD63003B	1	226
● ✓ 590.KFD63005B	1	226
● ✓ 590.KFD6303B	1	226
● ✓ 590.KFD6305B	1	226
● ✓ 590.KFD8003B	1	226
● ✓ 590.KFD8005B	1	226
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● ✓ 590.KFS4	1/10	235
● ✓ 590.KFS5	1/10	235
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● + 590.KGE100003B	1	252
● + 590.KGE100005	1	251
● + 590.KGE100005B	252	
● + 590.KGE125003	1	251
● + 590.KGE125003B	1	252
● + 590.KGE125005	1	251
● + 590.KGE125005B	252	
● + 590.KGE160003	1	251
● + 590.KGE160003B	1	252
● + 590.KGE160005	1	251
● + 590.KGE160005B	252	
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● ✓ 590.KGE16003B	1	252
● ✓ 590.KGE16005	1	251
● ✓ 590.KGE16005B	1	252
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● + 590.KGE20005	1	251
● + 590.KGE20005B	1	252
● + 590.KGE25003	1	251
● + 590.KGE25003B	1	252
● + 590.KGE25005	1	251
● + 590.KGE25005B	1	252
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● + 590.KGE31505B	1	252
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● + 590.KGE40005B	1	252
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● + 590.KGE50005	1	251
● + 590.KGE50005B	1	252
● + 590.KGE63003	1	251
● + 590.KGE63003B	1	252
● + 590.KGE63005	1	251
● + 590.KGE63005B	1	252
● + 590.KGE80003	1	251
● + 590.KGE80003B	1	252
● + 590.KGE80005	1	251

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● + 590.KGEB0005B	1	252	● ✓ 590.KMM300GE	10	232	● + 590.PSCR8DOC	10	267	● + 590.SGE3202	1/12	250
● ✓ 590.KGEB10003		257	● ✓ 590.KMM500EM	10	232	● + 590.PSCR8TOC	10	267	● 590.SGE3203	1/12	250
● ✓ 590.KGEB10003B		258	● ✓ 590.KMM500GE	10	232	● 590.PSLN8D0	1/10	267	● ✓ 590.SGE3203-C	1/12	261
● ✓ 590.KGEB10005		257	● ✓ 590.KMM550EM	10	232	● + 590.PSLN8D2	1/10	267	● + 590.SGE3205	1	250
● ✓ 590.KGEB10005B		258	● ✓ 590.KMM550GE	10	232	● 590.PSLN8T0	1/10	267	● ✓ 590.SGE3205-C	1/12	261
● ✓ 590.KGEB12503		257	● ✓ 590.KMM600EM	10	232	● 590.PSLN8T3	1/10	267	● 590.SGE3206	1/12	250
● ✓ 590.KGEB12503B		258	● ✓ 590.KMM600GE	10	232	● + 590.PTA00	10/100	269	● + 590.SGE4002	1/12	250
● ✓ 590.KGEB12505		257	● ✓ 590.KMT11	10	234	● + 590.PTE/A	10/100	270	● 590.SGE4003	1	250
● ✓ 590.KGEB12505B		258	● ✓ 590.KMT12	10	234	● 590.PTE/I	10/100	270	● ✓ 590.SGE4003-C	1/12	261
● ✓ 590.KGEB16003		257	● ✓ 590.KMT21	10	234	● + 590.PTRN8	10/100	270	● + 590.SGE4005	1/12	250
● ✓ 590.KGEB16003B		258	● ✓ 590.KMT22	10	234	● 590.SEM10003	1/5	250	● ✓ 590.SGE4005-C	1/12	261
● ✓ 590.KGEB16005		257	● ✓ 590.KMT31	10	234	● + 590.SEM10005	1/5	250	● 590.SGE4006	1	250
● ✓ 590.KGEB16005B		258	● ✓ 590.KMT32	10	234	● 590.SEM10006	1/5	250	● 590.SGE6303	1	250
● ✓ 590.KGEB20003		257	● ✓ 590.KMT41	10	234	● 590.SEM12503	1/5	250	● ✓ 590.SGE6303-C	1/12	261
● ✓ 590.KGEB20003B		258	● ✓ 590.KMT42	10	234	● + 590.SEM12505	1/5	250	● + 590.SGE6305	1	250
● ✓ 590.KGEB20005		257	● ✓ 590.KMT51	10	234	● 590.SEM12506	1/5	250	● ✓ 590.SGE6305-C	1/12	261
● ✓ 590.KGEB20005B		258	● ✓ 590.KMT52	10	234	● 590.SEM16003	1	250	● 590.SGE6306	1/5	250
● ✓ 590.KGEB25003		257	● + 590.PCF	10	269	● + 590.SEM16005	1	250	● 590.SGE8003	1/5	250
● ✓ 590.KGEB25003B		258	● 590.PG1M9W01	12	272	● 590.SEM16006	1	250	● ✓ 590.SGE8003-C	1/12	261
● ✓ 590.KGEB25005		257	● + 590.PG8M9W10	12	272	● 590.SEM1606	1/12	250	● + 590.SGE8005	1/5	250
● ✓ 590.KGEB25005B		258	● 590.PL004001	10/60	117	● + 590.SEM2002	1/12	250	● ✓ 590.SGE8005-C	1/12	261
● ✓ 590.KGEB31503		257	● 590.PL004002	10/60	117	● 590.SEM2003	1/12	250	● 590.SGE8006	1/5	250
● ✓ 590.KGEB31505		257	● + 590.PL004003	10	117	● + 590.SEM2005	1	250	● + 590.YA1003B	6	221
● ✓ 590.KGEB40003		257	● + 590.PL004004	10	117	● 590.SEM2506	1/12	250	● ✓ 590.YA1003B-C	6	227
● ✓ 590.KGEB40005		257	● + 590.PL004007	10/60	268	● + 590.SEM3202	1/12	250	● + 590.YA1003R	6	222
● ✓ 590.KGEB63003		257	● 590.PL005	50	236	● 590.SEM3203	1/12	250	● + 590.YA1004B	6	221
● ✓ 590.KGEB63005		257	● 590.PL006011	10	236	● + 590.SEM3205	1	250	● + 590.YA1004R	6	222
● ✓ 590.KGED10003		256	● 590.PL006012	10	236	● 590.SEM3206	1/12	250	● + 590.YA1005B	6	221
● ✓ 590.KGED10003B		258	● 590.PL006013	10	236	● + 590.SEM4002	1/12	250	● ✓ 590.YA1005B-C	6	227
● ✓ 590.KGED10005		256	● 590.PL006021	10	236	● 590.SEM4003	1/12	250	● + 590.YA1006B	6	221
● ✓ 590.KGED10005B		258	● 590.PL006022	10	236	● + 590.SEM4005	1/12	250	● + 590.YA1008B	6	221
● ✓ 590.KGED12503		256	● 590.PL006023	10	236	● 590.SEM4006	1/12	250	● + 590.YA1253B	6	221
● ✓ 590.KGED12503B		258	● 590.PLML1L220	10	268	● 590.SEM6303	1/5	250	● ✓ 590.YA1253B-C	6	227
● ✓ 590.KGED12505		256	● 590.PLML2L220	10	268	● + 590.SEM6305	1/5	250	● 590.YA1255B	6	221
● ✓ 590.KGED12505B		258	● 590.PLML3L220	10	268	● 590.SEM6306	1/5	250	● ✓ 590.YA1255B-C	6	227
● ✓ 590.KGED16003		256	● 590.PLML4L220	10	268	● 590.SEM8003	1/5	250	● + 590.YA1256B	6	221
● ✓ 590.KGED16003B		258	● 590.PLML5L220	10	268	● + 590.SEM8005	1/5	250	● + 590.YA1258B	6	221
● ✓ 590.KGED16005	1	256	● 590.PPFN1C4N	1/10	266	● 590.SEM8006	1/5	250	● + 590.YA1603B	5	221
● ✓ 590.KGED16005B	1	258	● 590.PPFN1M4N	1/10	266	● 590.SGE10003	1/5	250	● ✓ 590.YA1603B-C	6	227
● ✓ 590.KGED20003		256	● 590.PPFN1R4N	1/10	266	● ✓ 590.SGE10003-C	1/12	261	● + 590.YA1605B	5	221
● ✓ 590.KGED20003B		258	● 590.PPFN1R6N	1/10	266	● + 590.SGE10005	1/5	250	● ✓ 590.YA1605B-C	6	227
● ✓ 590.KGED20005		256	● 590.PPRL2	1/10	266	● ✓ 590.SGE10005-C	1/12	261	● + 590.YA1606B	6	221
● ✓ 590.KGED20005B		258	● 590.PPRL5	1/10	266	● 590.SGE10006	1	250	● + 590.YA1608B	6	221
● ✓ 590.KGED25003		256	● 590.PPRN1	1/10	265	● 590.SGE12503	1/5	250	● + 590.YA162B	6	220
● ✓ 590.KGED25003B		258	● 590.PPRN2	1/10	265	● ✓ 590.SGE12503-C	1/12	261	● 590.YA162R	6	222
● ✓ 590.KGED25005	1	256	● + 590.PPRN5	1/10	265	● + 590.SGE12505	1/5	250	● 590.YA163B	6	220
● ✓ 590.KGED25005B	1	258	● 590.PPRN8	1/10	265	● ✓ 590.SGE12505-C	1/12	261	● ✓ 590.YA163B-C	6	227
● ✓ 590.KGED31503		256	● + 590.PPSN1	1/10	265	● 590.SGE12506	1/5	250	● + 590.YA163R	6	222
● ✓ 590.KGED31505		256	● + 590.PPSN8	1/10	265	● 590.SGE16003	1	250	● 590.YA164B	6	220
● ✓ 590.KGED40003		256	● 590.PPTN8	10/100	269	● ✓ 590.SGE16003-C	1/12	261	● 590.YA164R	6	222
● ✓ 590.KGED40005	1	256	● 590.PRO1C4N	1/12	273	● + 590.SGE16005	1	250	● + 590.YA165B	6	220
● ✓ 590.KGED63003		256	● 590.PRO1K	1/12	271	● ✓ 590.SGE16005-C	1/12	261	● ✓ 590.YA165B-C	6	227
● ✓ 590.KGED63005	1	256	● 590.PRO1R4N	1/12	273	● 590.SGE16006	1	250	● + 590.YA165R	6	222
● ✓ 590.KMA200A	10	233	● 590.PRO1R4S	1/12	273	● ✓ 590.SGE1603-C	1/12	261	● + 590.YA166B	6	220
● ✓ 590.KMA200B	10	233	● 590.PRO1R6N	12	272	● ✓ 590.SGE1605-C	1/12	261	● + 590.YA168B	6	220
● ✓ 590.KMA300A	10	233	● + 590.PRO1RN8	1/12	272	● 590.SGE1606	1/12	250	● + 590.YA202B	6	220
● ✓ 590.KMA300B	10	233	● 590.PRO2A	1/10	272	● + 590.SGE2002	1/12	250	● + 590.YA203B	6	220
● ✓ 590.KMA400A	10	233	● 590.PRO2K	1/10	271	● 590.SGE2003	1/12	250	● + 590.YA204B	6	220
● ✓ 590.KMA400B	10	233	● 590.PRO3A	1/10	272	● + 590.SGE2005	1/12	250	● + 590.YA205B	6	220
● ✓ 590.KMM100EM	10	232	● 590.PRO3K	1/10	271	● ✓ 590.SGE2503-C	1/12	261	● ✓ 590.YA253B-C	6	227
● ✓ 590.KMM100GE	10	232	● 590.PRO4K		271	● ✓ 590.SGE2505-C	1/12	261	● ✓ 590.YA255B-C	6	227
● ✓ 590.KMM300EM	10	232	● 590.PRO6K		271	● + 590.SGE2506	1/12	250	● + 590.YA256B	6	220

