Enclosure systems and accessories Klippon[®] ProtectLet's connect.

Version 2020



Our Orange Selection

Quick and easy planning

To enable you to react quickly and easily to the requirements of your industrial environment, we have defined a core portfolio of more than 1,500 articles for you – our Orange Selection. The Orange Selection articles are tailored to one another and cover your standard requirements comprehensively.

All Orange Selection articles are "stock items": If you order by 3 p.m., your order will already be on the way the next working day! For even more efficient planning and production processes, we have marked all articles in our online product catalogue **catalog.weidmueller.com** as "always available" and stored the digital product data for the entire range.

By the way: the Orange Selection is of course also available in the Weidmüller Configurator **www.weidmueller.com/configurator**. Our powerful engineering software guides you intelligently and reliably through your selection and configuration process.

Further information and links to our services can be found at: www.weidmueller.com/orange-selection





Dear Customers,

The PDF versions of our catalogues offer practical additional functions, helping you to find your way around our product range and simplifying the ordering process.

In addition to the catalogue, the PDF also contains:

- Internal page links
- Links to the online catalogue

Try it out for yourself. Click the order number to obtain more detailed information and close-up images via you web browser. The links in the PDF file also enable you to go directly to the next desired catalogue page.

Further Weidmüller product catalogues can be accessed by clicking the following:



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Enclosure systems and accessories

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Introduction

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Digitalisation presents you with many new challenges

We will support you to master them

The social and economic changes being caused by digitalisation are also pushing industrial production towards new, data-based services that need to be integrated into the value creation chains in a profitable manner.

Our objective is to support you with the implementation of these new structures and processes right from the start, and to successfully accompany you on new paths in the Industry 4.0 era.

Thanks to the entire range of Weidmüller products, the use of our local production and assembly facilities, and our global sales network, we can lay the very best foundations for a successful partnership with you, our customer.



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Whether decentralisation, modularisation, data consistency and transparency or the implementation of completely individual applications in the IoT environment: the factory of the future needs to be able to take on a wide variety of challenges.

With our Klippon® products and services, we have created innovative and future-oriented solutions while setting new standards for applications within a wide range of industries.



More information about our Klippon® products and services at www.weidmueller.com/KlipponProtect

Dive into the Klippon® world and discover our innovative products and services.









2712630000 **Weidmüller** ₹ A.3

It's Klippon® Bringing excellence together

For more than 50 years, Klippon® has been synonymous with innovation, competence, and quality of products and services in the automation technology. Klippon® Services is the most recent extension to the well known, proven Klippon® Connect and Klippon® Protect products. Klippon® Services provides innovative software and assembly services. With Klippon® we are your reliable partner throughout the complete value creation process. Create your competitve advantage with Klippon®.

Your special advantages:

The flexible Klippon® Protect enclosure system is the perfect addition to our Klippon® Connect range of terminal blocks. You can rely on our mounted enclosures to offer a custom fit to your requirements and provide excellent protection. Klippon® Services completes our products range with optimal support for your processes.



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Klippon® Connect offers a wide range of tailored application products, universal terminals and inprocess services. A complete range of standard solutions and application-specific products, including all conventional connection technologies and functions for your individual application.







With Klippon® Protect, you can choose from a wide range of universal and application-specific enclosures. These products cover all relevant approvals required for use in industrial and explosive risk zones. They are flexible enough for optimal adaptation to your requirements.

A

Klippon® Services – expertise for your requirements Our service connects worldwide

Planning, engineering, and production processes have to be completed with ever greater speed, precision, and efficiency. Such an increase in efficiency needs innovative tools and processes that optimally support the entire process of product creation and assembly.

With Klippon® Services, we offer a comprehensive, digitalised support for planning and developing, offering and ordering, and assembly and delivery of your distinct product.

By bringing together the entire value chain – backed by efficient software tools, extraordinary expertise, and a technologically leading production – we are answering your requirements concerning a future-orientated, ready-to-install assembly.

Your special advantages:

One-stop configuring, ordering, and delivery of the assembled product: With Klippon® Services you benefit from greater flexibility in your project business. Our services span from reliable planning and professional engineering to manufacturing in perfect quality.



An order will dispatch after just four days from Germany when a certain service level is selected. Order quantities start at one.



Configuration and ordering are simple with the Weidmüller Configurator www.weidmueller.de/wmc

Klippon® Services



Fast Delivery Service

Obtain offers 24/7 and within minutes, including directly orderable article numbers. The Weidmüller Configurator (WMC) for planning and configuration is key for consistent processes.



Engineer to Order

We offer highly qualified engineering service for standard or modified products.



Customised Solutions

Our extensive customer consulting, powerful project management, and flexible production enable individual, customised solutions.

Efficient digital engineering

Weidmüller Configurator (WMC) integrates CAE access and direct offer

The choice is yours

Within Klippon® Services the WMC supports you step-by-step as you select and configure your assembled terminal strips and an extensive range of enclosures, including accessories and further Weidmüller products. You decide whether you want to carry out the complete configuration in WMC or whether you want to import data sets from your CAE system and simply transfer them back again after making final adjustments in the WMC. Whichever way you decide to go, you will benefit from centralised documentation that is always up to date, you will avoid transmission errors and you will no longer have to share your sensitive data with a third party. Using STEP, the universal 3D CAD exchange format, you can now also export your WMC solution directly into your CAE system, ensuring complete data consistency in all your systems.

Your special advantages:

Configuration is simple, safe, and convenient because of user-friendly operation, distinct design, and integration in your engineering workflows from planning with CAE to documentation.

Three reasons to start using the Weidmüller Configurator now:

1. Proven configuration designs in real 3D

Digital product information is based on the classification standard eCl@ss advanced. An integrated plausibility and collision control with full digital documentation ensure that your configuration is 100 % reliable.

2. Seamless CAE integration

ntegrated interfaces facilitate the simple import and export of product data between the WMC and all commonly-used engineering tools, such as Zuken E³ or EPLAN Electric P8.

3. Interfaces for automated manufacturing

The WMC provides all necessary digital information for a full automation, such as subsequent assembly, marking with M-Print® PRO, and wiring. This is the key for the fast delivery service.



Configuration and ordering are simple with the Weidmüller Configurator www.weidmueller.com/wmc





Full engineering support

The product data can be used in engineering systems such as EPLAN Electric P8 or Zuken E3. series. 3D models are available for panel set-up.



Helpful wizard system

The intelligent wizard function documents every step in which a component is assembled and only allows permissible configurations. Mistakes are corrected automatically.



Integrated request function

The selected components can be requested directly - as individual components, pre-installed on a terminal rail, or as an assembled enclosure.

Klippon® Services – focus on your core business

"Fast Delivery Service" enables short-term delivery of assembled products

Today you are confronted with tough challenges in mechanical and plant engineering as well as in control cabinet production. On the one hand, the production of your products is becoming increasingly made to order/ custombuilt and a lot more complex. On the other hand, you have to deal with high price pressures, tight deadlines and short-term change requests. In addition, many products are requested in small quantities.

To meet these growing demands, you need ever more efficient planning and manufacturing processes - and you need to be able to rely on 100% fast and reliable delivery. With our Fast Delivery Service, we offer you both. The integrated concept simplifies your planning, accelerates your manufacturing processes and guarantees the delivery of individually assembled and ready-to-install terminal strips or enclosures within the shortest possible time. In this way, you reduce your costs, increase your flexibility and stay one step ahead of your competitors.





Klippon® Connect and Klippon® Protect

Assembled enclosures with terminal strip, add-on components and optional Ex approval.



Klippon® Protect

Individual empty enclosures with holes, threads or cut-outs according to your specifications optionally unassembled, equipped or with add-



WMC - Digital Engineering

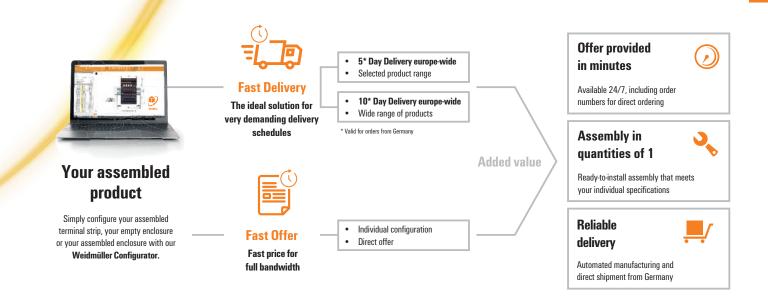
Our Weidmüller Configurator (WMC) gives you access to the "Fast Delivery Service". You can import directly your CAE data.



Ready-to-install assembled terminal strips including electronic components - individually manufactured according to your specifications.

Determine your own delivery time thanks to Fast Delivery Service

We offer the choice between 3 service levels



Your advantages at a glance

with our Fast Delivery Service



Reduce your

Your plants are becoming more and more specific and complex. Therefore, you have to stock many required components in your warehouse. With Fast Delivery, you receive complete assembled products – and can significantly minimise your purchasing and storage costs.



Increase you flexibility

More and more often you have to manufacture small quantities of plants and be prepared for shortterm changes. With Fast Delivery, you get individual terminal strips and enclosures from batch size 1 – and you receive them ready for installation. This increases your flexibility.



Meet your delivery commitments

You must complete and deliver your individual plants within tight time frames. Otherwise, your customers face high costs due to delays and production downtimes. With Fast Delivery, you can speed up all your processes and reliably meet your delivery commitments.

With Klippon® Services you benefit from optimal support

"Engineer to Order" - applications, based on your design

In a globally-orientated world, automation technology functions are becoming more complex by facing ambitious goals toward energy efficiency and smart production. We are your reliable partner for the best connections in Industrial Connectivity with our standard or customised products.





Planning

You can rely on the support of our worldwide network of industrial managers, who know the challenges you face and who can assist with your particular applications.



Engineering

After receiving your requirements, our experts analyse together with you the individual application and start the development process.





Within our global engineering network, we are combining our expertise with your requirements – worldwide. This expertise allows us to assist you with advice and planning support toward resolving together the everyday challenges of your applications.



Klippon® Services – plan, install, operate Individual projects need "Customised Solutions"

Our drive is your efficiency. Therefore we accompany you in all phases of your individual project and continuously develop our Klippon® Services product range. Throughout the entire duration of the project, professional project management is at your side so that you know that your products are in good hands up to delivery and beyond. The result are tailor-made products that are precisely tailored to the specific requirements of your project.

Designing and Prototyping

Engineers create design studies and prototypes together with our experienced designers.

Consulting

Our application experts advise you on the development of your individual project solution.



A flexible, automised production process ensures high quality

products, whether







Operation

2712630000

Count on our solution-orientated after sales service combined with a complete traceability of the assembled products.



Installation

Reduce your single part orders and stock while we focus on your final product.

Assembly

We combine excellent products for your individual solution. Bringing added value for you and your customers.

Manufacturing expertise at the highest level

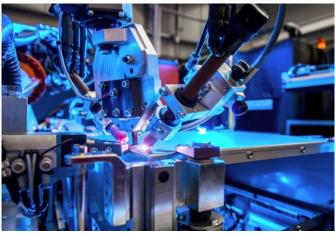
Precision and reliability for your products

Our engineering and manufacturing expertise influences decisions in all areas of modern connection technology. It therefore plays an integral part of every solution. A variety of customised configurations can be constructed and produced at our worldwide assembly facilities according to individual requirements. All this based on maximum process and manufacturing reliability.





Continuous data management enables automated production and makes Industry 4.0 tangible.



Automated processes – here shown for our Klippon® TB enclosure range – ensures a reliable and consistent production process.





Whether you need modified products, pre-assembled terminal rails or complete devices for individual applications: we produce the solutions developed for your application quickly and flexibly.

4 Weidmüller ₹ 2712630000

When quality is the key

You demand perfection - we take care of every detail

In the face of the international competition, you demand that all your equipment meets high safety, quality, and performance standards. Our products and services will support you to achieve these goals. We support you to advance new ideas that provide real value for your plant operation. After over 50 years of experience, we can determine the ideal combination of electrotechnical components which best suit your plant. We take into account your plant's specific conditions, including the local standards at its operation site. That's our definition of service.



Our laboratory assures the high quality and functionality of products.



Right from the start, we check exactly which components, materials, and systems are suitable for your application.



With our state-of-the-art processing technology, we ensure the highest quality during production and assembly.



We guarantee fast, quality-orientated production and order-ready product availability.

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Klippon® Protect

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Weidmüller ₹ B.1

Klippon® Protect

Safety and protection for connection solutions

We designed the Klippon® Protect enclosure ranges to satisfy the extraordinary protection requirements for field applications. They provide outstanding high-performance features that satisfy the toughest demands within every industry and every application. The universal enclosures Klippon® Protect are made of stainless steel, aluminium, or plastic. Either one guarantees excellent protection for your assembly. With these robust enclosures, you can implement various field applications to suit your requirements. The matching system accessories enable simple integration, expansion, and customisation.



Your special advantages:

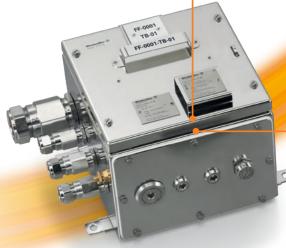
- Innovative enclosure concepts for outstanding performance even under extreme environmental conditions
- Robust and secure enclosure with optimised sealing system for the most stringent of protection requirements
- Klippon® Protect products are approved based on the most stringent international quality and safety standards





Reliable protection

The Klippon® TB has an integrated duct keeping contamination and moisture from penetrating when the enclosure is open. The outer earthing bolt is equipped with an IP67-certified seal mechanism and is protected against accidental rotation.



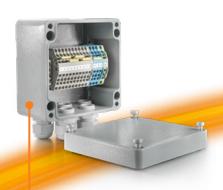


Temperature and sealing characteristics

All Klippon® TB and Klippon® STB enclosures are equipped with a silicone seal. It protects applications in extreme temperature conditions.







High IP protection The Klippon® K aluminium enclosures are equipped with fully closed seals without adhesive points. The seal ensures an IP protection level from IP66 and up to IP68 - subject to use.



Closed moulded gaskets

The Klippon® POK polyester enclosures gaskets are made of either silicone or chloroprene. The robust and secure sealing enhances ingress protection and increases the performance of each enclosure.





The TBF, FPC and MPC enclosures

Versatile lid design

are available with either transparent or grey lids.

Cable Glands and Cable Entry Systems: perfectly fulfiling your application needs

We offer a variety of add-on components such as cable glands for a multitude of purposes and applications in addition to our extensive Klippon® Protect range. The supplementary cable entry system Cabtite allows connecting a preassembled cable to an installation enclosure or cabinet.

Weidmüller **3**€ B.3 2712630000

Klippon® Protect

Proven solutions for your application

The Klippon® Protect solutions offer a wide range of standard industrial applications and explosive environments applications. The following overview of our Klippon® Protect range will give you an insight into its possibilities, including finding an individual solution.

Application range

Our Klippon® Protect application range provides solutions for monitoring and safety, measurement and control technology, and power distribution. These application solutions are based on high quality and comprehensive approvals for explosive risk zones.

Your special advantages:

- Terminal boxes, command and signalling devices as well as electronic boxes in a consistent enclosure design
- Extremely wide range of standard solutions for maximal safety, reliable functionality and low follow-up costs for maintenance, replacement and storage
- Certified to international standards for explosive risk zones and standard industrial applications such as automation, transportation and energy







Power distribution boxes and interfaces

In a complex environment, the efficient and reliable distribution of electrical energy requires optimally designed interface solutions that respond to the special features of the application. Our high-current terminal solutions offer an excellent interplay with our certified terminals with weather-resistant Klippon® Protect enclosures.

Monitoring and Safety

Through the assembly of units, we provide a myriad of monitoring and safety solutions; including proximeters for vibration measurement, temperature transmitters for monitoring of operating temperature, and eddy current sensors for non-contact distance measurement chains.







Measurement and Control systems

Tailored to your respective requirements, the Klippon® Control Station combines control devices and status displays with various electronic components. You receive a turnkey plug-and-play solution – including all required approvals.













Harmonisation - the key to market success

Klippon® Protect is individually tailored to meet the changing and extremely harsh environments of the different industries. Certified to international standards, they also meet the latest ATEX and IECEx regulations for potentially explosive atmospheres in process industries. They have certifications for use in various standard industrial applications, such as automation, railway, transportation, and energy.

Weidmüller ₹ B.5

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Benefit from innovative automation concepts as a success factor Klippon[®] products for better performance and more efficient processes

The advancing digitalisation of industrial manufacturing processes places ever higher demands on automation technology. Decentralised systems with high flexibility and easy operation are trend. System design, installation process, and plant operation are becoming more complex.

Klippon® products and services are optimally adapted to the requirements of modern automation concepts. They combine highest quality with excellent flexibility and performance – and thus become an integral part of your automation solutions. In the versatile Klippon® product portfolio you will find everything you need to optimise your production systems. The choice is yours.

Your special advantages:

- Wide range of products and services for every application
- · Optimised for convenient planning, simple installation and efficient maintenance
- · Highest product quality for reliable function and high durability
- Tested safety and conformity to standards
- · Perfectly suited for flexible, decentralised automation concepts



Weidmüller ₹ 2712630000





Klippon® K

Klippon® K aluminium enclosures ensure a high level of system availability as well as the quick commissioning of your machines. Excellent shock, vibration, and temperature resistance combined with corrosion-resistant materials and surfaces make these enclosures particularly secure and long-lasting.



Klippon® EBi

Klippon®EBi stainless steel enclosures are suitable for both indoor and outdoor use, and can be combined with Klippon® Connect and Klippon® Protect components. They are extremely corrosion resistant and insensitive to dust and spray water. Ideally suited to the decentralised control of your system.



Cabtite

The Cabtite cable management system allows for quick cabling adjustment in the event of system modifications or during service and maintenance work. Modular components guarantee maximum flexibility while simultaneously ensuring a high level of protection.

2712630000 **Weidmüller 5 B.7**

Increase efficiency and reliability in transportation

Klippon® Protect enclosure solutions for the mobility of the future

Mobility is becoming more and more important within our society. Increasing globalisation is also bringing rapid growth in the transportation of people and goods between continents. As a result, there is demand for particularly efficient and reliable solutions in the transportation sector.

With secure connection solutions and tailor-made, individually configurable components, we are making a decisive contribution to the transport of the future. Our solutions are certified to the latest industry standards. They are produced using state-of-the-art manufacturing methods and stand for quality, durability and reliability.

Your special advantages:

- Particularly robust and long-lasting solutions
- Future-proof thanks to certification to the latest industry standards
- Resistant to an extremely wide range of external influences
- Optimally suited to the harsh environments typical of the rail and shipping industries
- · Versatile use in the entire transport sector



Weidmüller ₹ 2712630000





High-current terminal solutions

Our high-current terminals are resistant to vibration, shock, and climatic conditions, making them ideal for use in engine compartments or on train bogies, for example. They can withstand large mechanical stresses and are characterised by their high electromagnetic compatibility.



Klippon® K

Our robust and resistant enclosures feature IP protection from IP66 to IP68, according to requirements. The customer-specific production in our Application Centers ensures quick assembly and a low risk of failure.



Klippon® STB

Extreme stability and corrosion resistance ensure the secure protection of devices and control components even in the harsh environments that are typical of the rail and shipping industries. Optimal sealing properties allow for use in extreme temperature ranges of between -60°C and +100°C.

2712630000 **Weidmüller № B.9**

Comply with international standards in the energy supply sector Efficient and safe solutions with Klippon[®]

Alongside renewable energies such as wind and solar, the generation of energy from gas, coal and nuclear power will remain a key part of the world's energy mix for a long time to come. Our range of products therefore also features solutions for the specific requirements of the traditional energy sector.

With our complete solutions for all types of energy generation and supply, we can help you to guarantee the safe and reliable operation of your systems while also ensuring maximum availability. We provide you with the right Klippon® products for industrial solutions, harsh environments, explosive risk zones and safety-relevant applications – naturally with all of the market-specific certifications and approvals.

Your special advantages:

- International approvals and certifications
- Modified products for industry-specific requirements
- High resistance to weathering and corrosion
- Resistance to vibration, shock, and climatic conditions
- Compliance with explosion protection guidelines



Weidmüller ₹2 2712630000





Customer-specific solutions

Klippon® products are modified, assembled and approved in line with the respective sector. They comply with all of the required standards and guidelines on explosion protection and are resistant to vibrations, shock, and climatic conditions. For safe use in containment or noncontainment areas.



Robust plastic enclosure

Klippon® plastic enclosures are extremely resistant to weather and corrosion, making them perfectly suited for use in the photovoltaic sector. International approvals and standards guarantee maximum security.



Intelligent accessories

Cable glands in protection classes IP54 to IP66, IP67 and IP69k are available as accessories. These cable glands are suitable for the most diverse applications and also cover high temperature ranges.

2712630000 **Weidmüller ₹** B.11

Safely control work processes in hazardous areas on site Certified Klippon[®] Protect control and display elements

Global demand for energy sources is on the rise. This presents a range of new challenges for the process industry: from research into new energy sources through to their processing and consumption.

Klippon® products satisfy these requirements with innovative technologies and active safety concepts. They ensure secure connections between the interfaces for different areas and guarantee safe, effective, and sustainable operation within the processes. Klippon® Protect control and display elements support all areas of automation within the process industry.

Your special advantages:

- Innovative control and display elements for an extremely wide range of automation applications
- Robust enclosure solutions with comprehensive protection for the assembled components
- Convenient independent engineering with the Weidmüller Configurator
- Professional advice during the engineering process on request
- Certified products that comply with the latest local and international standards including ATEX and IECEx.



Weidmüller ₹ 2712630000





Klippon® Control Station

The robust "on-site control station" is available in customer-specific optimised versions, with different enclosure materials and assembled components. Perfect for individual project solutions with international approvals for explosive risk zones.



Klippon® TB

The robust enclosures with electro-polished surfaces are perfectly suited to harsh environments, e.g. for use as distributor enclosures in offshore, food and beverage applications. The sealing system can withstand high operating temperatures and offers IP66/67 protection against moisture and dust.



Klippon® Services

Order specific enclosure solutions with explosion protection for your application, and make the most of the professional consulting and engineering services offered by our advisors – or carry out the engineering work yourself using the Weidmüller Configurator.

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Metal enclosures









Material
Material Specification
·
Sea water resistance
UV resistance
Halogen free / cadmium free
Surface finish
Intended use

Klippon® TB MH
⟨Ex⟩
Stainless steel
Stainless steel 1.4404 (316L),
enclosure 1.50 mm
very good
very good
x / x
electropolished
Explosive hazard areas, offshore, oil
and gas industry, chemical industry,

process industry

Fitting for a padlock

Klippon® I B QL		
€x>		
Stainless steel		
Stainless steel 1.4404 (316L),		
enclosure 1.50 mm		
very good		
very good		
x/x		
electropolished		
Explosive hazard areas, offshore, oil		
and gas industry, chemical industry,		

•
ard areas, offshore, oil
stry, chemical industry,
cess industry

⟨£x⟩
Stainless steel
Stainless steel 1.4404 (316L),
enclosure 1.50 mm
very good
very good
x / x
electropolished

Explosive hazard areas, offshore, oil and gas industry, chemical industry, process industry

	Stainless steel
Stair	less steel 1.4301 (304),
enclos	sure 1.50 mm, (1.25 mm)
	very good
	very good
	x / x
Br	ushed - grain size 240

Machine construction, transport, power

Dimensions				
H x W x D (min.) in mm	229x152x133	229x152x133	229x152x133	300x200x150
H x W x D (max.) in mm	980x740x200	980x740x200	980x740x200	800x600x220
Geometry	3 standard depths	3 standard depths	3 standard depths	2 standard depths
Specific characteristics				
Gland plates	0,1,2,3,4	0,1,2,3,4	0,1,2,3,4	0,1
Type of gasket	Flat gasket	Flat gasket	Flat gasket	Flat gasket and foam seal
Seal material	Silicone	Silicone	Silicone	EPDM, polyurethane (PUR) foam
Enclosure attachment	4 or 6 mounting feet	4 or 6 mounting feet	4 or 6 mounting feet	Direct mounting
	with 11 mm hole size	with 11 mm hole size	with 11 mm hole size	(9 mm mounting holes on rear wall) or via
				mounting feet (optionally available)
Installation mounting	4 or 6 mounting bolts	4 or 6 mounting bolts	4 or 6 mounting bolts	Welded mounting bracket
·	with M6 threaded holes	with M6 threaded holes	with M6 threaded holes	-
Temperature range	-60 °C+135 °C (IP66)	-60 °C+135 °C	-60 °C+135 °C (IP66)	-40 °C+85 °C
remperature range	-60 °C+105 °C (IP67)	-00 C+133 C	-60 °C+105 °C (IP67)	40 0 03 0
Impact resistance	IK 09 (10J) in accordance with DIN EN 50102 /	IK 09 (10J) in accordance with DIN EN 50102 /	IK 09 (10J) in accordance with DIN EN 50102 /	IK 09 (10J) in accordance with
impact resistance	7J in accordance with IEC 60079-0	7J in accordance with IEC 60079-0	7J in accordance with IEC 60079-0	IEC 62208
IP - protection class	IP66. IP67 /	IP66 /	IP66, IP67 /	IP66 /
•	•		' '	/
NEMA protection class	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 12	Nema 3, Nema 4x, Nema 5
Flammability rating				
Surface resistance (in ohms)				
Approvals				
ATEX AEx	X	X	X	
CCOE / INMETRO	X	X	X	
cULus	In preparation / x	In preparation / x	In preparation / x	
EAC	X	X	X	X
	X	X	X	
NEDEN / MOONA	X	X	X	
NEPSI / KOSHA	x/x	x/x	x/x	
RMR / LR / DNV GL	x / - / x	x / - / x	x / - / x	-/-/x
Configuration	lid bisses	tid binner	Demouphle lid	Lid binges
	Lid hinges	Lid hinges	Removable lid	Lid hinges
	Removable lid	Gland plates	Gland plates	Gland plates
	Gland plates	Welded mounting feet	Welded mounting feet	Direct mounting, Optional mounting feet
	Welded mounting feet	Quarter lock		Quarter lock
	Fixing for a selled.			





Material
Material Specification
·
Sea water resistance
UV resistance
Halogen free / cadmium free
Surface finish
Intended use

Klippon® STB			
(£ x)			
Stainless steel	Sheet steel		
Stainless steel 1.4404	Powder-coated		
(316L) 1.50 mm	steel sheet 1.0330		
very good	good		
very good	insufficient		
x / x	x / x		
electropolished, Mirror-polish	powder-coated		
Ex areas,	Packing industry,		
packing industry,	railways, shipping,		
railways, shipping, process industry	process industry		

120x120x80 250x400x130 5 standard depths

Klippon® STB		Klippon® K	
⟨£x ⟩		€ x	
inless steel	Sheet steel	Alum	inium
ss steel 1.4404	Powder-coated	High quality aluminium alloy (Al-Si1:	
SL) 1.50 mm	steel sheet 1.0330		
ery good	good	good	
ery good	insufficient	very good	
x / x	x / x	x / x	
tropolished, rror-polish	powder-coated	neutral, powder-coated	
x areas, ing industry, nys, shipping, ess industry	Packing industry, railways, shipping, process industry	Ex-areas, process industry, transport, railways, shipping, port facilities, packaging, mechanical engineering	

11 M/ B/ :):
H x W x D (min.) in mm
H x W x D (max.) in mm
Geometry
Specific characteristics
Gland plates
Type of gasket
Seal material
Enclosure attachment
Installation mounting
motanation mounting
Temperature range
Impact resistance
IP - protection class
NEMA protection class
Flammability rating
Surface resistance (in ohms)
Approvals
ATFX
AFx
CCOE / INMETRO
cULus
FAC:
2,10
IECEX
NEPSI / KOSHA
RMR / LR / DNV GL
Configuration

Ex-version	Industrial version
none	none
Flat gasket	Flat gasket
Silicone	Silicone
External holders	External holders
with 8 mm holes	with 8 mm holes
20 mm C-rail	20 mm C-rail
welded to the	welded to the
enclosure	enclosure
-60 °C+100 °C	-60 °C+120 °C
7J in accordance	IK 09 (10J) in accordance
with IEC 60079-0	with DIN EN 50102
IP66 /	IP66
Nema 4, 4x	
Х	
X	
- / x	
Х	
Х	
X	
-/x	
x/x/x	x / x / -
TAS 20 C	-profile rail

TAS 20 C-profile rail
Welded mounting feet
Earth studs in enclosure lid
and base

50x4	15x30
230x2	80x111
11 standa	ard depths
Ex-version	Industrial version
none	none
Shaped gasket	Shaped gasket
Silicone	Chloroprene, Silicone
4 holes for M4	4 holes for M4
to M6 screws	to M6 screws
M4 to M6	M4 to M6
threaded holes	threaded holes
-60 °C+135 °C	-40 °C+80 °C (CR); -60 °C+135 °C (VMQ)
7J in accordance	IK 09 (10J) in accordance
with IEC 60079-0	with DIN EN 50102
IP66, IP67 /	IP66, IP67, IP68 /
Nema 4x	Nema 4x
NCIIIG TX	Neilla 4x
Х	
	Х
X	Х
Х	
x / - / x	x / - / x

Internal earthing internal earthing screw in the screw in the enclosure base enclosure base an external earth stud

Plastic enclosures









Material		
Material	Specification	
Sea wate	r resistance	
UV resist	ance	
Halogen	ree / cadmiu	m free
Surface f	nish	

Intended use

Klippon® POK	
€x	
Poly	ester
Glass-fibre reinfo	rced polyester in
accordance w	ith DIN 16913
very	good
go	od
X ,	/ x
Grey (indust	rial version),
Black (E)	version)
Ex-areas, ener	gy production,
transportation, p	rocess industries,
port fa	cilities

75x80x55

250x600x120

Polyester	
Glass-fibre reinforced polyester,	
polycarbonate transparent cover	
very good	
good	
x / x	
grey	
Building installation, transportation,	

Building installation, transportation,	В
energy production, building sites,	
manufacturing industry, packaging	n
industry	

IVIPC	
Polycarbonate	
very good	
good	
x / x	
grey	
Building installation, transportation,	Building in

energy production, building sites, manufacturing industry, packaging industry

FPC
Polycarbonate
very good
good
x / x
grey

Building installation, transportation, energy production, building sites, manufacturing industry, packaging industry

Dillionolollo	
H x W x D (min.) in mm	
H x W x D (max.) in mm	
Geometry	
Specific characteristics	
Gland plates	
Type of gasket	
Seal material	
Enclosure attachment	
Installation mounting	
_	
Temperature range	
The state of the s	
Impact resistance	
IP - protection class	
ii protection class	
Flammability rating	
rianinability rating	
Surface resistance (in ohms)	
Approvals	
ATEX	
AEx	
CCOE / INMETRO	
EAC	
cULus	
IECEx	
NEPSI / KOSHA	
RMR / LR / DNV GL	

5 standa	rd depths
Ex version	Industrial version
(Black)	(grey)
none	none
Shaped seal	Shaped seal
Silicone	Chloroprene
4 holes for M4	4 holes for M4
to M6 screws	to M6 screws
M4 to M6	M4 to M6
threaded holes	threaded holes
-55 °C+100 °C	-40 °C+100 °C
7J in accordance	IK 08 (5J) in accordance
with IEC 60079-0	with DIN EN 50102
IP66	IP66
UL94 V0	UL94 VO
<10 ⁹	1012
Х	
Х	
Х	X
Х	X
Х	
- / x	
x / x / x	-/x/x
-	crews for the
mounting plate	

186x151x140
603x603x175/210
3 standard depths
none
O-ring
Polyurethane
4 holes or external mounting brackets
(accessory)
4 or 6 clamping screws M4
-50 °C+130 °C (Continuous temperature
max. 70 °C) (grey);
-35°C+120°C ((Continuous temperature
max. 70 °C) (transparent)
IKO8 (5J) in accordance with IEC 62208,
IK10 (20J) in accordance with IEC 62262
IP66 (transparent lid)
IP67 (grey lid)
UL94 HB (grey),
V2 (transparent)
10 ¹²
grey or transparent lid

s or external mounting brackets	4 holes or exte
(accessory)	(a
or 6 clamping screws M4	Self-ta
+130 °C (Continuous temperature	
max. 70 °C) (grey);	-50 °C
+120°C ((Continuous temperature	-40 °C+6
max. 70 °C) (transparent)	
I) in accordance with IEC 62208,	IK
J) in accordance with IEC 62262	IK 06
IP66 (transparent lid)	II
IP67 (grey lid)	
UL94 HB (grey),	
V2 (transparent)	
1012	
grey or transparent lid	grey or

125x75x75	200x200x132
250x175x150	600x400x132
4 standard depths	1 standard depth
none	none
Foam seal	Foam seal
Polyurethane	Polyurethane
4 holes or external mounting brackets	4 holes or external mounting brackets
(accessory)	(accessory)
Self-tapping screws	Self-tapping screws
-50 °C+100 °C (grey);	-50 °C+100 °C (grey);
-40 °C+60 °C (transparent)	-40 °C+60 °C (transparent)
IK 08 (grey),	IK 08 (grey),
IK 06 (transparent)	IK 06 (transparent)
IP66, IP67	IP66, IP67
V2	V2
1016	1016

r transparent lid grey or transparent lid

Drawing design - For chapter C

The drawings contained in chapter C are constructed in the following way.

To identify the enclosure side views, these are marked with the letters A, B, C, D, E, and F. The schematic 3D representations shown underneath are of an enclosure that has been wall mounted.

F shows the view of the enclosure lid (front aspect),

E shows the interior surface of the enclosure (rear wall of the enclosure with the cover removed).

A shows the view of the enclosure from above and

B the view of the enclosure from underneath.

C shows the left and

D the right side of the enclosure.

E is the front view of the enclosure interior with the cover removed (enclosure rear wall).

You can find the dimensions of the enclosure sides for all enclosure sizes in each drawing.



 $\mathbf{A} = \mathsf{Top}$

 $\mathbf{B} = Bottom$

 $\boldsymbol{C} = Left$

 $\mathbf{D} = Right$

E = Enclosure rear wall

F = Enclosure lid

Overview of dimensions

Klippon® TB MH – Multi Hinge /

		Dimensions in mm
		Height x width x depth
	Klippon® TB MH	
	Klippon® TB QL	229 x 152 x 133
_	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	260 x 260 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	260 x 260 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	306 x 306 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	306 x 306 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	350 x 260 x 150
	Klippon® TB FS	
	Klippon® TB MH	
_	Klippon® TB QL	350 x 260 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	400 x 300 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	400 x 300 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	458 x 382 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	458 x 382 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	480 x 480 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	480 x 480 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	550 x 350 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	550 x 350 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	620 x 450 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	620 x 450 x 200
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	762 x 508 x 150
	Klippon® TB FS	
	Klippon® TB MH	
	Klippon® TB QL	762 x 508 x 200
	Klippon® TB FS	

Klippon $^{\scriptsize (8)}$ TB MH – Multi Hinge /

Klippon® TB QL – Quarter Lock / Klippon® TB FS – Fixing Screw Page C.1			Page C.10
		Dimensions in mm Height x width x depth	
	Klippon® TB MH Klippon® TB QL Klippon® TB FS	914 x 610 x 150	
	Klippon® TB MH Klippon® TB QL Klippon® TB FS	914 x 610 x 200	
	Klippon® TB MH Klippon® TB QL Klippon® TB FS	980 x 740 x 200	
Note		Additional enclosure sizes available	on request.

Klinnon®	FRi NI	- Quarter	l ock
KIIIUUUOII -	EDI UL	– vuarter	LUCK

D	
Pane	! 14

Klippon® EBi QL –	Quarter Lock	Page C.48
		Dimensions in mm Height x width x depth
	Klippon® EBi QL	300 x 200 x 150
	Klippon® EBi QL	300 x 300 x 150
	Klippon® EBi QL	300 x 300 x 220
	Klippon® EBi QL	400 x 300 x 150
	Klippon® EBi QL	400 x 300 x 220
	Klippon® EBi QL	400 x 400 x 220
	Klippon® EBi QL	500 x 400 x 220
	Klippon® EBi QL	500 x 500 x 220
	Klippon® EBi QL	600 x 400 x 220
	Klippon® EBi QL	600 x 600 x 220
	Klippon® EBi QL	800 x 600 x 220
Note		Additional enclosure sizes available on request.