● = IMQ or other quality marks ✓ = new product + = make to order

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● + 590.YA258B	6	220
● + 590.YA322B	6	220
● + 590.YA322R	6	222
● 590.YA323B	6	220
● ✓ 590.YA323B-C	6	227
● 590.YA323R	6	222
● 590.YA324B	6	220
● 590.YA324R	6	222
● + 590.YA325B	6	220
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● + 590.YA325R	6	222
● + 590.YA326B	6	220
● + 590.YA328B	6	220
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● + 590.YA402R	6	222
● + 590.YA403B	6	220
● ✓ 590.YA403B-C	6	227
● + 590.YA403R	6	222
● + 590.YA404B	6	220
● + 590.YA404R	6	222
● + 590.YA405B	6	220
● ✓ 590.YA405B-C	6	227
● + 590.YA405R	6	222
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● + 590.YA408B	6	220
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● + 590.YA804B	6	221
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● + 590.YA805B	6	221
● ✓ 590.YA805B-C	6	227
● + 590.YA805R	6	222
● + 590.YA806B	6	221
● + 590.YA808B	6	221
● + 590.YF162B	6	224
● 590.YF163B	6	224
● 590.YF164B	6	224
● 590.YF165B	6	224
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● 590.YF323B	6	224
● + 590.YF324B	6	224
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● + 590.YM48R1	1/10	228
● 590.YM48R2	1/10	228
● + 590.YM49B1	1/10	228

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● 590.YM50R1	10	228
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● + 590.YM51B1	10	228
● 590.YM51B2	10	228
● + 590.YM51R1	10	228
● + 590.YM51R2	10	228
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● + 590.YMA070	10/100	233
● + 590.YMA085	10/100	233
● + 590.YMA101	10/100	233
● ✓ 590.YMA102		0
● 590.YMA185	10/100	233
● + 590.YMA201	10/100	233
● ✓ 590.YMA202		0
● 590.YMA300	10	233
● + 590.YMA301	10/100	233
● ✓ 590.YMA302		0
● + 590.YMB085	10/100	233
● + 590.YMB185	10/100	233
● + 590.YMB300	10	233
● + 590.YMC1	10	230
● + 590.YMC2	10	230
● + 590.YMDIN	10	231
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● + 600.1629	1/6	431

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● 602.3005-215	1/6	434
● 602.3505-059	1/6	434
● 602.3505-061	1/6	434
● 602.3505-062	1/6	434
● 602.3505-063	1/6	434
● 602.3505-064	1/6	434
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● 603.3005-062	1/10	433
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● 603.83505-061	1/10	183
● 603.83505-062	1/10	183
● 603.83505-063		183
● 603.83505-064		183

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Cat.num.	Pack qty.	Page
● 604.1623/C	1/6	432
● 604.1626/C	1/6	432
● + 604.1626/I-C	1/6	432
● + 604.1627/C	1/6	432
● 604.1629/C	1/6	432
● 604.3226/C	1/6	432
● 604.3227/C	1/6	432

605		
Cat.num.	Pack qty.	Page
● 605.1623/C	1/6	432
● + 605.1626/C	1/6	432
● + 605.1627/C	1/6	432
● + 605.1629/C	1/6	432
● 605.3226/C	1/6	432
● 605.3227/C	1/6	432

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Cat.num.	Pack qty.	Page
● 606.3005-059	1/6	432
● 606.3005-062	1/6	432
● 606.3005-063	1/6	432
● + 606.3005-479	1/6	432
● + 606.3015-059	1/6	433
● 606.3015-062	1/6	433
● + 606.3015-063	1/6	433
● 606.3015-479	1/6	433
● + 606.3015-740	6	433
● 606.3505-059	1/6	432
● 606.3505-062	1/6	432
● 606.3505-063	1/6	432
● 606.3505-479	1/6	432
● 606.3515-059	1/6	433
● 606.3515-062	1/6	433
● 606.3515-063	1/6	433
● 606.3515-479	1/6	433

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Cat.num.	Pack qty.	Page
● + 610.3444	10/50	430
● 610.3464	10	430
● 610.3646	10/50	430
● 610.3666	10	430
● 610.367	10/100	428
● 610.368	10/100	426
● + 610.368	10/100	426
● + 610.369	10/100	429
● 610.370	10/100	426
● 610.371	10/100	426
● 610.372	10/100	426
● 610.373	10/100	426
● 610.374	10/100	427
● 610.3746	10	431
● 610.3747	10/50	430
● 610.375	10/100	427
● 610.376	10/100	427
● 610.377	10/100	428
● 610.378	10/100	429
● 610.379	10/100	428
● 610.380	10/100	426
● 610.380.N	10/100	177
● 610.381	10/100	427
● 610.382	10/100	427
● 610.383	10/100	428
● 610.384	10/100	428
● 610.384.N	10/100	177
● 610.388	10/100	427
● 610.388.N	10/100	177
● 610.390	10/100	427

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Cat.numb.	Pack qty.	Page
● 610.391	10/100	427
● + 610.392	10/100	427
● 610.394	10/100	429
● 610.395	10/100	428

623		
Cat.numb.	Pack qty.	Page
● 623.3000-056	1	435
● 623.3000-062	1	435
● 623.3000-063	1	435
● 623.3006-054	1	436
● 623.3006-062	1	436
● 623.3006-063	1	436
● 623.3500-000	1/4	317
● 623.3500-062	1	435
● 623.3500-063	1	435
● 623.3506-062	1	436
● 623.3506-063	1	436
● 623.4005-003	1	437
● 623.4005-006	1	437
● 623.4005-010	1	437
● 623.4005-012	1	437
● 623.4500-000	1/4	317
● 623.4505-003	1	437
● 623.4505-006	1	437
● 623.4505-012	1	437

625		
Cat.numb.	Pack qty.	Page
● 625.3500-000	1/4	317
● 625.3500-059	1	436
● 625.3500-060	1	436
● 625.3500-062	1	436
● 625.3500-063	1	436
● 625.3506-059	1	437
● 625.3506-060	1	437
● 625.3506-062	1	437
● 625.4500-000	1/4	317
● 625.4505-003	1	438
● 625.4505-012	1	438

630		
Cat.numb.	Pack qty.	Page
● 630.001	1	410
● 630.002	1	410
● 630.011	1	411
● 630.012	1	411
● 630.021	1	412
● 630.022	1	412
● 630.031	1	413
● 630.032	1	413
● 630.3000-052	1	388
● 630.3000-054	1	388
● 630.3000-055	1	388
● 630.3000-056	1	388
● 630.3000-059	1	388

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Cat.numb.	Pack qty.	Page
● 630.3000-060	1	388
● 630.3000-062	1	388
● 630.3000-063	1	388
● 630.3000-401	1	388
● 630.3006-052	1	390
● 630.3006-054	1	390
● 630.3006-055	1	390
● 630.3006-056	1	390
● 630.3006-059	1	391
● 630.3006-060	1	391
● 630.3006-062	1	391
● 630.3006-063	1	391
● 630.3006-362	1	390
● 630.3500-059	1	388
● 630.3500-060	1	388
● 630.3500-062	1	388
● 630.3500-063	1	388
● 630.3506-052	1	391
● 630.3506-054	1	391
● 630.3506-055	1	391
● 630.3506-056	1	391
● 630.3506-059	1	391
● 630.3506-060	1	391
● 630.3506-062	1	391
● 630.3506-063	1	391
● 630.3506-362	1	391
● 630.4000-001	1	389
● 630.4000-002	1	389
● 630.4000-003	1	389
● 630.4000-006	1	389
● 630.4000-007	1	389
● 630.4000-008	1	389
● 630.4000-010	1	389
● 630.4000-012	1	389
● 630.4000-013	1	389
● 630.4000-326	1	389
● 630.4000-327	1	389
● 630.4000-328	1	389
● 630.4000-329	1	389
● 630.4006-001	1	392
● 630.4006-002	1	392
● 630.4006-003	1	392
● 630.4006-006	1	392
● 630.4006-007	1	392
● 630.4006-008	1	392
● 630.4006-010	1	392
● 630.4006-012	1	392
● 630.4006-013	1	392
● 630.4006-188	1	392
● 630.4009-014	1	394
● 630.4009-016	1	394
● 630.4009-017	1	394
● 630.4009-017	1	394
● 630.4009-323	1	394
● 630.4106-003	1	393
● 630.4106-006	1	393
● 630.4106-008	1	393
● 630.4106-012	1	393
● 630.4106-013	1	393
● 630.4500-003	1	389
● 630.4500-006	1	389
● 630.4500-007	1	389
● 630.4500-008	1	389

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● 630.4500-012	1	389
● 630.4500-013	1	389
● 630.4500-326	1	389
● 630.4500-327	1	389
● 630.4500-328	1	389
● 630.4500-329	1	389
● 630.4506-001	1	392
● 630.4506-002	1	392
● 630.4506-003	1	392
● 630.4506-006	1	392
● 630.4506-007	1	392
● 630.4506-008	1	392
● 630.4506-010	1	392
● 630.4506-012	1	392
● 630.4506-013	1	392
● 630.4509-014	1	394
● 630.4509-016	1	394
● 630.4509-017	1	394
● 630.4509-323	1	394
● 630.4606-003	1	393
● 630.4606-008	1	393
● 630.4606-012	1	393
● 630.4606-013	1	393

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Cat.numb.	Pack qty.	Page
● 632.1500-000	4	308
● 632.1510-000	4	308
● 632.1530-000	4	310
● 632.3000-052	1	395
● 632.3000-054	1	395
● 632.3000-055	1	395
● 632.3000-056	1	395
● 632.3000-059	1	395
● 632.3000-060	1	395
● 632.3000-062	1	395
● 632.3000-063	1	395
● 632.3005-052	1	399
● 632.3005-054	1	399
● 632.3005-055	1	399
● 632.3005-056	1	399
● 632.3005-059	1	399
● 632.3005-060	1	399
● 632.3005-062	1	399
● 632.3005-063	1	399
● 632.3006-052	1	397
● 632.3006-054	1	397
● 632.3006-056	1	397
● 632.3006-059	1	397
● 632.3006-060	1	397
● 632.3006-062	1	397
● 632.3006-063	1	397
● 632.3006-324	1	397
● 632.3006-325	1	397
● 632.3500-000	4	308
● 632.3500-059	1	395
● 632.3500-060	1	395
● 632.3500-062	1	395
● 632.3500-063	1	395

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Cat.numb.	Pack qty.	Page
● 632.3501-000	4	309
● 632.3505-059	1	399
● 632.3505-060	1	399
● 632.3505-062	1	399
● 632.3505-063	1	399
● 632.3506-059	1	397
● 632.3506-060	1	397
● 632.3506-062	1	397
● 632.3506-063	1	397
● 632.3506-324	1	397
● 632.3506-325	1	397
● 632.3510-000	4	308
● 632.3511-000	4	309
● 632.3520-000	4	310
● + 632.3530-000	4	311
● 632.4000-001	1	396
● 632.4000-002	1	396
● 632.4000-003	1	396
● 632.4000-006	1	396
● 632.4000-007	1	396
● 632.4000-008	1	396
● 632.4000-010	1	396
● 632.4000-012	1	396
● 632.4000-013	1	396
● 632.4000-328	1	396
● 632.4000-329	1	396
● 632.4000-342	1	396
● 632.4005-001	1	401
● 632.4005-002	1	401
● 632.4005-003	1	401
● 632.4005-006	1	401
● 632.4005-007	1	401
● 632.4005-008	1	401
● 632.4005-010	1	401
● 632.4005-012	1	401
● 632.4005-013	1	401
● 632.4005-326	1	401
● 632.4005-327	1	401
● 632.4005-328	1	401
● 632.4005-329	1	401
● 632.4006-001	1	398
● 632.4006-002	1	398
● 632.4006-003	1	398
● 632.4006-006	1	398
● 632.4006-007	1	398
● 632.4006-008	1	398
● 632.4006-010	1	398
● 632.4006-012	1	398
● 632.4006-013	1	398
● 632.4006-328	1	398
● 632.4006-329	1	398
● 632.4009-014	1	402
● 632.4009-015	1	402
● 632.4009-016	1	402
● 632.4009-017	1	402
● 632.4500-000	4	309
● 632.4500-003	1	396
● 632.4500-006	1	396
● 632.4500-007	1	396
● 632.4500-008	1	396
● 632.4500-012	1	396
● 632.4500-013	1	396

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Cat.numb.	Pack qty.	Page
● 632.4500-328	1	396
● 632.4500-329	1	396
● 632.4505-003	1	401
● 632.4505-006	1	401
● 632.4505-007	1	401
● 632.4505-008	1	401
● 632.4505-012	1	401
● 632.4505-013	1	401
● 632.4505-326	1	401
● 632.4505-327	1	401
● 632.4505-328	1	401
● 632.4505-329	1	401
● 632.4506-003	1	398
● 632.4506-006	1	398
● 632.4506-007	1	398
● 632.4506-008	1	398
● 632.4506-012	1	398
● 632.4506-013	1	398
● 632.4506-188	1	398
● 632.4506-328	1	398
● 632.4506-329	1	398
● 632.4509-014	1	402
● 632.4509-015	1	402
● 632.4509-016	1	402
● 632.4509-017	1	402
● 632.4510-000	4	309
● 632.4520-000	4	311
● 632.4530-000	4	311
● + 632.4700-000	4	309
● + 632.4710-000	4	309
● 632.5500-000	2	309
● 632.5510-000	2	309
● 632.5520-000	2	311

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Cat.numb.	Pack qty.	Page
● 633.1010	12	315
● 633.1011	12	316
● 633.1012	12	316
● 633.1013	12	316
● 633.1014	12	316
● 633.2020	6	315
● 633.2021	6	316
● 633.2022	6	316
● 633.2023	6	316
● 633.2024	6	316
● 633.2025	6	316
● 633.2026	6	316

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Cat.numb.	Pack qty.	Page
● 639.1040	26	355
● 639.1060	38	355
● 639.1080	25	355
● 639.2040	24	355
● 639.2060	18	355
● 639.2080	12	355
● 639.2120	8	355

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Cat.numb.	Pack qty.	Page
● 639.4060	8	355
● 639.4080	6	355
● 639.4120	4	355

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● 653.00	1/32	360
● 653.01	1/24	360
● 653.011	1/40	361
● 653.012	1/20	361
● 653.013	1/20	361
● 653.014	1/10	361
● 653.015	1/10	361
● 653.017	1/5	361
● 653.02	1/16	360
● 653.020	1/25	361
● 653.021	1/25	361
● 653.022	1/20	361
● 653.023	1/25	361
● 653.024	1/20	361
● + 653.025	1/30	361
● + 653.027	1/50	361
● 653.03	1/12	360
● 653.04	1/6	360
● 653.05	1/2	360
● 653.07	1	360

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Cat.numb.	Pack qty.	Page
● + 654.0002	10	327
● 654.0003	10	327
● + 654.0010	1/12	0
● 654.0020	1/10	292
● 654.0021	1/10	349
● 654.0022	100/2000	349
● 654.0023	1/10	349
● 654.0024	10	327
● 654.0025	50	307
● 654.0026	15	307
● 654.0030	1/25	297
● 654.0032	1/25	350
● + 654.0033	1/25	297
● + 654.0038	25	293
● 654.0040	1/25	293
● 654.0041	6/60	294
● + 654.0041B	6/60	294
● 654.0042	6/60	294
● + 654.0042B	6/60	294
● 654.0043	6	294
● + 654.0043B	6	294
● 654.0044	6	294
● + 654.0044B	6	294
● 654.0045	6/72	295
● + 654.0046	200	295
● + 654.0050	10	318
● 654.0051	10	327
● 654.0060	1/10	297
● 654.0070	1/10	297

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✓ 654.0071	1/10	325
654.0072	1/10	297
654.0073	10	0
✓ 654.0074	10	307
✓ 654.0077	10	344
654.0079	1/10	132
654.0080	10/100	350
654.0085	1/20	350
654.0090	20/100	298
● 654.0091	12/120	298
● 654.0092	12/120	298
● 654.0100	25	300
● + 654.0101	25	270
● + 654.0101Y	25	270
● + 654.0102	25	270
● 654.0103	25	91
● 654.0105	25	310
654.0108	5	94
● 654.0120	6/72	116
● 654.0121	6	116
● + 654.0122	6	116
● 654.0125	6/72	116
● 654.0126	6/72	116
654.0140	50	344
654.0140-06	10	344
654.0140-08	10	344
654.0140-12	10	344
654.0141-06	10	344
654.0141-08	10	344
654.0141-12	10	344
● + 654.0180-04	10	422
● + 654.0180-06	10	422
● + 654.0180-08	10	422
● + 654.0180-12	10	422
654.0180-16	1/10	422
✓ 654.0180-24		422
● + 654.0181-01	1/10	422
● + 654.0181-03	5/10	422
654.0181-04	5/10	422
● + 654.0181-04Y	5/10	422
654.0181-05	5/10	422
✓ 654.0181-07		422
654.0190	10	422
654.0191	10	422
● + 654.0205	1	313
● + 654.0207	1	313
● + 654.0210	1	301
● 654.0220	1	301
● 654.0349	10/100	305
● 654.0358	1/10	303
● + 654.0359	1/10	303
● 654.0360	1/10	305
● 654.0361	1/10	304
● + 654.0361C	10	304
● 654.0362	1/10	304
● + 654.0362C	10	304
● 654.0363	1/10	303
● 654.0364	1/10	305
● + 654.0364C	10	305
● 654.0365	10	303
● + 654.0376	20/200	625
● 654.0377	25	307

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● + 654.0382	10/100	95
● 654.0391	10	95
● 654.0392	10	95
● 654.0393	10	95
● 654.0394	10	95
654.0400	25	117
654.0400B	25	299
✓ 654.0401	5/20	336
654.0410	25/250	117
654.0420	25/400	117
654.0600	2	314
654.0610	1	115
✓ 654.0615		296
● + 654.0650	1	292
● + 654.0651	1	0
● 654.0652	2	292
● + 654.0653	2	292
● + 654.0654	2	292
654.0655	4	292
654.0656	4	292
✓ 654.0657	1	292
✓ 654.0658	1	0
654.0700	1	293
654.0710	1	293
654.0750	1/10	299
654.0751	1/10	299
654.0752	10	299
✓ 654.0753	10	299
654.0787	1/30	349
654.0788	1/20	349
654.0789	1/15	349
654.0790	1/10	349
654.0791	1/10	349
✓ 654.11163		423
✓ 654.11164		423
✓ 654.11165		423
654.11324	5/25	423
✓ 654.11325		423
✓ 654.11634		423
✓ 654.11635		423
654.12324	25	423
✓ 654.12325	25	423
✓ 654.13163		423
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✓ 654.13165	5/25	423
✓ 654.13324		423
✓ 654.13325	5/25	423
✓ 654.13634		423
✓ 654.13635		423
✓ 654.161253		423
✓ 654.161255		423
✓ 654.16163	25	423
✓ 654.16164		423
✓ 654.16165		423
✓ 654.16323		423
✓ 654.16324		423
✓ 654.16325		423
✓ 654.16633		423
✓ 654.16635		423
✓ 654.2110	5/10	422
✓ 654.2111		422
● + 654.906396	1	328

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● + 654.912597	1	328

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● 655.0011	1	330
● 655.0012	1	331
● 655.0014	1/4	331
● 655.0015	1/4	331
● 655.0016	1/8	331
● 655.0019	1/8	332
● 655.0020	1	329
● ✓ 655.0020-K40	1	330
● 655.0021	1	330
● 655.0022	1	331
● 655.0024	1/4	331
● 655.0025	1/4	331
● 655.0026	1/9	331
● 655.0030	1	329
● ✓ 655.0030-K60	1	330
● 655.0031	1	330
● 655.0032	1	331
● 655.0034	1/2	331
● 655.0035	1/2	331
● 655.0036	1/9	331
● 655.0039	1/10	332
● 655.0040	1	329
● ✓ 655.0040-K80	1	330
● 655.0041	1	330
● 655.0042	1	331
● 655.0044	1/2	331
● 655.0045	1/2	331
● 655.0046	1/9	331
● 655.0050	1	329
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● 655.00550	1/5	332
● 655.0056	1/2	331
● 655.00560	1/4	332
● 655.0059	1/6	332
● 655.0110	1	329
● 655.0111	1	330
● 655.0112	1	331
● 655.0120	1	329
● 655.0121	1	330
● 655.0122	1	331
● 655.0130	1	329
● 655.0131	1	330
● 655.0132	1	331
● 655.0140	1	329
● 655.0141	1	330
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● 655.0150	1	329
● 655.0151	1	330
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● 655.02101	1	329
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● 655.02401	1	329
● 655.02501	1	329
● 655.32010	1/10	333
● 655.32011	1/8	333
● 655.32012	1/4	333
● 655.32020	1/5	333
● 655.32021	1/8	334
● 655.32022	1/10	334
● 655.32024	1/5	334
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● 655.46010	1/18	333
● 655.46011	1/8	333
● 655.46012	1/4	333
● 655.46020	1/4	333
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● 655.46025	1/9	334
● 655.46090	1/3	335
● 655.75010	1/20	333
● 655.75011	1/6	333
● 655.75012	1/6	333
● 655.75020	1/12	333
● 655.75021	1/24	334
● 655.75022	1/16	334
● 655.75023	1/18	334
● 655.75024	1/10	334
● + 655.75090	1	335
● 655.900	10	335
● 655.910	1/10	335
● 655.911	1/10	335
● 655.920	1/10	335
● 655.930	1/10	335
● 655.950	1	335
● 655.960	1/10	335
● 655.970	1/10	335

656		
Cat.numb.	Pack qty.	Page
● ✓ 656.0010	10	324
● 656.0012		324
● 656.0024-000	1	320
● 656.0024-000L	1	320
● 656.0026-000	1	320
● 656.0026-000L	1	320
● ✓ 656.0110	5/10	324
● 656.0120	1	325
● 656.0220	1	326
● 656.0221	1	326
● 656.0222	1	326
● ✓ 656.0300		322
● 656.0320	10	322
● 656.0420	10	325
● 656.0924-000	1	320
● 656.0924-000L	1	320
● 656.0926-000	1	320
● 656.0926-000L	1	320
● 656.7024-006	1	377
● 656.7024-008	1	377