C.6 Weidmüller 🏖 2712630000

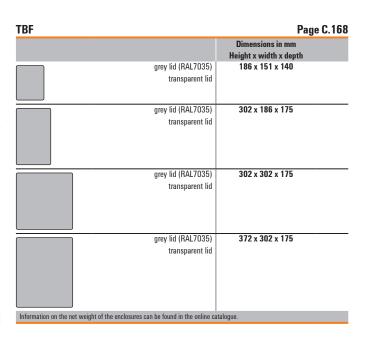
Klippon® STB		Page C.	64 Klippon® K	Page C.92
		Dimensions in mm Height x width x depth		Dimensions in mm Height x width x depth
	1.4404 (316L), mirror polished	120 x 120 x 80	unpainted Ex (S)	70 x 100 x 45
	1.4404 (316L), electropolished		unpainted (CR)	
	MS RAL 7032		unpainted (S)	
	1.4404 (316L), mirror polished	150 x 120 x 80	RAL 7001 Ex (S)	
	1.4404 (316L), electropolished		RAL 7001 (CR)	
	MS RAL 7032		RAL 7001 (S)	
	1.4404 (316L), mirror polished	150 x 150 x 90	unpainted Ex (S)	80 x 125 x 57
	1.4404 (316L), electropolished		unpainted (CR)	
	MS RAL 7032		unpainted (S)	
	1.4404 (316L), mirror polished	190 x 150 x 90	RAL 7001 Ex (S) RAL 7001 (CR)	
	1.4404 (316L), electropolished		RAL 7001 (Ch) RAL 7001 (S)	
	MS RAL 7032		unpainted Ex (S)	70 x 165 x 45
	1.4404 (316L), mirror polished	190 x 190 x 100	unpainted EX (O)	70 X 100 X 10
	1.4404 (316L), electropolished	100 X 100 X 100	unpainted (S)	
	MS RAL 7032		RAL 7001 Ex (S)	
	WIO TIAL 7002		RAL 7001 (CR)	
	1.4404 (316L), mirror polished	250 x 250 x 120	RAL 7001 (S)	
	1.4404 (316L), electropolished		unpainted Ex (S)	80 x 175 x 57
	MS RAL 7032		unpainted (CR)	
			unpainted (S)	
	1.4404 (316L), mirror polished	160 x 380 x 120	RAL 7001 Ex (S)	
	1.4404 (316L), electropolished		RAL 7001 (CR)	
	MS RAL 7032		RAL 7001 (S)	
	1.4404 (316L), mirror polished	250 x 400 x 130	unpainted Ex (S)	80 x 250 x 55
	1.4404 (316L), electropolished		unpainted (CR)	
	MS RAL 7032		unpainted (S)	
			RAL 7001 Ex (S)	
Information on the net	weight of the enclosures can be found in t	he online catalogue MS: Mild steel	RAL 7001 (CR) RAL 7001 (S)	
morniation on the net	roight or the cholobarde can be round in t	no onimo outuloguo. Mo. mina otos.	unpainted Ex (S)	82 x 130 x 72
			unpainted EX (O)	32 X 133 X 12
			unpainted (S)	
			RAL 7001 Ex (S)	
			RAL 7001 (CR)	
			RAL 7001 (S)	
Klippon® K		Page C.	unpainted Ex (S)	120 x 122 x 81
		Dimensions in mm	unpainted (CR)	
		Height x width x depth	unpainted (S)	
	unpainted (S)	45 x 50 x 30	RAL 7001 Ex (S)	
	unpainted (CR)		RAL 7001 (CR)	
	RAL 7001 (CR)		RAL 7001 (S)	120 170 00
	RAL 7001 (S)	64 x 58 x 34	unpainted Ex (S)	130 x 170 x 90
	unpainted (S) unpainted (CR)		unpainted (CR) unpainted (S)	
	RAL 7001 (CR)		RAL 7001 Ex (S)	
	RAL 7001 (S)		RAL 7001 (CR)	
-	unpainted (S)	64 x 98 x 34	RAL 7001 (SI)	
	unpainted (CR)		unpainted Ex (S)	120 x 220 x 81
	RAL 7001 (CR)		unpainted EX (CF)	
	RAL 7001 (S)		unpainted (S)	
<u> </u>	unpainted Ex (S)	70 x 70 x 45	RAL 7001 Ex (S)	
	unpainted (CR)		RAL 7001 (CR)	
	unpainted (S)		RAL 7001 (S)	
	RAL 7001 Ex (S)		unpainted Ex (S)	160 x 160 x 91
	RAL 7001 (CR)		unpainted (CR)	
	RAL 7001 (S)	90 v 75 v 57	unpainted (S)	
	unpainted Ex (S)	80 x 75 x 57	RAL 7001 Ex (S)	
	unpainted (CR) unpainted (S)		RAL 7001 (CR)	
	RAL 7001 Ex (S)		RAL 7001 (S)	
	RAL 7001 (CR)			
	RAL 7001 (S)			
Information on the net	weight of the enclosures can be found in t	he online catalogue.	Information on the net weight of the enclosures can be found in	the online catalogue.
			g	<u> </u>

Overview of dimensions

Klippon® K			Page C.92
		Dimensions in mm	
		Height x width x depth	
	unpainted Ex (S)	160 x 200 x 100	
	unpainted (CR)		
	unpainted (S)		
	RAL 7001 Ex (S)		
	RAL 7001 (CR)		
	RAL 7001 (S)		
	unpainted Ex (S)	160 x 260 x 91	
	unpainted (CR)		
	unpainted (S)		
	RAL 7001 Ex (S)		
	RAL 7001 (CR)		
	RAL 7001 (S)		
	unpainted Ex (S)	160 x 350 x 100	
	unpainted (CR)		
	unpainted (S)		
	RAL 7001 Ex (S)		
	RAL 7001 (CR)		
	RAL 7001 (S)		
	unpainted Ex (S)	230 x 280 x 111	
	unpainted (CR)		
	unpainted (S)		
	RAL 7001 Ex (S)		
	RAL 7001 (CR)		
	RAL 7001 (S)		
Information on the net w	eight of the enclosures can be found in t	the online catalogue.	
	· · · · · · · · · · · · · · · · · · ·		

Klippon® POK			Page C.128
		Maße [mm] Höhe x Breite xTiefe	Gewicht [g]
	RAL 7001 RAL 9011	160 x 560 x 91	
	RAL 7001 RAL 9011	250 x 255 x 121	
	RAL 7001 RAL 9011	250 x 400 x 121	
	RAL 7001 RAL 9011	250 x 600 x 121	
	RAL 7001 RAL 9011	405 x 400 x 121	
	RAL 7001 RAL 9011	250 x 255 x 161	
	RAL 7001 RAL 9011	250 x 400 x 161	
Information on the net weight of the enclo	osures can be found in the	online catalogue.	

Klippon® POK			Page C.128
		Dimensions in mm	
		Height x width x depth	
	AL 7001	75 x 80 x 56	
R.	AL 9011		
R.	AL 7001	75 x 110 x 55	-
R.	AL 9011		
R	AL 7001	75 x 160 x 55	
R	AL 9011		
R	AL 7001	75 x 190 x 55	
R.	AL 9011		
R	AL 7001	75 x 230 x 55	
R.	AL 9011		
R	AL 7001	120 x 122 x 91	
R.	AL 9011		
R	AL 7001	120 x 220 x 91	
R.	AL 9011		
R	AL 7001	160 x 160 x 91	
R	AL 9011		
R	AL 7001	160 x 260 x 91	
R	AL 9011		
R	AL 7001	160 x 360 x 91	
R	AL 9011		
Information on the net weight of the enclosures can l	e found in the	online catalogue.	



C.8 Weidmüller ₹ 2712630000

TBF		Page C.168
		Dimensions in mm
		Height x width x depth
Į.	rey lid (RAL7035)	488 x 302 x 175
	transparent lid	488 x 302 x 210
	rey lid (RAL7035)	558 x 302 x 175
	transparent lid	558 x 302 x 210
,	rey lid (RAL7035)	603 x 302 x 175
	transparent lid	603 x 302 x 210
į.	rey lid (RAL7035)	603 x 372 x 175
	transparent lid	603 x 372 x 210
	rey lid (RAL7035) transparent lid	603 x 605 x 175 603 x 605 x 210
Information on the net weight of the enclosures can be	e found in the online ca	atalogue.

MPC	Page C.176
	Dimensions in mm
	Height x width x depth
grey lid (RAL7035)	75 x 125 x 75
transparent lid	
grey lid (RAL7035)	75 x 125 x 100/120
transparent lid	
grey lid (RAL7035)	120 x 120 x 75/100/120
transparent lid	
grey lid (RAL7035)	120 x 175 x 75/100/120/150
transparent lid	
grey lid (RAL7035)	175 x 175 x 75 /100/120/150
transparent lid	
grey lid (RAL7035)	175 x 250 x 100
transparent lid	175 X 250 X 100
transparent nu	
grey lid (RAL7035)	180 x 250 x 75/150
transparent lid	

FPC	Page C.184
	Dimensions in mm Height x width x depth
grey lid (RAL7035)	200 x 200 x 132
transparent lid	
grey lid (RAL7035)	200 x 300 x 132
transparent lid	
grey lid (RAL7035)	200 x 400 x 132
transparent lid	
grey lid (RAL7035)	300 x 300 x 132
transparent lid	
grey lid (RAL7035)	300 x 400 x 132
transparent lid	
grey lid (RAL7035)	400 x 600 x 132
transparent lid	

Klippon® TB enclosure series

Stainless steel enclosures for use within hazardous areas

The Klippon® TB enclosure series offers excellent performance characteristics and meets the stricter requirements of hazardous areas.

The enclosures are available in twelve sizes and three standard depths. They consist of 1.4404 (316L) stainless steel and meet the requirements of the IP66 and IP67 protection classes. The enclosures are tested with this equipment to the latest international standards, including EN 62208 and EN 60079.

Temperature and sealing characteristics

The enclosures come standard with a silicone seal for use under extreme temperatures.



Safe protection

An integrated dust and moisture channel prevents dirt and moisture from penetrating when the enclosure is opened. The external earthing stud is equipped with an IP66/67 certified sealing mechanism and is protected against twisting.



Versatile installation options

Mounting bolts are located within the enclosure for installing rails and mounting plates. Weldedon mounting feet provide for a fast, secure and stable wall mounting.





Safety and stability

The different sealing systems prevents unauthorized access to the enclosure. Welded on inner thread sockets provide a stable attachment mechanism for gland plates and protect against leaks.



Easy installation

The enclosures are delivered with up to four gland plates so that cable glands can be easily and quickly installed and attached.



Klippon® cable glands

Our complete series of IP66 and IP68 cable glands and accessories are an excellent compliment to the Klippon® TB enclosure series. Cable glands enable the connection of armoured and unarmoured cables from M20 to M75.



Approvals

The Klippon® TB range of enclosures has been awarded international approvals.



Industrial segments

The enclosures are designed for use in a variety of applications and for use in hazardous areas in particular. Typical applications include the process industry, the petrochemicals and power generation. All enclosures are tested and approved in compliance with the latest international standards, including ATEX and IECEx according to EN 60079.



Customer-specific solutions

Weidmüller's customer-specific-service provides comprehensive consultation, engineering and installation for modified enclosures. The enclosures can be modified during the production process according to customer demands and completed with various accessory components. There is a wide range of customer specific options available, such as enclosures with pre drilled holes and cutouts, various surfaces and materials, locking options and alternative sizes. Holders for documents and rating labels, door retainers, rain shields and many more accessories can also be installed on the enclosures per customer request.



Klippon® TB MH - Multi Hinge

Steel enclosures

for use in industrial and in potentially explosive atmospheres

The Klippon® TB enclosure range features excellent performance characteristics, even under the most difficult environmental conditions, and also comply with the stricter requirements of potentially explosive atmospheres found in the process or power generation industries. The Klippon® TB MH enclosure range offers further improvements to a product line that is already successfully leading the market.

Weidmüller manufactures and supplies the enclosures to match customer specifications - fully fitted with terminals, electronics and cable glands.

- · Available in 12 sizes and 3 standard depths, with customer-specific sizes on request
- The gasket is protected against compression
- Completely removable padlock tab
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection
- Lid can be removed without a tool
- Welded mounting feet
- International approvals























Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponTB

Overview of enclosures

Ordering data

Description	Height x width x depth in mm	0 Gland Plates	1 Gland Plate (below)	2 Gland Plates (above + below)	3 Gland plates (below + sides)	4 Gland plates (all sides)	Reference product
KTB MH 221513 S4E *	229 x 152 x 133	1194550000	1194560000	1194570000	1194580000	1194590000	Klippon® TB10
KTB MH 262615 S4E_*	260 x 260 x 150	1194600000	1194610000	1194620000	1194630000	1194640000	Klippon® TB10A
KTB MH 262620 S4E *	260 x 260 x 200	1194650000	1194660000	1194670000	1194680000	1194690000	Klippon® TB10A
KTB MH 303015 S4E_*	306 x 306 x 150	1194700000	1194710000	1194720000	1194730000	1194740000	Klippon® TB11
	306 x 306 x 190						- ''
KTB MH 303020 S4E_*		1194750000	1194760000	1194770000	1194780000	1194790000	Klippon® TB11
KTB MH 352615 S4E_*	350 x 260 x 150	1194800000	1194810000	1194820000	1194830000	1194840000	Klippon® TB11A
KTB MH 352620 S4E_*	350 x 260 x 200	1194850000	1194860000	1194870000	1194880000	1194890000	Klippon® TB11A
KTB MH 403015 S4E_*	400 x 300 x 150	1194900000	1194910000	1194920000	1194930000	1194940000	•
KTB MH 403020 S4E_*	400 x 300 x 200	1194950000	1194960000	1194970000	1194980000	1194990000	
KTB MH 453815 S4E_*	458 x 382 x 150	1195000000	1195010000	1195020000	1195030000	1195040000	Klippon® TB12
KTB MH 453820 S4E_*	458 x 382 x 200	1195050000	1195060000	1195070000	1195080000	1195090000	Klippon® TB12
KTB MH 484815 S4E_*	480 x 480 x 150	1195100000	1195110000	1195120000	1195130000	1195140000	Klippon® TB12A
KTB MH 484820 S4E_*	480 x 480 x 200	1195150000	1195160000	1195170000	1195180000	1195190000	Klippon® TB12A
KTB MH 553515 S4E_*	550 x 350 x 150	1195200000	1195210000	1195220000	1195230000	1195240000	Klippon® TB12B
KTB MH 553520 S4E_*	550 x 350 x 200	1195250000	1195260000	1195270000	1195280000	1195290000	Klippon® TB12B
KTB MH 624515 S4E_*	620 x 450 x 150	1195300000	1195310000	1195320000	1195330000	1195340000	Klippon® TB12D
KTB MH 624520 S4E_*	620 x 450 x 200	1195350000	1195360000	1195370000	1195380000	1195390000	Klippon® TB12D
KTB MH 765015 S4E_*	762 x 508 x 150	1195400000	1195410000	1195420000	1195430000	1195440000	Klippon® TB13
KTB MH 765020 S4E_*	762 x 508 x 200	1195450000	1195460000	1195470000	1195480000	1195490000	Klippon® TB13
KTB MH 916115 S4E_*	914 x 610 x 150	1195500000	1195510000	1195520000	1195530000	1195540000	Klippon® TB14
KTB MH 916120 S4E_*	914 x 610 x 200	1195550000	1195560000	1195570000	1195580000	1195590000	Klippon® TB14
KTB MH 987420 S4E_*	980 x 740 x 200	1195600000	1195610000	1195620000	1195630000	1195640000	

Technical Overview Technical data

Enclosure material*	Stainless steel 1.4404 (316L) 1.5 mm		
Surface finish	electropolished		
IP protection class	IP66 / IP67 to DIN EN 60529		
NEMA protection classes	3, 4x, 12		
Gland plates	1 - 4 (fixed with M6 hexagon head screws with 10 mm heads), optionally without a gland plate		
Gland plate thickness	3 mm (other thickness are available on request)		
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs		
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)		
Installation mounting	4 or 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rail		
Enclosure attachment	4 or 6 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)		
Lid opening	Lid can be fully removed without the use of tools, can be fitted on both sides, lid opening angle: 130°		
Cover attachment	4 hinges and M6 hex-head screws (AF 10) with slot		
Equipped for a padlock	Removable padlock fitting, for additional product security		
Impact resistance	7 J to IEC 60079-0, IK 09 (10J) to DIN EN 50102		
Gasket material	Silicone		
Operating temperature range	-60 °C+105 °C (IP66/IP67), -60 °C+135 °C (IP66)		
Torque - lid and gland plate screws	2.5 Nm		
Note	* Painted enclosures are available on request.		

Approvals for empty enclosures

	·			
ATEX certificate	IBExU14ATEX1028 U	EAC	RU-DE.08.B.00472	
ATEX marking	II 2G Ex eb IIC Gb	cULus	E243298	
	II 2D Ex tb IIIC Db	DNV GL	TAE000013S	
IECEx certificate	IECEx IBE 14.0004U	Russian Maritime Register	15.40073.250	
IECEx marking	Ex eb IIC Gb	CCOE	In preparation	
	Ex tb IIIC Db	INMETRO	IEx 17.0020U	
Nepsi Ex certificate	GYJ14.1308U	AEx	E223792	
Nepsi Ex marking	Ex e IIC Gb, DIP A21	Miscellaneous	EN 45545, DIN EN 15085-2/CL2	
Note	The Klippon® TB enclosure range can be pre-fitted in our customer specific production department according to your wishes.			

Approvals for control and distribution box

ATEX certificate	IBExU14ATEX1050	IECEx certificate	IECEx IBE 14.0013
ATEX marking	II 2G Ex eb IIC/IIB/IIA T6/T5/T4 Gb	IECEx marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb
	II 1G Ex ia IIC/IIB/IIA T6/T5/T4 Ga		Ex ia IIC/IIB/IIA T6/T5/T4 Ga
	II 2G Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb		Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb
	II 2D Ex tb IIIC T80°C/T95°C/T135°C Db		Ex tb IIIC T80°C/T95°C/T135°C Db
	II 1D Ex ia IIIC T80°C/T95°C/T135°C Da		Ex ia IIIC T80°C/T95°C/T135°C Da
	-60 °C ≤ Ta ≤ +40/+55/+90 °C		-60 °C+40/+55/+90 °C
Nepsi Ex certificate	GYJ14.1309	INMETRO certificate	IEx 17.0021
Nepsi marking	Ex e IIC T4T6 Gb	INMETRO marking	Ex eb IIC T6/T5/T4 Gb
	Ex ia IIC T4T6 Ga		Ex ia IIC T6/T5/T4 Ga
	Ex e ia IIC T4T6 Gb		Ex eb ia IIC T6/T5/T4 Gb
	DIP A21 T _A 85°CT _A 135°C		Ex tb IIIC T85°C/T100°C/T135°C Db IP66/IP67
	Ex ia D20 T85 °C T135 °C		Ex ia IIIC T85°C/T100°C/T135°C Da
EAC certificate	RUC-DE.08.B.01328	AEx certificate	E223792
EAC marking	II 2 G Ex eb IIC T6T4	AEx marking	Class I, Zone 1, AEx e IIC Gb T6T4
	II 2 G Ex e IIC T6T4 Gb		Class I, Zone 2, AEx e IIC Gc T6T4
	II 1 G Ex ia IIC T6T4		Class I Div.2 Group A,B,C,D T6T4
	II 1 G Ex ia IIC T6T4 Ga		Class II Div.2 Group F,G
	II 2(1) G Ex eb ia IIC T6T4		Zone 21, AEx th IIIC Db
	II 2(1) G Ex e ia IIC T6T4 Gb		
	II 2 D Ex tb IIIC T85°CT135°C		
	II 2 D Ex tb IIIC T85°CT135°C Db		
KOSHA certificate	16-AV4B0-0245X		
KOSHA marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb		
	Ex ia IIC/IIB/IIA T6/T5/T4 Ga		
	Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb		
	Ex tb IIIC T80°C/T95°C/T135°C Db		
	Ex ia IIIC T80°C/T95°C/T135°C Da		
	60 °C+40/+55/+90 °C		
Note	Labelling depends on the application layout. Limited to IP66 representative. Additional approvals available on request.	protection when used in temperatures greater	than 105 °C. For details of power dissipation, please contact your Weidmüller

Integrate, expand, and customise: the perfect supplement to every application

The fully structured range of system accessories for the Klippon® TB enclosure range allows you to easily adapt the enclosure to meet the specific requirements of every application.

The following options are available:

1 Document holder

Document holders for storage of important documents in the enclosure.

2 Earthing studs

Earthing studs are replaceable. Available in two versions - brass and stainless steel.

3 Gland plates

Gland plates are available as spares and also in various material thicknesses.

4 Mounting plates

Mounting plates with and without a drilling pattern, for horizontal and vertical mounting of rails, or components fitted directly.

5 Mounting hardware kits

Mounting hardware kits are available for quick and easy installation of label holders, mounting plates, gland plates, document holders, and rain hoods.

6 Door stay

A door stay prevent the door from being closed unintentionally, regardless of the mounting position of the enclosure.

This item is **only** available Ex-works.

7 Locking systems

Various locking systems are available for the safe securing of the enclosure. There are padlocks for the Klippon® TB MH enclosures and a range of lock inserts for the Klippon® TB QL enclosures.

8 Type label holder

A range of label holders are available for product identification.

9 Rain hoods

The rain hood provides an ideal, additional level of protection for the enclosure. Particularly useful against heavy rainfall or extreme levels of direct sunlight.









Klippon® TB MH 221513 Depth 133 mm



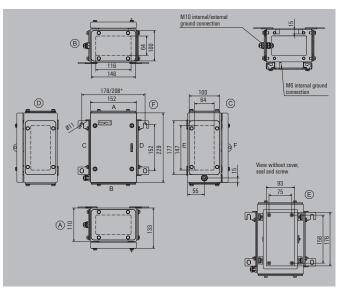
Height / Width / Depth 229 / 152 / 133 mm

Ordering data

Stainless steel 1.4404 3	Order No.	
	O gland plates	1194550000
	1 gland plate - positioned at the bottom (B)	1194560000
	1194570000	
3	B gland plates - positioned at bottom, left and right (B, C & D)	1194580000
4 gland p	lates - positioned at top, bottom, left and right (A, B, C & D)*	1194590000
Note *M	Minimum order quantity (20 pieces)	

Accessories

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193930000
With hole pattern, sheet steel, galvanised	2022050000
Stainless steel 1.4301 natural	1193810000
With hole pattern, natural stainless steel 1.4301	1257650000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006720
Vertical	8000006708
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2022770000
Left and right sides (C & D), electropolished stainless steel 1.4404	2022900000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256270000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256280000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281360000
Stainless steel 1.4404, electro-polished	1314090000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	1x26	1x10
	4 mm ²	1x21	1x8
	6 mm ²	1x16	1x6
7.	10 mm ²	1x13	1x4
	16 mm ²	1x10	1x3
	35 mm ²	1x7	1x2

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

T3 32 Mounting rail with clamping yoke technology SAK

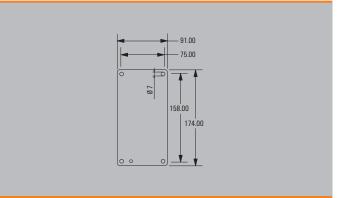
TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries			A/B	C/D
		M12	6	8
		M16	5	6
	5	M20	2	3
		M25	2	2
		M32	1	2
	123	M40	1	2
	191	M50	0	0
		M63	0	0
	_	M75	0	0
Note	Our IP 68 brass ca	able glands serve as a re	eference for these recomn	nended values.

Dimensions of mounting plate



Klippon® TB MH 262615 Depth 150 mm



Height / Width / Depth	260 / 260 / 150 mm
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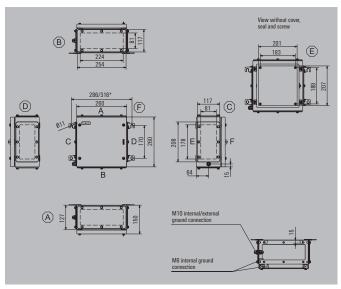
Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1194600000
1 gland plate - positioned at the bottom (B)	1194610000
2 gland plates - positioned at top and bottom (A & B)*	1194620000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194630000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1194640000
Note *Minimum order quantity (20 pieces)	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193950000
With hole pattern, sheet steel, galvanised	2022060000
Stainless steel 1.4301 natural	1193820000
With hole pattern, natural stainless steel 1.4301	1257660000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006721
Vertical	8000006709
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2022930000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023090000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256290000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256310000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281370000
Stainless steel 1.4404, electro-polished	1314100000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
Till and	2.5 mm ²	2x31	2x31
	4 mm ²	1x26	1x26
	6 mm ²	1x19	1x19
7.	10 mm ²	1x15	1x15
16	16 mm ²	1x12	1x12
	35 mm ²	1x9	1x9

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

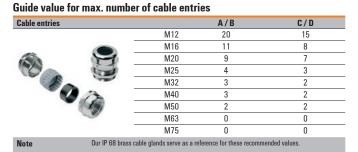
When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

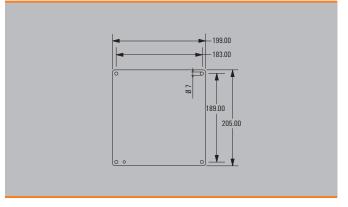
TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note



Dimensions of mounting plate



Klippon® TB MH 262620 Depth 200 mm



Height / Width / Depth	260 / 260 / 200 mm
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Ordering data

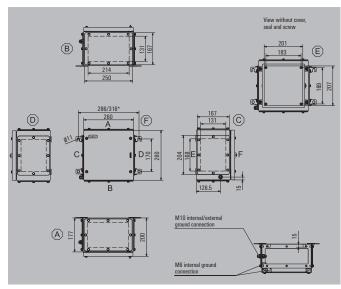
Stainless steel 1.4404 316L, electropolished	Order No.
O gland	plates 1194650000
1 gland plate - positioned at the botto	m (B) 1194660000
2 gland plates - positioned at top and bottom (A	& B)* 1194670000
3 gland plates - positioned at bottom, left and right (B, C	C & D) 1194680000
4 gland plates - positioned at top, bottom, left and right (A, B, C	& D)* 1194690000
Note *Minimum order quantity (20 pieces)	

Accessories

Note

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193950000
With hole pattern, sheet steel, galvanised	2022060000
Stainless steel 1.4301 natural	1193820000
With hole pattern, natural stainless steel 1.4301	1257660000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006721
Vertical	8000006709
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023100000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023110000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256320000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256330000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281380000
Stainless steel 1.4404, electro-polished	1314110000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
70 x 70 angled stainless steel 1.4301 130x50 stainless steel 1.4301 100x25 stainless steel 1.4301 Document holders For DIN A6 size documents Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) Earthing stud	12834500 12576400 12527800 12521900 12852000

*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	2x31	2x31
	4 mm ²	1x26	1x26
	6 mm ²	1x19	1x19
	10 mm ²	1x15	1x15
	16 mm ²	1x12	1x12
	35 mm ²	1x9	1x9

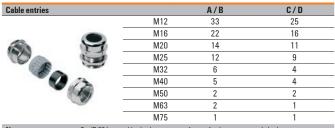
*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

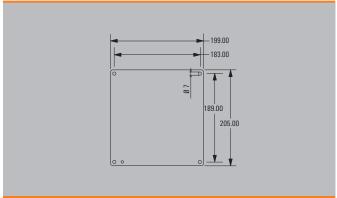
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries



Note Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 303015 Depth 150 mm



Height / Width / Depth	306 / 306 / 150 mm
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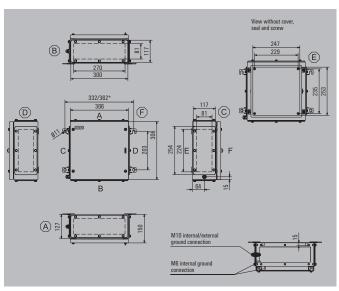
Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1194700000
1 gland plate - positioned at the bottom (B)	1194710000
2 gland plates - positioned at top and bottom (A & B)*	1194720000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194730000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1194740000
Note *Minimum order quantity (20 pieces)	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193960000
With hole pattern, sheet steel, galvanised	2022190000
Stainless steel 1.4301 natural	1193830000
With hole pattern, natural stainless steel 1.4301	1257670000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006722
Vertical	8000006710
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023120000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023130000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256340000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256350000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281390000
Stainless steel 1.4404, electro-polished	1314120000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	1x41	2x40
	4 mm ²	1x34	2x33
	6 mm ²	1x25	2x25
1011	10 mm ²	1x20	1x20
	16 mm ²	1x17	1x16
	35 mm ²	1x12	1x12

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

T3 32 Mounting rail with clamping yoke technology SAK

T3 15 Mounting rail with clamping yoke technology AKZ

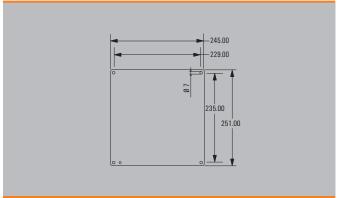
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	24	20
	M16	13	11
	M20	11	9
	M25	5	4
	M32	4	3
() () ()	M40	3	3
	M50	3	2
	M63	0	0
	M75	0	0

Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 303020 Depth 200 mm



Height / Width / Depth 306 / 306 / 200 mm

Ordering data

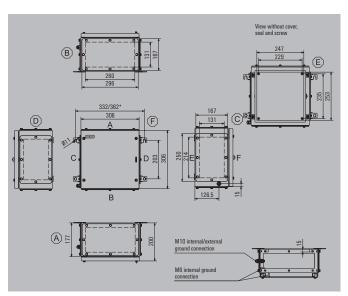
Stainless steel 1.4404 316L, electropolished	Order No.
O gland pla	tes 1194750000
1 gland plate - positioned at the bottom	(B) 1194760000
2 gland plates - positioned at top and bottom (A & I	B)* 1194770000
3 gland plates - positioned at bottom, left and right (B, C &	(D) 1194780000
4 gland plates - positioned at top, bottom, left and right (A, B, C & I	D)* 1194790000
Note *Minimum order quantity (20 pieces)	

Accessories

Note

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193960000
With hole pattern, sheet steel, galvanised	2022190000
Stainless steel 1.4301 natural	1193830000
With hole pattern, natural stainless steel 1.4301	1257670000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006722
Vertical	8000006710
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023140000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023150000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256360000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256370000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281400000
Stainless steel 1.4404, electro-polished	1314130000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	1x41	2x40
THE RESERVE	4 mm ²	1x34	2x33
	6 mm ²	1x25	2x25
1011	10 mm ²	1x20	1x20
	16 mm ²	1x17	1x16
	35 mm ²	1x12	1x12

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

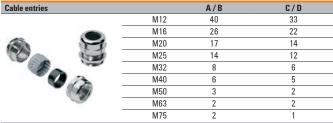
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

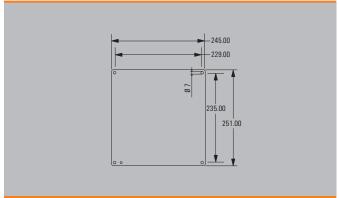
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 352615 Depth 150 mm



Height / Width / Depth 350 / 260 / 150 mm

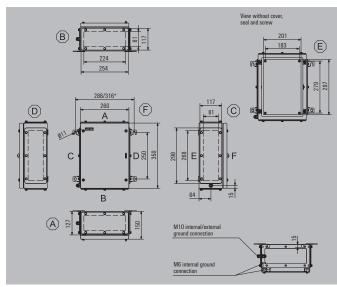
Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1194800000
1 gland plate - positioned at the bottom (B)	1194810000
2 gland plates - positioned at top and bottom (A & B)*	1194820000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194830000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1194840000
Note *Minimum order quantity (20 pieces)	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193970000
With hole pattern, sheet steel, galvanised	2022310000
Stainless steel 1.4301 natural	1193840000
With hole pattern, natural stainless steel 1.4301	1257680000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	12/4150000
Horizontally	8000006721
Vertical	8000006721
Stainless steel spacer M6 x 8, Set of 4	0000000711
10 mm length	0935110000
15 mm length	0935170000
20 mm length	0935120000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	0939140000
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023160000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023100000
Gland plates and screws - 6 mm	2023210000
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256380000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256390000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	1233230000
Stainless steel 1.4301, mirror-polished	1281410000
Stainless steel 1.4404, electro-polished	1314140000
Label holder	1011110000
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	1207010000
For DIN A6 size documents	1252780000
Set of fixings*	1202700000
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	.20020000
Stainless steel 1.4404, M10	1192690000
Otalilicas steel 1.4404, WITO	1102000000

*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	2x49	2x31
	4 mm ²	1x41	2x26
	6 mm ²	1x31	2x19
	10 mm ²	1x25	2x15
16	16 mm ²	1x20	1x12
	35 mm ²	1x15	1x9

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

T3 32 Mounting rail with clamping yoke technology SAK

T3 15 Mounting rail with clamping yoke technology AKZ

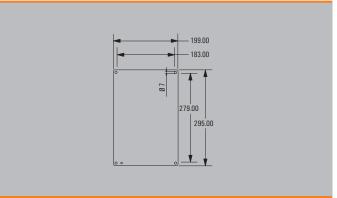
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	20	23
	M16	11	13
	M20	9	11
	M25	4	5
	M32	3	4
(2) (3)	M40	3	3
(19)	M50	2	3
	M63	0	0
	M75	0	0

Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 352620 Depth 200 mm



Height / Width / Depth 350 / 260 / 200 mm

Ordering data

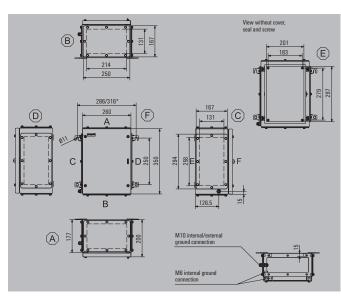
Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1194850000
1 gland plate - positioned at the bottom (B)	1194860000
2 gland plates - positioned at top and bottom (A & B)*	1194870000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194880000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1194890000
Note *Minimum order quantity (20 pieces)	

Accessories

Note

Order No.
1193970000
2022310000
1193840000
1257680000
0642600000
1274150000
8000006721
8000006711
0935110000
0935120000
0935130000
0935140000
2023230000
2023280000
1256410000
1256420000
1253230000
1281420000
1314150000
1279320000
1283450000
1257640000
1252780000
1252190000
1285200000
1192690000

*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	2x49	2x31
The state of the s	4 mm ²	1x41	2x26
	6 mm ²	1x31	2x19
1.	10 mm ²	1x25	2x15
16	16 mm ²	1x20	1x12
	35 mm ²	1x15	1x9

Note

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

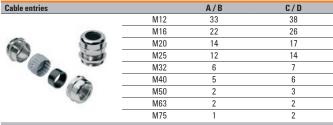
T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

T3 32 Mounting rail with clamping yoke technology SAK

T3 15 Mounting rail with clamping yoke technology AKZ

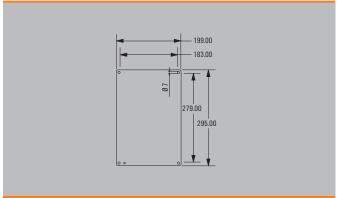
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries



Our IP 68 brass cable glands serve as a reference for these recommended values. Note

Dimensions of mounting plate



Klippon® TB MH 403015 Depth 150 mm



Height / Width / Depth	400 / 300 / 150 mm
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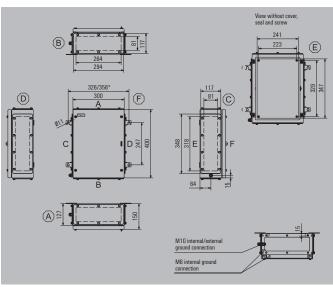
Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1194900000
1 gland plate - positioned at the bottom (B)	1194910000
2 gland plates - positioned at top and bottom (A & B)*	1194920000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194930000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1194940000
Note *Minimum order quantity (10 pieces)	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193980000
With hole pattern, sheet steel, galvanised	2022420000
Stainless steel 1.4301 natural	1193850000
With hole pattern, natural stainless steel 1.4301	1257690000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006723
Vertical	8000006712
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023320000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023330000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256430000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256440000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281430000
Stainless steel 1.4404, electro-polished	1314170000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately
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Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	2x59	3x39
THE PARTY NAMED IN	4 mm ²	2x49	3x32
	6 mm ²	1x37	2x24
10	10 mm ²	1x30	2x19
16	16 mm ²	1x24	2x16
	35 mm ²	1x18	1x11

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

T3 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

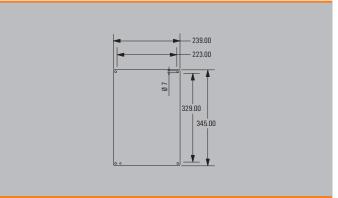
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	23	29
	M16	13	16
	M20	11	13
	M25	5	6
	M32	4	5
() () ()	M40	3	4
No.	M50	3	3
	M63	0	0
	M75	0	0

Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 403020 Depth 200 mm



Height / Width / Depth 400 / 300 / 200 mm

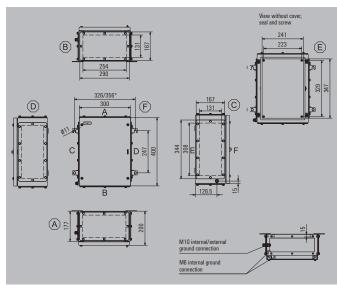
Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1194950000
1 gland plate - positioned at the bottom (B)	1194960000
2 gland plates - positioned at top and bottom (A & B)*	1194970000
3 gland plates - positioned at bottom, left and right (B, C & D)	1194980000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1194990000
Note *Minimum order quantity (10 pieces)	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193980000
With hole pattern, sheet steel, galvanised	2022420000
Stainless steel 1.4301 natural	1193850000
With hole pattern, natural stainless steel 1.4301	1257690000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006723
Vertical	8000006712
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023450000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023480000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256450000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256470000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281440000
Stainless steel 1.4404, electro-polished	1314180000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000

Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	2x59	3x39
	4 mm ²	2x49	3x32
	6 mm ²	1x37	2x24
7.	10 mm ²	1x30	2x19
	16 mm ²	1x24	2x16
	35 mm ²	1x18	1x11

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

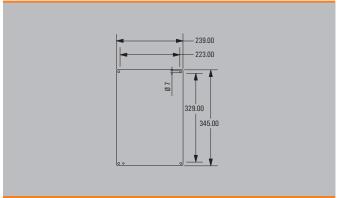
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	38	48
	M16	26	32
	M20	17	20
	M25	14	17
	M32	7	9
() () ()	M40	6	7
	M50	3	3
	M63	2	3
	M75	2	2

Note Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 453815 Depth 150 mm

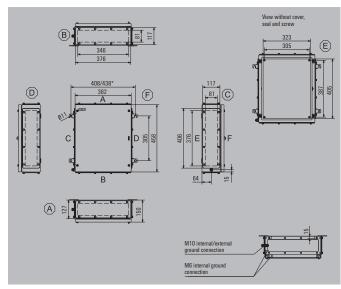


Height / Width / Depth	458 / 382 / 150 mm
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Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195000000
1 gland plate - positioned at the bottom (B)	1195010000
2 gland plates - positioned at top and bottom (A & B)*	1195020000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195030000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195040000
Note *Minimum order quantity (10 pieces)	

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193990000
With hole pattern, sheet steel, galvanised	2022590000
Stainless steel 1.4301 natural	1193860000
With hole pattern, natural stainless steel 1.4301	1257700000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006724
Vertical	8000006713
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023490000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023500000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256480000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256490000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281450000
Stainless steel 1.4404, electro-polished	1314190000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separa	ately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	3x71	4x54
13 1	4 mm ²	2x59	3x46
	6 mm ²	2x44	3x34
	10 mm ²	2x36	2x27
	16 mm ²	2x29	2x22
	35 mm ²	1x22	1x17

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

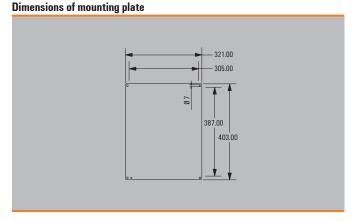
TS 32 Mounting rail with clamping yoke technology SAK

T3 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	30	33
	M16	17	19
	M20	15	16
	M25	6	7
	M32	5	6
0	M40	4	5
	M50	4	4
	M63	0	0
	M75	0	0
Note Our IP 68 b	orass cable glands serve as a re	eference for these recomn	nended values.



Klippon® TB MH 453820 Depth 200 mm



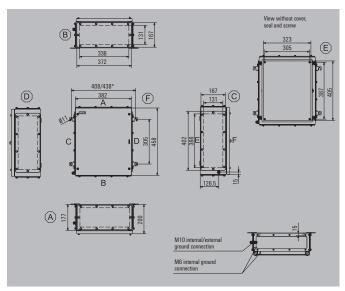
Height / Width / Depth 458 / 382 / 200 mm

Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195050000
1 gland plate - positioned at the bottom (B)	1195060000
2 gland plates - positioned at top and bottom (A & B)*	1195070000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195080000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195090000
Note *Minimum order quantity (10 pieces)	

Acception

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1193990000
With hole pattern, sheet steel, galvanised	2022590000
Stainless steel 1.4301 natural	1193860000
With hole pattern, natural stainless steel 1.4301	1257700000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006724
Vertical	8000006713
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023510000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023520000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256510000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256520000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281460000
Stainless steel 1.4404, electro-polished	1314200000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separ	ately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	3x71	4x54
The state of the s	4 mm ²	2x59	3x46
	6 mm ²	2x44	3x34
1011	10 mm ²	2x36	2x27
	16 mm ²	2x29	2x22
	35 mm ²	1x22	1x17

Note

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

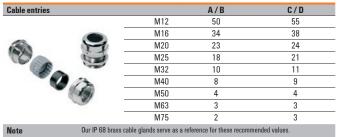
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

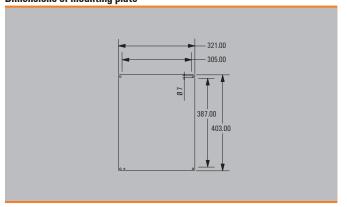
TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries



Dimensions of mounting plate



Klippon® TB MH 484815 Depth 150 mm



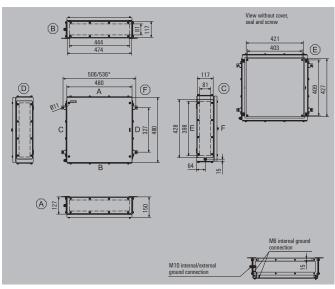
Height / Width / Depth	480 / 480 / 150 mm
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Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195100000
1 gland plate - positioned at the bottom (B)	1195110000
2 gland plates - positioned at top and bottom (A & B)*	1195120000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195130000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195140000
Note *Minimum order quantity (10 pieces)	

Acception

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194000000
With hole pattern, sheet steel, galvanised	2022610000
Stainless steel 1.4301 natural	1193870000
With hole pattern, natural stainless steel 1.4301	1257710000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000006714
Horizontally	8000006725
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023530000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023540000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256530000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256540000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281470000
Stainless steel 1.4404, electro-polished	1314220000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separ	



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	4x75	4x74
	4 mm ²	3x62	3x62
	6 mm ²	3x47	3x46
	10 mm ²	2x38	3x37
	16 mm ²	2x31	2x31
	35 mm ²	1x23	2x23

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

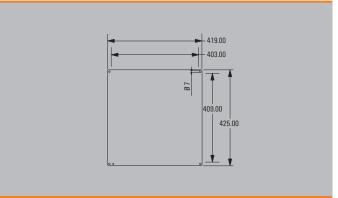
TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	39	36
	M16	22	20
	M20	19	17
	M25	8	7
	M32	7	6
() () () () ()	M40	6	5
	M50	5	4
	M63	0	0
	M75	0	0

Dimensions of mounting plate



Klippon® TB MH 484820 Depth 200 mm

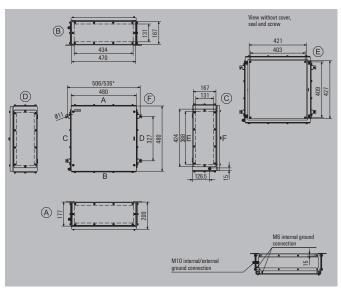


Height / Width / Depth	480 / 480 / 200 mm
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Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland	plates 1195150000
1 gland plate - positioned at the botto	m (B) 1195160000
2 gland plates - positioned at top and bottom (A	& B)* 1195170000
3 gland plates - positioned at bottom, left and right (B, C	C & D) 1195180000
4 gland plates - positioned at top, bottom, left and right (A, B, C	& D)* 1195190000
Note *Minimum order quantity (10 pieces)	

Steel sheet, zinc plated With hole pattern, sheet steel, galvanised Stainless steel 1.4301 natural 1193870000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1257710000 1274150000 12	Accessories	
With hole pattern, sheet steel, galvanised Stainless steel 1.4301 natural 1193870000	Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural With hole pattern, natural stainless steel 1.4301 1257710000 1257710000 127715000	Steel sheet, zinc plated	1194000000
With hole pattern, natural stainless steel 1.4301 Fastening screws for mounting plates Fastening screws for terminal rails* 1274150000 127	With hole pattern, sheet steel, galvanised	2022610000
Fastening screws for mounting plates Fastening screws for terminal rails* 1274150000 127	Stainless steel 1.4301 natural	1193870000
Fastening screws for terminal rails* 1274150000	With hole pattern, natural stainless steel 1.4301	1257710000
Mounting rails **, TS35x7.5	Fastening screws for mounting plates	0642600000
Horizontally Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 0935110000 15 mm length 0935120000 20 mm length 0935130000 30 mm length 0935140000 093	Fastening screws for terminal rails*	1274150000
Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 0935110000 20 mm length 0935130000 30 mm length 0935130000 30 mm length 0935130000 30 mm length 0935130000 20 mm length 0935130000 0935140000 0935140000 0935130000 0935140000 0935130000 0935140000 0	Mounting rails**, TS35x7.5	
Stainless steel spacer M6 x 8, Set of 4	Horizontally	8000006725
10 mm length 15 mm length 15 mm length 20 mm length 935120000 30 mm length 935130000 30 mm length 935140000 30 mm length 9351400000 93514000000000000000000000000000000000000	Vertical	8000006714
15 mm length 20 mm length 20 mm length 30 mm length 0935130000 30 mm length 09351400000 09351400000 093514000000000000000000000000000000000000	Stainless steel spacer M6 x 8, Set of 4	
20 mm length 30 mm length 30 mm length 30 mm length 0935140000	10 mm length	0935110000
30 mm length 0935140000 Cland plates - 3 mm with M6 earth studs Top and bottom sides (A & B), electropolished stainless steel 1.4404 2023620000 Left and right sides (C & D), electropolished stainless steel 1.4404 1256550000 Left and right sides (C & D), electropolished stainless steel 1.4404 1256560000 Left and right sides (C & D), electropolished stainless steel 1.4404 1256560000 Left and right sides (C & D), electropolished stainless steel 1.4404 1256560000 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1.4404 Left and right sides (C & D), electropolished stainless steel 1	15 mm length	0935120000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 2023580000	20 mm length	0935130000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 2023580000	30 mm length	0935140000
Left and right sides (C & D), electropolished stainless steel 1.4404 1256550000	Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404 1256550000	Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023580000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 1256550000	Left and right sides (C & D), electropolished stainless steel 1.4404	2023620000
Left and right sides (C & D), electropolished stainless steel 1.4404 1253230000	Gland plates and screws - 6 mm	
Mounting screw, stainless steel 1.4404 1253230000 1281480000 1281480000 1281480000 1314230000 1314230000 1314230000 130x50 stainless steel 1.4301 1279320000 130x50 stainless steel 1.4301 1283450000 130x50 stainless steel 1.4301 1283450000 1257640000 125760000 1257600000000 1257600000000 12576000000000000000000000000000000000000	Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256550000
Stainless steel 1.4301, mirror-polished 1281480000 Stainless steel 1.4404, electro-polished 1314230000 1314230000 130x50 stainless steel 1.4301 1279320000 1283450000 128	Left and right sides (C & D), electropolished stainless steel 1.4404	1256560000
Stainless steel 1.4301, mirror-polished Stainless steel 1.4404, electro-polished 1314230000 1314230000 130x50 stainless steel 1.4301 1279320000 130x50 stainless steel 1.4301 1283450000 100x25 stainless steel 1.4301 1257640000 100x25 stainless steel 1.4301 12576400000	Mounting screw, stainless steel 1.4404	1253230000
Stainless steel 1.4404, electro-polished 1314230000	Rain hoods	
1279320000 12793200000 12793200000 12793200000 12793200000 12793200000 12793200000 12793200000 12793200000 1279320000000 12793200000000000000000000000000000000000	Stainless steel 1.4301, mirror-polished	1281480000
1279320000 12793200000 12793200000 12793200000 12793200000 12793200000 12793200000 12793200000 12793200000 1279320000000 12793200000000000000000000000000000000000	Stainless steel 1.4404, electro-polished	1314230000
130x50 stainless steel 1.4301 1283450000 1257640000	Label holder	
130x50 stainless steel 1.4301 1283450000 1257640000	70 x 70 angled stainless steel 1.4301	1279320000
1252780000 1252780000 1252780000 1252780000 1252750000 1252750000 1252730000 125	130x50 stainless steel 1.4301	1283450000
For DIN A6 size documents 1252780000	100x25 stainless steel 1.4301	1257640000
For DIN A5 size documents 1252750000	Document holders	
For DIN A5 size documents 1252750000		1252780000
For DIN A4 size documents Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) Earthing stud Stainless steel 1.4404, M10 Note *Packing unit (PU) – 20 pcs., sufficient for 10 fixtures		1252750000
For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) 1285200000 Earthing stud Stainless steel 1.4404, M10 1192690000 Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures		1252730000
For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) 1285200000 Earthing stud Stainless steel 1.4404, M10 1192690000 Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures		
For plastic (Trafolyte), identification plate (screw) Earthing stud Stainless steel 1.4404, M10 Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	-	1252190000
Stainless steel 1.4404, M10 1192690000		1285200000
Stainless steel 1.4404, M10 1192690000 Note		
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	•	1192690000
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately	Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	4x75	4x74
	4 mm ²	3x62	3x62
	6 mm ²	3x47	3x46
7.	10 mm ²	2x38	3x37
	16 mm ²	2x31	2x31
	35 mm ²	1x23	2x23

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

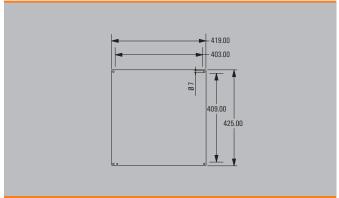
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	65	60
	M16	44	40
	M20	29	26
	M25	24	21
	M32	13	12
() ()	M40	11	10
	M50	5	4
	M63	4	4
	M75	3	3

Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 553515 Depth 150 mm

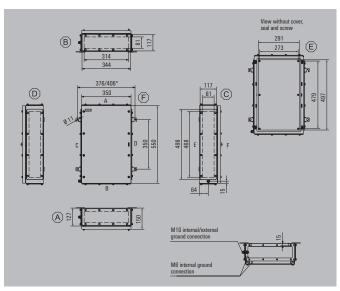


Height / Width / Depth 550 / 350 / 150 mm

Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195200000
1 gland plate - positioned at the bottom (B)	1195210000
2 gland plates - positioned at top and bottom (A & B)*	1195220000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195230000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195240000
Note *Minimum order quantity (10 pieces)	

Steel sheet, zinc plated 119401000 2022650001 20226500001 202265000001 20226500001 20226500001 20226500001 20226500001 20226500001 20226500001 20226500001 20226500001 20226500000	Accessories	
With hole pattern, sheet steel, galvanised Stainless steel 1.4301 natural 119388000 125772000	Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural With hole pattern, natural stainless steel 1.4301 125772000 125772000 125772000 125772000 1277415000	Steel sheet, zinc plated	1194010000
With hole pattern, natural stainless steel 1.4301 125772000 127415000	With hole pattern, sheet steel, galvanised	2022650000
Fastening screws for mounting plates Fastening screws for terminal rails* 1274150001 127	Stainless steel 1.4301 natural	1193880000
Fastening screws for terminal rails* 1274150001	With hole pattern, natural stainless steel 1.4301	1257720000
Mounting rails **, TS35x7.5 Horizontally Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 20 mm length 30 mm length 40 mm length 30 mm length 40 mm length	Fastening screws for mounting plates	0642600000
Horizontally Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 0935110001 20 mm length 0935120001 30 mm length 0935140001 30 mm length 30 mm length 30 mm length 0935120001 30 mm length 3	Fastening screws for terminal rails*	1274150000
Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 20 mm length 20 mm length 30 mm length 30 mm length 30 mm length 20 mm length 30 mm length 20 mm length 30 mm length 30 mm length 20 mm length 30 mm length 20 mm length 30 mm length 30 mm length 20 mm length 30 mm length 20 mm length 30 mm length 30 mm length 30 mm length 20 mm lengt	Mounting rails**, TS35x7.5	
Stainless steel spacer M6 x 8, Set of 4	Horizontally	8000006726
10 mm length 15 mm length 20 mm length 20 mm length 30 m	Vertical	8000006715
15 mm length 20 mm length 30 m	Stainless steel spacer M6 x 8, Set of 4	
20 mm length 30 mm length 30 mm length 30 mm length 30 mm length 420 mm length 30 mm length 420 mm	10 mm length	0935110000
30 mm length 0935140001 Gland plates - 3 mm with M6 earth studs Top and bottom sides (A & B), electropolished stainless steel 1.4404 2023660001 Left and right sides (C & D), electropolished stainless steel 1.4404 2023670001	15 mm length	0935120000
Column C	20 mm length	0935130000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 2023670000	30 mm length	0935140000
Left and right sides (C & D), electropolished stainless steel 1.4404 125657000 Comment holders For DIN A6 size documents For DIN A6	Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404 125657000	Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023660000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 1256570000	Left and right sides (C & D), electropolished stainless steel 1.4404	2023670000
Left and right sides (C & D), electropolished stainless steel 1.4404 1256580001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300000001 12332300001 123323000000000000000000000000000000000	Gland plates and screws - 6 mm	
Left and right sides (C & D), electropolished stainless steel 1.4404 1256580001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12532300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300001 12332300000001 12332300001 123323000000000000000000000000000000000	Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256570000
Mounting screw, stainless steel 1.4404 1253230001 12814900001 1281490		1256580000
Stainless steel 1.4301, mirror-polished 128149000		1253230000
Stainless steel 1.4404, electro-polished 131424000t	Rain hoods	
127932000 1279	Stainless steel 1.4301, mirror-polished	1281490000
127932000 1279	Stainless steel 1.4404. electro-polished	1314240000
130x50 stainless steel 1.4301 1283450000 1257640000 1257640000 1257640000 1257640000 1257640000 1252780000 1252780000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 12527300000 125273000	Label holder	
130x50 stainless steel 1.4301 1283450000 1257640000 1257640000 1257640000 1257640000 1257640000 1252780000 1252780000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 1252730000 12527300000 125273000		1279320000
100x25 stainless steel 1.4301 1257640000		1283450000
Test Test	100x25 stainless steel 1 4301	1257640000
For DIN A6 size documents 1252780000 For DIN A5 size documents 1252750000 For DIN A4 size documents 1252730000 Set of fixings* For label holders, rain hoods and document holders (rivet) 1252190000 For plastic (Trafolyte), identification plate (screw) 1285200000 Earthing stud Stainless steel 1.4404, M10 11926900000	Document holders	
For DIN A5 size documents For DIN A4 size documents 1252730001 Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) Earthing stud Stainless steel 1.4404, M10 11926900001		1252780000
For DIN A4 size documents Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) Earthing stud Stainless steel 1.4404, M10 1192690000		1252750000
For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) 1285200001 Earthing stud Stainless steel 1.4404, M10 11926900001		
For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) 1285200001 1285200001 1285200001 1192690001 11926900001		.20270000
For plastic (Trafolyte), identification plate (screw) 1285200001 Earthing stud Stainless steel 1.4404, M10 11926900001	-	1252190000
Earthing stud Stainless steel 1.4404, M10 1192690000		
Stainless steel 1.4404, M10 1192690000		.2020000
	-	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	2x89	4x48
	4 mm ²	2x73	4x40
	6 mm ²	2x55	4x30
7.	10 mm ²	2x45	3x24
16	16 mm ²	1x37	3x20
	35 mm ²	1x28	2x15

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

T3 32 Mounting rail with clamping yoke technology SAK

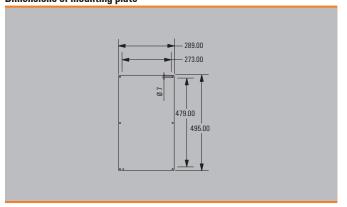
T3 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	27	42
	M16	15	24
	M20	13	20
	M25	6	9
	M32	5	7
(2) (3)	M40	4	6
19	M50	3	5
	M63	0	0
	M75	0	0

Dimensions of mounting plate



Klippon® TB MH 553520 Depth 200 mm

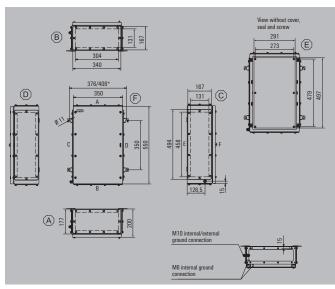


Height / Width / Depth 550 / 350 / 200 mm

Ordering data

Stainless st	teel 1.4404 316L, electropolished	Order No.
	O gland plates	1195250000
	1 gland plate - positioned at the bottom (B)	1195260000
	2 gland plates - positioned at top and bottom (A & B)*	1195270000
	3 gland plates - positioned at bottom, left and right (B, C & D)	1195280000
	4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195290000
Note	*Minimum order quantity (10 pieces)	

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194010000
With hole pattern, sheet steel, galvanised	2022650000
Stainless steel 1.4301 natural	1193880000
With hole pattern, natural stainless steel 1.4301	1257720000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006726
Vertical	8000006715
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023740000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023790000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256590000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256610000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281500000
Stainless steel 1.4404, electro-polished	1314250000
Label holder	101120000
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	.207010000
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	1232730000
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	1203200000
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	1132030000
**Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separa	ately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	2x89	4x48
	4 mm ²	2x73	4x40
	6 mm ²	2x55	4x30
7.	10 mm ²	2x45	3x24
	16 mm ²	1x37	3x20
	35 mm ²	1x28	2x15

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

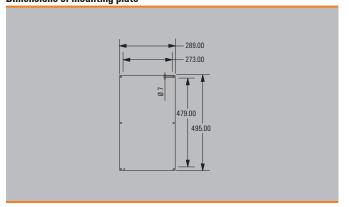
TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	45	70
	M16	30	48
6	→ M20	20	30
6	M25	17	26
	M32	9	14
200	M40	7	12
(19)	M50	3	5
	M63	3	4
	M75	2	3
Note Our I	P 68 brass cable glands serve as a re	ference for these recomn	nended values.

Dimensions of mounting plate



Klippon® TB MH 624515 Depth 150 mm

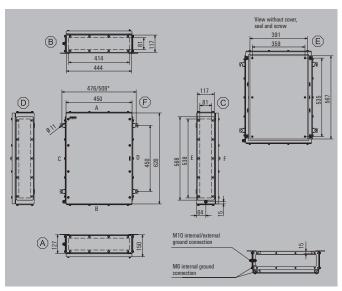


Height / Width / Depth	620 / 450 / 150 mm
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Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195300000
1 gland plate - positioned at the bottom (B)	1195310000
2 gland plates - positioned at top and bottom (A & B)*	1195320000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195330000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195340000
Note *Minimum order quantity (5 pieces)	

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194020000
With hole pattern, sheet steel, galvanised	2022670000
Stainless steel 1.4301 natural	1193890000
With hole pattern, natural stainless steel 1.4301	1257740000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006727
Vertical	8000006716
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2023820000
Left and right sides (C & D), electropolished stainless steel 1.4404	2023870000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256620000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256630000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281510000
Stainless steel 1.4404, electro-polished	1314270000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	3x101	5x65
1111	4 mm ²	3x83	5x54
	6 mm ²	3x62	4x41
	10 mm ²	2x49	4x33
	16 mm ²	2x42	3x26
	35 mm ²	1x31	2x20

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

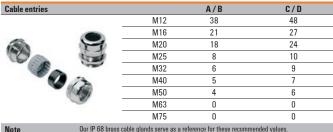
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

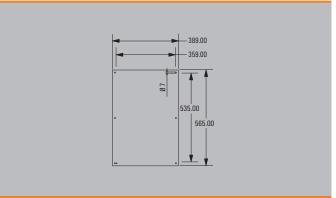
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 624520 Depth 200 mm

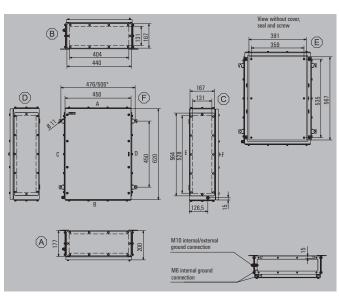


Height / Width / Depth 620 / 450 / 200 mm

Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195350000
1 gland plate - positioned at the bottom (B)	1195360000
2 gland plates - positioned at top and bottom (A & B)*	1195370000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195380000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195390000
Note *Minimum order quantity (5 pieces)	

Steel sheet, zinc plated 119402000 With hole pattern, sheet steel, galvanised 202267000 Stainless steel 1.4301 natural 119389000 125774000 125774000 Fastening screws for mounting plates 127415000 Fastening screws for mounting plates 127415000 Fastening screws for terminal rails* 127415000 Mounting rails**, TS35x7.5 Horizontally Wertical 800000672 Wertical 800000671 Wertical 800000671 Stainless steel spacer M6 x 8, Set of 4 10 mm length 033511000 15 mm length 033512000 20 mm length 033512000 20 mm length 033512000 20 mm length 033512000 30 mm length 033512000 20 mm length 033512000 035120	Accessories	
With hole pattern, sheet steel, galvanised Stainless steel 1.4301 natural 119389000 1257740001 1257740001 1257740001 1274150001 1274	Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural With hole pattern, natural stainless steel 1.4301 125774000 125774000 125774000 125774000 125774000 125774000 125774000 125774000 125774000 1277415000 12774	Steel sheet, zinc plated	1194020000
With hole pattern, natural stainless steel 1.4301 Fastening screws for mounting plates Fastening screws for mounting plates Fastening screws for terminal rails* 127415000 127	With hole pattern, sheet steel, galvanised	2022670000
Fastening screws for mounting plates Fastening screws for terminal rails* 127415000 127	Stainless steel 1.4301 natural	1193890000
Fastening screws for terminal rails* 127415000	With hole pattern, natural stainless steel 1.4301	1257740000
Mounting rails **, TS35x7.5 Horizontally Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 20 mm length 30 mm length 30 mm length 30 mm length 30 mm length 40 mm length 30 mm length 30 mm length 30 mm length 30 mm length 40 mm length 50 mm length	Fastening screws for mounting plates	0642600000
Horizontally Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 15 mm length 0935110001 20 mm length 0935120001 30 mm length 0935140001 30 mm length 3	Fastening screws for terminal rails*	1274150000
Vertical Stainless steel spacer M6 x 8, Set of 4 10 mm length 093511000 15 mm length 093512000 20 mm length 093513000 30 mm length 093514000	Mounting rails**, TS35x7.5	
Stainless steel spacer M6 x 8, Set of 4	Horizontally	8000006727
10 mm length 15 mm length 15 mm length 20 mm length 20 mm length 30 mm length 400 3514000 30 mm length 400	Vertical	8000006716
15 mm length 20 mm length 20 mm length 30 mm length 30 mm length 30 mm length 30 mm length 20 mm length 30 mm length 30 mm length 30 mm length 2023880001 2023930	Stainless steel spacer M6 x 8, Set of 4	
20 mm length 30 mm length 30 mm length 30 mm length 30 mm length 420 mm length 430 m	10 mm length	0935110000
30 mm length 0935140001 093514001 0935140001 09	15 mm length	0935120000
Comparison of	20 mm length	0935130000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 202393000	30 mm length	0935140000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 202393000	Gland plates - 3 mm with M6 earth studs	
Left and right sides (C & D), electropolished stainless steel 1.4404 125664000 Top and bottom sides (A & B), electropolished stainless steel 1.4404 125665000 Left and right sides (C & D), electropolished stainless steel 1.4404 125665000 Mounting screw, stainless steel 1.4404 125323000 Rain hoods		2023880000
Top and bottom sides (A & B), electropolished stainless steel 1.4404 1256640001 1256650001 1256650001 1256650001 1256650001 1256650001 1253230000 1253230001	Left and right sides (C & D), electropolished stainless steel 1.4404	2023930000
Left and right sides (C & D), electropolished stainless steel 1.4404 125665000 Mounting screw, stainless steel 1.4404 125323000 Rain hoods	Gland plates and screws - 6 mm	
Left and right sides (C & D), electropolished stainless steel 1.4404 125665000 Mounting screw, stainless steel 1.4404 125323000 Rain hoods	Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256640000
Mounting screw, stainless steel 1.4404 125323000 Rain hoods		1256650000
Stainless steel 1.4301, mirror-polished Stainless steel 1.4404, electro-polished 131428000 131428000 131428000 130x50 stainless steel 1.4301 127932000 130x50 stainless steel 1.4301 128345000 100x25 stainless steel 1.4301 125764000 100x25 stainless steel 1.4301 125764000 125776000 1257776000 1257777600 1257776000 1257	• • • •	1253230000
Stainless steel 1.4404, electro-polished 131428000	Rain hoods	
127932000 127	Stainless steel 1.4301, mirror-polished	1281520000
127932000 127	Stainless steel 1.4404. electro-polished	1314280000
130x50 stainless steel 1.4301 1283450001 100x25 stainless steel 1.4301 1257640001 1257640001 1257640001 1257600001 1252780001 1252780001 1252730001 1252	Label holder	
130x50 stainless steel 1.4301 1283450001 100x25 stainless steel 1.4301 1257640001 1257640001 1257640001 1257600001 1252780001 1252780001 1252730001 1252	70 x 70 angled stainless steel 1.4301	1279320000
100x25 stainless steel 1.4301 1257640001		1283450000
Test Test		1257640000
For DIN A6 size documents 1252780001 For DIN A5 size documents 1252750001 For DIN A4 size documents 1252730001 Set of fixings* For label holders, rain hoods and document holders (rivet) 1252190001 For plastic (Trafolyte), identification plate (screw) 1285200001 Earthing stud Stainless steel 1.4404, M10 11926900001	Document holders	
For DIN A5 size documents For DIN A4 size documents Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) Earthing stud Stainless steel 1.4404, M10 1252750001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001 1252730001		1252780000
For DIN A4 size documents Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) Earthing stud Stainless steel 1.4404, M10 11926900001		1252750000
Set of fixings* For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) 1285200001 Earthing stud Stainless steel 1.4404, M10 1192690001		
For label holders, rain hoods and document holders (rivet) For plastic (Trafolyte), identification plate (screw) 1285200001 Earthing stud Stainless steel 1.4404, M10 1192690001		
For plastic (Trafolyte), identification plate (screw) 1285200001 Earthing stud Stainless steel 1.4404, M10 1192690001	-	1252190000
Earthing stud Stainless steel 1.4404, M10 1192690001		
Stainless steel 1.4404, M10 119269000 0		1203200000
		1192690000
	Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	110200000



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	3x101	5x65
	4 mm ²	3x83	5x54
	6 mm ²	3x62	4x41
1.1	10 mm ²	2x49	4x33
16	16 mm ²	2x42	3x26
	35 mm ²	1x31	2x20

Note

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

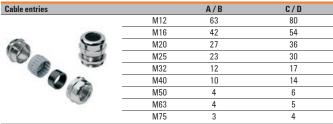
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

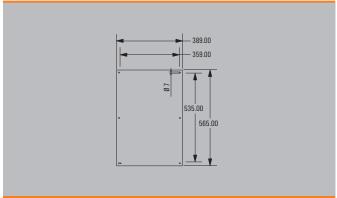
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries



Our IP 68 brass cable glands serve as a reference for these recommended values. Note

Dimensions of mounting plate



Klippon® TB MH 765015 Depth 150 mm

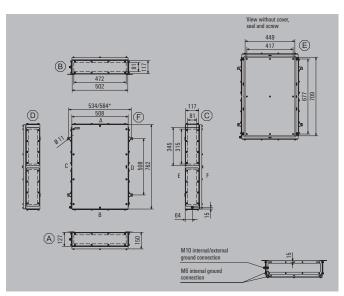


508 / 150 mm

Ordering data

Stainless s	teel 1.4404 316L, electropolished	Order No.
	O gland plates	1195400000
	1 gland plate - positioned at the bottom (B)	1195410000
	2 gland plates - positioned at top and bottom (A & B)*	1195420000
	3 gland plates - positioned at bottom, left and right (B, C & D)	1195430000
	4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195440000
Note	*Minimum order quantity (5 pieces)	

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194030000
With hole pattern, sheet steel, galvanised	2022680000
Stainless steel 1.4301 natural	1193900000
With hole pattern, natural stainless steel 1.4301	1257750000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006728
Vertical	8000006717
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2024040000
Left and right sides (C & D), electropolished stainless steel 1.4404	2024090000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256660000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256670000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281530000
Stainless steel 1.4404, electro-polished	1314290000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	4x128	7x78
	4 mm ²	4x107	6x64
	6 mm ²	3x80	5x48
10,111	10 mm ²	3x65	5x39
16	16 mm ²	2x53	4x32
	35 mm ²	2x40	3x24

Note

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

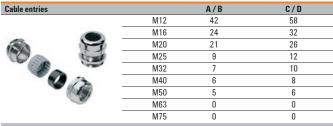
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

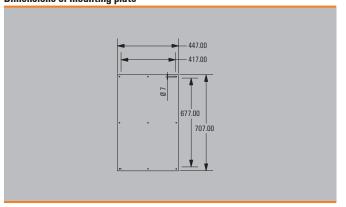
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries



Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Klippon® TB MH 765020 Depth 200 mm

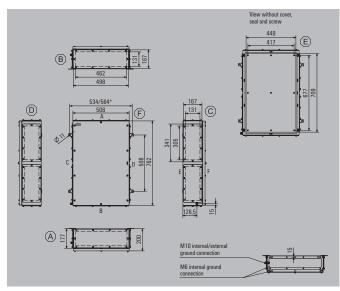


Height / Width / Depth	762 / 508 / 200 mm
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Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland p	lates 1195450000
1 gland plate - positioned at the botton	n (B) 1195460000
2 gland plates - positioned at top and bottom (A &	& B)* 1195470000
3 gland plates - positioned at bottom, left and right (B, C	& D) 1195480000
4 gland plates - positioned at top, bottom, left and right (A, B, C &	& D)* 1195490000
Note *Minimum order quantity (5 pieces)	

Mounting plates and fastening screws	Order No.	
Steel sheet, zinc plated	1194030000	
With hole pattern, sheet steel, galvanised	2022680000	
Stainless steel 1.4301 natural	1193900000	
With hole pattern, natural stainless steel 1.4301	1257750000	
Fastening screws for mounting plates	0642600000	
Fastening screws for terminal rails*	1274150000	
Mounting rails**, TS35x7.5		
Horizontally	8000006728	
Vertical	8000006717	
Stainless steel spacer M6 x 8, Set of 4		
10 mm length	0935110000	
15 mm length	0935120000	
20 mm length	0935130000	
30 mm length	0935140000	
Gland plates - 3 mm with M6 earth studs		
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2024100000	
Left and right sides (C & D), electropolished stainless steel 1.4404		
Gland plates and screws - 6 mm		
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256680000	
Left and right sides (C & D), electropolished stainless steel 1.4404	1256690000	
Mounting screw, stainless steel 1.4404	1253230000	
Rain hoods		
Stainless steel 1.4301, mirror-polished	1281540000	
Stainless steel 1.4404, electro-polished	1314300000	
Label holder		
70 x 70 angled stainless steel 1.4301	1279320000	
130x50 stainless steel 1.4301	1283450000	
100x25 stainless steel 1.4301	1257640000	
Document holders	120701000	
For DIN A6 size documents	1252780000	
For DIN A5 size documents	1252750000	
For DIN A4 size documents	1252730000	
Set of fixings*	.20270000	
For label holders, rain hoods and document holders (rivet)	1252190000	
For plastic (Trafolyte), identification plate (screw)	1285200000	
Earthing stud	.200200000	
Stainless steel 1.4404, M10	1192690000	
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	. 10200000	
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separa	ately	



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	4x128	7x78
	4 mm ²	4x107	6x64
	6 mm ²	3x80	5x48
	10 mm ²	3x65	5x39
	16 mm ²	2x53	4x32
	35 mm ²	2x40	3x24

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

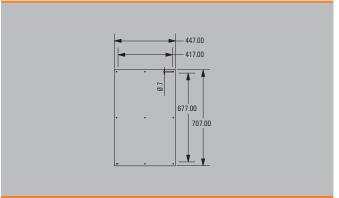
1S 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	70	96
	M16	48	64
5	M20	32	40
The second second	M25	26	34
	M32	14	18
() () () () ()	M40	12	14
(1/49)	M50	5	6
	M63	4	6
	M75	3	4
Note Our	IP 68 brass cable glands serve as a re	eference for these recomm	nended values.