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Cat.numb.	Pack qty.	Page
● 656.7024-056	1	377
● 656.7024-611	1	377
● 656.7026-639	1	379
● 656.7026-640	1	379
● ✓ 656.7026-739	1	379
● 656.7124-006	1	377
● 656.7124-008	1	377
● 656.7124-056	1	377
● 656.7124-611	1	377
● 656.7126-639	1	379
● 656.7126-640	1	379
● 656.7824-006	1	377
● 656.7824-008	1	377
● 656.7824-611	1	377
● 656.7826-639	1	379
● 656.7826-640	1	379
● 656.7926-639	1	379
● 656.7926-640	1	379
● 656.9024-613	1	0
● 656.9024-614	1	0

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Cat.numb.	Pack qty.	Page
● 657.0014		324
● 657.0035-000	1	321
● 657.0036-000	1	321
● 657.0038-000	1	321
● 657.0121	1	325
● 657.0330	10	322
● 657.0331	10	323
● 657.0332	10	323
● 657.0333	10	323
● 657.0340	10	322
● + 657.0341	10	323
● + 657.0342	10	323
● 657.0343	10	323
● 657.0421	10	325
● 657.0935-000	1	321
● 657.0936-000	1	321
● 657.0938-000	1	321
● 657.8034-006	1	377
● 657.8034-008	1	377
● 657.8035-012	1	377
● 657.8035-013	1	377
● 657.8035-087	1	377
● 657.8135-012	1	377
● 657.8135-013	1	377
● 657.8135-087	1	377
● 657.8835-012	1	377
● 657.8835-013	1	377
● 657.8835-087	1	377
● 657.8839-825	1	381
● 657.8839-826	1	381
● 657.8839-827	1	381
● 657.8935-012	1	377
● 657.8935-013	1	377
● 657.8935-087	1	377

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Cat.numb.	Pack qty.	Page
● 658.0016		324
● 658.0050-000	1	321
● 658.0350	10	322
● + 658.0351	10	323
● + 658.0352	10	323
● + 658.0353	10	323
● 658.0360	10	322
● + 658.0361	10	323
● + 658.0362	10	323
● + 658.0363	10	323
● 658.0369	10	324
● + 658.0422	10	325
● 658.0950-000	1	321
● 658.8050-702	1	379
● 658.8050-705	1	379
● 658.8056-138	1	379
● 658.8058-040	1	379
● 658.8059-043	1	379
● 658.8150-702	1	379
● 658.8156-138	1	379
● 658.8158-040	1	379
● 658.8159-043	1	379
● 658.8850-702	1	379
● 658.8850-705	1	379
● 658.8856-138	1	379
● 658.8950-702	1	379
● 658.8950-705	1	379
● 658.8956-138	1	379
● 658.8959-043	1	379

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● 659.BA5040-00		337
● 659.BA5140-02		403
● 659.DA5041-00		337
● 659.DA5081-00		337
● 659.DA5121-01	1	403
● 659.DA5141-02	1	403
● 659.DA5141-04	1	403
● 659.DA5181-03	1	403
● 659.DA5181-05	1	403
● 659.DA5221-01	1	406
● 659.DA5241-02	1	406
● 659.DA5241-04	1	406
● 659.DA5281-03	1	406
● 659.DA5281-05	1	406
● 659.DB5041-00		337
● 659.DB5081-00		337
● 659.DB5121-01	1	403
● 659.DB5141-02	1	403
● 659.DB5141-04	1	403
● 659.DB5181-03	1	403
● 659.DB5181-05	1	403
● 659.DB5221-01		406
● 659.DB5241-02		406
● 659.DB5241-04		406
● 659.DB5281-03		406
● 659.DB5281-05		406
● 659.MA5041-00		337
● 659.MA5121-01		404

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● 659.MA5141-02		404
● 659.MA5141-04		404
● 659.MA5221-01		406
● 659.MA5241-02		406
● 659.MA5241-04		406
● 659.MB5041-00		337
● 659.MB5121-01		404
● 659.MB5141-02		404
● 659.MB5141-04		404
● 659.MB5221-01		406
● 659.MB5241-02		406
● 659.MB5241-04		406
● 659.SC5041-00		338
● 659.SC5121-01		404
● 659.SC5141-02		404
● 659.SC5141-04		404
● 659.SC5221-01		407
● 659.SC5241-02		407
● 659.SC5241-04		407
● 659.SC5243-07		407
● 659.SC5263-06		407
● 659.SC5263-09		407
● 659.SCBASE		338
● 659.SCFIRE-E		340
● 659.SCFIRE-M		340
● 659.SK5041-00		339
● 659.SK5121-01		405
● 659.SK5123-12		405
● 659.SK5141-02		405
● 659.SK5141-04		405
● 659.SK5143-07		405
● 659.SK5163-06		405
● 659.SK5221-01		407
● 659.SK5241-02		407
● 659.SK5241-04		407
● 659.SK5243-08		407
● 659.SKBASE		339
● 659.SKFIRE-E		340
● 659.SKFIRE-M		340
● 659.SX5040-00		340
● 659.SX5140-02		405

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Cat.numb.	Pack qty.	Page
● + 661.0160-057	1	383
● + 661.0160-065	1	383
● + 661.0160-068	1	383
● + 661.0160-075	1	383
● + 661.5160-053		383
● + 661.5160-160		383
● + 661.5250-008		383

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Cat.numb.	Pack qty.	Page
● 670.3026-75	1	385
● 670.3026-77	1	385
● 670.3526-77	1	385
● 670.3536-59	1	386

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● 670.3536-62	1	386
● 670.6046-03	1	385
● 670.6046-08	1	385
● 670.6046-12	1	385
● 670.6546-03	1	385
● 670.6546-12	1	385
● 670.6566-117	1	386
● 670.6566-126	1	386
● 670.6566-137	1	386
● 670.9566-456	1	414
● 670.9566-457	1	414
● 670.9566-458	1	414
● 670.9566-459	1	414
● 670.9566-464	1	414
● 670.9566-465	1	414
● 670.9566-466	1	414
● 670.9566-467	1	414

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Cat.numb.	Pack qty.	Page
● 671.2012-001	1	384
● 671.2012-002	1	384
● 671.2012-003	1	384
● 671.2012-004	1	384
● 671.2012-005	1	384
● 671.2012-006	1	384
● 671.2012-009	1	384
● 671.2016-008	1	384
● 671.2912-001	1	384
● 671.2912-002	1	384
● 671.2912-003	1	384
● 671.2912-004	1	384
● 671.3020-75	1	385
● 671.3020-77	1	385
● 671.3025-75	1	386
● 671.3030-59	1	387
● 671.3030-97	1	387
● 671.3035-59	1	387
● 671.3035-97	1	387
● 671.3530-59	1	387
● 671.3530-97	1	387
● 671.3535-59	1	387
● 671.3535-97	1	387
● 671.6040-03	1	385
● 671.6040-07	1	385
● 671.6040-95	1	385
● 671.6045-03	1	386
● 671.6045-06	1	386
● 671.6045-07	1	386
● 671.6045-08	1	386
● 671.6045-95	1	386
● 671.6065-117	1	387
● 671.6545-03	1	386
● 671.6545-95	1	386
● 671.6560-117	1	387
● 671.6565-117	1	387

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● 672.1100	1/6	280
● + 672.1101	6	280
● 672.1200	1/6	282
● 672.1300	1/6	286
● 672.1301	6	286
● 672.2002	1/24	276
● 672.2004	1/16	277
● 672.2008	1/10	277
● 672.2008.1101	1/10	277
● 672.2012	1/9	277
● 672.2012.1101	1/9	277
● 672.2016	1/6	277
● 672.2016.1101	1/6	277
● 672.2100	1/10	281
● 672.2200	1/10	283
● 672.2300	1/10	286
● 672.2301	1/10	286
● 672.3100	1/6	281
● ✓ 672.3100.1102	6	281
● 672.3200	1/6	283
● 672.3300	1/6	287
● 672.3302	1/6	287
● 672.4024	1/6	278
● 672.4024.1102	1/6	278
● 672.4032	1/4	278
● 672.4032.1102	1/4	278
● 672.4116	1/4	281
● 672.4216	1/4	283
● 672.4316	1/4	287
● 672.5048	1/3	278
● 672.5048.1102	1/3	278
● 672.5116	1/3	282
● 672.5122	3	282
● ✓ 672.5122.1102	3	282
● 672.5316	1/3	285
● 672.5416	1/3	284
● 672.5522	3	285
● 672.5616	1/3	287
● 672.5622	3	284
● 672.5822	3	287
● ✓ 672.5822.1102	3	287
● 672.7064	1	279
● + 672.7064.1102	1	279

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Cat.numb.	Pack qty.	Page
● 673.2008	1/12	290
● ✓ 673.2008.1102	1/12	290
● 673.2008B	1/12	290
● + 673.2008B.2010	1/12	290
● 673.2008B.2012	1/10	290
● 673.2012	1/7	290
● ✓ 673.2012.1102	6	290
● 673.2012B	1/7	290
● 673.2012B.2010	1/7	290
● + 673.2012B.2012	1/6	290
● 673.2018	1/6	290
● 673.2018B	1/6	290
● + 673.2018B.2010	1/6	290
● + 673.2018B.2012	1	290

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Cat.numb.	Pack qty.	Page
● 673.2102	1/36	289
● 673.2102B	1/36	289
● 673.2104	1/24	289
● 673.2104B	1/24	289
● 673.2108	1/12	289
● 673.2108B	1/12	289
● + 673.2108B.0012	1/10	289
● 673.2112	1/7	289
● 673.2112B	1/7	289
● + 673.2112B.0012	1/6	289
● 673.2118	1/6	289
● ✓ 673.2118.0011	1/6	289
● 673.2118B	1/6	289
● + 673.2118B.0012	1	289
● 673.4024	1/5	290
● 673.4024B	1/5	290
● 673.4024B.2010	1/5	290
● 673.4024B.2012	1	290
● 673.4036	1/4	290
● 673.4036B	1/4	290
● 673.4036B.2010	1/4	290
● 673.4036B.2012	1	290
● 673.4124	1/5	289
● 673.4124B	1/5	289
● + 673.4124B.0012	1	289
● 673.4136	1/4	289
● + 673.4136B	1/4	289
● + 673.4136B.0012	1	289
● 673.5054	1/2	290
● 673.5054B	1/2	290
● 673.5054B.2010	1/2	290
● + 673.5054B.2012	1	290
● 673.5154	1/2	289
● + 673.5154B	1/2	289
● + 673.5154B.0012	1	289

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Cat.numb.	Pack qty.	Page
● 674.1000	1/6	288
● + 674.1001	6	288
● 674.1100	1/6	288
● + 674.1101	6	288
● 674.1200	1/6	288
● 674.1300	1/6	288
● + 674.1301	6	288

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● 675.2008	1/10	291
● ✓ 675.2008.1102	1/10	291
● 675.2008B	1/10	291
● 675.2008B.2010	1/10	291
● 675.2008B.2012	1/6	291
● 675.2012	1/7	291
● ✓ 675.2012.1102	1/7	291
● 675.2012B	1/7	291
● 675.2012B.2010	1/7	291
● 675.2012B.2012	1/4	291

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● 675.2018	1/7	291
● 675.2018B	1/7	291
● + 675.2018B.2010	1/7	291
● + 675.2018B.2012	1	291
● 675.2104	1/38	291
● 675.2104B	1/38	291
● 675.4024	1/5	291
● 675.4024B	1/5	291
● 675.4024B.2010	1/5	291
● + 675.4024B.2012	1	291
● 675.4036	1/3	291
● 675.4036B	1/3	291
● 675.4036B.2010	1/3	291
● 675.4036B.2012	1	291
● 675.5054	1/2	291
● 675.5054B	1/2	291
● 675.5054B.2010	1/2	291
● 675.5054B.2012	1	291

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676.10101	10	346
676.10102	10	346
+ 676.10103	20	346
● 676.25100	1/13	345
● 676.35100	1/14	345
● 676.35201	1/6	345
● + 676.35205	1/6	346

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● + 677.1012.1	1	306
● ✓ 677.1012.1-HW	1	306
● ✓ 677.2024.1	1	306
● ✓ 677.2024.1-HW	1	306
● + 677.3036.2	1	306
● ✓ 677.3036.2-HW	1	306
● 677.4048.2	1	306
● ✓ 677.4048.2-HW	1	306
● ✓ 677.5060.2	1	306
● ✓ 677.5060.2-HW	1	306

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● 680.002	4/100	347
● 680.003	4/60	347

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● 685.005	1/54	347
● 685.006	1/40	347
● 685.007	1/24	347
● 685.008	1/12	347

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● 685.009	1/6	347
● 685.010	1/4	347
● 685.011	1	347

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● 686.204	1/40	348
● 686.205	1/42	348
● 686.206	1/48	348
● 686.207	1/30	348
● 686.208	1/16	348
● 686.209	1/8	348
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● 686.211	1	348
● 686.224	1/40	348
● 686.225	1/42	348
● 686.226	1/48	348
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● 686.228	1/16	348
● 686.229	1/8	348
● 686.230	1/4	348
● 686.231	1	348
● 686.404	1/24	348
● 686.408	1/6	348
● 686.409	1/6	348
● 686.410	1/3	348
● 686.411	1	348
● + 686.424	1/24	348
● 686.428	1/6	348
● 686.429	1/6	348
● 686.430	1/3	348
● 686.431	1	348
● ✓ 686.AMRTA-01	154	
● ✓ 686.AMRTA-005	153	
● ✓ 686.AMRTA-032	153	
● ✓ 686.AMRTA-063	153	
● ✓ 686.AMRTA-125	153	
● ✓ 686.AMRTA-225	153	

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● 687.001	4/100	351
● 687.002	4/100	351
● 687.003	4/60	351
● 687.004	1/48	352
● 687.005	1/54	352
● 687.006	1/40	352
● 687.204	1/40	353
● 687.205	1/42	353
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● 688.001	4/100	351
● 688.002	4/100	351
● 688.003	4/60	351

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● 688.003.R	4/60	351
● 688.004	1/48	352
● + 688.004.R	1/48	352
● + 688.005	1/54	352
● + 688.005.R	1/54	352
● 688.006	1/40	352
● 688.204	1/40	353
● 688.204.R	1/40	353
● + 688.205	1/42	353
● + 688.205.R	1/42	353
● 688.206	1/48	353
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● 689.003	4/60	354
● 689.004	48	354
● 689.005	54	354
● 689.006	40	354
● 689.204	40	354
● 689.205	42	354
● 689.206	48	354

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● 690.4200-00	1	342
● 690.4200-295	1	409
● 690.4200-300	1	409
● 690.4200-301	1	409

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● 692.4200-00	1	342
● ✓ 692.4201-00	1	341
● ✓ 692.4202-00	1	341
● ✓ 692.4203-00	1	342
● ✓ 692.4204-00	1	342
● ✓ 692.4205-00	1	342
● ✓ 692.4206-00	1	342
● 692.4300-00	1	343
● 692.4300-305	1	408
● 692.4300-69	1	408
● 692.4300-70	1	408
● 692.4330	1	343
● 692.4340	1	318
● 692.4342	1/5	318

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● 707.1205	1/12	577
● 707.1210	1/12	577
● 707.1215	1/12	577

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● 707.2115	1/12	576
● 707.2220	1/12	577

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● 709.2405	1/12	575
● 709.2505	1/12	575
● 709.2605	1/12	575
● + 709.3310	1/6	575
● + 709.3410	1/6	575
● + 709.3415	1/6	575
● 709.3510	1/6	575
● 709.3610	1/6	575
● 709.3705	1/6	575
● 709.3710	1/6	575
● + 709.3810	1/6	575
● 709.3910	1/6	575
● + 709.4320	1/6	575
● + 709.4420	1/6	575
● 709.4615	1/6	575
● 709.4620	1/6	575
● 709.4715	1/6	575
● 709.4720	1/6	575
● + 709.4820	1/6	575
● + 709.4920	1/6	575

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✓ 745.0000-000	1	457
● 745.3005-003	1	453
● 745.3005-006	1	453
● 745.3005-008	1	453
● 745.3005-012	1	453
● 745.3005-013	1	453
● 745.3005-094	1	453
● 745.3005-096	1	453
● 745.3005-441	1	453
● 745.3505-003	1	453
● 745.3505-006	1	453
● 745.3505-008	1	453
● 745.3505-012	1	453
✓ 745.3505-012.P	1	457
● 745.3505-013	1	453
● 745.3505-094	1	453
● 745.3505-096	1	453
● 745.3505-441	1	453
● 745.5005-003	1	453
● 745.5005-006	1	453
● 745.5005-008	1	453
● 745.5005-012	1	453
● 745.5005-013	1	453
● 745.5005-094	1	453
● 745.5005-096	1	453
● 745.5505-003	1	453
● 745.5505-006	1	453
✓ 745.5505-006.P	1	457
● 745.5505-008	1	453

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● 745.5505-012	1	453
✓ 745.5505-012.P	1	457
● 745.5505-013	1	453
● 745.5505-094	1	453
● 745.5505-096	1	453

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● 746.2010-052	1	449
✓ 746.2010-052.P	1	456
● 746.2010-075	1	449
● + 746.2010-093	1	449
● + 746.2010-101	1	449
● 746.2010-102	1	449
● + 746.2010-390	1	449
● + 746.2025-352	1	451
● 746.2510-075	1	449
● + 746.2510-093	1	449
● + 746.2512-352	1	449
● + 746.2525-352	1	451
● 746.3000-010	1	447
✓ 746.3000-010.P	1	456
● + 746.3000-349	1	447
● 746.3000-384	1	447
● 746.3000-385	1	447
✓ 746.3000-385.P	1	456
● + 746.3000-388	1	447
● + 746.3000-389	1	447
● + 746.3005-894	1	447
● + 746.3005-895	1	447
● 746.3010-054	1	449
✓ 746.3010-054.P	1	456
● 746.3010-056	1	449
✓ 746.3010-056.P	1	456
● 746.3010-077	1	449
✓ 746.3010-077.P	1	456
● 746.3010-091	1	449
● + 746.3025-350	1	451
● + 746.3025-351	1	451
● 746.3510-077	1	449
✓ 746.3510-077.P	1	456
● 746.3510-091	1	449
✓ 746.3510-091.P	1	456
● 746.3512-350	1	449
● + 746.3512-351	1	449
● + 746.3525-350	1	451
● + 746.3525-351	1	451
● 746.4000-010	1	447
✓ 746.4000-010.P	1	456
● + 746.4000-349	1	447
● 746.4000-384	1	447
● 746.4000-385	1	447
✓ 746.4000-385.P	1	456
● + 746.4000-388	1	447
● + 746.4000-389	1	447
● + 746.4005-895	1	447
● + 746.4005-896	1	447
● + 746.4005-897	1	447
● + 746.4005-898	1	447

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Cat.numb.	Pack qty.	Page
● 749.3005-350	1	455
● 749.3005-351	1	455
● 749.3005-352	1	455
● 749.3005-353	1	455
● 749.3005-354	1	455
● 749.3505-350	1	455
● 749.3505-351	1	455
● 749.3505-352	1	455
● 749.3505-353	1	455
● 749.3505-354	1	455
● 749.5005-350	1	455
● 749.5005-351	1	455
● 749.5005-352	1	455
● 749.5505-350	1	455
● 749.5505-351	1	455
● 749.5505-352	1	455

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● 751.0210-D	1	442
● 751.0215-D	1	442
● 751.0225-D	1	442
● 751.0310-D	1	442
● 751.0315-D	1	442
● 751.0325-D	1	442
● 751.1315-D	1	442
● 751.7210-D	1	443
● 751.9210	1	443

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● 770.200	1/24	370
● 770.207	1/24	370
● 770.208	1/18	370
● + 770.250	1/24	370
● 770.400	1/6	371
● + 770.405	1/6	371
● 770.406	1/6	371
● 770.407	1/6	371
● 770.408	1/6	371
● + 770.409	1/6	371
● 770.410	1/6	371

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● + 780.2262	12	364
● 780.2762	12	364

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● + 781.2260	1/12	364
● + 781.2261	1/12	364
● 781.2760	1/12	364
● 781.2761	1/12	364
● + 781.2761/1	1	365
● + 781.2761/2	1	365
● + 781.2761/3	1	365

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● 786.0200	1/12	367
● 786.0210	1/12	367
● + 786.0220	1/12	367
● + 786.2260	1/12	364
● + 786.2261	1/12	364
● 786.2760	1/12	364
● 786.2761	1/12	364

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● + 790.102	1/6	369
● + 790.301	1/6	369
● + 790.302	1/6	369

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● + 791.12210	1/6	368
● 791.12710	1/6	368
● + 791.22210	1/6	368
● + 791.22710	1/6	368
● + 791.32210	1/6	369
● 791.32710	1/6	369

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Cat.numb.	Pack qty.	Page
● + 796.12210	1/6	368
● 796.12710	1/6	368
● + 796.22210	1/6	368
● 796.22710	1/6	368
● + 796.32210	1/6	369
● 796.32710	1/6	369

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805.3305	100/1000	469
805.3306	50/500	469
805.3307	25/200	469
805.3314	100/1000	469
● + 805.3314HF	100/1000	469
● + 805.3315	100/1000	469

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● + 805.3315HF	100/1000	469
● + 805.3324	100/1000	469
● + 805.3324HF	100/1000	469
● + 805.3325	100/1000	469
● + 805.3325HF	100/1000	469
● + 805.3334	10/50	468
805.3335	10/50	468
805.3336	10/50	468
805.3337	5/25	468
805.3340	50/600	464
● + 805.3340.0	50/600	465
● 805.3340.1	50/600	465
● + 805.3340.2	50/600	465
● 805.3341	50/600	464
● 805.3341.0	50/600	465
● 805.3341.1	50/600	465
● + 805.3341.2	50/600	465
● 805.3342	25/500	464
● 805.3342.0	25/500	465
● + 805.3342.1	25/500	465
● + 805.3342.2	25/500	465
● 805.3343	25/600	464
● + 805.3343.0	25/500	465
● 805.3343.1	25/500	465
● + 805.3343.2	25/500	465
● 805.3344	25/300	464
● 805.3344.0	25/300	465
● + 805.3344.1	25/300	465
● 805.3344.2	25/300	465
● 805.3345	25/400	464
● 805.3345.0	25/400	465
● + 805.3345.1	25/400	465
● + 805.3345.2	25/400	465
● 805.3346	25/350	464
● 805.3346.0	25/350	465
● 805.3346.1	25/350	465
● + 805.3346.2	25/350	465
● 805.3347	10/140	464
● + 805.3347.0	10/140	465
● + 805.3347.1	10/140	465
● + 805.3347.2	10/140	465
● 805.3348	10/100	464
● + 805.3348.0	10/100	465
● + 805.3348.1	10/100	465
● + 805.3348.2	10/100	465
● 805.3349	10/100	464
● + 805.3349.0	10/100	465
● + 805.3349.1	10/100	465
● + 805.3349.2	10/100	465
● 805.3350	50/600	466
● 805.3351	50/600	466
● 805.3352	25/500	466
● 805.3353	25/500	466
● 805.3354	25/300	466
● 805.3355	25/400	466
● 805.3356	25/350	466
● 805.3357	10/140	466
● 805.3358	10/100	466
● 805.3359	10/100	466
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805.3361	100/1000	467
805.3362	100/1000	467