Dimensions of mounting plate



2712630000 **Weidmüller № 0.33**

Klippon® TB MH 916115 Depth 150 mm

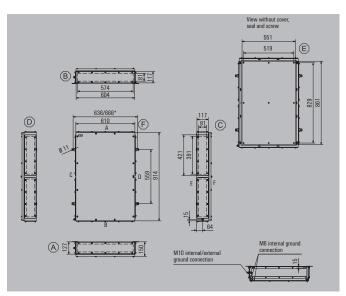


Height / Width / Depth 914 / 610 / 150 mm

Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195500000
1 gland plate - positioned at the bottom (B)	1195510000
2 gland plates - positioned at top and bottom (A & B)*	1195520000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195530000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195540000
Note *Minimum order quantity (5 pieces)	

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194040000
With hole pattern, sheet steel, galvanised	2022740000
Stainless steel 1.4301 natural	1193910000
With hole pattern, natural stainless steel 1.4301	1257760000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	127110000
Horizontally	8000006729
Vertical	8000006718
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2024150000
Left and right sides (C & D), electropolished stainless steel 1.4404	2024300000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256710000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256720000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281550000
Stainless steel 1.4404, electro-polished	1314320000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separa	



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	5x157	8x99
	4 mm ²	4x132	7x80
	6 mm ²	4x100	7x62
	10 mm ²	3x85	6x50
	16 mm ²	3x66	5x40
	35 mm ²	2x49	4x30

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

T3 32 Mounting rail with clamping yoke technology SAK

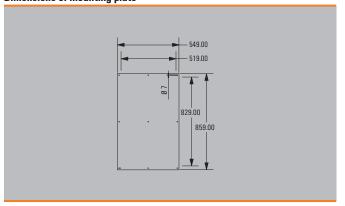
T3 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	53	70
	M16	29	40
	M20	25	34
	M25	11	14
	M32	9	12
() () () () ()	M40	8	10
	M50	6	8
	M63	0	0
	M75	0	0
Note Our IP 68	Our IP 68 brass cable glands serve as a reference for these recommended values.		

Dimensions of mounting plate



Klippon® TB MH 916120 Depth 200 mm

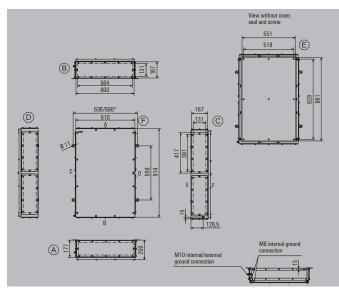


Height / Width / Depth 914 / 610 / 200 mm

Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O glan	plates 1195550000
1 gland plate - positioned at the bot	om (B) 1195560000
2 gland plates - positioned at top and bottom ((& B)* 1195570000
3 gland plates - positioned at bottom, left and right (B	C & D) 1195580000
4 gland plates - positioned at top, bottom, left and right (A, B,	C & D)* 1195590000
Note *Minimum order quantity (5 pieces)	

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194040000
With hole pattern, sheet steel, galvanised	2022740000
Stainless steel 1.4301 natural	1193910000
With hole pattern, natural stainless steel 1.4301	1257760000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006729
Vertical	8000006718
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2024470000
Left and right sides (C & D), electropolished stainless steel 1.4404	2024490000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256730000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256740000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281570000
Stainless steel 1.4404, electro-polished	1314330000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures	
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separa	ately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	5x157	8x99
	4 mm ²	4x132	7x80
	6 mm ²	4x100	7x62
	10 mm ²	3x85	6x50
16	16 mm ²	3x66	5x40
	35 mm ²	2x49	4x30

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

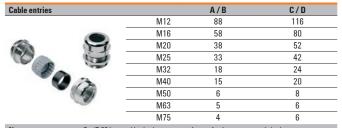
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

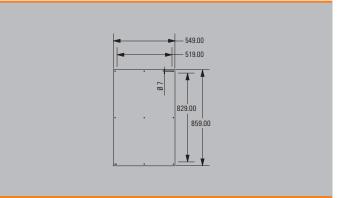
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



Our IP 68 brass cable glands serve as a reference for these recommended values. Note

Dimensions of mounting plate



Klippon® TB MH 987420 Depth 200 mm

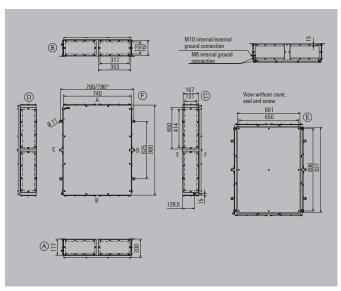


980 / 740 / 200 mm

Ordering data

Stainless steel 1.4404 316L, electropolished	Order No.
O gland plates	1195600000
1 gland plate - positioned at the bottom (B)	1195610000
2 gland plates - positioned at top and bottom (A & B)*	1195620000
3 gland plates - positioned at bottom, left and right (B, C & D)	1195630000
4 gland plates - positioned at top, bottom, left and right (A, B, C & D)*	1195640000
Note *Minimum order quantity (5 pieces)	

Accessories	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1194050000
With hole pattern, sheet steel, galvanised	2022760000
Stainless steel 1.4301 natural	1193920000
With hole pattern, natural stainless steel 1.4301	1257770000
Fastening screws for mounting plates	0642600000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Horizontally	8000006730
Vertical	8000006719
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Gland plates - 3 mm with M6 earth studs	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	2024560000
Left and right sides (C & D), electropolished stainless steel 1.4404	2024590000
Gland plates and screws - 6 mm	202100000
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256750000
Left and right sides (C & D), electropolished stainless steel 1.4404	1256760000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	1233230000
Stainless steel 1.4301, mirror-polished	1281580000
Stainless steel 1.4404, electro-polished	1314340000
Label holder	1314340000
70 x 70 angled stainless steel 1.4301	1279320000
130x50 stainless steel 1.4301	
	1283450000
100x25 stainless steel 1.4301	1257640000
Document holders	4050700555
For DIN A6 size documents	1252780000
For DIN A5 size documents	1252750000
For DIN A4 size documents	1252730000
Set of fixings*	
For label holders, rain hoods and document holders (rivet)	1252190000
For plastic (Trafolyte), identification plate (screw)	1285200000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separa	ately



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	6x174	9x127
T. P.	4 mm ²	6x146	8x99
	6 mm ²	5x108	7x78
	10 mm ²	4x85	6x63
16	16 mm ²	4x72	5x51
	35 mm ²	3x54	4x38

Note

*For the enclosure versions with no, one or two gland plates, the horizontal distance of the mounting feet is reduced by 30 mm.

When mounting modular terminals please leave a distance of 10 mm to the ends of the DIN rail. Ordering recommendations:

T3 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

T3 32 Mounting rail with clamping yoke technology SAK

T3 15 Mounting rail with clamping yoke technology AKZ

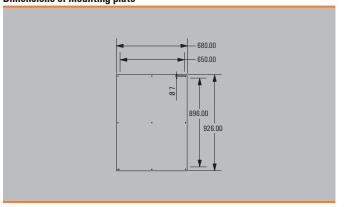
Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	96	126
	M16	64	84
	M20	42	54
	M25	36	48
	M32	20	26
	M40	16	22
(A S)	M50	6	10
	M63	6	8
	M75	4	6

Our IP 68 brass cable glands serve as a reference for these recommended values.

Dimensions of mounting plate



Weidmüller 🕏 2712630000

Klippon® TB QL - Quarter Lock

Steel enclosures

for use in industrial and in explosive hazard areas

The Klippon® TB enclosure range features excellent performance characteristics, even under the most difficult environmental conditions, and comply with the stricter requirements of explosive hazard areas found in the process or power generation industries. The Klippon® TB QL enclosure range offers further improvements to a product line that is already successfully leading the market.

Weidmüller manufactures and supplies the enclosures to match customer specifications - fully fitted with terminals, electronics and cable glands.

- · Available in 12 sizes and 3 standard depths, with customer-specific sizes on request
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Quick-locking lid, comes with a slot as standard
- Improved temperature performance
- IP66 protection class
- Earth studs in enclosure cover and bottom section
- Welded mounting feet



Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponTB





















Overview of enclosures

Ordering data

Description	Height x width x depth	0 Gland Plates	1 Gland Plate	2 Gland Plates	3 Gland Plates	4 Gland Plates
	in mm		(below)	(above + below)	(below + sides)	(all sides)
KTB QL 221513 S4E_*	229 x 152 x 133	1199850000	1199860000	1199870000	1199880000	1199890000
KTB QL 262615 S4E_*	260 x 260 x 150	1199900000	1199910000	1199920000	1199930000	1199940000
KTB QL 262620 S4E_*	260 x 260 x 200	1199950000	1199960000	1199970000	1199980000	1199990000
KTB QL 303015 S4E_*	306 x 306 x 150	1200010000	1200020000	1200030000	1200040000	1200050000
KTB QL 303020 S4E_*	306 x 306 x 200	1200060000	1200070000	1200080000	1200090000	1200100000
KTB QL 352615 S4E_*	350 x 260 x 150	1200110000	1200120000	1200130000	1200140000	1200150000
KTB QL 352620 S4E_*	350 x 260 x 200	1200160000	1200170000	1200180000	1200190000	1200210000
KTB QL 403015 S4E_*	400 x 300 x 150	1200220000	1200230000	1200240000	1200250000	1200260000
KTB QL 403020 S4E_*	400 x 300 x 200	1200270000	1200280000	1200290000	1200310000	1200320000
KTB QL 453815 S4E_*	458 x 382 x 150	1200330000	1200340000	1200350000	1200360000	1200370000
KTB QL 453820 S4E_*	458 x 382 x 200	1200380000	1200390000	1200410000	1200420000	1200430000
KTB QL 484815 S4E_*	480 x 480 x 150	1200440000	1200450000	1200460000	1200470000	1200480000
KTB QL 484820 S4E_*	480 x 480 x 200	1200490000	1200510000	1200520000	1200530000	1200540000
KTB QL 553515 S4E_*	550 x 350 x 150	1200550000	1200560000	1200570000	1200580000	1200590000
KTB QL 553520 S4E_*	550 x 350 x 200	1200610000	1200620000	1200630000	1200640000	1200650000
KTB QL 624515 S4E_*	620 x 450 x 150	1200660000	1200670000	1200680000	1200690000	1200710000
KTB QL 624520 S4E_*	620 x 450 x 200	1200720000	1200730000	1200740000	1200750000	1200760000
KTB QL 765015 S4E_*	762 x 508 x 150	1200770000	1200780000	1200790000	1200810000	1200820000
KTB QL 765020 S4E_*	762 x 508 x 200	1200830000	1200840000	1200850000	1200860000	1200870000
KTB QL 916115 S4E_*	914 x 610 x 150	1200940000	1200890000	1200910000	1200920000	1200930000
KTB QL 916120 S4E_*	914 x 610 x 200	1200880000	1200950000	1200960000	1200970000	1200980000
KTB QL 987420 S4E_*	980 x 740 x 200	1200990000	1201010000	1201020000	1201030000	1201040000
Note		* Placeholder for the number	of gland plates (0, 1, 2, 3, 4).	The Klippon® TB QL enclosure	s are subject to a minimum or	der quantity.

Weidmüller 🛣 2712630000

Technical Overview Technical data

Toolillour dutu	
Enclosure material*	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	Electropolished
IP protection class	IP66 to IEC EN 60079-0
NEMA protection classes	3, 4x, 12
Gland plates	1 - 4 (fixed with M6 hexagon head screws and 10 mm heads), optionally without a gland plate
Gland plate thickness	3 mm (other thickness of up to 20 mm are available on request)
Earthing inside	Enclosure base and lid: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rails
Enclosure attachment	4 or 6 welded mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)
Lid opening	Can be removed completely, lid opening angle 130 $^\circ$
Cover attachment	Quarter-turn lock with slotted insert (other inserts available on request)
Impact resistance	7 J in accordance with IEC 60079-0, IK 09 (10J) in accordance with DIN EN 50102
Gasket material	Silicone
Operating temperature range	-60 °C+135 °C
Torque for flange plate screws	2.5 Nm
Note	* Painted steel enclosures are available on request.

Approvals for empty enclosures

ATEX certificate	IBExU14ATEX1028 U	EAC	RU-DE.08.B.00472	
ATEX marking	II 2G Ex eb IIC Gb	cULus	E243298	
	II 2D Ex tb IIIC Db	DNV GL	TAE000013S	
IECEx certificate	IECEx IBE 14.0004U	Russian Maritime Register	15.40075.250	
IECEx marking	Ex eb IIC Gb	CCOE	In preparation	
	Ex tb IIIC Db	INMETRO	IEx 17.0020U	
Nepsi Ex certificate	GYJ14.1308U	AEx	E223792	
Nepsi Ex marking	Ex e IIC Gb, DIP A21	Miscellaneous	EN 45545, DIN EN 15085-2/CL2	
Note	The Klippon® TB enclosure range can be pre-fitted in our customer specific production department according to your wishes.			

Approvals for control and distribution box

ATEX certificate	IBExU14ATEX1050	IECEx certificate	IECEx IBE 14.0013	
ATEX marking	€ II 2G Ex eb IIC/IIB/IIA T6/T5/T4 Gb	IECEx marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb	
	II 1G Ex ia IIC/IIB/IIA T6/T5/T4 Ga		Ex ia IIC/IIB/IIA T6/T5/T4 Ga	
	II 2G Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb		Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb	
	II 2D Ex tb IIIC T80°C/T95°C/T135°C Db		Ex tb IIIC T80°C/T95°C/T135°C Db	
	II 1D Ex ia IIIC T80°C/T95°C/T135°C Da		Ex ia IIIC T80°C/T95°C/T135°C Da	
	$-60 ^{\circ}\text{C} \le \text{Ta} \le +40/+55/+90 ^{\circ}\text{C}$		-60 °C+40/+55/+90 °C	
Nepsi Ex certificate	GYJ14.1309	INMETRO certificate	IEx 17.0021	
Nepsi marking	Ex e IIC T4T6 Gb	INMETRO marking	Ex eb IIC T6/T5/T4 Gb	
	Ex ia IIC T4T6 Ga		Ex ia IIC T6/T5/T4 Ga	
	Ex e ia IIC T4T6 Gb		Ex eb ia IIC T6/T5/T4 Gb	
	DIP A21 T _A 85°CT _A 135°C		Ex tb IIIC 85°C/100°C/135°C Db IP66/IP67	
	Ex ia D20 T85 °C T135 °C		Ex ia IIIC 85°C/100°C/135°C Da	
EAC certificate	RUC-DE.08.B.01328	AEx certificate	E223792	
EAC marking	II 2 G Ex eb IIC T6T4	AEx marking	Class I, Zone 1, AEx e IIC Gb T6T4	
	II 2 G Ex e IIC T6T4 Gb		Class I, Zone 2, AEx e IIC Gc T6T4	
	II 1 G Ex ia IIC T6T4		Class I Div.2 Group A,B,C,D T6T4	
	II 1 G Ex ia IIC T6T4 Ga		Class II Div.2 Group F,G	
	II 2(1) G Ex eb ia IIC T6T4		Zone 21, AEx tb IIIC Db	
	II 2(1) G Ex e ia IIC T6T4 Gb			
	II 2 D Ex tb IIIC T85°CT135°C			
	II 2 D Ex tb IIIC T85°CT135°C Db			
KOSHA certificate	16-AV4B0-0245X			
KOSHA marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb			
	Ex ia IIC/IIB/IIA T6/T5/T4 Ga			
	Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb			
	Ex tb IIIC T80°C/T95°C/T135°C Db			
	Ex ia IIIC T80°C/T95°C/T135°C Da			
	-60 °C+40/+55/+90 ° C			
Note	Labelling depends on the application layout. For details of pov	ver dissination, please contact your Weidmill	lar rangeantativa Additional approvale available on request	

Klippon® TB FS - Fixing Screw

Steel enclosures

for use in industrial and in explosive hazard areas

The Klippon® TB enclosure range features superior performance characteristics, even under the most extreme environmental conditions. The Klippon® TB FS enclosure range complements our Klippon® TB MH and Klippon® TB QL standard enclosures.

Weidmüller manufactures and supplies the enclosures to match customer specifications - fully fitted with terminals, electronics and cable glands.

Features:

- Available in 12 sizes and 3 standard depths
- Equipped with up to 4 gland plates
- The gasket is protected against compression
- Cover lock outside the sealed zone
- Improved temperature performance
- IP66/IP67 protection class
- Earth studs in enclosure cover and bottom section
- Welded mounting feet



Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponTB





















Overview of enclosures

Description	Length x width x depth	0 Gland Plate	1 Gland Plate	2 Gland Plates	3 Gland Plates	4 Gland Plates
	in mm		(below)	(above + below)	(below + sides)	(all sides)
KTB FS 221513 S4E_*	229 x 152 x 133	1195650000	1195660000	1195670000	1195680000	1195690000
KTB FS 262615 S4E_*	260 x 260 x 150	1195700000	1195710000	1195720000	1195730000	1195740000
KTB FS 262620 S4E_*	260 x 260 x 200	1195750000	1195760000	1195770000	1195780000	1195790000
KTB FS 303015 S4E_*	306 x 306 x 150	1195800000	1195810000	1195820000	1195830000	1195840000
KTB FS 303020 S4E_*	306 x 306 x 200	1195850000	1195860000	1195870000	1195880000	1195890000
KTB FS 352615 S4E_*	350 x 260 x 150	1195900000	1195910000	1195920000	1195930000	1195940000
KTB FS 352620 S4E_*	350 x 260 x 200	1195950000	1195960000	1195970000	1195980000	1195990000
KTB FS 403015 S4E_*	400 x 300 x 150	1196000000	1196010000	1196020000	1196030000	1196040000
KTB FS 403020 S4E_*	400 x 300 x 200	1196050000	1196060000	1196070000	1196080000	1196090000
KTB FS 453815 S4E_*	458 x 382 x 150	1196100000	1196110000	1196120000	1196130000	1196140000
KTB FS 453820 S4E_*	458 x 382 x 200	1196150000	1196160000	1196170000	1196180000	1196190000
KTB FS 484815 S4E_*	480 x 480 x 150	1196200000	1196210000	1196220000	1196230000	1196240000
KTB FS 484820 S4E_*	480 x 480 x 200	1196250000	1196260000	1196270000	1196280000	1196290000
KTB FS 553515 S4E_*	550 x 350 x 150	1196300000	1196310000	1196320000	1196330000	1196340000
KTB FS 553520 S4E_*	550 x 350 x 200	1196350000	1196360000	1196370000	1196380000	1196390000
KTB FS 624515 S4E_*	620 x 450 x 150	1196400000	1196410000	1196420000	1196430000	1196440000
KTB FS 624520 S4E_*	620 x 450 x 200	1196450000	1196460000	1196470000	1196480000	1196490000
KTB FS 765015 S4E_*	762 x 508 x 150	1196500000	1196510000	1196520000	1196530000	1196540000
KTB FS 765020 S4E_*	762 x 508 x 200	1196550000	1196560000	1196570000	1196580000	1196590000
KTB FS 916115 S4E_*	914 x 610 x 150	1196600000	1196610000	1196620000	1196630000	1196640000
KTB FS 916120 S4E_*	914 x 610 x 200	1196650000	1196660000	1196670000	1196680000	1196690000
KTB FS 987420 S4E_*	980 x 740 x 200	1196700000	1196710000	1196720000	1196730000	1196740000
Note		* Placeholder for the number	of gland plates (0, 1, 2, 3, 4).	The Klippon® TB FS enclosure	es are subject to a minimum ord	ler quantity.

Weidmüller 🛣 2712630000

Technical Overview Technical data

Enclosure material*	Stainless steel 1.4404 (316L) 1.5 mm
Surface	Electroplished
IP protection class	IP66 / IP67 (IP66 to IEC EN 60079-0)
NEMA Rating	3, 4x, 12
Gland plates	1 - 4 (fixed with M6 hexagon head screws with a slot and 10 mm heads), optionally without a gland plate
Gland plate thickness	3 mm (other thickness are available on request)
Earthing inside	Enclosure base part and enclosure cover: welded M6 stainless steel earth studs
Earthing outside	Continuous M10 brass earth stud (optionally with stainless-steel earth stud)
Installation mounting	4 or 9 mounting bolts with M6 threaded holes to attach the mounting plate or mounting rails
Enclosure attachment	4 or 6 welded-on mounting feet with 11-mm holes (2 slotted and 2 cross-shaped openings)
Lid opening	Fully removable lid
Lid fixing	M6 hexagon head slotted screws SW10
Impact resistance	7J in accordance with IEC 60079-0, IK 09 (10J) in accordance with DIN EN 50102
Gasket material	Silicone
Operating temperature range	-60 °C+105 °C (IP66/IP67), -60 °C+135 °C (IP66)
Torque - cover and flange plate screws	2.5 Nm
Note	* Lacquered enclosures available on request.

Approvals for empty enclosures

Nepsi Ex marking Note	Ex e IIC Gb, DIP A21	in our customer specific production department according t	EN 45545, DIN EN 15085-2/CL2	
<u>'</u>		Miscellaneous		
Nepsi Ex certificate	GYJ14.1308U	AEx	E223792	
	Ex tb IIIC Db	INMETRO	IEx 17.0020U	
IECEx marking	Ex eb IIC Gb	CCOE	In preparation	
IECEx certificate	IECEx IBE 14.0004U	Russian Maritime Register	15.40074.250	
	II 2D Ex tb IIIC Db	DNV GL	TAE000013S	
ATEX marking	II 2G Ex eb IIC Gb	cULus	E256877	
ATEX certificate	IBExU14ATEX1028 U	EAC	RU-DE.08.B.00472	

Approvals for control and distribution box

2712630000

TEX certificate	IBExU14ATEX1050	IECEx certificate	IECEx IBE 14.0013	
TEX marking		IECEx marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb	
	II 1G Ex ia IIC/IIB/IIA T6/T5/T4 Ga		Ex ia IIC/IIB/IIA T6/T5/T4 Ga	
	II 2G Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb		Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb	
	II 2D Ex tb IIIC T80°C/T95°C/T135°C Db		Ex tb IIIC T80°C/T95°C/T135°C Db	
	II 1D Ex ia IIIC T80°C/T95°C/T135°C Da		Ex ia IIIC T80°C/T95°C/T135°C Da	
	-60 °C ≤ Ta ≤ +40/+55/+90 °C		-60 °C+40/+55/+90 °C	
lepsi Ex certificate	GYJ14.1309	INMETRO certificate	IEx 17.0021	
epsi marking	Ex e IIC T4T6 Gb	INMETRO marking	Ex eb IIC T6/T5/T4 Gb	
	Ex ia IIC T4T6 Ga		Ex ia IIC T6/T5/T4 Ga	
	Ex e ia IIC T4T6 Gb		Ex eb ia IIC T6/T5/T4 Gb	
	DIP A21 T _A 85°CT _A 135°C		Ex tb IIIC 85°C/100°C/135°C Db IP66/IP67	
	Ex ia D20 T85 °C T135 °C		Ex ia IIIC 85°C/100°C/135°C Da	
AC certificate	RUC-DE.08.B.01328	AEx certificate	E223792	
AC marking	II 2 G Ex eb IIC T6T4	AEx marking	Class I, Zone 1, AEx e IIC Gb T6T4	
	II 2 G Ex e IIC T6T4 Gb		Class I, Zone 2, AEx e IIC Gc T6T4	
	II 1 G Ex ia IIC T6T4		Class I Div.2 Group A,B,C,D T6T4	
	II 1 G Ex ia IIC T6T4 Ga		Class II Div.2 Group F,G	
	II 2(1) G Ex eb ia IIC T6T4		Zone 21, AEx th IIIC Db	
	II 2(1) G Ex e ia IIC T6T4 Gb			
	II 2 D Ex tb IIIC T85°CT135°C			
	II 2 D Ex tb IIIC T85°CT135°C Db			
OSHA certificate	16-AV4B0-0245X			
OSHA marking	Ex eb IIC/IIB/IIA T6/T5/T4 Gb			
	Ex ia IIC/IIB/IIA T6/T5/T4 Ga			
	Ex eb ia IIC/IIB/IIA T6/T5/T4 Gb			
	Ex tb IIIC T80°C/T95°C/T135°C Db			
	Ex ia IIIC T80°C/T95°C/T135°C Da			
	-60 °C+40/+55/+90 °C			
ote	Labelling depends on the application layout. For details of pov	ver dissination inlease contact your Weidmill	ler representative Additional approvals available on request	

Klippon® Protect – Terminal Boxes – Product overview Steel enclosures

Various types of terminal boxes are available for installing signal / power supplies or distributors in explosive risk zones.

The terminal boxes are explosion-protected equipment approved for use in Ex areas in zones $0,\,1,\,2$ and $20,\,21,\,22$.

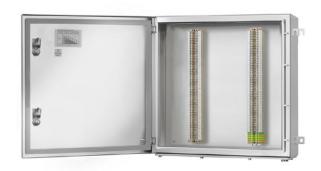
They are certified in accordance with the latest international standards Ex e, Ex ia and Ex tb. Customer-specific configuration means these terminal boxes are the optimum solution for all applications. Use the product overview to find the right solution for you!

Combine the enclosure, with or without threaded holes, a suitable mounting rail or pre-fitted strip terminals.

We have put together a small selection for you, but we are happy to configure a bespoke solution for you.

Features:

- · Available in a wide range of versions to meet customer requirements
- Additional international approvals alongside IECEx, ATEX and EAC also available
- Increased quality thanks to the use of established basic products in the Klippon[®] brand









Overview of enclosures

Terminal boxes based on the Klippon® TB range of enclosures

Description	Height x width x depth in mm	Marking	Approval	Order No.
KTB MH 221513 Exia	229 x 152 x 133	Ex ia IIC T4 Ga	IECEX, ATEX, EAC	8000028398
KTB MH 262615 Exia	260 x 260 x 150	Ex ia IIC T4 Ga	IECEx, ATEX, EAC	8000028399
KTB QL 303020 Exe	306 x 306 x 200	Ex eb IIC T6 Gb	IECEx, ATEX, EAC	8000028400
KTB QL 484820 Exe	480 x 480 x 200	Ex eb IIC T6 Gb	IECEx, ATEX, EAC	8000028401
Note				

2.42 **Weidmüller ₹** 2712630000

Technical Overview

Technical data

Enclosures	
Material	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	Electropolished (Klippon® TB)
IP protection class	IP66 / IP67 to DIN EN 60529
Gasket material	Silicone
Terminal block	
Material	Wemid
Colour	beige, blue or green/yellow
Connection system	screw connection
Clampable wires (H05V/H07V)	solid, flexible and flexible with ferrule
Note	

Approvals for Klippon® TB

ATEX certificate	IBExU14ATEX1050
IECEx certificate	IECEx IBE 14.0013
EAC certificate	RUCDE.08.B.01328
Note	Labelling depends on the application layout. For details of power dissipation, please contact your Weidmüller representative.

Klippon® TB MH 221513 Ex ia terminal box

Depth

133 mm



Height / Width / Depth 229 / 152 / 133 mm

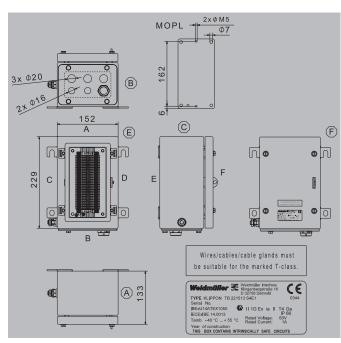
Ordering data

	Order No.
KTB MH 221513 Exia	8000028398
Note	

Technical data

Klippon® Klippon TB (Terminal Box)-Enclosures,
Terminal Box
Ex ia IIC T4 Ga
IBExU14ATEX1050
IECEx IBE 14.0013
IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079
31, EN 60079-0, EN 60079-7, EN 60079-11, EN
60079-31, EN/IEC 60079-26
Tamb -40°C+55°C
Polyester coated with aluminium
IP66
1x22
4 mm ²
60 V
1.00 A
none
2 x M16, 3 x M20, 1 x BDX
Stainless steel 1.4404 (316L)
electropolished
1.5 mm
3 mm
Bottom
Silicone
4 welded-on mounting feet with 11 mm hole size
152 mm / 178 mm
4 hinges and M6 hex-head slotted screws SW10
176 mm / 93 mm
Continuous M10 earth stud in body enclosure
Welded-on M6 stainless-steel earth stud in enclosure
body and lid.

Note		



Accessories

Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural	1193810000
Fastening screws for mounting plates	0642600000
Gland plate 3 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1280890000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256270000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281360000
Label holder	
70 x 70 angled stainless steel 1.4301	1279320000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Pressure compensating element with drainage function	
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M16, 3-12 mm	1460040000
Nickel-plated brass, Ex e, M20, 3-12 mm	1460050000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M16	1477820000
Stainless steel 1.4404 (316L), Ex e, M20	1477840000
Locknuts	
Nickel-plated brass, M16	1736990000
Nickel-plated brass, M20	1737000000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KTB MH 221513 S4E1	1194560000
WDU 4 BL	1020180000
KLIPPON BDX M20 S	2519550000

Note

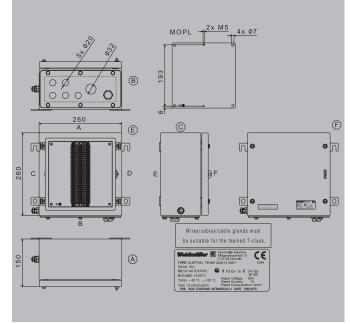
C.44 Weidmüller № 2712630000

Klippon® TB MH 262615 Ex ia terminal box

Depth

150 mm





Height / Width / Depth 260 / 260 / 150 mm

Ordering data

	Order No.
KTB MH 262615 Exia	8000028399
Note	

Technical data

Article - short description	Klippon® Klippon TB (Terminal Box)-Enclosures,
	Terminal Box
Identification	Ex ia IIC T4 Ga
Certificate no. assembled enclosure (ATEX)	IBExU14ATEX1050
Certificate no. assembled enclosure (IECEx)	IECEx IBE 14.0013
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079
	31, EN 60079-0, EN 60079-7, EN 60079-11, EN
	60079-31, EN/IEC 60079-26
Ambient temperature	Tamb -40°C+55°C
Type label material	Polyester coated with aluminium
Protection class	IP66
Assembly	
Modular terminal blocks	1x30
Rated cross-section	4 mm ²
Rated voltage	60 V
Rated current	1.00 A
Drill holes side A	none
Drill holes side B	5 x M20, 1 x M32, 1 x BDX
Technical data, enclosure	
Material	Stainless steel 1.4404 (316L)
Surface finish	electropolished
Material thickness	1.5 mm
Material thickness of flange	3 mm
Gland plates	Bottom
Seal material	Silicone
Enclosure attachment	4 welded-on mounting feet with 11 mm hole size
Mounting dimension - height / -width	170 mm / 286 mm
Lid attachment	4 hinges and M6 hex-head slotted screws SW10
Access opening: height / Access opening: width	207 mm / 201 mm
Earth, enclosure, external	Continuous M10 earth stud in body enclosure
Earth, enclosure, internal	Welded-on M6 stainless-steel earth stud in enclosure
	body and lid.

Accessories

Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural	1193820000
Fastening screws for mounting plates	0642600000
Gland plate 3 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1280910000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256290000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281370000
Label holder	
100x25 stainless steel 1.4301	1257640000
130x50 stainless steel 1.4301	1283450000
70 x 70 angled stainless steel 1.4301	1279320000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Document holders	
For DIN A6 size documents	1252780000
Pressure compensating element with drainage function	
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M20, 3-12 mm	1460050000
Nickel-plated brass, Ex e, M32, 14-24 mm	1460080000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M20	1477840000
Stainless steel 1.4404 (316L), Ex e, M32	1477890000
Locknuts	
Nickel-plated brass, M20	1737000000
Nickel-plated brass, M32	1737020000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KTB MH 262615 S4E1	1194610000
WDU 4 BL	1020180000
KLIPPON BDX M20 S	2519550000

Note

Note

Klippon® TB QL 303020 Ex e terminal box



Height / Width / Depth 306 / 306 / 200 mm

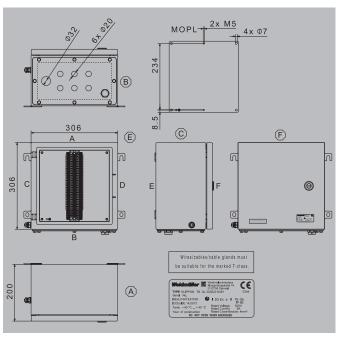
Ordering data

	Order No.
KTB QL 303020 EXE	8000028400
Note	

Technical data

n® Klippon TB (Terminal Box)-Enclosures, nal Box
IC T6 Gh
14ATEX1050
BE 14.0013
079-0, IEC 60079-7, IEC 60079-31, EN 6007
60079-7, EN 60079-31
40°C+40°C
ter coated with aluminium
4 x PE
!
l .
20, 1 x M32, 1 x BDX
ess steel 1.4404 (316L)
polished
n
n
e
led-on mounting feet with 11 mm hole size
m / 332 mm
r-turn fastener with slotted insert
m / 247 mm
uous M10 earth stud in body enclosure
n

Note		
MACE		



Accessories

Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural	1193830000
Fastening screws for mounting plates	0642600000
Gland plate 3 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1280970000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256360000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281400000
Label holder	
100x25 stainless steel 1.4301	1257640000
130x50 stainless steel 1.4301	1283450000
70 x 70 angled stainless steel 1.4301	1279320000
Document holders	
For DIN A6 size documents	1252780000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Pressure compensating element with drainage function	
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M20, 3-12 mm	1460050000
Nickel-plated brass, Ex e, M32, 14-24 mm	1460080000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M20	1477840000
Stainless steel 1.4404 (316L), Ex e, M32	1477890000
Locknuts	
Nickel-plated brass, M20	1737000000
Nickel-plated brass, M32	1737020000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KTB QL 303020 S4E1	1200070000
WDU 4	1020100000
WPE 4	1010100000
KLIPPON BDX M20 S	2519550000

Note

C.46 Weidmüller ₹ 2712630000

Klippon® TB QL 484820 Ex e terminal box

Depth

200 mm



Wires/cables/cable glands must be suitable for the marked T-class.

Wires/cables/cable glands must be suitable for the marked T-class.

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Wires/cables/cable glands must be suitable for the marked T-class.

Wires/cables/cable glands must be suitable for the marked T-class.

Wires/cables/cable glands must be suitable for the marked T-class.

Height / Width / Depth 480 / 480 / 200 mm

Ordering data

	Order No.
KTB QL 484820 Exe	8000028401
Note	

Technical data

Note

Article - short description	Klippon® Klippon TB (Terminal Box)-Enclosures,
·	Terminal Box
Identification	Ex eb IIC T6 Gb
Certificate no. assembled enclosure (ATEX)	IBExU14ATEX1050
Certificate no. assembled enclosure (IECEx)	IECEx IBE 14.0013
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31, EN 60079
	0, EN 60079-7, EN 60079-31
Ambient temperature	Tamb -40°C+40°C
Type label material	Polyester coated with aluminium
Protection class	IP66
Assembly	
Modular terminal blocks	1x66, 1x59, 5 x PE
Rated cross-section	4 mm ²
Rated voltage	550 V
Rated current	6.00 A
Drill holes side A	none
Drill holes side B	2 x M20, 2 x M25, 1 x M40
Technical data, enclosure	
Material	Stainless steel 1.4404 (316L)
Surface finish	electropolished
Material thickness	1.5 mm
Material thickness of flange	3 mm
Gland plates	Bottom
Seal material	Silicone
Enclosure attachment	4 welded-on mounting feet with 11 mm hole size
Mounting dimension - height / -width	327 mm / 506 mm
Lid attachment	Quarter-turn fastener with slotted insert
Access opening: height / Access opening: width	427 mm / 421 mm
Earth, enclosure, external	Continuous M10 earth stud in body enclosure
Earth, enclosure, internal	Welded-on M6 stainless-steel earth stud in enclosure
	body and lid.