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805.3365	100/1000	467
805.3366	50/500	467
805.3367	50/500	467
805.3368	50/500	467
805.3369	50/500	467
♦ 805.3370	100/1000	467
♦ 805.3371	100/1000	467
♦ 805.3372	100/1000	467
♦ 805.3373	100/1000	467
♦ 805.3374	100/1000	467
♦ 805.3375	100/1000	467
♦ 805.3376	50/500	467
♦ 805.3377	50/500	467
♦ 805.3378	50/500	467
♦ 805.3379	50/500	467
805.3380	100/1000	467
805.3381	100/1000	467
805.3382	100/1000	467
805.3383	100/1000	467
805.3384	100/1000	467
805.3385	100/1000	467
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805.3387	25/250	467
805.3388	25/250	467
805.3389	25/250	467
805.3390	100/1000	467
805.3391	100/1000	467
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805.3395	100/1000	467
805.3396	50/500	467
805.3397	50/500	467
805.3398	50/500	467
805.3399	50/500	467
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805.5025	100/1000	95
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● ♦ 805.5412.0	50/600	465
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● 805.5416	50/600	464
● 805.5416.0	50/600	465
● ♦ 805.5416.1	50/600	465
● 805.5416.2	50/600	465
● 805.5420	25/500	464
● 805.5420.0	25/500	465
● 805.5420.1	25/500	465
● ♦ 805.5420.2	25/500	465
● 805.5425	25/400	464
● 805.5425.0	25/400	465
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● 805.5432	25/350	464
● ♦ 805.5432.0	25/350	465

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● ♦ 805.5432.2	25/350	465
● 805.5440	10/140	464
● ♦ 805.5440.0	10/140	465
● ♦ 805.5440.1	10/140	465
● ♦ 805.5440.2	10/140	465
● 805.5450	10/100	464
● ♦ 805.5450.0	10/100	465
● ♦ 805.5450.1	10/100	465
● ♦ 805.5450.2	10/100	465
● 805.5463	10/100	464
● ♦ 805.5463.0	10/100	465
● ♦ 805.5463.1	10/100	465
● ♦ 805.5463.2	10/100	465
● ♦ 805.5512	50/600	466
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♦ 805.5612	100/1000	467
805.5616	100/1000	467
805.5620	100/1000	467
805.5625	100/1000	467
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805.5640	50/500	467
805.5650	50/500	467
805.5663	50/500	467
♦ 805.5712	100/1000	467
♦ 805.5716	100/1000	467
♦ 805.5720	100/1000	467
♦ 805.5725	100/1000	467
♦ 805.5732	50/500	467
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♦ 805.5763	50/500	467
♦ 805.5812	100/1000	467
♦ 805.5816	100/1000	467
♦ 805.5820	100/1000	467
805.5825	100/1000	467
♦ 805.5832	50/500	467
805.5840	25/250	467
805.5850	25/250	467
805.5863	25/250	467
♦ 805.5912	100/1000	467
805.5916	100/1000	467
805.5920	100/1000	467
♦ 805.5925	100/1000	467
♦ 805.5932	100/1000	467
♦ 805.5940	50/500	467
♦ 805.5950	50/500	467
♦ 805.5963	50/500	467
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● ♦ 805.7350	50/600	466
● 805.7351	50/600	466
● ♦ 805.7353	25/500	466
● ♦ 805.7354	25/300	466
● ♦ 805.7355	25/400	466
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● ♦ 805.7357	10/140	466
● 805.7358	10/140	466
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● ♦ 810.372/B	100/600	486
● ♦ 810.372/G	100/600	486
● ♦ 810.372/M	100/600	486
● ♦ 810.372/N	100/600	486
● 810.372/TR	600/6000	486
● ♦ 810.372/V	100/600	486
● 810.374/AS	1000/4000	487
● ♦ 810.374/B	100/1000	486
● 810.374/G	100/1000	486
● ♦ 810.374/M	100/1000	486
● ♦ 810.374/N	100/1000	486
● 810.374/TR	1000/4000	486
● ♦ 810.374/V	100/1000	486
● 810.375/AS	100/1000	487
● ♦ 810.375/B	100/1000	486
● ♦ 810.375/G	100/1000	486
● ♦ 810.375/M	100/1000	486
● ♦ 810.375/N	100/1000	486
● 810.375/TR	100/1000	486
● ♦ 810.375/V	100/1000	486
● 810.376/AS	100/1000	487
● ♦ 810.376/B	100/1000	486
● ♦ 810.376/G	100/1000	486
● ♦ 810.376/M	100/1000	486
● ♦ 810.376/N	100/1000	486
● 810.376/TR	100/1000	486
● ♦ 810.376/V	100/1000	486
● 810.378/AS	100/1000	487
● ♦ 810.378/B	100/1000	486
● ♦ 810.378/G	100/1000	486
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● ♦ 810.378/N	100/1000	486
● 810.378/TR	100/1000	486
● ♦ 810.378/V	100/1000	486
● ♦ 810.379/AS	50/500	487
● ♦ 810.379/B	50/500	486
● ♦ 810.379/G	50/500	486
● ♦ 810.379/M	50/500	486
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● 810.425/TR	10/100	486
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● 812.375	10/400	488
● 812.376	10/200	488
● 812.378	10/150	488
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● 815.1362	50/400	494
● 815.13625	50/400	494
● 815.1363	25/300	494
● 815.1364	25/150	494
● 815.1365	15/60	494
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● 815.2361	50/800	493
● 815.2361B	50/800	493
● 815.2362	50/400	493
● 815.23625	50/400	493
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● 815.2362B	50/400	493
● 815.2363	25/300	493
● 815.2363B	25/300	493
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● 815.2365B	15/60	493
● 815.2366	10/40	493
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● 817.0602	25/650	489
● 817.0603	25/400	490
● 817.0605	10/270	490
● 817.1602	10/270	489
● 817.1603	10/270	490
● 817.1605	10/260	490
● 817.1606C	10/260	491
● 817.3502	10/160	489
● 817.3503	10/260	490
● 817.3506C	10/120	491

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820.612	100/1000	502
♦ 820.614	100/1000	502
820.616	100/1000	502

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820.620	100/1000	502
820.622	100/1000	502
820.625	100/1000	502
820.628	100/1000	502
820.632	100/1000	502
820.640	100/1000	502
820.650	50/400	502
820.710	200/1000	502
820.710/P	100/1000	502
820.712	200/1000	502
820.712/P	100/1000	502
820.714	200/1000	502
820.714/P	100/1000	502
820.716	100/1000	502
820.716/P	100/1000	502
820.720	100/1000	502
820.720/P	100/1000	502
820.722	100/1000	502
820.722/P	100/1000	502
820.725	100/1000	502
820.725/P	100/1000	502
820.732/P	100/1000	502
820.740/P	100/500	502
820.750/P	50/500	502
820.810	100/1000	502
820.813	100/1000	502
820.816	100/1000	502
820.819	100/1000	502
820.822	100/1000	502
820.826	100/1000	502
820.828	100/1000	502
820.832	100/1000	502
820.838	100/1000	502
820.850	50/500	502

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830.30/10G	100/5000	480
◆ 830.30/12	100/3000	480
830.30/12G	100/3000	480
830.30/14G	100/3000	480
830.30/16G	100/5000	480
830.30/19G	100/3000	480
830.30/22G	100/1000	480
830.30/26G	100/1000	480
◆ 830.30/28G	100/1000	480
830.30/3-4	100/5000	480
830.30/3-4G	100/5000	480
830.30/32G	100/1000	480
830.30/5	100/5000	480
830.30/5G	100/5000	480
830.30/6	100/5000	480
830.30/6G	100/5000	480
830.30/7	100/5000	480
830.30/7G	100/5000	480
830.30/8	100/5000	480
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◆ 830.30/P13G	100/1000	479
830.30/P3	100/5000	479
◆ 830.30/P3G	100/5000	479
830.30/P5	100/3000	479
◆ 830.30/P5G	100/3000	479
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◆ 830.30/P6G	100/5000	479
830.30/P8	100/3000	479
830.30/P8G	100/3000	479

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839.39/101	100/1000	474
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839.39/103	100/1000	474
839.39/104	20	472
● ◆ 839.39/6115	100/2000	471
● ◆ 839.39/6175	100/2000	471
● ◆ 839.39/9120	100/2000	471
● 839.39/9180	100/2000	471
● 839.39/9260	100/2000	471
● 839.39/9350	100/2000	471
● 839.42080	100/2000	470
● 839.42100	100/2000	470
● 839.42120	100/2000	470
● 839.42160	100/2000	470
● 839.42200	100/2000	470
● 839.43140	100/2000	470
● 839.43200	100/2000	470
● 839.43300	100/2000	470
● 839.43370	100/2000	470
● 839.44190	100/2000	470
● 839.44200	100/2000	470
● 839.44250	100/2000	470
● 839.44300	100/2000	470
● 839.44370	100/2000	470
● 839.44430	100/2000	470
● 839.47200	100/2000	470
● 839.47290	100/2000	470
● 839.47370	100/2000	470
● 839.47780	100/1000	470
● 839.52080	100/2000	470
● 839.52100	100/2000	470
● 839.52120	100/2000	470
● 839.52160	100/2000	470
● 839.52200	100/2000	470
● 839.53140	100/2000	470
● 839.53200	100/2000	470
● 839.53300	100/2000	470
● 839.53370	100/2000	470
● 839.54190	100/2000	470
● 839.54200	100/2000	470
● 839.54250	100/2000	470
● 839.54300	100/2000	470
● 839.54370	100/2000	470
● 839.54430	100/2000	470
● 839.57200	100/2000	470
● 839.57290	100/2000	470

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● 839.57780	100/1000	470

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● 860.1125/G	50/400	503
● 860.1132/G	25/200	503
● 860.1216/G	50/800	503
● 860.1220/G	50/400	503
● 860.1225/G	25/300	503
● 860.1232/G	20/160	503
● 860.1316/G	100/1000	500
● 860.1320/G	100/1000	500
● 860.1325/G	100/800	500
● 860.1332/G	100/800	500
● 860.1340/G	50/400	500
● 860.1350/G	25/250	500
● 860.1516	100/1000	500
● 860.1520	100/1000	500
● 860.1525	100/800	500
● 860.1532	50/500	500
● 860.1540	50/400	500
● 860.1550	25/250	500
860.1616	100/1000	501
860.1640	100/500	501
● 860.2016	100/1000	501
● 860.2020	100/1000	501
● 860.2025	100/800	501
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● 862.1040/G	20/160	503
● 862.1050/G	20/120	503
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862.1920	100/1200	503
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● 862.916/G	50/800	503
● 862.920/G	50/400	503
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● ◆ 864.0603	50/1200	506
● ◆ 864.0605	50/800	506
● ◆ 864.0606	50/800	506
● ◆ 864.0607	50/400	506
● ◆ 864.0609	25/300	506
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● 864.0655	50/800	506
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● 864.0659	25/300	506
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● ◆ 864.2040	25	504
● ◆ 864.2050	15	504
● 864.216	50/600	504
● 864.220	50/400	504
● 864.225	25/200	504
● 864.232	25/100	504
● 864.240	15/60	504
● 864.250	10/40	504
● 864.316	50/800	504
● 864.320	50/600	504
● 864.325	50/400	504
● 864.332	25/200	504
● 864.340	20/160	504
● 864.350	10/80	504
● 864.516	50/800	504
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● 864.532	25/300	504
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● + 864.7020	50/600	505
● + 864.7025	50/400	505
● + 864.7032	25/200	505
● + 864.7040	20/160	505
● + 864.7050	15/120	505
● 864.716	50/800	505
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● + 864.8050	10/80	505
● 864.816	50/600	505
● 864.820	50/400	505
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● 864.850	10/80	505
● + 864.9016	50	504
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● 872.AE06040	10/40	525
● 872.AE06060	10/40	525
● 872.AE08060	10/30	525
● 872.AE10060	8/16	525
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● 872.AE15060	1/6	525
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● 872.AI04040	10/60	525
● 872.AI06040	10/60	525
● 872.AI06060	10/40	525
● 872.AI08060	10/30	525
● 872.AI10060	10/30	525
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● 872.AI15060	1/8	525
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● 872.AP04040	10/120	525
● 872.AP06040	10/60	525
● 872.AP06060	10/40	525
● 872.AP08060	10/20	525
● 872.AP10060	1/20	525
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● 872.PD200	10	528
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● 872.SCO1	1/9	527
● 872.SCO2	1/10	527
● 872.TA02	1/10	529
● 872.TB100	20	529
● 872.TB150	20	529
● 872.TC10060	10/120	529
● 872.TC10080	10/120	529
● 872.TE060	20	529
● 872.TE080	20	529
● 872.TE100	20	529
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● 872.TT04040	20	526
● 872.TT06040	20	526
● 872.TT06060	20	526
● 872.TT08060	20	526
● 872.TT10060	20	526
● 872.TT10080	20	526
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● 872.TT15080	20	526
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● + 874.0260	14	530
● + 874.0280	12	530
● 874.2530	98	530
● 874.2540	48	530
● 874.2560	34	530
● + 874.2580	28	530
● 874.4030	38	530
● 874.4040	30	530
● 874.4060	22	530
● 874.4080	36	530
● 874.6040	40	530
● 874.6060	32	530
● 874.6080	24	530
● 874.8040	32	530
● 874.8060	24	530
● 874.8080	16	530
● + 874.R0040	24	530
● 874.R0060	20	530
● 874.R0080	16	530
● + 874.R0240	20	530
● 874.R0260	14	530
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● 874.R2530	98	530
● 874.R2540	48	530
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● 874.R6040	40	530
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● 876.3015AV	60	511
● + 876.3015G	60	511
● 876.4010	72	511
● + 876.4010G	72	511
● 876.4015	48	511
● 876.4015AV	48	511
● + 876.4015G	48	511
● 876.4020	36	511
● 876.4020AV	36	511
● + 876.4020G	36	511
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● + 876.4021G	36	511
● 876.6020	32	511
● 876.6020AV	32	511
● + 876.6020G	32	511
● 876.AE2010	30	512
● + 876.AE2010G	30	512
● 876.AE2015	30	512
● + 876.AE2015G	30	512
● 876.AE3015	30	512
● + 876.AE3015G	30	512
● 876.AE4010	30	512
● + 876.AE4010G	30	512
● 876.AE4015	30	512
● + 876.AE4015G	30	512
● 876.AE4020	30	512
● + 876.AE4020G	30	512
● 876.AE6020	30	512
● + 876.AE6020G	30	512
● 876.AI2010	30	512
● + 876.AI2010G	30	512
● 876.AI2015	30	512
● + 876.AI2015G	30	512
● 876.AI3015	30	512
● + 876.AI3015G	30	512
● 876.AI4010	30	512
● + 876.AI4010G	30	512
● 876.AI4015	30	512
● + 876.AI4015G	30	512
● 876.AI4020	30	512
● + 876.AI4020G	30	512
● 876.AI6020	30	512
● + 876.AI6020G	30	512
● 876.AL2010	30	513
● + 876.AL2010G	30	513
● 876.AL2015	30	513
● + 876.AL2015G	30	513
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● + 876.AL3015G	30	513
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● + 876.AL4015	630	513
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● + 876.AL4020	630	513
● + 876.AL4020G	630	513
● + 876.AL6020	630	513
● + 876.AL6020G	630	513
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● + 876.AP2010G	30	512
● 876.AP2015	30	512

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● 876.AP3015	30	512
● + 876.AP3015G	30	512
● 876.AP4010	30	512
● + 876.AP4010G	30	512
● 876.AP4015	30	512
● + 876.AP4015G	30	512
● 876.AP4020	30	512
● + 876.AP4020G	30	512
● 876.AP6020	30	512
● + 876.AP6020G	30	512
● 876.AT2010	30	513
● + 876.AT2010G	30	513
● 876.AT2015	30	513
● + 876.AT2015G	30	513
● 876.AT3015	30	513
● + 876.AT3015G	30	513
● 876.AT4010	30	513
● + 876.AT4010G	30	513
● 876.AT4015	30	513
● + 876.AT4015G	30	513
● 876.AT4020	30	513
● + 876.AT4020G	30	513
● 876.AT6020	30	513
● + 876.AT6020G	30	513
● 876.GT2010	30	514
● + 876.GT2010G	30	514
● 876.GT2015	30	514
● + 876.GT2015G	30	514
● 876.GT3015	30	514
● + 876.GT3015G	30	514
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● + 876.GT4010G	30	514
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● + 876.GT4015G	30	514
● 876.GT4020	30	514
● + 876.GT4020G	30	514
● 876.GT6020	30	514
● + 876.GT6020G	30	514
● 876.GU2010	30	514
● + 876.GU2010G	30	514
● 876.GU2015	30	514
● + 876.GU2015G	30	514
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● + 876.GU3015G	30	514
● 876.GU4010	30	514
● + 876.GU4010G	30	514
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● + 876.GU4015G	30	514
● 876.GU4020	30	514
● + 876.GU4020G	30	514
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● + 876.GU6020G	30	514
● + 876.PA5530	10	515
● + 876.PA5530G	10	515
● 876.PA6040	10	515
● + 876.PA6040G	10	515
● 876.PA6050	10	515
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● + 876.PK60G	10	515
● 876.PK80	10	515
● + 876.PK80G	10	515
● + 876.RT2010	30	514
● + 876.RT2010G	30	514
● + 876.RT2015	30	514
● + 876.RT2015G	30	514
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● + 876.SA70G	10	516
● 876.TF20	30	514
● 876.TF30	30	514
● 876.TF40	30	514
● 876.TF60	30	514
● 876.TT2010	30	514
● + 876.TT2010G	30	514
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● 876.TT4010	30	514
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● + SCM360C6W	1	193	● + SCM420B6W	1/5	190	● + SCM430C6W	1/5	191	● + SCM460C7W	1	193
● + SCM360C7W	1	193	● + SCM420B7S	1/5	188	● + SCM430C7S	1/5	189	● + SCM460C9W	1	193
● ✓ SCM360C8W	1	193	● + SCM420B7W	1/5	190	● + SCM430C7W	1/5	191	● ✓ SCM460MI5W	1	198
● ✓ SCM360MI6W	1	198	● + SCM420B9S	1/5	188	● + SCM430C9S	1/5	189	● ✓ SCM460MI5W-C	1	199
● ✓ SCM360MI6W-C	1	199	● + SCM420B9W	1/5	190	● + SCM430C9W	1/5	191	● ✓ SCM460MI5W-NB	1	197
● ✓ SCM360MI6W-NB	1	197	● + SCM420C12S	1/5	189	● ✓ SCM430MI12W	1/6	198	● ✓ SCM460MI7W	1	198
● ✓ SCM360MI7W	1	198	● + SCM420C12W	1/5	191	● ✓ SCM430MI12W-C	1/6	199	● ✓ SCM460MI7W-C	1	199
● ✓ SCM360MI7W-C	1	199	● + SCM420C5S	1/5	189	● ✓ SCM430MI12W-NB	1/6	197	● ✓ SCM460MI9W	1	198
● ✓ SCM360MI7W-NB	1	197	● + SCM420C5W	1/5	191	● ✓ SCM430MI5W	1/6	198	● ✓ SCM460MI9W-C	1	199
● + SCM360P3W	1	192	● + SCM420C6S	1/5	189	● ✓ SCM430MI5W-C	1/6	199	● ✓ SCM460MI9W-NB	1	197
● + SCM360P4W	1	192	● + SCM420C6W	1/5	191	● ✓ SCM430MI5W-NB	1/6	197	● + SCM460P12W	1	192
● + SCM360P5W	1	192	● + SCM420C7S	1/5	189	● ✓ SCM430MI7W	1/6	199	● + SCM460P5W	1	192
● + SCM360P6W	1	192	● + SCM420C7W	1/5	191	● ✓ SCM430MI7W-C	1/6	199	● + SCM460P6W	1/6	192
● + SCM360P7W	1	192	● + SCM420C9S	1/5	189	● ✓ SCM430MI7W-NB	1/6	197	● + SCM460P7W	1	192
● ✓ SCM360P8W	1	192	● + SCM420C9W	1/5	191	● ✓ SCM430MI9W	1/6	198	● + SCM460P9W	1	192
● + SCM360R3W	1	193	● ✓ SCM420MI12W	1/6	198	● ✓ SCM430MI9W-C	1/6	199	● + SCM460R12W	1	193
● + SCM360R4W	1	193	● ✓ SCM420MI12W-C	1/6	199	● ✓ SCM430MI9W-NB	1/6	197	● + SCM460R5W	1	193
● + SCM360R5W	1	193	● ✓ SCM420MI12W-NB	1/6	197	● + SCM430P12S	1/5	188	● + SCM460R6W	1/10	193
● + SCM360R6W	1	193	● ✓ SCM420MI5W	1/6	198	● + SCM430P12W	1/5	190	● + SCM460R7W	1	193
● + SCM360R7W	1	193	● ✓ SCM420MI5W-C	1/6	199	● + SCM430P5S	1/5	188	● + SCM460R9W	1	193
● ✓ SCM360R8W	1	193	● ✓ SCM420MI5W-NB	1/6	197	● + SCM430P5W	1/5	190	● + SCM463B6W	1	186
● + SCM363B6W	1	186	● ✓ SCM420MI7W	1/6	198	● + SCM430P6S	1/5	188	● + SCM463C6W	1	187
● + SCM363C6W	1	187	● ✓ SCM420MI7W-C	1/6	199	● + SCM430P6W	1/5	190	● + SCM463P5W	1	186
● + SCM363P6W	1	186	● ✓ SCM420MI7W-NB	1/6	197	● + SCM430P7S	1/5	188	● + SCM463P6W	1	186
● + SCM363R6W	1	187	● ✓ SCM420MI9W	1/6	198	● + SCM430P7W	1/5	190	● + SCM463R5W	1	187
● + SCM4100B12W	1	192	● ✓ SCM420MI9W-C	1/6	199	● + SCM430P9S	1/5	188	● + SCM463R6W	1	187
● + SCM4100B5W	1	192	● ✓ SCM420MI9W-NB	1/6	197	● + SCM430P9W	1/5	190	● + SCM5100B5W	1	192
● + SCM4100B6W	1/10	192	● + SCM420P12S	1/5	188	● + SCM430R12S	1/5	189	● + SCM5100B6W	1/10	192
● + SCM4100B7W	1	192	● + SCM420P12W	1/5	190	● + SCM430R12W	1/5	191	● + SCM5100B7W	1	192
● + SCM4100B9W	1	192	● + SCM420P5S	1/5	188	● + SCM430R5S	1/5	189	● ✓ SCM5100B8W	1	192
● + SCM4100C12W	1	193	● + SCM420P5W	1/5	190	● + SCM430R5W	1/5	191	● + SCM5100B9W	1	192
● + SCM4100C5W	1	193	● + SCM420P6S	1/5	188	● + SCM430R6S	1/5	189	● + SCM5100C5W	1	193
● + SCM4100C6W	1/6	193	● + SCM420P6W	1/5	190	● + SCM430R6W	1/5	191	● + SCM5100C6W	1/6	193
● + SCM4100C7W	1	193	● + SCM420P7S	1/5	188	● + SCM430R7S	1/5	189	● + SCM5100C7W	1	193
● + SCM4100C9W	1	193	● + SCM420P7W	1/5	190	● + SCM430R7W	1/5	191	● ✓ SCM5100C8W	1	193
● + SCM4100P12W	1	192	● + SCM420P9S	1/5	188	● + SCM430R9S	1/5	189	● + SCM5100C9W	1	193
● + SCM4100P5W	1	192	● + SCM420P9W	1/5	190	● + SCM430R9W	1/5	191	● + SCM5100P5W	1	192
● + SCM4100P6W	1/6	192	● + SCM420R12S	1/5	189	● + SCM432B6S	1/5	184	● + SCM5100P6W	1/6	192
● + SCM4100P7W	1	192	● + SCM420R12W	1/5	191	● + SCM432B6W	1/5	186	● + SCM5100P7W	1	192
● + SCM4100P9W	1	192	● + SCM420R5S	1/5	189	● + SCM432C3W	1/5	187	● ✓ SCM5100P8W	1	192