Accessories

Mounting plates and fastening screws	Order No.
Stainless steel 1.4301 natural	1193870000
Fastening screws for mounting plates	0642600000
Gland plate 3 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1281130000
Gland plates and screws - 6 mm	
Top and bottom sides (A & B), electropolished stainless steel 1.4404	1256550000
Mounting screw, stainless steel 1.4404	1253230000
Rain hoods	
Stainless steel 1.4301, mirror-polished	1281480000
Label holder	
100x25 stainless steel 1.4301	1257640000
130x50 stainless steel 1.4301	1283450000
70 x 70 angled stainless steel 1.4301	1279320000
Document holders	
For DIN A6 size documents	1252780000
For DIN A4 size documents	1252730000
Earthing stud	
Stainless steel 1.4404, M10	1192690000
Pressure compensating element with drainage function	
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M20, 3-12 mm	1460050000
Nickel-plated brass, Ex e, M25, 10-18 mm	1460070000
Nickel-plated brass, Ex e, M40, 22-32 mm	1460090000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M20	1477840000
Stainless steel 1.4404 (316L), Ex e, M25	1477870000
Stainless steel 1.4404 (316L), Ex e, M40	1477910000
Locknuts	
Nickel-plated brass, M20	1737000000
Nickel-plated brass, M25	1737010000
Nickel-plated brass, M40	1737030000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KTB QL 484820 S4E1	1200510000
WDU 4	1020100000
WPE 4	1010100000
KLIPPON BDX M20 S	2519550000
Note	

Perfect protection for your components

Klippon® EBi stainless steel enclosures for industrial applications

Industrial environments place high demands on the enclosures. Even moderate environmental conditions require sophisticated measures for protecting the internal components from dust and moisture to ensure trouble-free operation.

Klippon® EBi stainless steel enclosures provide perfect protection for instrumentation, distribution, and control applications. All versions are dust- and water ingress-proof to IP66 or NEMA 4X and impact-resistant to IK09. They are made of durable 1.4301 stainless steel and comply with the latest international standards. The Klippon® EBi enclosures are available with or without a bottom gland plate. Lid fixing options include either a quarter lock (QL) as standard or a fixing screw (FS) version which is available on a request basis.

Your special advantages:

- Protection class IP66 / NEMA 4X
- Impact resistance according to IK09
- International conformity according to EN 62208, DNV GL and UL
- Operating temperatures from -40 °C to +85 °C
- PUR cover gasket for protection and safety
- Flexible wall assembly thanks to rear mounting holes or mounting feet (optional)
- Individual configuration supported by the Weidmüller Configurator (WMC)



Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponEBi

Weidmüller ₹ 2712630000







Quarter Lock Insert

Hinged door with a quarter lock facility ensures safe and easy accessibility. If required, hinges can be placed on either side of the enclosure to support side by side placement.



Gland plate with Torx® screws

 Torx^{\otimes} screws (M5/T20) are used for gland plate mounting to facilitate compliance with the required torque.



Flexible mounting

A dedicated mounting profile facilitates the flexible, simple and secure installation of mounting rails or mounting plates for component installation within the enclosure.

Klippon® EBi QL – Quarter Lock

Stainless steel enclosures for use within harsh industrial environments

Even under moderate environmental conditions, there is an increasing need for complex, individual automated solutions. A harsh industrial environment places additional, heavy demands on applications and determines the design of the industrial enclosures to meet these demands. With complete protection and excellent durability, our Klippon® EBi stainless steel enclosures offer the best protection for the components inside them.

- · Available in 11 sizes and 2 depths
- Impact resistance IKO9 (10J) in accordance with DIN EN 50102 for industrial applications
- Dedicated internal mounting support bracket for fixing terminal rail or mounting plates with self forming screws
- Concealed hinges
- Supplied in 0 or 1 gland plate version
- Direct enclosure mounting is provided via the fixing positions placed into the rear of the enclosure
- ullet Mounting feet in stainless steel are optionally available and can be rotated 90°
- · Dust and moisture channel
- · Double-bit locking system

Our assembly service can supply these enclosure preassembled with terminals, electronics and cable glands.



Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponEBi



Ordering data			
Description	Height x width x depth	0 Gland Plate	1 Gland Plate
	in mm		(below)
KEBi QL 302015 S2B_* **	300 x 200 x 150	2470690000	2470800000
KEBi QL 303015 S2B_* **	300 x 300 x 150	2470700000	2470810000
KEBi QL 303022 S2B_* **	300 x 300 x 220	2470710000	2470820000
KEBi QL 403015 S2B_*	400 x 300 x 150	2470720000	2470830000
KEBi QL 403022 S2B_*	400 x 300 x 220	2470730000	2470840000
KEBi QL 404022 S2B_*	400 x 400 x 220	2470740000	2470850000
KEBi QL 504022 S2B_*	500 x 400 x 220	2470750000	2470860000
KEBi QL 505022 S2B_*	500 x 500 x 220	2470760000	2470870000
KEBi QL 604022 S2B_*	600 x 400 x 220	2470770000	2470880000
KEBi QL 606022 S2B_*	600 x 600 x 220	2470780000	2470890000
KEBi QL 806022 S2B_*	800 x 600 x 220	2470790000	2470900000
Note	*Placeholder for the number of gland plates (0 or 1), **smaller refe	rence size for material thickness	





Technical Overview

Features

- Available in 11 sizes and 2 standard depths
 Welded mounting bracket for securing the mounting plate or mounting rail by means of self-tapping screws
 External earth M6 earth rivet

- Concealed hinges
 M6 earthing bolt welded in the cover and base of the enclosure

- Available with 0 or 1 gland plates
 Optimised laser welding, high quality standard
 Direct mounting of the enclosure with rear mounting holes
- Mounting feet in stainless steel are optionally available, and can be rotated by 90°
 Moisture and dust channel

- Double-bit locking system
 Permanent labelling of items
 Key included for sash lock
- Packaging optimally designed for enclosure

Note

Technical data

Toolillour uutu	
Material	Stainless steel 1.4301 (304) 1.5 mm (1.25 mm for smaller sizes**)
Surface	Brushed - grain size 240
IP protection class	IP 66 to DIN EN 60529
NEMA Rating	3, 4x, 5
Gland plates	Stainless steel 1.4301 (304) 2 mm, fitted with M5 Torx T20 screws
Earthing inside	Welded-on M6 stainless-steel earth stud in enclosure lid and base
Earthing outside	External earth position – suitable for M6 threaded screw
Installation mounting	Welded mounting bracket for flexible mounting of the mounting plate, rails or TAS 20 rails.
	They contain 4.51 mm drill holes for accommodating the mounting plate or TS/TAS by means of self-tapping screws (1274150000)
Enclosure attachment	Direct mounting (9 mm mounting holes on rear wall) or via mounting feet (optionally available), adjustable by 90°
Lid opening	125°
Lid fixing	Quarter lock with double bit
Impact resistance	IK09 (10J) to DIN EN 50102
Gasket material	Polyurethane (PUR) foam (cover), EPDM flat gasket (gland plate)
Operating temperature range	-40 °C +85 °C
Tightening torque of gland plates screws*	2.5 Nm
Note	*SD TH20 screwdriver (9009160000) optionally available

Approvals for empty enclosures

DIN EN 62208
TAE00002RN
E 243298
For details of power dissipation, please contact your Weidmüller representative.

Klippon® EBi QL 302015 Depth 150 mm



Heiaht / Widt	h / Depth	300 / 200 / 150 mm

Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470690000
1 gland plate - positioned at the bottom (B)	2470800000
Note	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1309690000
Stainless steel 1.4301 natural	1309700000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037556
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000

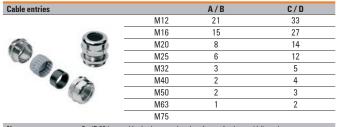
(B)	
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Guide value for max. number of terminals (industry)

Juide value for max. number of terminals (madstry)				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	1x36	3x17	
	4 mm ²	1x30	3x14	
	6 mm ²	1x23	3x11	
	10 mm ²	1x18	3x9	
16	16 mm ²	1x15	3x7	
	35 mm ²	1x11	3x5	

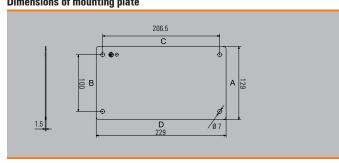
The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



Our IP 68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Weidmüller 🏖 2712630000 Klippon® EBi QL 303015 Depth 150 mm



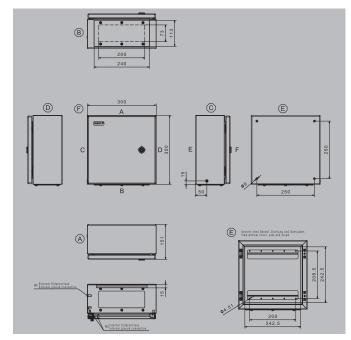
Height / Width / Depth 300 / 300 / 150 mm

Ordering data

Stainless steel 1.4301 (304), brushed		Order No.
	O gland plates	2470700000
	1 gland plate - positioned at the bottom (B)	2470810000
Note		

Accessories

Stainless steel 1.4301 natural Fastening screws for terminal rails* 1274150000		
Stainless steel 1.4301 natural Fastening screws for terminal rails* 12741500000 127415000000 127415000000 127415000000000000000000000000000000000000	Mounting plates and fastening screws	Order No.
Fastening screws for terminal rails* 1274150000	Steel sheet, zinc plated	1310410000
Mounting rails**, TS35x7.5 Vertical 8000037556	Stainless steel 1.4301 natural	1310320000
Vertical 8000037556	Fastening screws for terminal rails*	1274150000
Stainless steel spacer M6 x 8, Set of 4 10 mm length 0935110000 15 mm length 0935120000 20 mm length 0935130000 30 mm length 0935140000 30 mm length 0935140000 30 mm length 0935140000 30 mm length 09351400000 0935140000 0935140000 0935140000 09351400000	Mounting rails**, TS35x7.5	
10 mm length	Vertical	8000037556
15 mm length 20 mm length 335120000 30 mm length 0935130000 30 mm length 0935140000 30 mm length 0935140000 30 mm length 3896100000 30 mm length 3896200000 30 mm length 3896300000 30 mm length	Stainless steel spacer M6 x 8, Set of 4	
20 mm length 30 mm length 30 mm length 30 mm length 0935140000	10 mm length	0935110000
30 mm length	15 mm length	0935120000
Mild steel nickel plated Spacer M6 x 8, set of 2 15 mm length 3896100000 20 mm length 3896200000 30 mm length 38963000000 389630000 3896300000 3896300000 3896300000 3896300000 3896300000 3896300000 38963000000 3896300000 3896300000000 38963000000 389630000000 38963000000000 38963000000000	20 mm length	0935130000
15 mm length 20 mm length 3896100000 30 mm length 3896200000 30 mm length 3896300000 30 mm length 3896300000 30 mm length 389630000000 389630000000 3896300000000000000000000000000000000000	30 mm length	0935140000
20 mm length 3896200000 389630000000 3896300000 3896300000 3896300000 3896300000 38963000000 38963000000 38963000000 38963000000 38963000000 38963000000 38963000000000 3896300000000000000000000000000000000000	Mild steel nickel plated Spacer M6 x 8, set of 2	
30 mm length 3896300000	15 mm length	3896100000
Stainless steel 1.4301 natural 1289180000	20 mm length	3896200000
Stainless steel 1.4301 natural 1289180000	30 mm length	3896300000
Lock inserts Slot 1191600000 Pressure compensation elements Polyamide 6, M12 1868570000 Stainless steel 1.4305, M12 1868550000	Mounting feet, set containing 4 pieces each	
Slot 1191600000	Stainless steel 1.4301 natural	1289180000
Pressure compensation elements Polyamide 6, M12 1868570000 Stainless steel 1.4305, M12 1868550000	Lock inserts	
Polyamide 6, M12 1868570000 Stainless steel 1.4305, M12 1868550000	Slot	1191600000
Stainless steel 1.4305, M12 1868550000	Pressure compensation elements	
·	Polyamide 6, M12	1868570000
Double-hit key	Stainless steel 1.4305, M12	1868550000
bound bit key	Double-bit key	
2473930000		2473930000



Guide value for max. number of terminals (industry)

raide value for max. number of terminals (maastry)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	3x36	3x36
	4 mm ²	3x30	3x30
	6 mm ²	3x23	3x23
	10 mm ²	3x18	3x18
16	16 mm ²	3x15	3x15
	35 mm ²	3x11	3x11

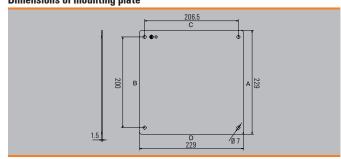
The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	33	33
	M16	27	27
	M20	14	14
	M25	12	12
	M32	5	5
	M40	4	4
	M50	3	3
	M63	2	2
	M75		

Our IP 68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Klippon® EBi QL 303022 Depth 220 mm





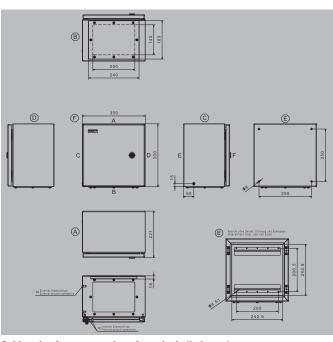
Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland	plates 2470710000
1 gland plate - positioned at the botto	om (B) 2470820000
Note	

Accessories

71000001100	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310410000
Stainless steel 1.4301 natural	1310320000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037556
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000

		IVI7	J	4	2
Note	Our IP 68 bra	ss cable glands are	used as the refe	rence for these gui	deline values.
Dimensions	of mounting	olate			
			206.5 C		
		•••			
	200	В		A 229	
	15			ø	
	1.5		D 229	Ø7]	



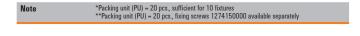
Guide value for max. number of terminals (industry)

		(
Assembly with terminal		vertical	horizontal
	2.5 mm ²	3x36	3x36
	4 mm ²	3x30	3x30
	6 mm ²	3x23	3x23
	10 mm ²	3x18	3x18
	16 mm ²	3x15	3x15
	35 mm ²	3x11	3x11

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	76	76
	M16	45	45
	M20	28	28
	M25	18	18
	M32	15	15
	M40	8	8
	M50	6	6
	M63	2	2
	M75	2	2



Weidmüller 🏖 2712630000 Klippon® EBi QL 403015 Depth 150 mm



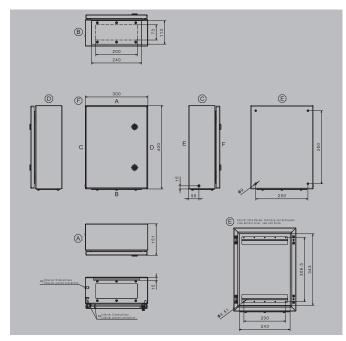
Height / Width / Depth 400 / 300 / 150 mm

Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470720000
1 gland plate - positioned at the bottom (B)	2470830000
Note	

Accessories

10000001100	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310420000
Stainless steel 1.4301 natural	1310330000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037555
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000



Guide value for max. number of terminals (industry)

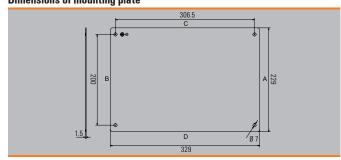
Guide value for max. number	er ot terminais	(inaustry)	
Assembly with terminal		vertical	horizontal
Tilde	2.5 mm ²	3x56	4x36
	4 mm ²	3x47	4x30
	6 mm ²	3x35	4x23
1.	10 mm ²	3x28	4x18
16	16 mm ²	3x23	4x15
	35 mm ²	3x18	4x11

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries			A/B	C/D
		M12	33	48
		M16	27	39
130	5	M20	14	20
		M25	12	16
		M32	5	7
	3	M40	4	5
•	191	M50	3	4
		M63	2	3
		M75		
Note	Our IP 68 brass of	able glands are used as	the reference for these gu	ideline values.

Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Klippon® EBi QL 403022 Depth 220 mm



Height / Width / Depth 400 / 300 / 220 mm

Ordering data

Stainless steel 1.4301 (304), brushed		Order No.
	O gland plates	2470730000
	1 gland plate - positioned at the bottom (B)	2470840000
Note		

Accessories

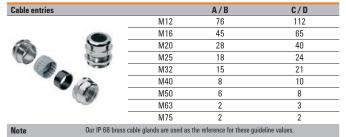
Steel sheet, zinc plated 131	er No.
	0400000
Stainless steel 1 /301 natural 131	0420000
Stalliess steel 1.4501 liatural	0330000
Fastening screws for terminal rails* 127	4150000
Mounting rails**, TS35x7.5	
Vertical 800	0037555
Stainless steel spacer M6 x 8, Set of 4	
10 mm length 093 :	5110000
15 mm length 093 :	5120000
20 mm length 093	5130000
30 mm length 093	5140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length 389	6100000
20 mm length 389	6200000
30 mm length 389	6300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural 128	9180000
Lock inserts	
Slot 119	1600000
Pressure compensation elements	
Polyamide 6, M12 186	8570000
Stainless steel 1.4305, M12 186	8550000
Double-bit key	
247	3930000

E A Guide value for max. number of terminals (industry)

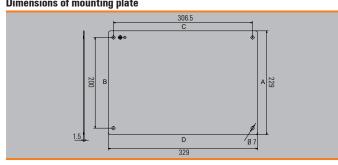
idide value for max. mambe	or terminals	(iiidustiy)	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	3x56	4x36
	4 mm ²	3x47	4x30
	6 mm ²	3x35	4x23
	10 mm ²	3x28	4x18
	16 mm ²	3x23	4x15
	35 mm ²	3x18	4x11

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Weidmüller 🏖 2712630000 Klippon® EBi QL 404022 Depth 220 mm



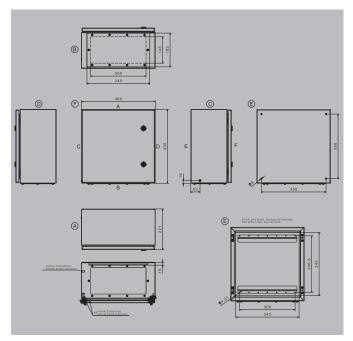
Height / Width / Depth 400 / 400 / 220 mm

Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470740000
1 gland plate - positioned at the bottom (B)	2470850000
Note	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310430000
Stainless steel 1.4301 natural	1310340000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037555
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000



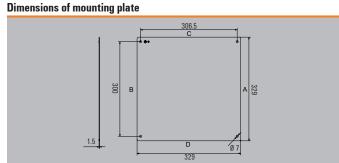
Guide value for max. number of terminals (industry)

uluc valuc foi illax. Ilaliib	Ci di terminas	(muustiy)	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	4x56	4x56
	4 mm ²	4x47	4x47
	6 mm ²	4x35	4x35
	10 mm ²	4x28	4x28
	16 mm ²	4x23	4x23
	35 mm ²	4x18	4x18

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	112	112
6	M16	65	65
	M20	40	40
	M25	24	24
	M32	21	21
00	M40	10	10
	M50	8	8
	M63	3	3
	M75	2	2
Note Ou	r IP 68 brass cable glands are used as	the reference for these gu	ideline values.



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

2712630000

Klippon® EBi QL 504022 Depth 220 mm



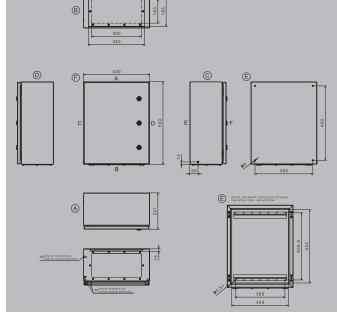
Height / Width / Depth 500 / 400 / 220 mm

Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470750000
1 gland plate - positioned at the bottom (B)	2470860000
Note	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310440000
Stainless steel 1.4301 natural	1310350000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037554
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	0000110000
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	000000000
Stainless steel 1,4301 natural	1289180000
Lock inserts	120010000
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	. 300000000
Dualio Bit no	2473930000
	2713330000

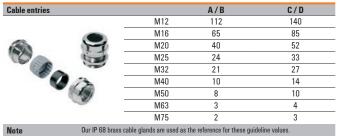


Guide value for max. number of terminals (industry)

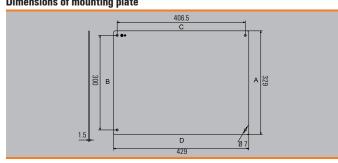
dude value for max. number of terminals (mads ty)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	4x75	6x56
	4 mm ²	4x63	6x47
	6 mm ²	4x47	6x35
	10 mm ²	4x38	6x28
16	16 mm ²	4x32	6x23
	35 mm ²	4x24	6x18

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Weidmüller 🏖 2712630000 Klippon® EBi QL 505022 Depth 220 mm



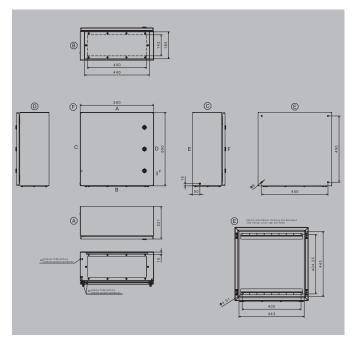
Height / Width / Depth 500 / 500 / 220 mm

Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470760000
1 gland plate - positioned at the bottom (B)	2470870000
Note	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310450000
Stainless steel 1.4301 natural	1310360000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037554
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000

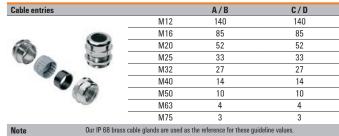


Guide value for max. number of terminals (industry)

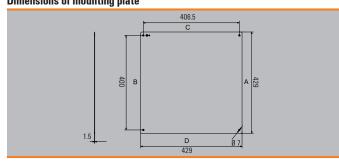
Suido valdo foi max. nambor of torminaio (madoti //			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	6x75	6x75
	4 mm ²	6x63	6x63
	6 mm ²	6x47	6x47
	10 mm ²	6x38	6x38
16	16 mm ²	6x32	6x32
	35 mm ²	6x24	6x24

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries



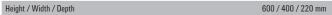
Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Klippon® EBi QL 604022 Depth 220 mm





Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470770000
1 gland plate - positioned at the bottom (B)	2470880000
Note	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310460000
Stainless steel 1.4301 natural	1310370000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037553
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000

(B)			
D + 400		©	E
C B	009 009	F	350
	1 1	E Assista of Figure with	ner Berkel, Dücktung und Schrauben od sower, geni and scree
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as Source Experience Million Source Source Millions Sou	<u>s</u>	9,32	300
Guide value for may nu	mher of termi	nale (industry)	

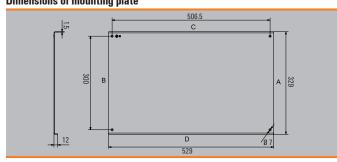
dulue value for max. number of terminals (mudstry)				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	4x94	8x56	
	4 mm ²	4x79	8x47	
	6 mm ²	4x60	8x35	
	10 mm ²	4x48	8x28	
16	16 mm ²	4x40	8x23	
	35 mm ²	4x30	8x18	

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail Order recommendations:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC
TS 32 Mounting rail with clamping yoke technology SAK
TS 15 Mounting rail with clamping yoke technology AKZ
Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	112	176
	M16	65	96
	M20	40	64
OG	M25	24	39
	M32	21	33
	M40	10	16
	M50	8	14
	M63	3	5
	M75	2	4
Note Our IP 68	brass cable glands are used as	the reference for these au	ideline values.

Dimensions of mounting plate



*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately Note

Klippon® EBi QL 606022 Depth 220 mm



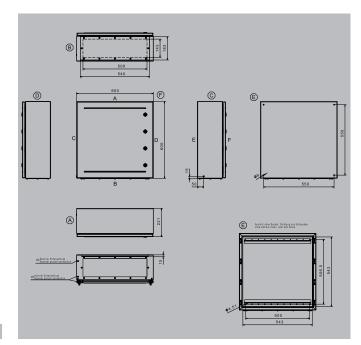
Height / Width / Depth 600 / 600 / 220 mm

Ordering data

Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470780000
1 gland plate - positioned at the bottom (B)	2470890000
Note	

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310470000
Stainless steel 1.4301 natural	1310380000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037553
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000



Guide value for max. number of terminals (industry)

Juide Value for max. number of terminals (madstry)				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	8x94	8x94	
	4 mm ²	8x79	8x79	
	6 mm ²	8x60	8x60	
	10 mm ²	8x48	8x48	
16	16 mm ²	8x40	8x40	
	35 mm ²	8x30	8x30	

Note

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.Order recommendations:

13 35 Mounting rail with damping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

13 32 Mounting rail with damping yoke technology SAK

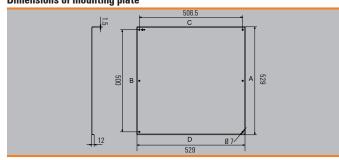
15 15 Mounting rail with damping yoke technology AZC

Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries			A/B	C/D
		M12	165	176
		M16	96	96
1		M20	64	64
		M25	39	39
		M32	33	33
	3	M40	16	16
		M50	14	14
		M63	5	5
		M75	4	4
Note	Our IP 68 brass cable glands are used as the reference for these guideline values.			

Dimensions of mounting plate



Note *Packing unit (PU) = 20 pcs., sufficient for 10 fixtures
**Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately

Klippon® EBi QL 806022 Depth 220 mm



800 / 600 / 220 mm

Ordering data

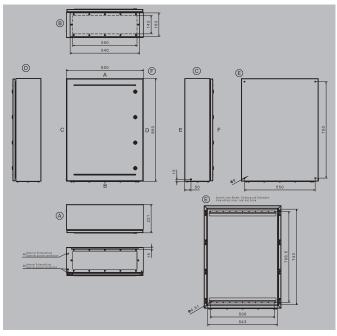
Stainless steel 1.4301 (304), brushed	Order No.
O gland plates	2470790000
1 gland plate - positioned at the bottom (B)	2470900000
Note	

Accessories

Note

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	1310480000
Stainless steel 1.4301 natural	1310390000
Fastening screws for terminal rails*	1274150000
Mounting rails**, TS35x7.5	
Vertical	8000037552
Stainless steel spacer M6 x 8, Set of 4	
10 mm length	0935110000
15 mm length	0935120000
20 mm length	0935130000
30 mm length	0935140000
Mild steel nickel plated Spacer M6 x 8, set of 2	
15 mm length	3896100000
20 mm length	3896200000
30 mm length	3896300000
Mounting feet, set containing 4 pieces each	
Stainless steel 1.4301 natural	1289180000
Lock inserts	
Slot	1191600000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Double-bit key	
	2473930000

*Packing unit (PU) = 20 pcs., sufficient for 10 fixtures **Packing unit (PU) = 20 pcs., fixing screws 1274150000 available separately



Guide value for max. number of terminals (industry)

Juliuc Value for Illux. Hullib	duide value for max. number of terminals (madstry)				
Assembly with terminal		vertical	horizontal		
	2.5 mm ²	8x133	11x94		
	4 mm ²	8x111	11x79		
	6 mm ²	8x84	11x60		
10	10 mm ²	8x67	11x48		
16	16 mm ²	8x56	11x40		
	35 mm ²	8x42	11x30		

Note

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail. Order recommendations:

1S 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology ACZ.

TS 32 Mounting rail with clamping yoke technology SAK.

TS 15 Mounting rail with clamping yoke technology AKZ.

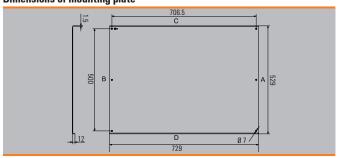
Order information for terminal blocks, please refer to online catalogue.

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	165	222
	M16	96	140
	M20	64	88
	M25	39	54
	M32	33	45
() () ()	M40	16	22
19	M50	14	18
	M63	5	7
	M75	4	5

Note Our IP 68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Klippon® STB stainless and sheet steel enclosures

Protection for industrial standard applications and potentially explosive atmospheres

The Klippon® STB range manufactured from either sheet or stainless steel is the perfectly designed Small Terminal Box. It provides the ideal connection point for either industrial or harsh environment applications.

The name Klippon® has long been synonymous for competence and quality in the supply of enclosures and customer solutions. This philosophy continues with our Klippon® STB range of enclosures.

Flexible, internal mounting options

Terminal rails can be installed on the industry standard mounting rails using the provided fixing set with welded C-profile (TAS 20). A maximum possible internal working area is provided while ensuring a stable and flexible area for the rail assembly.



Internal / external earthing screw

The enclosures are supplied with a pre-welded internal and external M6 stainless steel earth



Approvals

Klippon® STB enclosures have the latest international approvals.



Enhanced sealing performance

The new silicon seal has impressive thermal properties and can withstand temperatures from -60 °C to +120 °C. Compression protection ensures the complete functionality of the seal.



Industries

Klippon® STB enclosures can be used in a variety of applications. For example, they are ideal for use in standard applications such as machine construction or transportation. They can also be used in explosive risk zones in the process and petrochemical industry.



Customised solutions

Weidmüller delivers enclosures in the Klippon® STB series connection ready. With Klippon Services, Weidmüller offers extensive consultation, engineering and installation services for modified enclosures. Depending on the customerand industry-specific application, the enclosures can be modified and, subject to international specifications and regulations, sent worldwide together with



Klippon® STB - Small Terminal Box

Steel enclosures

Ideally suited for the energy and process industry and transportation, the Klippon® STB range is the perfect complement to our existing Klippon® enclosure product line. Enclosures of this range comply with international standards.

Some of the many advantages of these cases are:

- · Available in stainless steel or in steel sheet
- · Higher temperature resistant seals than the standard
- Flexible options when mounting the internal rail
- The gasket is protected against compression; this ensures that a permanent and secure seal is maintained.
- Earth studs in the lid and in the enclosure base
- · Lasered welding seams offer improved quality
- Delivered with welded mounting feet to ensure an sturdy enclosure installation

Weidmüller can manufacture and supply this enclosure to match customer specifications and fitted with all necessary terminals and cable glands.

















Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponSTB

Overview of enclosures

Ordering data

Description	Height x width x depth	Mirror-polish	Electropolished	Powder-coated
	in mm			(RAL7032)
Klippon® STB 1	120 x 120 x 80	1002690000	1058810000	1024970000
Klippon® STB 1.1	150 x 120 x 80	1002750000	1058820000	1024980000
Klippon® STB 2	150 x 150 x 90	1002740000	1058830000	1024990000
Klippon® STB 2.1	190 x 150 x 90	1002730000	1058840000	1025010000
Klippon® STB 3	190 x 190 x 100	1002720000	1058850000	1025020000
Klippon® STB 4	250 x 250 x 120	1002710000	1058860000	1025030000
Klippon® STB 5	160 x 380 x 120	1002700000	1058880000	1025040000
Klippon® STB 6	250 x 400 x 130	1002760000	1058870000	1025050000
Klippon® STB 6	250 x 400 x 130	1002760000	1058870000	

C.66 Weidmüller ₹ 2712630000

Technical Overview

Features

- Mirror-polished or electropolished stainless steel 1.4404 (316L) or powder coated steel sheet 1.0330
 Fitted with a welded, internal C-profile rail (TAS 20) and mounting feet
 Laser cut weld seams
 Approved according to the latest international standards

Note

We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

Technical data

	Stainless steel	Sheet steel
Enclosure material	Stainless steel 1.4404 (316L) in1.50 mm	Steel sheet 1.0330 in 1.50 mm
Surface finish	Mirror-polished, electropolished	Powder-coated RAL 7032
IP protection class	IP 66	IP 66
NEMA Rating	4, 4x	
Earthing	Enclosure base part: internal / external M6 stainless steel	Enclosure base part: internal / external M6 stainless steel
	Lid: M6 x 10 stainless steel	Lid: M6 x 10 stainless steel
Installation mounting	Welded C-profile rail	Welded C-profile rail
Enclosure attachment	2 external mounting feet with 8 mm holes	2 external mounting feet with 8 mm holes
Lid opening	Completely removable lid with 4 x M5 screws	Completely removable lid with 4 x M5 screws
Impact resistance	7J in accordance with IEC 60079-0	10J industrial version in accordance with DIN EN 50102
Gasket material	Silicone -60 °C+100 °C *	Silicone -60 °C+120 °C
Lid screws, torque	2.5 Nm	2.5 Nm
Note	* +120 °C only for industrial applications	

Approvals for empty enclosures

	Stainless steel	Sheet steel
ATEX certificate	IBExU07ATEX1147 U	
ATEX marking	🚱 II 2G Ex eb IIC Gb , 🚱 II 1G Ex ia IIC Ga, 🚱 II 2D Ex tb IIIC Db	
IECEx certificate	IECEx IBE 09.0018U	
IECEx marking	Ex eb IIC Gb, Ex ia IIC Ga, Ex tb IIIC Db	
AEx	E223792	
cULus	E197061 and E256877	
Lloyds Register	08/20032	08/20032
DNV GL	59 358 - 08 HH	
Russian Maritime Register	15.40041.250	15.40041.250
INMETRO	IEx 13.0002U	
EAC	RUC-DE.BE02.B.00173	
Note	This enclosure range is component certified. If other electrical co	omnonents are inserted into the case, additional certification is required

Approvals for control and distribution box

	Stainless steel			
ATEX certificate	IBExU07ATEX1148	INMETRO certificte	IEx 13.0003	
ATEX marking	🖾 II 2G Ex eb IIC T6/T5/T4 Gb	INMETRO marking	Ex eb IIC T6/T5/T4 Gb	
			Ex e [ia Ga] IIC T6/T5/T4 Gb	
	II 1G Ex ia IIC T6/T5/T4 Ga		Ex ia IIC T6/T5/T4 Ga	
	II 2D Ex th IIIC T80°C/T95°C/T100°C Dh		Ex tb IIIC T80°C/95°C/120°C Db IP66	
	$-60^{\circ}\text{C} \le \text{Ta} \le +40/+55/+60 ^{\circ}\text{C}$			
IECEx certificate	IECEx IBE 09.0019	EAC certificte	RUC-DE.08.B.01328	
IECEx marking	Ex eb IIC T6/T5/T4 Gb	EAC marking	II 2 G Ex e IIC T6T4 Gb,	
	Ex eb ia [Ga] IIC T6/T5/T4 Gb		II 2(1) G Ex e [ia Ga] IIC T6T4 Gb,	
	Ex ia IIC T6/T5/T4 Ga		II 1 G Ex ia IIC T6T4 Ga,	
	Ex tb IIIC T80°C/T95°C/T100°C Db		II 2 D Ex tb IIIC T80°CT130°C Db	
	-60°C ≤ Ta ≤ +40/+55/+60 °C			
KOSHA certificate	16-AV4B0-247X	AEx certificate	E223792	
KOSHA marking	Ex eb IIC T6/T5/T4 Gb	AEx marking	Class I, Zone 1, AEx e IIC Gb T6T4	
	Ex eb ia [Ga] IIC T6/T5/T4 Gb		Class I, Zone 2, AEx e IIC Gc T6T4	
	Ex ia IIC T6/T5/T4 Ga		Class I Div.2 Group A,B,C,D T6T4	
	Ex tb IIIC T80°C/T95°C/T100°C Db		Class II Div.2 Group F,G	
	-60° C \leq Ta \leq +40/+55/+60 $^{\circ}$ C		Zone 21, AEx tb IIIC Db	
Note	If you have specific requirements for equipment operating in e For details of power dissipation, please contact your Weidmüll		Weidmüller to receive a full copy of the certification.	