SCM		
Cat.numb.	Pack qty.	Page
● + SCM5100P9W	1	192
● + SCM5100R5W	1	193
● + SCM5100R6W	1/10	193
● + SCM5100R7W	1	193
● + SCM5100R8W	1	193
● + SCM5100R9W	1	193
● + SCM5125B6W	1	187
● + SCM5125C6W	1	187
● + SCM5125P6W	1	186
● + SCM5125R6W	1	187
● + SCM516B6W	1/5	186
● + SCM516C6S	1/5	185
● + SCM516C6W	1/5	187
● + SCM516P6S	1/5	184
● + SCM516P6W	1/5	186
● + SCM516R6S	1/5	185
● + SCM516R6W	1/5	187
● + SCM520B5S		188
● + SCM520B5W		190
● + SCM520B6S	1/5	188
● + SCM520B6W	1/5	190
● + SCM520B7S		188
● + SCM520B7W	1/5	190
● + SCM520B9S	1/5	188
● + SCM520B9W	1/5	190
● + SCM520C5S	1/5	189
● + SCM520C5W	1/5	191
● + SCM520C6S	1/5	189
● + SCM520C6W	1/5	191
● + SCM520C7S	1/5	189
● + SCM520C7W	1/5	191
● + SCM520C9S	1	189
● + SCM520C9W	1/5	191
● + SCM520M15W	1/6	198
● + SCM520M15W-C	1/6	199
● + SCM520M15W-NB	1/6	197
● + SCM520M17W	1/6	198
● + SCM520M17W-C	1/6	199

SCM		
Cat.numb.	Pack qty.	Page
● + SCM520M17W-NB	1/6	197
● + SCM520M19W	1/6	198
● + SCM520M19W-C	1/6	199
● + SCM520M19W-NB	1/6	197
● + SCM520P5S	1/5	188
● + SCM520P5W	1/5	190
● + SCM520P6S	1/5	188
● + SCM520P6W	1/5	190
● + SCM520P7S	1/5	188
● + SCM520P7W	1/5	190
● + SCM520P9S	1/5	188
● + SCM520P9W	1/5	190
● + SCM520R5S	1/5	189
● + SCM520R5W	1/5	191
● + SCM520R6S	1/5	189
● + SCM520R6W	1/5	191
● + SCM520R7S	1/5	189
● + SCM520R7W	1/5	191
● + SCM520R9S	1/5	189
● + SCM520R9W	1/5	191
● + SCM530B5S	1/5	188
● + SCM530B5W	1/5	190
● + SCM530B6S	1/5	188
● + SCM530B6W	1/5	190
● + SCM530B7S	1/5	188
● + SCM530B7W	1/5	190
● + SCM530B9S		188
● + SCM530B9W	1/5	190
● + SCM530C5S		189
● + SCM530C5W	1/5	191
● + SCM530C6S	1/5	189
● + SCM530C6W	1/5	191
● + SCM530C7S	1/5	189
● + SCM530C7W	1/5	191
● + SCM530C9S	1/5	189
● + SCM530C9W	1/5	191
● + SCM530M15W	1/6	198
● + SCM530M15W-C	1/6	199

SCM		
Cat.numb.	Pack qty.	Page
● + SCM530M15W-NB	1/6	197
● + SCM530M17W	1/6	198
● + SCM530M17W-C	1/6	199
● + SCM530M17W-NB	1/6	197
● + SCM530M19W	1/6	198
● + SCM530M19W-C	1/6	199
● + SCM530M19W-NB	1/6	197
● + SCM530P5S	1/5	188
● + SCM530P5W	1/5	190
● + SCM530P6S	1/5	188
● + SCM530P6W	1/5	190
● + SCM530P7S	1/5	188
● + SCM530P7W	1/5	190
● + SCM530P9S	1/5	188
● + SCM530P9W	1/5	190
● + SCM530R5S		189
● + SCM530R5W	1/5	191
● + SCM530R6S	1/5	189
● + SCM530R6W	1/5	191
● + SCM530R7S	1/5	189
● + SCM530R7W	1/5	191
● + SCM530R9S	1/5	189
● + SCM530R9W	1/5	191
● + SCM532B6S	1/5	184
● + SCM532B6W	1/5	186
● + SCM532C6S	1/5	185
● + SCM532C6W	1/5	187
● + SCM532P6S	1/5	184
● + SCM532P6W	1/5	186
● + SCM532R6S	1/5	185
● + SCM532R6W	1/5	187
● + SCM560B5W	1	192
● + SCM560B6W	1/10	192
● + SCM560B7W	1	192
● + SCM560B9W	1	192
● + SCM560C5W	1	193
● + SCM560C6W	1/6	193
● + SCM560C7W	1	193

SCM		
Cat.numb.	Pack qty.	Page
● + SCM560C9W	1	193
● + SCM560M15W	1	198
● + SCM560M15W-C	1	199
● + SCM560M15W-NB	1	197
● + SCM560M17W	1/1	198
● + SCM560M17W-C	1	199
● + SCM560M17W-NB	1/1	197
● + SCM560M19W	1	198
● + SCM560M19W-C	1	199
● + SCM560M19W-NB	1	197
● + SCM560P5W	1	192
● + SCM560P6W	1/6	192
● + SCM560P7W	1	192
● + SCM560P9W	1	192
● + SCM560R5W	1	193
● + SCM560R6W	1/10	193
● + SCM560R7W	1	193
● + SCM560R9W	1	193
● + SCM563B6W	1	186
● + SCM563C6W	1	187
● + SCM563P6W	1	186
● + SCM563R6W	1	187
● + SCMBB01	1/12	195
● + SCMBB02	1/12	195
● + SCMBB03	1/6	195
● + SCMSAA12	5	194
● + SCMSAB12	5	194
● + SCMSAB34	5	194
● + SCMSAC100	5	194
● + SCMSAC125	5	194
● + SCMSAC34	5	194
● + SCMSAD125	5	194



Definition of symbols


In order to give further product specification these symbols have been used throughout the catalogue. They are defined as follows:


 = Coaxial TV socket \varnothing 9,5mm


 = 3 pole telephone socket


 = RJ telephone socket


 = Cat. 5E RJ45 socket

 = Socket EN 60309 - 2P - 16A - 24V~


 = Socket EN 60309 - 2P+E - 16A - 100/130V~ 4h

 = Socket EN 60309 - 2P+E - 16A - 220/250V~ 6h


 = Socket EN 60309 - 3P+E - 16A - 380/415V~ 6h

 = Socket EN 60309 - 3P+N+E - 16A - 380/415V~ 6h

 = Unwound cable power

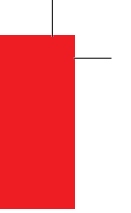
 = Wound cable power


















 = Screw terminals

 = Insulation perforating terminals

 = Spring terminals

 = Mantle terminals



-
-  = Italian standard socket
2P 10A (P10) - Shuttered socket - CEI 23-50
-  = Italian standard socket
2P+E 10A (P11) - Shuttered socket - CEI 23-50
-  = Italian standard socket
2P+E 16A biv. (P17/11) - Shuttered socket - CEI 23-50
-  = Socket 2P+E 16A (P30) - Shuttered socket - CEI 23-50
-  = Pluristandard socket
2P+E 16A - Shuttered socket
-  = German standard socket
2P+E 16A- Shuttered socket
-  = French standard socket
2P+E 16A - Shuttered socket
-  = British standard socket
2P+E 13A - Shuttered socket - BS1363-2
-  = British standard socket
2P+E 15A - Shuttered socket - BS546
-  = Indian standard socket
2P+E 6/16A - Shuttered socket - IS 1293:1998
-  = Euro-american standard socket
2P+E 15A
-  = Argentinian standard socket
2P+E 10A - Unshuttered socket - IRAM 2071
-  = Argentinian standard socket
2P+E 10A - Unshuttered socket - IRAM 2071
-  = Argentinian standard socket
2P+E 20A - Unshuttered socket - IRAM 2071
-  = New Zealand standard socket
2P+E 10A - Unshuttered socket - AS/N25 3112
-  = Swiss standard socket
2P+E 10A - Unshuttered socket - SEV 1011:1998
-  = Brazilian standard socket
2P+E 10A - Unshuttered socket - ABNT NBR 14136:3003





The SCAME product range

SYSTEMS CATALOGUE



SCAME offers a wide range of products for the home environment, industry and tertiary sector, developed according to the most important international standards.

The range includes:

- electrical components for domestic use and similar items
- components and systems for electrical installations
- assembled equipment
- accessories and components for electrical plants

ATEX CATALOGUE



SCAME offers specific products for environments at risk of explosion and fire, developed according to the ATEX Directive and certified in compliance with the IECEx standard.

The range includes :

- interlocked sockets and plugs from 16 to 125 A
- junction boxes and control systems
- disconnectors in enclosure from 20 A to 63 A
- plastic and metal cable glands

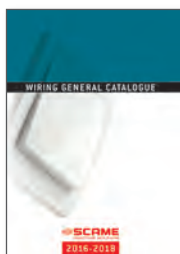
ECOMOBILITY CATALOGUE



SCAME has been involved for many years now in the field of electric mobility, making connectors and charging stations intended for electric vehicles. The range includes:

- charging connectors
- charging panels for the home
- charging stations for public environments
- vehicle-charging station connecting cables
- systems for the management of charging systems

WIRING CATALOGUE



SCAME offers, for the domestic sector, a wide range of flush- and wall-mounted wiring accessories, developed in compliance with different national standards (British, German, Italian, etc). The range includes:

- Flush-mounted series with plastic plate
- Flush-mounted series with metal plate
- Wall-mounted series in airtight enclosure
- Wall-mounted series in metal enclosure
- Outdoor series with degree of protection

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