Klippon® STB 1 Depth 80 mm





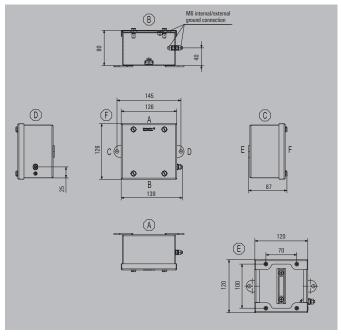
Height / Width / Depth	120 / 120 / 80 mm

Ordering data

Stainless steel	1.4404 (316L)	Order No.
	mirror-polished	1002690000
	electro-polished	1058810000
Sheet steel, po	wder-coated (RAL 7032)	
	powder-coated	1024970000
Note	The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Vertical	8683740000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000



Guide value for max. number of terminals (industry)

tal

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKC

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	10	8
	M16	6	4
	M20	6	4
	M25	3	2
	M32	2	1
() () () ()	M40	2	1
19)	M50		
	M63		

Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® STB 1.1 Depth 80 mm



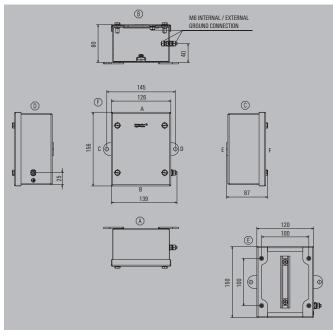
Height / Width / Depth 150 / 120 / 80 mm

Ordering data

Stainless steel 1.4404 (316L)	Order No.
mirror-polished	1002750000
electro-polished	1058820000
Sheet steel, powder-coated (RAL 7032)	
powder-coated	1024980000
Note The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Vertical	8683740000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	1x23	
	4 mm ²	1x19	
	6 mm ²	1x14	
	10 mm ²	1x11	
16	16 mm ²	1x9	

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

M12 M16	10	10
M16	6	0
	U	6
M20	6	6
M25	3	2
M32	2	2
M40	2	1
M50		
M63		
	M25 M32 M40 M50	M25 3 M32 2 M40 2 M50

Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® STB 2 Depth 90 mm



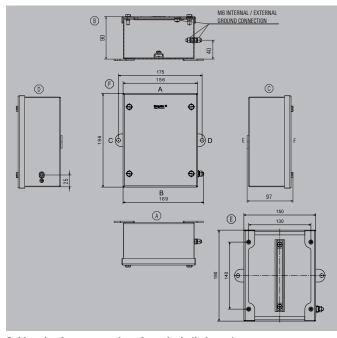
Height / Width / Depth	150 / 150 / 90 mm

Ordering data

Stainless steel	1.4404 (316L)	Order No.	
	mirror-polished	1002740000	
	electro-polished	1058830000	
Sheet steel, powder-coated (RAL 7032)			
	powder-coated	1024990000	
Note	The colours of painted enclosures may vary under certain circumstances.		

Accessories

Mounting rails, TS35x7.5	Order No.	
Vertical	8683740000	
Sliding fixing nut with screw		
M5	0433500000	
Pressure compensation elements		
Polyamide 6, M12	1868570000	
Stainless steel 1.4305, M12	1868550000	
Pressure compensating element with drainage function		
M20, stainless steel 1.4404 (316L)	2519550000	



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal	
	2.5 mm ²	1x23		
	4 mm ²	1x19		
	6 mm ²	1x14		
1.	10 mm ²	1x11		
	16 mm ²	1x9		

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKC

Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	15	15
	M16	10	8
	M20	8	6
	M25	3	2
	M32	3	2
200	M40	2	2
	M50	1	1
	M63		

Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® STB 2.1 Depth 90 mm



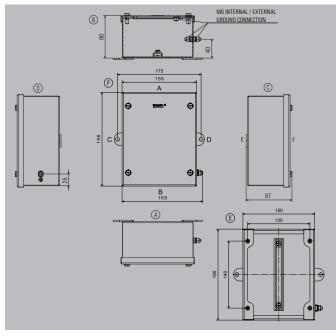
Height / Width / Depth 190 / 150 / 90 mm

Ordering data

Stainless steel 1.44	104 (316L)	Order No.
	mirror-polished	1002730000
	electro-polished	1058840000
Sheet steel, powder	r-coated (RAL 7032)	
	powder-coated	1025010000
Note	The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Vertical	1567660000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x30	
	4 mm ²	1x25	
	6 mm ²	1x20	
7.	10 mm ²	1x15	
	16 mm ²	1x13	

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKC

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	15	18
	M16	10	10
	M20	8	10
	M25	3	3
	M32	3	3
() () () () ()	M40	2	2
19	M50	1	1
	M63		

Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® STB 3 Depth 100 mm





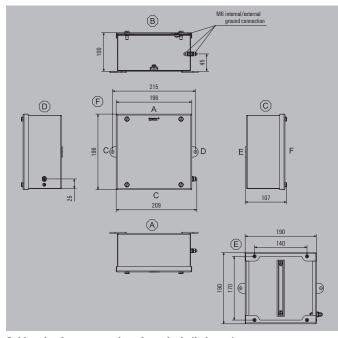
Height / Width / Depth 190 / 190 / 100 mm

Ordering data

Stainless steel 1.44	04 (316L)	Order No.
	mirror-polished	1002720000
	electro-polished	1058850000
Sheet steel, powder-	coated (RAL 7032)	
	powder-coated	1025020000
Note	The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Vertical	1567660000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x30	
	4 mm ²	1x25	
	6 mm ²	1x20	
	10 mm ²	1x15	
16	16 mm ²	1x13	

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKC

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	21	21
	M16	15	15
	M20	10	8
	M25	8	6
	M32	3	3
() () ()	M40	3	2
	M50	2	1
	M63	1	

Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® STB 4 Depth 120 mm



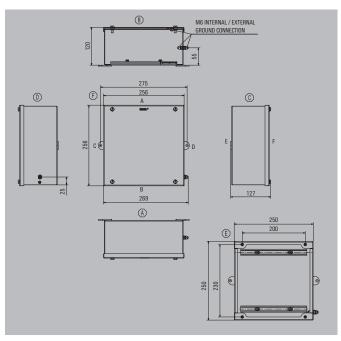
Height / Width / Depth 250 / 250 / 120 mm

Ordering data

Stainless steel 1.44	04 (316L)	Order No.
	mirror-polished	1002710000
	electro-polished	1058860000
Sheet steel, powder	-coated (RAL 7032)	
	powder-coated	1025030000
Note	The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Horizontally	8563410000
Vertical	8803610000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	2x42	2x42
	4 mm ²	2x35	2x35
	6 mm ²	2x27	2x27
	10 mm ²	2x22	2x22
16	16 mm ²	2x18	2x18

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	24	24
	M16	21	21
	M20	12	12
	M25	10	10
	M32	8	8
(2) (3)	M40	3	3
	M50	3	2
	M63	2	1

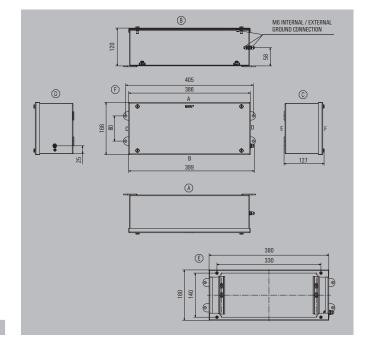
Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

2712630000

Klippon® STB 5 Depth 120 mm





Height / Width / Depth 160 / 380 / 120 mm

Ordering data

Stainless steel 1.4404 (316L)	Order No.
mirror-polished	1002700000
electro-polished	1058880000
Sheet steel, powder-coated (RAL 7032)	
powder-coated powder-coated	1025040000
Note The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Horizontally	8563410000
Vertical	8803610000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000

Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	3x25	1x68
	4 mm ²	3x21	1x57
	6 mm ²	3x16	1x44
	10 mm ²	3x12	1x35
16	16 mm ²	3x10	1x29

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue Note

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	64	20
	M16	33	12
	M20	30	12
	M25	16	6
	M32	10	4
(2) (3)	M40	6	2
	M50	4	1
	M63	2	1

NI 4		
Note		

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® STB 6 Depth 130 mm



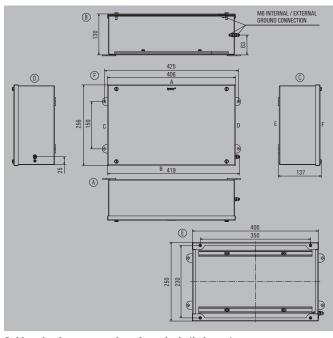
Height / Width / Depth 250 / 400 / 130 mm

Ordering data

Stainless steel 1.44	04 (316L)	Order No.
	mirror-polished	1002760000
	electro-polished	1058870000
Sheet steel, powder	-coated (RAL 7032)	
	powder-coated	1025050000
Note	The colours of painted enclosures may vary under certain circumstances.	

Accessories

Mounting rails, TS35x7.5	Order No.
Vertical	8803610000
Horizontally	8563410000
Sliding fixing nut with screw	
M5	0433500000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Pressure compensating element with drainage function	
M20, stainless steel 1.4404 (316L)	2519550000



Guide value for max. number of terminals (industry)

		(
ssembly with terminal		vertical	horizontal
	2.5 mm ²	3x42	2x72
	4 mm ²	3x35	2x60
	6 mm ²	3x27	2x46
	10 mm ²	3x22	2x37
16	16 mm ²	3x18	2x30

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Recommended order:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC

TS 32 Mounting rail with clamping yoke technology SAK

TS 15 Mounting rail with clamping yoke technology AKZ

Order information for terminal blocks, please refer to online catalogue

Guide value for max. number of cable entries

Cable entries		A/B	C/D
	M12	64	36
	M16	33	21
	M20	30	18
	M25	16	10
	M32	10	8
(2) (3)	M40	6	3
	M50	4	2
	M63	2	2

Note

The enclosure is supplied with a set of sliding fixing nuts, washer, screws M5, to fix the mounting rail TS 35 or TS 32 into the C-Profile. Note

Klippon® Protect – Terminal Boxes – Product overview Steel enclosures

Various types of terminal boxes are available for installing signal / power supplies or distributors in explosive risk zones.

The terminal boxes are explosion-protected equipment approved for use in Ex areas in zones $0,\,1,\,2$ and $20,\,21,\,22$.

They are certified in accordance with the latest international standards Ex e, Ex ia and Ex tb. Customer-specific configuration means these terminal boxes are the optimum solution for all applications. Use the product overview to find the right solution for you!

Combine the enclosure, with or without threaded holes, a suitable mounting rail or pre-fitted strip terminals.

We have put together a small selection for you, but we are happy to configure a bespoke solution for you.

Features:

- · Available in a wide range of versions to meet customer requirements
- Additional international approvals alongside IECEx, ATEX and EAC also available
- Increased quality thanks to the use of established basic products in the Klippon[®] brand











Overview of enclosures

Terminal boxes based on the Klippon® STB range of enclosures

TOTALISMA DOMOG DA	iood on the thippoin of Bran	g		
Description	Height x width x depth in mm	Marking	Approval	Order No.
STB 1 Exia	120 x 120 x 80	Ex ia IIC T4 Ga	IECEx, ATEX, EAC	8000028394
STB 2 Exe	150 x 150 x 90	Ex eb IIC T6 Gb	IECEx, ATEX, EAC	8000028395
STB 3 Exe	190 x 190 x 100	Ex eb IIC T6 Gb	IECEX, ATEX, EAC	8000028396
STB 4 Exe	250 x 250 x 120	Ex eb IIC T6 Gb	IECEx, ATEX, EAC	8000028397
Note				

C.76 Weidmüller ₹ 2712630000

Technical Overview

Technical data

Enclosures	
Material	Stainless steel 1.4404 (316L) 1.5 mm
Surface finish	Mirror-polished (Klippon® STB)
IP protection class	IP66 to DIN EN 60529
Gasket material	Silicone
Terminal block	
Material	Wemid
Colour	beige, blue or green/yellow
Connection system	screw connection
Clampable wires (H05V/H07V)	solid, flexible and flexible with ferrule
Note	

Approvals for Klippon® STB

ATEX certificate	IBExU07ATEX1148
IECEx certificate	IECEx IBE 09.0019
EAC certificate	RUCDE.08.B.01328
Note	Labelling depends on the application layout. For details of power dissipation, please contact your Weidmüller representative.

2712630000 **Weidmüller № C.77**

Klippon® STB 1 Ex ia terminal box

Depth

80 mm



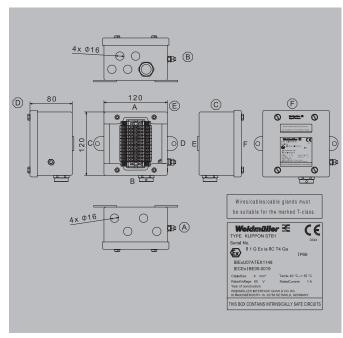
Height / Width / Depth	120 / 120 / 80 mm

Ordering data

	Order No.
STB 1 EXIA	8000028394
Note	

Technical data

Technical data	
Article - short description	Klippon® Klippon STB (Small Terminal Box)-
	Enclosures, Terminal Box
Identification	Ex ia IIC T4 Ga
Certificate no. assembled enclosure (ATEX)	IBExU 07ATEX1148
Certificate no. assembled enclosure (IECEx)	IECEx IBE09.0019
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC
	60079-31, EN 60079-0, EN 60079-7, EN 60079-11,
	EN 60079-31
Ambient temperature	Tamb -40°C+55°C
Type label material	Polyester coated with aluminium
Protection class	IP66
Assembly	
Modular terminal blocks	1x11
Rated cross-section	4 mm ²
Rated voltage	60 V
Rated current	1.00 A
Drill holes side A	4 x M16
Drill holes side B	4 x M16, 1 x BDX
Technical data, enclosure	
Material	Stainless steel 1.4404 (316L)
Surface finish	Mirror polished
Material thickness	1.5 mm
Seal material	Silicone
Enclosure attachment	Welded-on mounting foot with 8-mm holes
Mounting dimension - height / -width	60 mm / 145 mm
Lid attachment	M5 hex-head slotted screws SW10
Access opening: width / Access opening: height	100 mm / 99.4 mm
Earth, enclosure, external	Welded-on M6 x 16 stainless-steel bolts
Earth, enclosure, internal	Welded-on M6 x 16 stainless-steel bolts



Accessories

Pressure compensating element with drainage function	Order No.
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M16, 3-12 mm	1460040000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M16	1477820000
Locknuts	
Nickel-plated brass, M16	1736990000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KLIPPON STB 1 SS	1002690000
WDU 4 BL	1020180000
KLIPPON BDX M20 S	2519550000

Note

Note

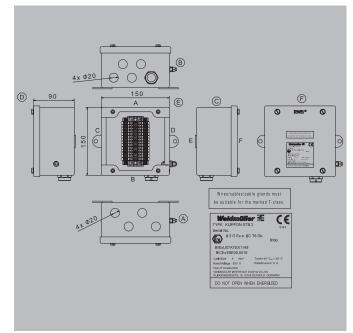
C.78 Weidmüller 🏖

Klippon® STB 2 Ex e terminal box

Depth

90 mm





Height / Width / Depth 150 / 150 / 90 mm

Ordering data

	Order No.
STB 2 Exe	8000028395
Note	

Technical data

rechnical data	
Article - short description	Klippon® Klippon STB (Small Terminal Box)-
	Enclosures, Terminal Box
Identification	Ex eb IIC T6 Gb
Certificate no. assembled enclosure (ATEX)	IBExU 07ATEX1148
Certificate no. assembled enclosure (IECEx)	IECEx IBE09.0019
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC
	60079-31, EN 60079-0, EN 60079-7, EN 60079-11
	EN 60079-31
Ambient temperature	Tamb -40°C+40°C
Type label material	Polyester coated with aluminium
Protection class	IP66
Assembly	
Modular terminal blocks	1x14
Rated cross-section	4 mm ²
Rated voltage	550 V
Rated current	6.00 A
Drill holes side A	4 x M20
Drill holes side B	4 x M20, 1 x BDX
Technical data, enclosure	
Material	Stainless steel 1.4404 (316L)
Surface finish	Mirror polished
Material thickness	1.5 mm
Seal material	Silicone
Enclosure attachment	Welded-on mounting foot with 8-mm holes
Mounting dimension - height / -width	75 mm / 175 mm
Lid attachment	M5 hex-head slotted screws SW10
Access opening: width / Access opening: height	130 mm / 130 mm
Earth, enclosure, external	Welded-on M6 x 16 stainless-steel bolts
Earth, enclosure, internal	Welded-on M6 x 16 stainless-steel bolts

Accessories

Accessories	
Pressure compensating element with drainage function	Order No.
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M20, 3-12 mm	1460050000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M20	1477840000
Locknuts	
Plastic, M20	1736930000
Nickel-plated brass, M20	1737000000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KLIPPON STB 2 SS	1002740000
WDU 4	1020100000
KLIPPON BDX M20 S	2519550000

Note

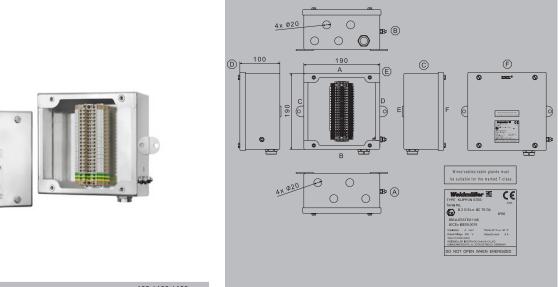
Note

Klippon® STB 3 Ex e terminal box

Depth

100 mm





Height / Width / Depth 190 / 190 / 100 mm

Ordering data

	Order No.
STB 3 Exe	8000028396
Note	

Technical data	
Article - short description	Klippon® Klippon STB (Small Terminal Box)-
Attale short description	Enclosures. Terminal Box
Identification	Ex eh IIC T6 Gh
Certificate no. assembled enclosure (ATEX)	IBEXU 07ATEX1148
Certificate no. assembled enclosure (IECEx)	IECEx IBE09.0019
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC
	60079-31, EN 60079-0, EN 60079-7, EN 60079-11
	EN 60079-31
Ambient temperature	Tamb -40°C+40°C
Type label material	Polyester coated with aluminium
Protection class	IP66
Assembly	
Modular terminal blocks	1x18, 2 x PE
Rated cross-section	4 mm ²
Rated voltage	550 V
Rated current	6.00 A
Drill holes side A	4 x M20
Drill holes side B	4 x M20, 1 x BDX
Technical data, enclosure	
Material	Stainless steel 1.4404 (316L)
Surface finish	Mirror polished
Material thickness	1.5 mm
Seal material	Silicone
Enclosure attachment	Welded-on mounting foot with 8-mm holes
Mounting dimension - height / -width	95 mm / 215 mm
Lid attachment	M5 hex-head slotted screws SW10
Access opening: width / Access opening: height	170 mm / 170 mm
Earth, enclosure, external	Welded-on M6 x 16 stainless-steel bolts
Earth, enclosure, internal	Welded-on M6 x 16 stainless-steel bolts

Accessories

Pressure compensating element with drainage function	Order No.
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M20, 3-12 mm	1460050000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M20	1477840000
Locknuts	
Plastic, M20	1736930000
Nickel-plated brass, M20	1737000000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KLIPPON STB 3 SS	1002720000
WDU 4	1020100000
WPE 4	1010100000
KLIPPON BDX M20 S	2519550000

Note

Note

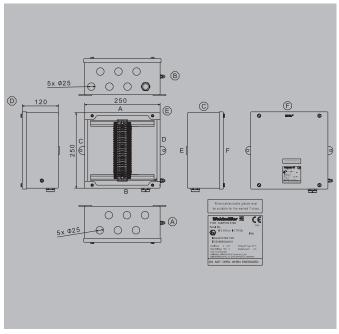
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Klippon® STB 4 Ex e terminal box

Depth

120 mm





250 / 250 / 120 mm

Ordering data

	Order No.
STB 4 Exe	8000028397
Note	

Technical data

iechnicai data	
Article - short description	Klippon® Klippon STB (Small Terminal Box)-
	Enclosures, Terminal Box
Identification	Ex eb IIC T6 Gb
Certificate no. assembled enclosure (ATEX)	IBExU 07ATEX1148
Certificate no. assembled enclosure (IECEx)	IECEx IBE09.0019
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC
	60079-31, EN 60079-0, EN 60079-7, EN 60079-11,
	EN 60079-31
Ambient temperature	Tamb -40°C+40°C
Type label material	Polyester coated with aluminium
Protection class	IP66
Assembly	
Modular terminal blocks	1x26, 2 x PE
Rated cross-section	4 mm ²
Rated voltage	550 V
Rated current	6.00 A
Drill holes side A	6 x M25
Drill holes side B	6 x M25, 1 x BDX
Technical data, enclosure	
Material	Stainless steel 1.4404 (316L)
Surface finish	Mirror polished
Material thickness	1.5 mm
Seal material	Silicone
Enclosure attachment	Welded-on mounting foot with 8-mm holes
Mounting dimension - height / -width	125 mm / 275 mm
Lid attachment	M5 hex-head slotted screws SW10
Access opening: width / Access opening: height	230 mm / 230 mm
Earth, enclosure, external	Welded-on M6 x 16 stainless-steel bolts
Earth, enclosure, internal	Welded-on M6 x 16 stainless-steel bolts

Accessories

Pressure compensating element with drainage function	Order No.
M20, brass	2519520000
Cable glands	
Nickel-plated brass, Ex e, M25, 10-18 mm	1460070000
Blanking plugs	
Stainless steel 1.4404 (316L), Ex e, M25	1477870000
Locknuts	
Plastic, M25	1736940000
Nickel-plated brass, M25	1737010000
Grounding strap	
green-yellow, 6 mm² for M6 bolt	2475490000
Note	

Reference products

	Order No.
KLIPPON STB 4 SS	1002710000
WDU 4	1020100000
WPE 4	1010100000
KLIPPON BDX M20 S	2519550000

Note

Note

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Safely control work processes in hazardous areas on siteWith certified enclosure solutions with control and display elements

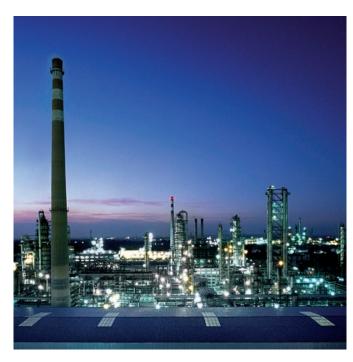
Harsh industrial environments and hazardous areas, such as in the oil and gas industry, place extreme demands on the safety, the robustness and quality of products and devices.

We meet these challenges with the Klippon® Control Station, the addition to our range of customised enclosure solutions. More than 50 years of expertise have made us market leader in this area with global competence centres. The basis of our enclosure solutions is provided by the usual Weidmüller quality and comprehensive approvals for explosion hazard areas. Based on this, our sturdy "on-site control station" is available in two standard sizes and with up to four control and display elements and provides a flexible solution to meet your specific needs.

Order your distributor enclosure as well as control and signaling units from a single source and from one enclosure design – for reliable security and reduced storage costs for maintenance and repair operations.

Your special advantages: Ideal for urgent service calls

We have prepared moduls of the proven Klippon® enclosure series STB available for you for further processing. This means we manufacture a control solution suitable for your application at short notice.



Predestined for emergency shutdown applications: Klippon® Control Stations score when it comes to the safe shutdown of plant sections, such as in the process industry

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Project solutions from a single source

Obtain command/signaling units and distribution and control boxes as a complete solution – tailored to the individual requirements of your projects in hazardous areas.



Customised assembly

In addition to standard types from stock, you can obtain enclosure solutions from us that are completely assembled and equipped according to customer requirements.









A variety of sizes and materials

Enclosures in stainless steel, aluminium or polyester are available for different environmental conditions. Depending on the size of the enclosure, it provides space for the integration of up to four control and display elements.



The Klippon® Control Station is tested and certified among others according to ATEX and IECEx.







2712630000 **Weidmüller № c.83**

Durability for maximum requirements

Klippon® Protect sets the highest standards with stainless steel enclosures

The enclosure ranges Klippon® TB and Klippon® STB are offered in stainless steel and boost market leading performance characteristics, which even allow them to meet the demanding requirements for use with the harshest environments. The enclosures are certified and comply with the latest international standards – including ATEX and IECEx.

Additional features:

- Standard silicone seals for use in extreme temperature environments
- · High Ingress Performace IP66
- · Welded-on mounting feet for wall mounting







Technical data

Impact resistance IK

Material Surface finish Colour IP protection class Ambient temperature Seal material of enclosure Seal material of command and signalling units Flammability rating

Cable gland material
Cable gland clamping area
min max. in mm
M20
M25
Max. rated cross-section
Max. operating voltage
with integrated illuminated pushbutton or light modu
Maximum operating current at 40 °C ambient
temperature
1.5 mm ² - T6
1.5 mm ² - T5
2.5 mm ² - T6
Maximum operating current at 55 °C ambient

Maximum operating current at 55 °C ambi
temperature
1.5 mm ² - T4
1.5 mm ² - T5
2.5 mm ² - T5
Temperature class
Type of mounting
Earthing inside
Lid attachment
Lid screw torque
Earthing torque
Earthing outside
Approvals

N	la	rl	ΚI	n	g

Mounting feet

Stainless steel

	_				
Stainless steel	1	44N4	(3161)	115	n_{mr}

Mirror-polished
Natural
IP 54; IP 66
-55 °C to 55 °C
Silicone
EPDM
-

7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module

Nickel-plated brass

3-12 mm

3-12 mm
10-18 mm
2.5 mm ²
400 V
250 V
10 A
16 A
16 A
16 A
10 A
16 A
T4, T5, T6
Wall mounting
x10 earthing studs integrated in the cover, stainless ste
Hexagonal slothead screws SW10
2.5 Nm
7.5 Nm
M6 earthing studs, stainless steel
IECEXITA14.0013X
TUEV14ATEX7606X
MARITREG 15.40082.250
2G Ex e d IIC T* Gb
2G Ex ib d [ia] IIC T* Gb

2D Ex tb IIIC T80/100 °C Db 2 welded-on mounting feet with 8 mm holes

Weidmüller ₹2 2712630000



	Number of built-in components												Emergency stop pushbutton	Key switch	Pushb	utton	Illumina push bu		Light r	nodule	Dimensions				
	•	•	•	red	II - 0 - I	red	green	red	green	red	green	with built-in components HxWxD in mm	Designation	Cable gland	Order number										
					1	1	Г	ſ	ı	1	r		1		I										
	•			1								150x120x119	KLIPPON CS STB 1-1	VG M20	1537200000	100									
	•						1					150x120x95	KLIPPON CS STB 1-1	VG M20	1537210000	0									
	•				1							150x120x109	KLIPPON CS STB 1-1	VG M20	1537220000	0									
	•								1			150x120x96	KLIPPON CS STB 1-1	VG M20	1537230000	0									
	•			1								153x120x119	KLIPPON CS STB 1-2	VG M25	1537240000	100									
	•						1					153x120x95	KLIPPON CS STB 1-2	VG M25	1537250000	0									
ss steel	•				1							153x120x109	KLIPPON CS STB 1-2	VG M25	1537280000										
Stainless steel	•								1			153x120x96	KLIPPON CS STB 1-2	VG M25	1537290000	0									
		•				1	1					223x150x95	KLIPPON CS STB 2.1-2	VG M25	1537300000	0									
		•					1				1	223x150x103	KLIPPON CS STB 2.1-2	VG M25	1537310000	0									
		•		1						1		223x150x119	KLIPPON CS STB 2.1-2	VG M25	1537320000										
			•			1	2					223x150x95	KLIPPON CS STB 2.1-6	VG M25	1537330000	8									
			•			1	1		1			223x150x103	KLIPPON CS STB 2.1-7	VG M25	1537340000	8									
			•	1		1	1					220x150x119	KLIPPON CS STB 2.1-7	VG M20	1537370000	8									

2712630000 **Weidmüller № C.85**

150 / 120 / 119 mm



Klippon® CS STB 1-1



Technical data

Enclosure

Dimensions with installation (HxBxD)
Material
General characteristics
Surface finish / Colour
Protection class
Ambient temperature
Impact resistance
Enclosure seal material
Seal material of operating and display elements
Type of mounting
Internal earth
External earth
Lid attachment
Torque for lid screws
Earth stud torque
Electrical properties*
Wire connection cross section, finely stranded, max.
Operating voltage, max.
Temperature class
Enclosure assembly
1 Position in enclosure
2 Position in enclosure
3 Position in enclosure
4 Position in enclosure
Contact design
Actuators
Actuator colour
Illumination module colour
Illuminated button actuator colour
Cable entries
Drill holes side B
Cable gland
Clamping range min. / max.
Approval and Marking
Standards
Certificate No. (IECEX)
Certificate No. (ATEX)
Certificate No. (EAC)
Certificate No. (MARITREG) Marking

Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
EMERGENCY-STOP pushbutton with yellow, contrasting label
2 NC contact, positive opening contacts
EMERGENCY STOP pushbutton
red
1 x M20 1460050000 - VG M20 EXE MS
1 x M20
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08.B.01838
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08.B.01838 15.40082.250
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08 B.01838 15.40082.250 II 2 G Ex d e IIC T* Gb
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08.B.01838 15.40082.250
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08 B.01838 15.40082.250 II 2 G Ex d e IIC T* Gb
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08 B.01838 15.40082.250 II 2 G Ex d e IIC T* Gb
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08 B.01838 15.40082.250 II 2 G Ex d e IIC T* Gb
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08 B.01838 15.40082.250 II 2 G Ex d e IIC T* Gb
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.TB08 B.01838 15.40082.250 II 2 G Ex d e IIC T* Gb

150 / 120 / 95 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
1 NC contact, 1 NO contacts
Pushbutton
green
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

Note

Ordering data

Туре	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537200000

Туре	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537210000

Note

*Other temperature classes and connection values on request, or see "Notice to Installer".

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Klippon® CS STB 1-1

Klippon® CS STB 1-2







150 / 120 / 109 mm Stainless steel 1.4404 (316L) Mirror polished / Natural IP54, IP66 -55 °C+55 °C 7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V T4, T5, T6
Stainless steel 1.4404 (316L) Mirror polished / Natural IP54, IP66 -55 °C+55 °C 7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
Mirror polished / Natural IP54, IP66 -55 °C. +55 °C 7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
IP54, IP66 -55 °C+55 °C 7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
IP54, IP66 -55 °C+55 °C 7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
-55 °C+55 °C 7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
7 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm ² 400 V
M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 400 V
2.5 Nm 7.5 Nm 2.5 mm ² 400 V
7.5 Nm 2.5 mm ² 400 V
2.5 mm ² 400 V
400 V
400 V
T4, T5, T6
Key-operated switch
1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - O - II, (I + II), latching,
Key retractable
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X

25 °C+55 °C 4 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 2250 V T14, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
IP54, IP66 -55 °C+55 °C 4 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 2.50 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
4 joules in acc. with IEC 60079-0 Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 250 V T14, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
Silicone (VMQ) EPDM Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 bexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 250 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
Wall mounting M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 2.50 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
M6 x 10 earthing studs integrated in the lid, stainless steel M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 2.50 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
2.5 mm² 250 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
M6 earthing studs, stainless steel M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 2.50 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
M5 hexagonal screw with slot and 10mm distance across flats 2.5 Nm 7.5 Nm 2.5 mm² 2.50 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
2.5 Nm 7.5 Nm 2.5 mm² 2.50 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
7.5 Nm 2.5 mm² 250 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
2.5 mm² 250 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
250 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
250 V T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
T4, T5, T6 Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
Illuminated pushbutton - green 2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
2 NO contacts Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm JEC 60079-0, IEC 60079-7, IEC 60079-31 JECEXITA14.0013X TUEV14ATEX7606X
Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
Pushbutton green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
green 1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
1 x M20 1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
1460050000 - VG M20 EXE MS 3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
3 mm / 12 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
IECEXITA14.0013X TUEV14ATEX7606X
IECEXITA14.0013X TUEV14ATEX7606X
IECEXITA14.0013X TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

450 / 400 / 440
153 / 120 / 119 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flat
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
2 NC contact, positive opening contacts
EMERGENCY STOP pushbutton
red
1 v M2E
1 x M25 1460070000 - VG M25 EXE MS
1460070000 - VG M25 EXE MS 10 mm / 18 mm
TU IIIIII / TO IIIIII
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db

Туре	Qty.	Order No.
KLIPPON CS STB 1-1	1	1537220000

Type	Uty.	Order No.
KLIPPON CS STB 1-1	1	1537230000

Туре		Qty.	Order No.
KLIPPON CS ST	ГВ 1-2	1	1537240000

*Other temperature classes and connection values on request, or see "Notice to Installer".

*Other temperature classes and connection values on request, or see "Notice to Installer".

*Other temperature classes and connection values on request, or see "Notice to Installer".

RUC-DE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db



Klippon® CS STB 1-2



Technical data

Enclosure

Dimensions with installation (HxBxD)
Material
General characteristics
Surface finish / Colour
Protection class
Ambient temperature
Impact resistance
Enclosure seal material
Seal material of operating and display elements
Type of mounting
Internal earth
External earth
Lid attachment
Torque for lid screws
Earth stud torque
Electrical properties*
Wire connection cross section, finely stranded, max.
Operating voltage, max.
Temperature class
Enclosure assembly
1 Position in enclosure
2 Position in enclosure
3 Position in enclosure
4 Position in enclosure
Contact design
Actuators
Actuator colour
Illumination module colour
Illuminated button actuator colour
Cable entries
Drill holes side B
Cable gland
Clamping range min. / max.
Approval and Marking
Standards
Certificate No. (IECEX)
Certificate No. (ATEX)
Certificate No. (EAC)
Certificate No. (MARITREG)
Marking

153 / 120 / 95 mm
Stainless steel 1.4404 (316L)
, ,
Mirror polished / Natural
IP54, IP66
· · · · · · · · · · · · · · · · · · ·
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
7.0 11
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
1 NC contact, 1 NO contacts
Pushbutton
green
1 v M2E
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

153 / 120 / 1	
Stainless steel	1.4404 (316L)
	L/N - 1
Mirror polished	I / Natural
IP54, IP66	
-55 °C+55 °C	
	with IEC 60079-0
Silicone (VMQ	
EPDM	
Wall mounting	
M6 x 10 earth	ing studs integrated in the lid, stainless steel
M6 earthing st	uds, stainless steel
M5 hexagonal	screw with slot and 10mm distance across flats
2.5 Nm	
7.5 Nm	
2.5 mm ²	
400 V	
T4, T5, T6	
Key-operated s	witch
4.110	1.110
1 NC contact,	
	witch, 3 switching positions, I - 0 - II, (I + II), latching,
Key retractable	1
1 x M25	
1460070000	- VG M25 EXE MS
10 mm / 18 m	m
IEC 60079-0, I	EC 60079-7, IEC 60079-31
IECEXITA14.00	113X
TUEV14ATEX7	606X
RUC-DE.TB08.I	B.01838
15.40082.250	
II 2 G Ex d e IIC	
II 2 D Ex tb IIIC	
D () 1110	

Note

Ordering data

u.u			
	Туре	Qty.	Order No.
	KLIPPON CS STB 1-2	1	1537250000

uci ivo.	Type	Œty.	Oluci ito.
37250000	KLIPPON CS STB 1-2	1	1537280000

Note

*Other temperature classes and connection values on request, or see "Notice to Installer".

Weidmüller 🏖

Klippon® CS STB 2.1-2

Klippon® CS STB 2.1-2







153 / 120 / 96 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
4 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M25
1460070000 - VG M25 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

223 / 150 / 95 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - red
Pushbutton - green
2 NC contact, 2 NO contacts
Pushbutton
red, green
green
1 x M25
1 x M25 1460070000 - VG M25 EXE MS
1 x M25
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.BE02.B.00173
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.BE02.B.00173 15.40082.250
1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.BE02.B.00173

223 / 150 / 103 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
4 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm ²
250 V
T4, T5, T6
Light module - green
Pushbutton - green
4.10
1 NC contact, 1 NO contacts
Pushbutton
green
green
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

Туре	Qty.	Order No.
KLIPPON CS STB 1-2	1	1537290000

Туре	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537300000

Qty.	Order No.
1	1537310000
	Qty. 1

*Other temperature classes and connection values on request, or see "Notice to Installer".

*Other temperature classes and connection values on request, or see "Notice to Installer".



Klippon® CS STB 2.1-6



Technical data

Enclosure

Dimensions with installation (HxBxD)
Material
General characteristics
Surface finish / Colour
Protection class
Ambient temperature
Impact resistance
Enclosure seal material
Seal material of operating and display elements
Type of mounting
Internal earth
External earth
Lid attachment
Torque for lid screws
Earth stud torque
Electrical properties*
Wire connection cross section, finely stranded, max.
Operating voltage, max.
Temperature class
Enclosure assembly
1 Position in enclosure
2 Position in enclosure
3 Position in enclosure
4 Position in enclosure
Contact design
Actuators
Actuator colour
Actuator colour Illumination module colour
Actuator colour Illumination module colour Illuminated button actuator colour
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max.
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max. Approval and Marking
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max. Approval and Marking Standards
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max. Approval and Marking Standards Certificate No. (IECEX)
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max. Approval and Marking Standards Certificate No. (IECEX) Certificate No. (ATEX)
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max. Approval and Marking Standards Certificate No. (IECEX) Certificate No. (ATEX) Certificate No. (EAC)
Actuator colour Illumination module colour Illuminated button actuator colour Cable entries Drill holes side B Cable gland Clamping range min. / max. Approval and Marking Standards Certificate No. (IECEX) Certificate No. (ATEX)

223 / 150 / 119 mm	
Stainless steel 1.4404 (316L)	
AC P. L. L. / AL L	
Mirror polished / Natural	
IP54, IP66 -55 °C+55 °C	
4 joules in acc. with IEC 60079-0 Silicone (VMQ)	
EPDM	
Wall mounting	
M6 x 10 earthing studs integrated in the lid, stainless s	tool
M6 earthing studs, stainless steel	leei
M5 hexagonal screw with slot and 10mm distance acro	ee flate
2.5 Nm	ss mars
7.5 Nm	
7.3 WIII	
2.5 mm ²	
250 V	
T4, T5, T6	
Light module - red	
EMERGENCY-STOP pushbutton with yellow, contrasting	label
EMERGENCY-STOP pushbutton with yellow, contrasting	label
EMERGENCY-STOP pushbutton with yellow, contrasting	label
EMERGENCY-STOP pushbutton with yellow, contrasting 2 NC contact, positive opening contacts	label
	label
2 NC contact, positive opening contacts	label
2 NC contact, positive opening contacts	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.08.8.00472	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.08.B.00472 15.40082.250	label
2 NC contact, positive opening contacts EMERGENCY STOP pushbutton red 1 x M25 1460070000 - VG M25 EXE MS 10 mm / 18 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.08.8.00472	label

223 / 150 / 95 mm
Stainless steel 1.4404 (316L)
Mirror polished / Natural
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
M6 x 10 earthing studs integrated in the lid, stainless steel
M6 earthing studs, stainless steel
M5 hexagonal screw with slot and 10mm distance across flats
2.5 Nm
7.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
Pushbutton - red
Pushbutton - green
3 NC contact, 3 NO contacts
Pushbutton
green, red
1 x M25
1460070000 - VG M25 EXE MS
10 mm / 18 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

Note

Note

Ordering data

Туре	Qty.	Order No.
KLIPPON CS STB 2.1-2	1	1537320000

e	Qty.	Order No.	Туре	Qty.	Order No.
PPON CS STB 2.1-2	1	1537320000	KLIPPON CS STB 2.1-6	1	1537330000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Weidmüller 🏖 C.90

Klippon® CS STB 2.1-7





223 / 150 / 103 mm	
Stainless steel 1.4404	(316L)
Mirror polished / Natura	al
P54, IP66	31
55 °C+55 °C	
4 joules in acc. with IEC	60079-0
Silicone (VMQ)	
EPDM	
Wall mounting	
	integrated in the lid, stainless steel
M6 earthing studs, stair	
	ith slot and 10mm distance across flats
2.5 Nm	
7.5 Nm	
2.5 mm²	
250 V	
T4, T5, T6	
Pushbutton - red	
Light module - green	
Pushbutton - green	
2 10 2 10	
2 NC contact, 2 NO con	tacts
Pushbutton	
rod groop	
red, green	
green	
1 x M25	
1460070000 - VG M25	EXE MS
10 mm / 18 mm	
.,	
EC 60079-0, IEC 6007	9-7, IEC 60079-31
ECEXITA14.0013X	
TUEV14ATEX7606X	
RUC-DE.BE02.B.00173	
15.40082.250	
100F U0T+0	
l 2 G Ex d e IIC T* Gb	

00 / 150 / 110 mm	
20 / 150 / 119 mm ainless steel 1.4404 (316L)	
anness steer 1.4404 (316L)	
irror polished / Natural	
54, IP66	
5 °C+55 °C	
joules in acc. with IEC 60079-0	
licone (VMQ)	
PDM	
all mounting	
6 x 10 earthing studs integrated in the lid, stainless s	steel
6 earthing studs, stainless steel	
5 hexagonal screw with slot and 10mm distance acr	oss flats
5 Nm	
5 Nm	
5 mm ²	
00 V	
l, T5, T6	
ıshbutton - green	
ıshbutton - red	
MERGENCY-STOP pushbutton with yellow, contrasting	g label
NO contacts, 2 NC contact, positive opening contacts	;
shbutton, EMERGENCY STOP pushbutton	
een, red	
x M20	
160050000 - VG M20 EXE MS	
mm / 12 mm	
C 60079-0, IEC 60079-7, IEC 60079-31	
CEXITA14.0013X	
CEXITA14.0013X JEV14ATEX7606X	
CEXITA14.0013X JEV14ATEX7606X JC-DE.BE02.B.00173	
CEXITA14.0013X JEV14ATEX7606X JC-DE.BE02.B.00173 5.40082.250	
CEXITA14.0013X JEV14ATEX7606X JC-DE.BE02.B.00173	

Туре	Qty.	Order No.
KLIPPON CS STB 2.1-7	1	1537340000

Туре	Qty.	Order No.
KLIPPON CS STB 2.1-7	1	1537370000

 $\ensuremath{^{\diamond}}\xspace \xspace \xspace \xspace$ Other temperature classes and connection values on request, or see "Notice to Installer".

2712630000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Weidmüller ₹ C.91

Klippon® K – aluminium enclosure Robust enclosure for industrial applications

The aluminium Klippon® K enclosures are suitable for use in an extremely wide range of different areas. Various components can be installed inside the enclosures, and will benefit in particular from the high temperature resistance, the excellent IP protection and the good impact resistance.









Standardised closure system

The cover is attached using captive Torx slotted screws. The highly functional screw connection with coated stainless steel screws allows for use even in corrosive atmospheres. Working with the enclosures requires just one single tool, as only Torx slotted screws are used.





Weidmüller 🏖

High IP protection

There are no glued areas on the moulded seal of the enclosure, which helps ensure optimal leaktightness. The seal guarantees an IP protection of IP66 to IP68 (depending on the use).



Mounting options

The matching terminal rails or mounting plates are available as accessories and can be used to install a wide range of different components inside the enclosure.



Ex applications

Klippon® K enclosures with explosion protection for use in explosive risk zones are optionally available.







Customer-specific assembly Enjoy more flexibility in your project business with Klippon® Services. We combine reliable planning, professional engineering and production in the perfect quality to create your customised product.





The enclosure can be attached directly using the designated attachment holes. Alternatively, it can be attached from the outside using the assembly feet that are available as accessories.



Weidmüller ₹ C.93 2712630000

Klippon® K – Aluminium enclosures

Klippon® K-Series aluminium enclosures can be used in a variety of applications, e.g. for the assembly of modular terminal blocks, switches, power supplies, operational and display elements or electronic modules.

The extensive Klippon® K enclosure range has the following advantages:

- More flexibility 19 different sizes
- Available in two surface finishes powder-coated and natural
- Mounting holes not within the sealed area
- · Fastening thread to attach mounting rails and plates
- · Closed moulded gasket (no glue seam)

Weidmüller manufactures and supplies the enclosures to match customer specifications - fully fitted with terminals, electronics and cable glands.

















Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponK

Overview of enclosures

Ordering data

Description	Height x width x depth	Powder-coated (RAL 7001)*			Unpainted			
in mm		Standard		Ex enclosure** Standa		dard	ard Ex enclosure**	
		CR	Silicone	Silicone	CR	Silicone	Silicone	
		moulded seal	moulded seal**	moulded seal	moulded seal	moulded seal**	moulded seal	
Klippon® K O	45 x 50 x 30	9529090000	1937920000		0573200000	1939760000		
Klippon® K 01	64 x 58 x 34	9529100000	1937850000		1565240000	1939540000		
Klippon® K 02	64 x 98 x 34	9529110000	1937840000		1565250000	1939550000		
Klippon® K 1	70 x 70 x 45	9529120000	1937630000	1329630000	0342000000	1939560000	9526840000	
Klippon® K 11	80 x 75 x 57	9529130000	1937910000	1329640000	0573300000	1939570000	9526850000	
Klippon® K 2	70 x 100 x 45	9529140000	1937930000	1329650000	0342100000	1939580000	9526860000	
Klippon® K 21	80 x 125 x 57	9529150000	1937830000	1328120000	0573400000	1939590000	9526870000	
Klippon® K 3	70 x 165 x 45	9529160000	1937900000	1329670000	0342200000	1939600000	9526880000	
Klippon® K 31	80 x 175 x 57	9529170000	1937820000	1329680000	0573500000	1939610000	9526890000	
Klippon® K 32	80 x 250 x 55	9529180000	1937810000	1329690000	1565260000	1939620000	9526900000	
Klippon® K 4	82 x 130 x 72	9529190000	1937890000	1329700000	0342300000	1939630000	9526910000	
Klippon® K 41	120 x 122 x 81	9529200000	1937800000	1329710000	1565270000	1939640000	9526920000	
Klippon® K 5	130 x 170 x 90	9529210000	1937860000	1329720000	0342400000	1939650000	9526930000	
Klippon® K 51	120 x 220 x 81	9529220000	1937750000	1328130000	1565280000	1939660000	9526940000	
Klippon® K 52	160 x 160 x 91	9529230000	1937740000	1329730000	1565290000	1939670000	9526950000	
Klippon® K 6	160 x 200 x 100	9529240000	1937870000	1329740000	0342500000	1939690000	9526960000	
Klippon® K 61	160 x 260 x 91	9529250000	1937730000	1328140000	0573600000	1939700000	9526970000	
Klippon® K 7	160 x 350 x 100	9529260000	1937880000	1329750000	0342600000	1939710000	9526980000	
Klippon® K 71	230 x 280 x 111	9529270000	1937720000	1329770000	0573700000	1939730000	9526990000	
Note	*Colour variations may occur	under certain circumstances	, **Delivery time on reque	st, Ex enclosures available	on request			

Weidmüller 🐔 2712630000

Technical Overview

Features

- Two surfaces: natural and powder-coated
 High IP protection up to IP68
 Moulded silicone gasket for applications with high temperatures
- A uniform Torx®-slotted screw head is used for over 19 different enclosure sizes.

 Alloy is resistant to salt water
- Approved according to the latest international standards

We deliver enclosures through our assembly service which are ready to be connected and suitable for every application

Technical data

	Ex	Standard
Enclosure material	High quality aluminium alloy (Al-Si12)	High quality aluminium alloy (Al-Si12)
Surface, untreated	Smooth	Smooth
Surface, painted	Silver grey, textured, similar to RAL 7001	Silver grey, textured, similar to RAL 7001
Painting	50-90 µm paint thickness	50-90 μm paint thickness
P protection class	IP66, IP67 to DIN EN 60529	IP66, IP67 and IP68* to DIN EN 60529
NEMA		4, 4x
Earthing outside	Earthing studs, M4	
Installation mounting	Flexible DIN rail mounting	Flexible DIN rail mounting
Enclosure mounting	Direct mounting with optional mounting brackets	Direct mounting with optional mounting brackets
	(from a size of 120 x 122 x 81 Klippon® K 41)	(from a size of 120 x 122 x 81 Klippon® K 41)
Lid fixing	Captive stainless steel Torx® 20 or slotted screws.	Captive stainless steel Torx® 20 or slotted screws.
Impact resistance	7J to IEC 60079-0	IK 09 (10J) to DIN EN 50102
Gasket material	Silicone (VMQ)	Chloroprene / Silicone (VMQ)
Temperature range	-60 °C+135 °C	-40 °C+80 °C with chloroprene gasket /
		-60 °C+135 °C with silicone gasket
Lid screws, torque**	2.5 Nm	2.5 Nm
Note	* (t=72h; h=1m)	
	** To secure the lid we recommend the use of our Torx® TH20 screwdriver (9009160000)	
Depending on the screw head size, our slotted screwdriver may also be used as an alternative, Ex enclosures available on rec		

Approvals for empty enclosures

	Ex	Standard	
ATEX certificate	IBExU12ATEX1144 U		
ATEX marking	II 2G Ex e IIC Gb or II 2G Ex eb IIC		
	II 2D Ex t IIIC Db or II 2D Ex tb IIIC		
IECEx certificate	IECEx IBE 13.0001U		
IECEx marking	Ex e IIC Gb or Ex eb IIC		
	Ex tb IIIC Db or Ex tb IIIC		
EAC	E197061 (Ord.Loc.)		
cULus		E197061	
Russian Maritime Register	19.00108.272	19.00108.272	
DNV GL	TAE00002SM	TAE00002SM	
Installation	The Klippon® K enclosure range can be pre-fitted in our customer specific production department according to your wishes.		
Note	This enclosure range is component certified. If other electrical components are inserted into the case, additional certification is required.		

Approvals for control and distribution box

	Ex		
ATEX certificate	IBExU12ATEX1145 X	EAC certificate	RUC-DE.08.B.01328
ATEX marking	II 2G Ex e IIC T6T4 Gb or II 2G Ex eb IIC T6T4	EAC marking	II 2 G Ex eb IIC T6 T4
	II 2G Ex ia IIC T6T4 Gb or II 2 Ex ia IIC T6T4		II 2 G Ex e IIC T6 T4 Gb
	II 2(1)G Ex e ia IIC T6T4 Gb or II 2(1)G Ex eb ia IIC T6T4		II 2 G Ex ia IIC T6 T4
	II 2D Ex t IIIC T85°C135°C Db or II 2 D Ex tb IIIC T85°C135°C		II 2 G Ex ia IIC T6 T4 Gb
IECEx certificate	IECEx IBE 13.0002X		II 2(1) G Ex eb ia IIC T6 T4
IECEx marking	Ex e IIC T6T4 Gb or Ex eb IIC T6T4		II 2(1) G Ex e ia IIC T6 T4 Gb
	Ex ia IIC T6T4 Gb		II 2 D Ex tb IIIC T85°CT135°C
	Ex e ia IIC T6T4 Gb		II 2 D Ex th IIIC T85°CT135°C Db
	Ex tb IIIC T85°C135°C Db or Ex tb IIIC T85°C135°C		
Note	If you have specific requirements for equipment operating in explosive haz	ard areas, please contact ι	ıs at Weidmüller to receive a full copy of the certification.
	For details of power dissipation, please contact your Weidmüller representative.		

Weidmüller ₹ C.95 2712630000

Klippon® K O Depth 30 mm





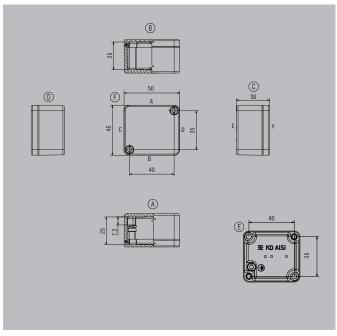
Height / Width / Depth	45 / 50 / 30 mm

Ordering data

powder-coate	d (RAL 7001)	Order No.
	Standard (CR seal)	9529090000
	Standard (silicone seal)*	1937920000
unpainted		
	Standard (CR seal)	0573200000
	Standard (silicone seal)*	1939760000
Note	The colours of painted enclosures may vary under certain circumstances. *	Delivery time on

Accessories

Torx®screw driver	Order No.
not insulated, Torx® TH20	9009160000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x1*	1x1*
	4 mm ²	1x1*	1x1*
	6 mm ²		
	10 mm ²		
16	16 mm ²		

*Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. There are no prescribed possible attachment points in the enclosure. Note

Guide value for max. number of cable entries

Guide value for max. number of	cable entries	A/B	C/D
	M12	1	1
	M16	1	1
	M20		
	M25		
	M32		
200	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Note Helicoil for outdoor applications, available ex-works. Klippon® K 01 Depth 34 mm



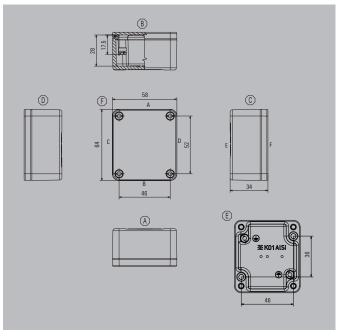


Ordering data

powder-coated (RAL 7001)	Order No.
	Standard (CR seal)	9529100000
	Standard (silicone seal)*	1937850000
unpainted		
	Standard (CR seal)	1565240000
	Standard (silicone seal)*	1939540000
Note	The colours of painted enclosures may vary under certain circumstances. *	Delivery time on

Accessories

Torx®screw driver	Order No.
not insulated, Torx® TH20	9009160000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000



Guide value for max. number of terminals (industry)

zarao rarao for maxi nambor of torminaro (maaoti //			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x1*	1x1*
	4 mm ²	1x1*	1x1*
	6 mm ²		
1.	10 mm ²		
16	16 mm ²		
1-0			

Note

*Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. There are no prescribed possible attachment points in the enclosure.

Guide value for max. number of cable entries

Guide value for max. number of ca	able entries	A/B	C/D
	M12	1	1
	M16	1	1
	M20		
	M25		
	M32		
	M40		
(1)	M50		
	M63		

Note Our IP68 brass cable glands are used as the reference for these guideline values.

Note Helicoil for outdoor applications, available ex-works.

Klippon® K 02 Depth 34 mm



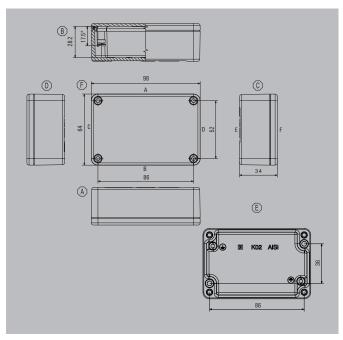


Height / Width / Depth	64 / 98 / 34 mm
Ordering data	

Ordering data		
powder-coated (RAL	. 7001)	Order No.
	Standard (CR seal)	9529110000
	Standard (silicone seal)*	1937840000
unpainted		
	Standard (CR seal)	1565250000
	Standard (silicone seal)*	1939550000
Note	The colours of painted enclosures may vary under certain circumstances. $\mbox{\ensuremath{\star}}$ request	Delivery time on

Accessories

Torx®screw driver	Order No.
not insulated, Torx® TH20	9009160000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000



Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x1*	1x1*
The state of the s	4 mm ²	1x1*	1x1*
	6 mm ²		
	10 mm ²		
	16 mm ²		

*Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. There are no prescribed possible attachment points in the enclosure. Note

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	3	1
	M16	3	1
	M20	2	
	M25		
	M32		
	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Note Helicoil for outdoor applications, available ex-works.

©

Klippon® K 1 Depth 45 mm

0



Height / Width / Depth	70 / 70 / 45 mm	XX* for 9526840000 and 1329630000
Ordering data		Guido value for may number of terminals (industry)

Ordering data

powder-coated ((RAL 7001)	Order No.
	Standard (CR seal)	9529120000
	Standard (silicone seal)*	1937630000
unpainted		
	Standard (CR seal)	0342000000
	Standard (silicone seal)*	1939560000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
15 mm width	1909980000
Mounting plate	
Steel sheet, zinc plated	1905280000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000

Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x1*	1x5
	4 mm ²	1x1*	1x1*
1	6 mm ²		
7.	10 mm ²		
	16 mm ²		

Note

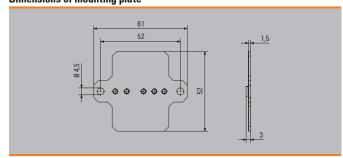
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. For vertical installations, we recommend using not more than one BK 4 or BK 4 CRN (0625120000). For horizontal installations with 2.5mm² 1x5 AKZ terminal blocks (only possible on a TS 15) for 4mm², use not more than one BK 4. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	2	1
	M16	2	1
	M20	1	
	M25		
	M32		
	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications, available ex-works. Note

Weidmüller ₹ C.99 2712630000

Klippon® K 11 Depth 57 mm



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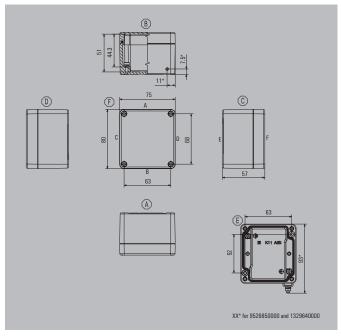
Height / Width / Depth	80 / 75 / 57 mm

Ordering	d	ata
		LID

powder-coated	(RAL 7001)	Order No.
	Standard (CR seal)	9529130000
	Standard (silicone seal)*	1937910000
unpainted		
	Standard (CR seal)	0573300000
	Standard (silicone seal)*	1939570000
Note	The colours of painted enclosures may vary under certain circumstances. En ble on request. *Delivery time on request	c-enclosures are availa-

Accessories

Terminal rail, Set	Order No.
15 mm width	1909990000
Mounting plate	
Steel sheet, zinc plated	3073000000
Hinge, diecast zinc, Set	
	1580360000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000



Guide value for max, number of terminals (industry)

dulac value for max. number of terminals (mastry)				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	1x1*	1x5	
	4 mm ²	1x1*	1x4	
	6 mm ²			
	10 mm ²			
16	16 mm ²			

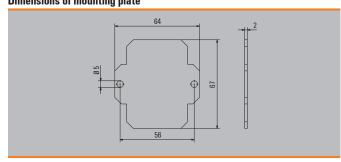
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend at most one BK 6 or BK 6 CRN (082520000) in vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	2	2
	M16	2	2
	M20	1	1
	M25	1	
	M32		
(2) (A)	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 C.100 2712630000 Klippon® K 2 Depth 45 mm



1	-	
a		
	•	

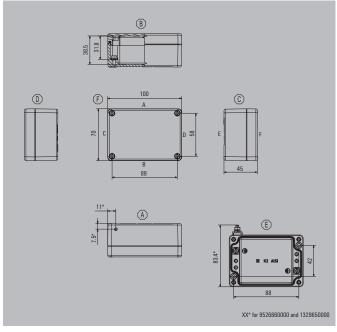
Height / Width / Depth	70 / 100 / 45 mm

Ordering data

powder-coated (RAL 7001)	Order No.
	Standard (CR seal)	9529140000
	Standard (silicone seal)*	1937930000
unpainted		
	Standard (CR seal)	0342100000
	Standard (silicone seal)*	1939580000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
15 mm width	1910010000
Mounting plate	
Steel sheet, zinc plated	1905270000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000



Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x10
	4 mm ²	*	
	6 mm ²		
	10 mm ²		
16	16 mm ²		

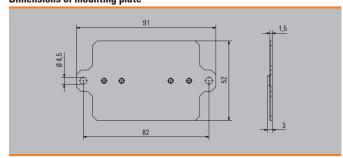
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend a most one BK 6 or BK 6 CRN (062522000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	3	1
	M16	3	1
	M20	2	
	M25		
	M32		
() () () ()	M40		
(1)	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications, available ex-works. Note

Weidmüller ₹ C.101 2712630000

Klippon® K 21 Depth 57 mm



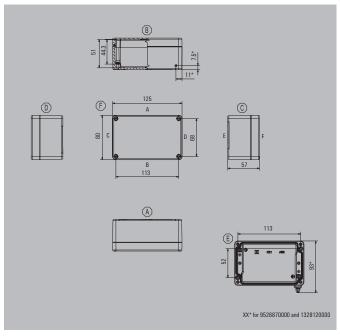


Height / Width / Depth	80 / 125 / 57 mm

Orgering data		
powder-coated (RAL	L 7001)	Order No.
	Standard (CR seal)	9529150000
	Standard (silicone seal)*	1937830000
unpainted		
	Standard (CR seal)	0573400000
	Standard (silicone seal)*	1939590000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	-enclosures are availa-

Accessories

Terminal rail, Set	Order No.
15 mm width	1910020000
Mounting plate	
Steel sheet, zinc plated	3073020000
Hinge, diecast zinc, Set	
	1580360000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000



Guide value for max, number of terminals (industry)

duluc value for max. number of terminals (mads try)				
	vertical	horizontal		
2.5 mm ²	*	1x15		
4 mm ²	*	1x12		
6 mm ²				
10 mm ²				
16 mm ²				
	2.5 mm ² 4 mm ² 6 mm ² 10 mm ²	vertical 2.5 mm ² * 4 mm ² * 6 mm ² 10 mm ²		

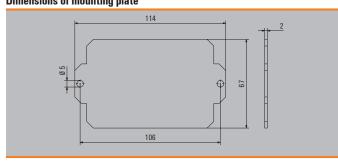
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about po-pulating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	6	2
	M16	4	2
	M20	3	1
	M25	2	
	M32		
2	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 C.102 2712630000 Klippon® K 3 Depth 45 mm

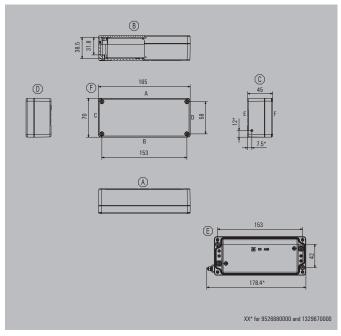


Height / Width / Depth	70 / 165 / 45 mm

Urdering data		
powder-coated (RAL 70	001)	Order No.
	Standard (CR seal)	9529160000
	Standard (silicone seal)*	1937900000
unpainted		
	Standard (CR seal)	0342200000
	Standard (silicone seal)*	1939600000
	The colours of painted enclosures may vary under certain circumstances. Exple on request. *Delivery time on request	c-enclosures are availa-

Accessories

Terminal rail, Set	Order No.
15 mm width	1910030000
Mounting plate	
Steel sheet, zinc plated	1898210000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000



Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x22
	4 mm ²	*	
	6 mm ²		
	10 mm ²		
16	16 mm ²		

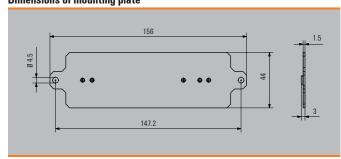
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about po-pulating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	6	1
	M16	5	1
	M20	4	
	M25		
	M32		
() () () () ()	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications, available ex-works. Note

Weidmüller ₹ C.103 2712630000

Klippon® K 31 Depth 57 mm



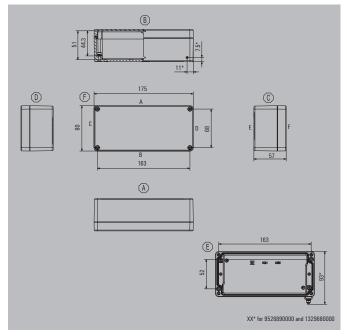
•	,

Ordering data	
Height / Width / Depth	80 / 175 / 57 mm

ordorning de		
powder-coate	d (RAL 7001)	Order No.
	Standard (CR seal)	9529170000
	Standard (silicone seal)*	1937820000
unpainted		
	Standard (CR seal)	0573500000
	Standard (silicone seal)*	1939610000
Note	The colours of painted enclosures may vary under certain circumstances. Ex	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
15 mm width	1910040000
Mounting plate	
Steel sheet, zinc plated	3073040000
Hinge, diecast zinc, Set	
	1580360000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

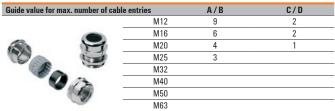


Guide value for max. number of terminals (industry)

dulate value for max. number of terminals (maustry)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x23
	4 mm ²	*	1x19
	6 mm ²		
	10 mm ²		
16	16 mm ²		

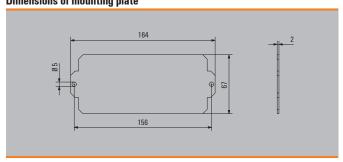
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about po-pulating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries



Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🐔 C.104 2712630000 Klippon® K 32 Depth 55 mm



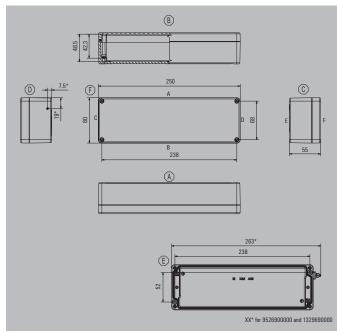
Height / Width / Depth 80 / 250 / 55 mm

Ordering data

powder-coated (I	RAL 7001)	Order No.
	Standard (CR seal)	9529180000
	Standard (silicone seal)*	1937810000
unpainted		
	Standard (CR seal)	1565260000
	Standard (silicone seal)*	1939620000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Mounting plate	Order No.
Steel sheet, zinc plated	3073050000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

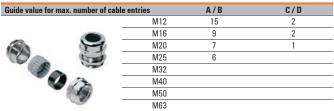


Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x38
	4 mm ²	*	1x32
	6 mm ²		
	10 mm ²		
16	16 mm ²		

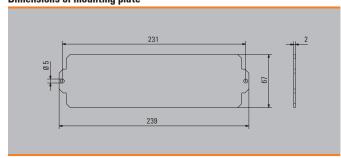
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about po-pulating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries



Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Helicoil for outdoor applications, available ex-works. Note

Weidmüller ₹ C.105 2712630000

Klippon® K 4 Depth 72 mm



	4	

Height / Width / Depth	82 / 130 / 72 mm

Ordering data

powder-coated	I (RAL 7001)	Order No.
	Standard (CR seal)	9529190000
	Standard (silicone seal)*	1937890000
unpainted		
	Standard (CR seal)	0342300000
	Standard (silicone seal)*	1939630000
Note	The colours of painted enclosures may vary under certain circumstances. Ex	enclosures are availa-

Accessories

Order No.
1910060000
3073060000
1580360000
9009160000
1277250000
1283430000
1277220000
1283440000
1868550000
1868570000

0 (A) E XX* for 9526910000 and 1329700000

Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	1x5	*
	4 mm ²	1x4	*
	6 mm ²	1x3	
	10 mm ²	1x2	
	16 mm ²	-	

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Ordering recommendations:

TS 35 mounting rail (screw-type terminals) WDU 2.5 1020000000 / (tension clamp terminals)

ZDU 2.5 10808510000

*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or

the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for horizontal installations.

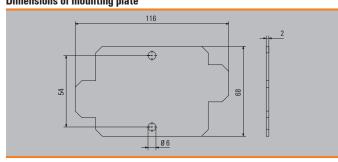
There are no pre-defined mounting points set within this enclosure for installing internal equipment in a horizontal position.

Guide value for max. number of cable entries

Guide value for max. number of cable	e entries	A/B	
	M12	5	
	M16	3	
	M20	2	
	M25	2	
	M32		
(2) (A)	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Sets also contain the mounting material, if necessary. 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 C.106 2712630000 Klippon® K 41 Depth 81 mm



	2	

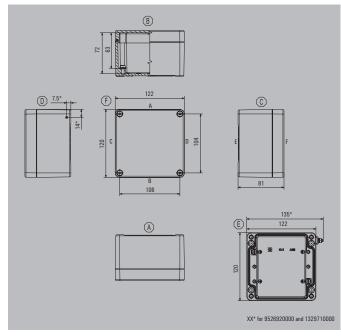
Height / Width / Depth	120 / 122 / 81 mm

Ordering data

powder-coated (RAL 7001)	Order No.
	Standard (CR seal)	9529200000
	Standard (silicone seal)*	1937800000
unpainted		
	Standard (CR seal)	1565270000
	Standard (silicone seal)*	1939640000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910070000
Mounting plate	
Steel sheet, zinc plated	3073070000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9527590000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

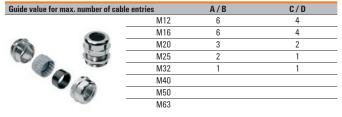


Guide value for max. number of terminals (industry)

aldo valdo foi iliax. Ilaliib	or or communato	(madoti y /	
ssembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x13
	4 mm ²	*	1x11
	6 mm ²		1x8
	10 mm ²		1x6
16	16 mm ²		

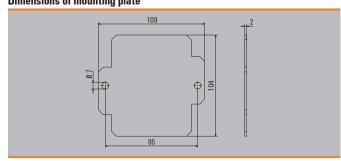
*Please refer to the Terminal Block Catalogue or the SAK Series for more information about populating the enclosures with terminal blocks. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries



Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Klippon® K 5 Depth 90 mm





Height / Width / Depth	130 / 170 / 90 mm

Ordering data

powder-coated ((RAL 7001)	Order No.
	Standard (CR seal)	9529210000
	Standard (silicone seal)*	1937860000
unpainted		
	Standard (CR seal)	0342400000
	Standard (silicone seal)*	1939650000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910080000
Mounting plate	
Steel sheet, zinc plated	3073080000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9529080000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

B 0 0 130 150 \bigcirc XX* for 9526930000 and 1329720000

Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x20
The state of the s	4 mm ²	*	1x17
	6 mm ²		1x12
	10 mm ²		1x10
16	16 mm ²		1x8
	6 mm ²	*	1x12 1x10

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

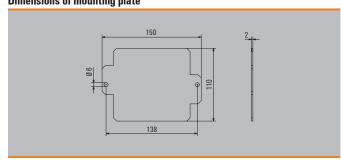
*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Guide value for max. number of cable entries		A/B	C/D
	M12	11	4
	M16	8	2
	M20	4	1
OG	M25	3	1
	M32	2	1
	M40		
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 C.108 2712630000 Klippon® K 51 Depth 81 mm



		D 7.5°	E A B 204	D 01	233* 204	
t / Width / Depth	120 / 220 / 81 mm				XX* for 9526940000 and 1328130000	
ring data		Guide value for ma	x. number of terminals (ir	ndustry)		

Height /

Ordering data

powder-coated ((RAL 7001)	Order No.
	Standard (CR seal)	9529220000
	Standard (silicone seal)*	1937750000
unpainted		
	Standard (CR seal)	1565280000
	Standard (silicone seal)*	1939660000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910090000
Mounting plate	
Steel sheet, zinc plated	3073090000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9527590000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

A

raido valdo foi max. numbor of torminalo (madoti y)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x31
	4 mm ²	*	1x26
	6 mm ²		1x19
7.	10 mm ²		1x16
16	16 mm ²		

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

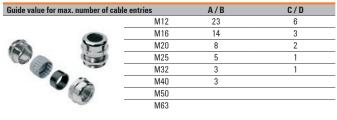
Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

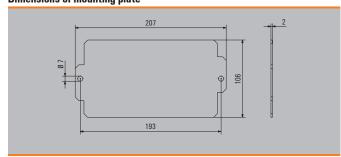
*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries



Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Klippon® K 52 Depth 91 mm





Height / Width / Depth	160 / 160 / 91 mm

Ordering data

powder-coate	d (RAL 7001)	Order No.
	Standard (CR seal)	9529230000
	Standard (silicone seal)*	1937740000
unpainted		
	Standard (CR seal)	1565290000
	Standard (silicone seal)*	1939670000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910100000
Mounting plate	
Steel sheet, zinc plated	3073100000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9527590000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000

 $^{\scriptsize{\textbf{B}}}$ 0 + F (C) 160 D € \bigcirc XX* for 9526950000 and 1329730000

Guide value for max. number of terminals (industry)

Suido valdo foi max. numbor of communo (madoti y)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x16
	4 mm ²	*	1x13
	6 mm ²		1x10
	10 mm ²		1x8
16	16 mm ²		1x6

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

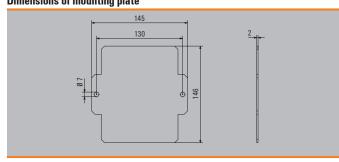
*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Guide value for max. number of cabl	le entries	A/B	C/D
	M12	14	8
	M16	8	5
	M20	5	3
	M25	3	2
	M32	2	1
() () ()	M40	1	
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 1 hinge per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 2712630000 Klippon® K 6 Depth 100 mm



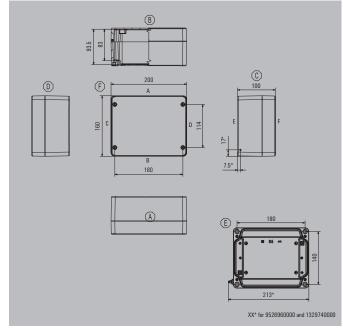
Height / Width / Depth	160 / 200 / 100 mm

Ordering data

powder-coated (F	RAL 7001)	Order No.
	Standard (CR seal)	9529240000
	Standard (silicone seal)*	1937870000
unpainted		
	Standard (CR seal)	0342500000
	Standard (silicone seal)*	1939690000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910110000
Mounting plate	
Steel sheet, zinc plated	3073110000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9529080000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000



Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x25
	4 mm ²	*	1x21
	6 mm ²		1x16
	10 mm ²		1x12
	16 mm ²		1x10

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

"For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations.

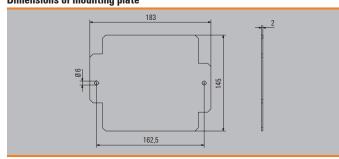
There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Guide value for max. number of cabl	e entries	A/B	C/D
	M12	17	6
	M16	12	6
	M20	7	3
	M25	4	2
	M32	3	2
	M40	2	1
	M50		
	M63		

Note Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Note The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications, available ex-works.

Klippon® K 61 Depth 91 mm



9	
2	

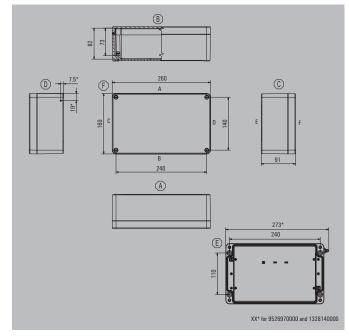
Height / Width / Depth	160 / 260 / 91 mm

Ordering data

powder-coate	d (RAL 7001)	Order No.
	Standard (CR seal)	9529250000
	Standard (silicone seal)*	1937730000
unpainted		
	Standard (CR seal)	0573600000
	Standard (silicone seal)*	1939700000
Note	Note The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are available on request. **Nelivery time on request.	

Accessories

Terminal rail, Set	Order No.
35 mm width	1910120000
Mounting plate	
Steel sheet, zinc plated	3073120000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9527590000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000



Guide value for max, number of terminals (industry)

saido valdo foi max. nambol of communo (madoci y)				
Assembly with terminal		vertical	horizontal	
Total Control	2.5 mm ²	*	1x39	
	4 mm ²	*	1x33	
	6 mm ²		1x24	
1.	10 mm ²		1x20	
16	16 mm ²		1x16	

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

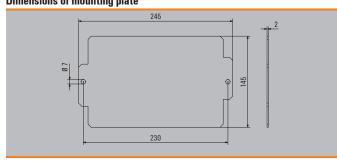
*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Guide value for max. number of cabl	e entries	A/B	C/D
	M12	27	8
	M16	23	6
	M20	13	3
	M25	8	2
	M32	4	1
	M40	3	1
	M50		
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 2712630000 Klippon® K 7 Depth 100 mm



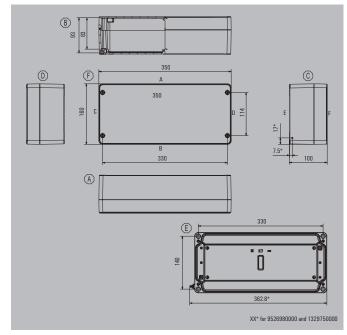
Height / Width / Depth	160 / 350 / 100 mm

Ordering data

powder-coated	i (RAL 7001)	Order No.
	Standard (CR seal)	9529260000
	Standard (silicone seal)*	1937880000
unpainted		
	Standard (CR seal)	0342600000
	Standard (silicone seal)*	1939710000
Note The colours of painted enclosures may vary under certain circumstances. Ex-enclosures are avail		enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910130000
Mounting plate	
Steel sheet, zinc plated	3073130000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9529080000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x55
	4 mm ²	*	1x46
	6 mm ²		1x34
	10 mm ²		1x28
	16 mm ²		1x23

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

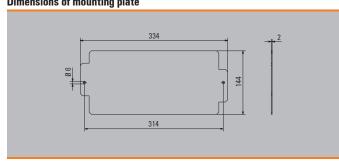
*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position. Note

Guide value for max. number of cable entries

Guide value for max. number of cabl	e entries	A/B	C/D
	M12	42	8
	M16	26	6
	M20	17	3
	M25	10	2
	M32	6	2
() () ()	M40	5	1
	M50		
	M63		

Note Our IP68 brass cable glands are used as the reference for these guideline values.	
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Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Klippon® K 71 Depth 111 mm





Ordering data

powder-coated (RAL 7001)	Order No.
	Standard (CR seal)	9529270000
	Standard (silicone seal)*	1937720000
unpainted		
	Standard (CR seal)	0573700000
	Standard (silicone seal)*	1939730000
Note	The colours of painted enclosures may vary under certain circumstances. Ex ble on request. *Delivery time on request	enclosures are availa-

Accessories

Terminal rail, Set	Order No.
35 mm width	1910140000
Mounting plate	
Steel sheet, zinc plated	3073140000
Hinge, diecast zinc, Set	
	1580360000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9527590000
Torx®screw driver	
not insulated, Torx® TH20	9009160000
Earthing stud	
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Pressure compensation elements	
Stainless steel 1.4305, M12	1868550000
Polyamide 6, M12	1868570000
1 diyannuc o, ivi 12	1000370000

B (D) _-230 210 260 \bigcirc 292.4* 260 E 180 XX* for 9526990000 and 1329770000

Guide value for max. number of terminals (industry)

salao talao loi iliaxi ilaliib	or or communate	(maaoti //	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	2x43
	4 mm ²	*	2x36
	6 mm ²		2x26
10	10 mm ²		2x21
16	16 mm ²		2x17

Note

The mounting rails are designed to be installed directly.

Assembly with terminals provides for 10 mm clearance to the ends of the mounting rail.

Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology

Ordering information for the terminal blocks, please refer to the online catalogue.

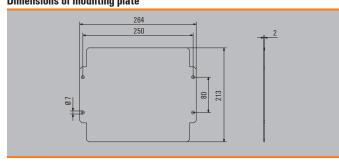
*For fitting the enclosures with terminal blocks, please refer to the Terminal block catalogue or the SAK series. We recommend BK 6 or BK 6 CRN (0625220000) for vertical installations. There are no specified mounting options available for mounting the enclosure in a vertical position. There are no pre-defined mounting points set within this enclosure for installing internal equipment in a vertical position.

Guide value for max. number of cable entries

Guide value for max. number of cabl	e entries	A/B	C/D
	M12	42	28
	M16	30	18
	M20	21	10
	M25	12	8
	M32	10	3
() () () () ()	M40	4	2
	M50	3	2
	M63		

Our IP68 brass cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



The accessory sets contain the necessary mounting materials. Necessary on use of 2 hinges per longitudinal side. Helicoil for outdoor applications, available ex-works. Note

Weidmüller 🏖 2712630000

Klippon® Protect – Terminal Boxes – **Product overview: Aluminium enclosure**

Use the product overview to find the right solution for you! Combine your own industrial version consisting of an enclosure, with or without threaded holes, a suitable mounting rail or pre-fitted terminal strips. The compatible components are always shown in a row.

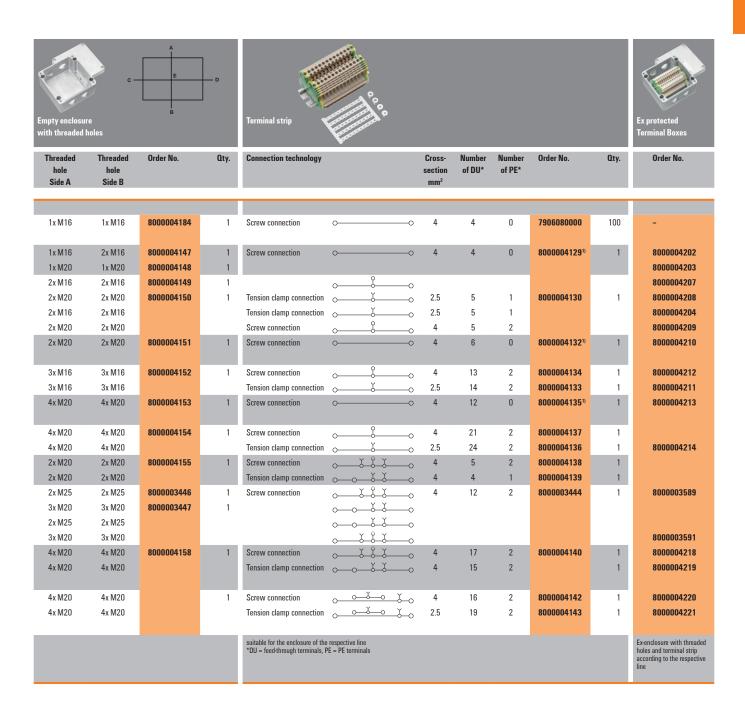
Klippon Protect enclosures with explosion protection for use in explosive risk zones are available on request.

Aluminium enclosure, uncoated

Automotiva de la companya de la comp		Empty enclosure		Mounting rail (TS) Mounting plate (MOPL)		F.		
Dimensions of the enclosure height x width x depth in mm	Enclosure type	Order No.	Qty.	Туре	Length in mm	Rail mounting slot dimensions in mm	Order No.	Qty.
Aluminium, uncoated								
64 x 58 x 34	Klippon® K01	1565240000	10	-	-	-	-	-
70 x 70 x 45	Klippon® K1	0342000000	10	TS15	60	4.5 x 20	1909980000	1
80 x 75 x 57	Klippon® K11	0573300000	10	TS15	64	4.5 x 20	1909990000	1
70 x 100 x 45	Klippon® K2	0342100000	10	TS15	90	4.5 x 20	1910010000	1
80 x 125 x 57	Klippon® K21	0573400000	5	TS15	114	4.5 x 20	1910020000	1
70 x 165 x 45	Klippon® K3	0342200000	5	TS15 MOPL	155 154	4.5 x 20 4.2 x 14	1910030000 8000004497	1 1
80 x 175 x 57	Klippon® K31	0573500000	5	TS15	164	4.5 x 20	1910040000	1
82 x 130 x 72	Klippon® K4	0342300000	1	TS35	64	5.5 x 20	1910060000	1
120 x 122 x 81	Klippon® K41	1565270000	1	TS35	105	6.3 x 20	1910070000	1
130 x 170 x 90	Klippon® K5	0342400000	1	TS35	148	5.5 x 20	1910080000	1
160 x 160 x 91	Klippon® K52	1565290000	1	TS35	140	6.3 x 20	1910100000	1
		protection class IP 66		suitable for the enclosures of the	e respective line			

 $^{^{11}}$ Multi-pole terminal strip (terminal block BK 4, BK 6 or BK 12), mounted on mounting plate 21 Space for further threaded holes up to M40 $^{\circ}$

Weidmüller 🐔 2712630000



C

Safely control work processes in harsh environments on siteWith certified enclosure solutions with control and display elements

Harsh industrial environments, such as those in the water treatment industry, place extreme demands on the safety, robustness and quality of products and devices.

We meet these challenges with the Klippon® Control Station, the addition to our range of customised enclosure solutions. More than 50 years of expertise have made us market leader in this area with global competence centres. The basis of our enclosure solutions is provided by the usual Weidmüller quality and comprehensive approvals for explosion hazard areas. Based on this, our sturdy "on-site control station" is available in two standard sizes and with up to four control and display elements and provides a flexible solution to meet your specific needs.

Order your distributor enclosure as well as control and signaling units from a single source and from one enclosure design – for reliable security and reduced storage costs for maintenance and repair operations.

Your special advantages: Ideal for urgent service calls

We have prepared modules of the proven Klippon® enclosure series K available for you for further processing. This means we manufacture a control solution suitable for your application at short notice.



Predestined for emergency shutdown applications: Klippon® Control Stations score when it comes to the safe shutdown of plant sections, such as in the process industry

8 Weidmüller ₹ 2712630000

Project solutions from a single source

Obtain command/signaling units and distribution and control boxes as a complete solution – tailored to the individual requirements of your projects in hazardous areas.







International certificates

The Klippon® Control Station is tested and certified among others according to ATEX and IECEx.





Customised assembly

In addition to standard types from stock, you can obtain enclosure solutions from us that are completely assembled and equipped according to customer requirements.







A variety of sizes and materials

Enclosures in stainless steel, aluminium or polyester are available for different environmental conditions. Depending on the size of the enclosure, it provides space for the integration of up to four control and display elements.



Reliable stability for all applications

Klippon® Protect - convincing with impact-resistant aluminium enclosures

Aluminium enclosures (Klippon® K) can be used with a wide range of applications and are ideally suited for the assembly of terminal blocks, switches, power supplies, operating and display elements or electronic modules. Available in aluminium alloy and powder coated RAL 7001. The mounting holes are located outside the sealing area, while a corresponding thread enables mounting rails and mounting plates to be affixed.

Additional features:

- Standardised enclosure with integrated threaded holes
- Cover attachment with corrosion-resistant Torx slothead screws
- Fastening by means of mounting feet or internal mounting holes
- Splice-free seals for optimum ingress protection up to IP 66







Technical data

Mate	rial
Surfa	ce finish
Colou	ır
IP pro	otection class
Ambi	ent temperature
Seal	material of enclosure
Seal	material of command and signalling units
Flamı	mability rating
Impa	ct resistance IK

Cable gland material
Cable gland clamping area
min max. in mm
M20
M25
Max. rated cross-section
Max. operating voltage
with integrated illuminated pushbutton or light modu
Maximum operating current at 40 °C ambient
temperature
1.5 mm ² - T6
1.5 mm ² - T5
2.5 mm ² - T6
Maximum operating current at 55 °C ambient
temperature
1.5 mm ² – T4
1.5 mm ² - T5
2.5 mm ² - T5
Temperature class
Type of mounting
Earthing inside
Lid attachment
Lid screw torque
Earthing torque
Earthing outside

M	ar	ki	ng

Mounting feet

Approvals

Aluminium

Aluminium	alloy	(AL-Si12
-----------	-------	----------

Powder-coated	
RAL 7001	
IP 54; IP 66	
-55 °C to 55 °C	
Silicone (VMQ)	
EPDM	

7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module

Nickel-plated brass

Nickel-plated brass
3-12 mm
10-18 mm
2.5 mm ²
400 V
250 V
10 A
16 A
16 A
10 A
16 A
10 A
16 A
T4, T5, T6
Wall mounting
Earth terminal
Torx® 20 slothead screws
2.5 Nm
2.5 Nm
M4 earthing studs, stainless steel
IECEXITA14.0013X
TUEV14ATEX7606X MARITREG 15.40082.250
2G Ex e d IIC T* Gh
2G Ex ib d fial IIC T* Gb
2D Ex tb IIIC T80/100 °C Db
9527590000

Weidmüller ₹2 2712630000



	Number of built-in components						Emergency stop pushbutton	Key switch	Pushb	utton	Illumina pushbut		Light r	module	Dimensions			
	•	•	• • •	•	red	II - 0 - II	red	green	red	green	red	green	with built-in components HxWxD in mm	Designation	Cable gland	Order number		
	•				1								149x120x119	KLIPPON CS K41-1	VG M20	1537470000		
	•						1						149x120x94	KLIPPON CS K41-1	VG M20	1537480000		
	•					1							149x120x108	KLIPPON CS K41-1	VG M20	1537490000		
	•									1			149x120x96	KLIPPON CS K41-1	VG M20	1537500000		
		•					1	1					152x120x119	KLIPPON CS K41-4	VG M25	1537510000		
Aluminium		•						1				1	152x120x103	KLIPPON CS K41-4	VG M25	1537520000		
		•			1						1		152x120x119	KLIPPON CS K41-4	VG M25	1537530000		
			•				1	1			1		250x120x103	KLIPPON CS K51-2	VG M25	1537540000		
			•				1	2					250x120x94	KLIPPON CS K51-2	VG M25	1537550000		
			•		1		1	1					250x120x119	KLIPPON CS K51-2	VG M25	1537570000		
				•			1	1			1	1	250x120x103	KLIPPON CS K51-4	VG M25	1537580000		

Klippon® CS K41-1



Klippon® CS K41-1



Technical data

Enclosure		
Dimensions with installation (HxBxD)	149 / 120 / 119 mm	149 / 120 / 94 mm
Material	Aluminium AlSi12	Aluminium AlSi12
General characteristics		
Surface finish / Colour	Powder-coated / Silver grey	Powder-coated / Silver grey
Protection class	IP54, IP66	IP54, IP66
Ambient temperature	-55 °C+55 °C	55 °C+55 °C
mpact resistance	7 joules in acc. with IEC 60079-0	7 joules in acc. with IEC 60079-0
Enclosure seal material	Silicone (VMQ)	Silicone (VMQ)
Seal material of operating and display elements	EPDM	EPDM
Гуре of mounting	Wall mounting	Wall mounting
nternal earth	Earth terminal	Earth terminal
External earth	M4 earthing studs, stainless steel	M4 earthing studs, stainless steel
id attachment	Torx®-20 slothead screws	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm	2.5 Nm
Earth stud torque	2.5 Nm	2.5 Nm
Electrical properties*		
Wire connection cross section, finely stranded, max.	2.5 mm ²	2.5 mm ²
Operating voltage, max.	400 V	400 V
Temperature class	T4, T5, T6	T4, T5, T6
Enclosure assembly		
Position in enclosure	EMERGENCY-STOP pushbutton with yellow, contrasting label	Pushbutton - green
2 Position in enclosure		
3 Position in enclosure		
4 Position in enclosure		
Contact design	2 NC contact, positive opening contacts	1 NC contact, 1 NO contacts
Actuators	EMERGENCY STOP pushbutton	Pushbutton
-total to to	ZINZIIOZIIO OTOI puolibuttoii	, dolibation
Actuator colour	red	green
Illumination module colour		
lluminated button actuator colour		
Cable entries		
Orill holes side B	1 x M20	1 x M20
Cable gland	1460050000 - VG M20 EXE MS	1460050000 - VG M20 EXE MS
Clamping range min. / max.	3 mm / 12 mm	3 mm / 12 mm
Approval and Marking	· · · · · · · · · · · · · · · · · · ·	V.IIII./ 12.IIIII
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.BE02.B.00173	RUC-DE.TB08.B.01838
Certificate No. (MARITREG)	15.40082.250	15.40082.250
Marking	II 2 G Ex d e IIC T* Gh	II 2 G Ex d e IIC T* Gb
vidining	II 2 D Ex th IIIC T*°C Db	II 2 D Ex tb IIIC T*°C Db
Accessories		
	9527590000 - KLIPPON K MF KIT 25	9527590000 - KLIPPON K MF KIT 25

Note

Ordering data

Туре	Qty.	Order No.
KLIPPON CS K41-1	1	1537470000

Type	CLLY.	Oluci ivo.
KLIPPON CS K41-1	1	1537480000

Note

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS K41-1

Klippon® CS K41-1



Klippon® CS K41-4

152 / 120 / 119 mm Aluminium AlSi12



140 /100 /100
149 / 120 / 108 mm
Aluminium AlSi12
2 1 120
Powder-coated / Silver grey
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Key-operated switch
1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - O - II, (I + II), latching,
Key retractable
1 1100
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm

IEC 60079-0, IEC 60079-7, IEC 60079-31

9527590000 - KLIPPON K MF KIT 25

IECEXITA14.0013X TUEV14ATEX7606X RUC-DE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db

149 / 120 / 96 mm
Aluminium AlSi12
Powder-coated / Silver grey
IP54, IP66
-55 °C+55 °C
4 joules in acc. with IEC 60079-0
Silicone (VMQ)
EPDM
Wall mounting
Earth terminal
M4 earthing studs, stainless steel
Torx®-20 slothead screws
2.5 Nm
2.5 Nm
Z.5 IVIII
2.5 mm ²
250 V
T4, T5, T6
14, 15, 10
Illuminated pushbutton, green
Illuminated pushbutton - green
2 NO contacts
Pushbutton
green
green
1 x M20
1460050000 - VG M20 EXE MS
3 mm / 12 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db
9527590000 - KLIPPON K MF KIT 25

Powder-coated / Silv	er grey
IP54, IP66	
-55 °C+55 °C	
7 joules in acc. with	IEC 60079-0
Silicone (VMQ)	
EPDM	
Wall mounting	
Earth terminal	
M4 earthing studs, s	tainless steel
Torx®-20 slothead s	crews
2.5 Nm	
2.5 Nm	
2.5 mm ²	
400 V	
T4, T5, T6	
Pushbutton - red	
Pushbutton - green	
2 NC contact, 2 NO c	contacts
Pushbutton	
red, green	
1 x M25	
1460070000 - VG M	125 EXE MS
10 mm / 18 mm	
IEC 60079-0, IEC 600	079-7, IEC 60079-31
IECEXITA14.0013X	
TUEV14ATEX7606X	
RUC-DE.BE02.B.001	73
15.40082.250	
II 2 G Ex d e IIC T* GI	b
II 2 D Ex tb IIIC T*°C	
9527590000 - KLIPF	PON K MF KIT 25

Туре	Qty.	Order No.
KLIPPON CS K41-1	1	1537490000

Туре	Qty.	Order No.
KLIPPON CS K41-1	1	1537500000

Qty.	Order No.
1	1537510000
	uty. 1

 $\mbox{\ensuremath{\,^{\circ}}}\mbox{Other}$ temperature classes and connection values on request, or see "Notice to Installer".

 $\ensuremath{^{\star}}\xspace$ Other temperature classes and connection values on request, or see "Notice to Installer".

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS K41-4



Klippon® CS K41-4



Technical data

Enclosure			
Dimensions with installation (HxBxD)	152 / 120 / 103 mm	152 / 120 / 119 mm	
Material	Aluminium AlSi12	Aluminium AlSi12	
General characteristics			
Surface finish / Colour	Powder-coated / Silver grey	Powder-coated / Silver grey	
Protection class	IP54, IP66	IP54, IP66	
Ambient temperature	-55 °C+55 °C		
Impact resistance	4 joules in acc. with IEC 60079-0	4 joules in acc. with IEC 60079-0	
Enclosure seal material	Silicone (VMQ)	Silicone (VMQ)	
Seal material of operating and display elements	EPDM	EPDM	
Type of mounting	Wall mounting	Wall mounting	
Internal earth	Earth terminal	Earth terminal	
External earth	M4 earthing studs, stainless steel	M4 earthing studs, stainless steel	
Lid attachment	Torx®-20 slothead screws	Torx®-20 slothead screws	
Torque for lid screws	2.5 Nm	2.5 Nm	
Earth stud torque	2.5 Nm	2.5 Nm	
Electrical properties*			
Wire connection cross section, finely stranded, max.	2.5 mm ²	2.5 mm ²	
Operating voltage, max.	250 V	250 V	
Temperature class	T4, T5, T6	T4, T5, T6	
Enclosure assembly			
1 Position in enclosure	Light module - green	Light module - red	
2 Position in enclosure	Pushbutton - green	EMERGENCY-STOP pushbutton with yellow, contrasting	
3 Position in enclosure			
4 Position in enclosure			
Contact design	1 NC contact, 1 NO contacts	2 NC contact, positive opening contacts	
Actuators	Pushbutton	EMERGENCY STOP pushbutton	
Total Color			
Actuator colour	green	red	
Illumination module colour	green		
Illuminated button actuator colour	3		
Cable entries			
Drill holes side B	1 x M25	1 x M25	
Cable gland	1460070000 - VG M25 EXE MS	1460070000 - VG M25 EXE MS	
Clamping range min. / max.	10 mm / 18 mm	10 mm / 18 mm	
Approval and Marking	10 111111 / 10 111111	10 11111 / 10 111111	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31	
Certificate No. (IECEX)	IECEXITA14.0013X	IECE 00073-0, IEC 00073-7, IEC 00073-31	
Certificate No. (IECEX)	TUEV14ATEX7606X	TUEV14ATEX7606X	
Certificate No. (EAC)	RUC-DE.BE02.B.00173	RUC-DE.BE02.B.00173	
• •	15.40082.250	15.40082.250	
Certificate No. (MARITREG)	15.40082.250 II 2 G Ex d e IIC T* Gb	15.40082.250 II 2 G Ex d e IIC T* Gb	
Marking	II 2 D Ex to IIIC T* GD	II 2 G EX a e IIC 1 ^ GD II 2 D Ex tb IIIC T*°C Db	
	II Z D EX (D IIIC I G DD	II Z D EX ID IIIG I G DD	
Accessories			
Mounting feet	9527590000 - KLIPPON K MF KIT 25	9527590000 - KLIPPON K MF KIT 25	
Mounting feet	9527590000 - KLIPPON K MF KIT 25	9527590000 - KLIPPON K MF KIT 25	
Note			

Note

Ordering data

Туре	Qty.	Order No.
KLIPPON CS K41-4	1	1537520000

emperature classes and connection values on request, or see "Notice	*Other temperature classes and connection values on request, or see "Notice
ler".	to Installer".

Type KLIPPON CS K41-4

Weidmüller 🛣

Order No. 1537530000

Klippon® CS K51-2

Klippon® CS K51-2

Klippon® CS K51-2







250 / 120 / 103 mm	250 / 120 / 94 mm	250 / 120 / 119 mm
Aluminium AlSi12	Aluminium AlSi12	Aluminium AlSi12
Aldillillidill AlSi12	Aldilillidili AlSiTZ	Alulilillulli Al3112
Powder-coated / Silver grey	Powder-coated / Silver grey	Powder-coated / Silver grey
IP54, IP66	IP54, IP66	IP54, IP66
-55 °C+55 °C	-55 °C+55 °C	-55 °C+55 °C
4 joules in acc. with IEC 60079-0	7 joules in acc. with IEC 60079-0	7 joules in acc. with IEC 60079-0
Silicone (VMQ)	Silicone (VMQ)	Silicone (VMQ)
EPDM	EPDM	EPDM
Wall mounting	Wall mounting	Wall mounting
Earth terminal	Earth terminal	Earth terminal
M4 earthing studs, stainless steel	M4 earthing studs, stainless steel	M4 earthing studs, stainless steel
Torx®-20 slothead screws	Torx®-20 slothead screws	Torx®-20 slothead screws
2.5 Nm	2.5 Nm	2.5 Nm
2.5 Nm	2.5 Nm	2.5 Nm
2.5 mm ²	2.5 mm ²	2.5 mm ²
250 V	400 V	400 V
T4, T5, T6	T4, T5, T6	T4, T5, T6
· ·		
Pushbutton - red	Pushbutton - green	Pushbutton - green
Light module - green	Pushbutton - red	Pushbutton - red
Pushbutton - green	Pushbutton - green	EMERGENCY-STOP pushbutton with yellow, contrasting label
2 NC contact, 2 NO contacts	3 NC contact, 3 NO contacts	2 NO contacts, 2 NC contact, positive opening contacts
Pushbutton	Pushbutton	Pushbutton, EMERGENCY STOP pushbutton
red, green	green, red	green, red
green	<u>groom, rou</u>	groot, rod
9.00.1		
1 x M25	1 x M25	1 x M25
1460070000 - VG M25 EXE MS	1460070000 - VG M25 EXE MS	1460070000 - VG M25 EXE MS
10 mm / 18 mm	10 mm / 18 mm	10 mm / 18 mm
10 11111 / 10 11111	TO HILLY TO HILL	TO IIIII / TO IIIII
IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X	IECEXITA14.0013X	IECEXITA14.0013X
TUEV14ATEX7606X	TUEV14ATEX7606X	TUEV14ATEX7606X
RUC-DE.BE02.B.00173	RUC-DE.BE02.B.00173	RUC-DE.TB08.B.01838
15.40082.250	15.40082.250	15.40082.250
II 2 G Ex d e IIC T* Gb	II 2 G Ex d e IIC T* Gb	II 2 G Ex d e IIC T* Gb
II 2 D Ex th IIIC T*°C Dh	II 2 D Ex tb IIIC T*°C Db	II 2 D Ex tb IIIC T*°C Db

Туре	Qty.	Order No.
KLIPPON CS K51-2	1	1537540000

9527590000 - KLIPPON K MF KIT 25

Order No. 1537550000 Type KLIPPON CS K51-2

9527590000 - KLIPPON K MF KIT 25

. 014	er No.
153	7570000
1	1 153

9527590000 - KLIPPON K MF KIT 25

 $\mbox{\ensuremath{^{\circ}}}\mbox{Other}$ temperature classes and connection values on request, or see "Notice to Installer".

*Other temperature classes and connection values on request, or see "Notice to Installer".

*Other temperature classes and connection values on request, or see "Notice to Installer".

C

Klippon® CS K51-4



Technical data

lechnical data	
Enclosure	
Dimensions with installation (HxBxD)	250 / 120 / 103 mm
Material	Aluminium AlSi12
General characteristics	
Surface finish / Colour	Powder-coated / Silver grey
Protection class	IP54, IP66
Ambient temperature	-55 °C+55 °C
Impact resistance	4 joules in acc. with IEC 60079-0
Enclosure seal material	Silicone (VMQ)
Seal material of operating and display elements	EPDM
Type of mounting	Wall mounting
Internal earth	Earth terminal
External earth	M4 earthing studs, stainless steel
Lid attachment	Torx®-20 slothead screws
Torque for lid screws	2.5 Nm
Earth stud torque	2.5 Nm
Electrical properties*	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	250 V
Temperature class	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - red
2 Position in enclosure	Pushbutton - red
3 Position in enclosure	Light module - green
4 Position in enclosure	Pushbutton - green
Contact design	2 NC contact, 2 NO contacts
Actuators	Pushbutton
Actuator colour	green, red
Illumination module colour	red, green
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	1460070000 - VG M25 EXE MS
Clamping range min. / max.	10 mm / 18 mm
Approval and Marking	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.BE02.B.00173
Certificate No. (MARITREG)	15.40082.250
Marking	II 2 G Ex d e IIC T* Gb
	II 2 D Ex tb IIIC T*°C Db
Accessories	
Mounting feet	9527590000 - KLIPPON K MF KIT 25
Note	

Ordering data

iornig data			
	Туре	Qty.	Order No.
	KLIPPON CS K51-4	1	1537580000

lote	*Other temperature classes and connection values on request, or see "Notice to Installer".
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C.126 Weidmüller ₹ 2712630000

Klippon® POK – Polyester Enclosures

Universal terminal boxes for standard industrial applications and for potentially explosive atmospheres in Zones 1 and 2, 21 and 22

The Klippon® POK enclosure range is made from a high-quality glass fibre reinforced polyester and is ideal for applications and environments where corrosion resistance, impact resistance and a high IP protection class is a requirement.

Key Features:

- · Manufactured from glass fibre reinforced polyester
- Available in 17 sizes
- Two standard finishes (colours) Grey, similar to RAL 7001 (industrial use) Black, similar to RAL 9011 (harsh environments, Ex)
- · Captive lid fixing screws are stainless steel
- Fixing holes are located outside of the lid sealing area to ensure high ingress protection of IP66
- Threaded holes for internal component mounting
- Silicone sealing for extreme temperature environments
- Impact resistance up to 7 Joules
- Approved to the latest international standards, including EN 62208 and IEC EN 60079

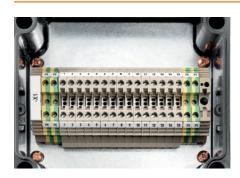
Cross-head screws

The enclosure lid is secured with stainless steel captive cross-head screws. Handling the enclosure is made simple. A single tool is the only requirement for quick and easy installation.



Mounting plates

Internal mounting plates for the installation of terminal rails, terminal blocks or other equipment are available.

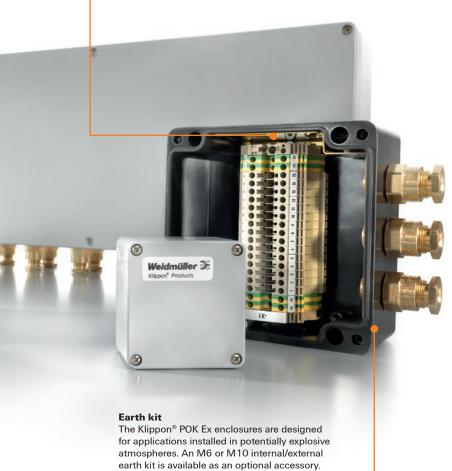




Brass Earth Continuity Plate

An angled design made to complement the Klippon® POK enclosures installed in potentially explosive atmospheres. The brass earth continuity plate is available as an optional accessory.







2712630000

Other Colour

Grey, similar to RAL7001 Black, simillar to RAL 9011 Other colours are available on request (subject to a minimum order quantity).



Enclosure wall fixing (direct or via mounting lugs)

The fixing positions of each enclosure are located outside of the sealing area. The enclosure can be fastened directly via fixing holes found on the rear side of the enclosure or alternatively, it is possible to secure the enclosure from the outside by means of mounting lugs that are separately available.



Closed moulded sealing

Robust and secure sealing increases the performance of each enclosure with enhanced ingress protection.

The Klippon® POK enclosures are supplied as standard with a removable and replaceable moulded gasket. Available in either silicone or chloroprene material and depending upon the enclosure type they are adapted to the contour of each enclosure to ensure ingress performance is maintained.



Klippon® POK – Polyester enclosures

The Klippon® POK range of polyester enclosures are designed to protect and integrate with general purpose electrical and electronic equipment as well as control components in harsh environments or potentially explosive atmospheres.

Designed to meet the rigourous demands of industrial automation or process control and energy industries and with signal and component protection in mind, the Klippon POK enclosure range is designed to meet the customers' application needs.

Our customer specific assembly service can provide a fully customised enclosure solution, designed to meet the customer requirements.

Features:

- · For use in potentially explosive atmospheres and industrial applications
- · Extremely robust with a high impact resistance
- · Approved to the latest international standards
- M4 or M6 mounting elements integrated into enclosure body for installation of mounting plates, mounting rails, printed circuit boards etc.

Note: The enclosure range Klippon® POK can be assembled with terminals or other approved equipment by our locally available Application-Specific Solutions service. Please ask us for more details.



Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/KlipponPOK













Overview of enclosures

Ordering data

Description	Hight x width x depth	Standard	Ex Enclosures	Reference
	in mm	(grey finish)	(black finish)	product
Klippon® POK 080806	75 x 80 x 55	1305810000	1306000000	Klippon® POK 1
Klippon® POK 081106	75 x 110 x 56	1305820000	1306010000	Klippon® POK 2
Klippon® POK 081606	75 x 160 x 56	1305830000	1306020000	Klippon® POK 3
Klippon® POK 081906	75 x 190 x 55	1305840000	1306030000	Klippon® POK 31
Klippon® POK 082306	75 x 230 x 56	1305850000	1306040000	Klippon® POK 32
Klippon® POK 121209	120 x 122 x 90	1305870000	1306050000	Klippon® POK 4
Klippon® POK 122209	120 x 220 x 90	1305880000	1306070000	Klippon® POK 5
Klippon® POK 161609	160 x 160 x 90	1305890000	1306080000	Klippon® POK 51
Klippon® POK 162609	160 x 260 x 90	1305900000	1306090000	Klippon® POK 6
Klippon® POK 163609	160 x 360 x 90	1305910000	1306100000	Klippon® POK 7
Klippon® POK 165609	160 x 560 x 90	1305920000	1306110000	Klippon® POK 71
Klippon® POK 252512	250 x 255 x 120	1305930000	1306120000	Klippon® POK 8
Klippon® POK 252516	250 x 255 x 160.5	1305980000	1306170000	Klippon® POK 9
Klippon® POK 254012	250 x 400 x 120	1305940000	1306130000	Klippon® POK 91
Klippon® POK 254016	250 x 400 x 160.5	1305990000	1306180000	Klippon® POK 10
Klippon® POK 256012	250 x 600 x 120	1305950000	1306140000	Klippon® POK 11
Klippon® POK 404012	405 x 400 x 120	1305970000	1306150000	Klippon® POK 12
Hinweis				

Weidmüller 🏖 2712630000

Technical Overview

Technical data

	Ex	Standard
Enclosure material	Glass fibre-reinforced polyester to DIN 16913 with added graphite	Glass fibre-reinforced polyester to DIN 16913
Surface	Black, similar to RAL 9011	Grey, similar to RAL7001
IP Rating	IP 66 to DIN EN 60529	IP 66 to DIN EN 60529
NEMA Rating	4, 4x	4, 4x
Equipment mounting	M4 to M6 threaded bushes	M4 to M6 threaded bushes
Enclosure mounting	4 holes for M4 to M6 screw	4 holes for M4 to M6 screw
Lid fixing	M4/M6 slothead / crosshead screws from stainless steel	M4/M6 slothead / crosshead screws from stainless steel
Impact Resistance	7J to IEC 60029-0	IK08 (5J) to DIN EN 50102
Gasket material	Silicone (VMQ)	Chloroprene
Temperature range	-55 °C+100 °C	-40 °C+100 °C
Torque screws of lid M4	2.0 - 2.5 Nm	2.0 - 2.5 Nm
Torque screws of lid M6	2.5 - 3.0 Nm	2.5 - 3.0 Nm
Surface resistance (in ohms)	< 10° Ohm	10 ¹² Ohm
Flammability	UL 94 VO, self extinguishing	UL 94 VO, self extinguishing
Toxicity	Halogen and cadmium-free	Halogen and cadmium-free
Note		

Approvals for empty enclosures

Approvais for ellipty eliciosures			
	Ex	Standard	
ATEX certificate	IBExU13ATEX1003 U		
ATEX marking	© II 2G Ex e IIC Gb or © II 2G Ex eb IIC		
	II 2D Ex tb IIIC Db or □ II 2D Ex tb IIIC		
IECEx certificate	IECEx IBE 13.0003U		
IECEx marking	Ex e IIC Gb or Ex eb IIC		
	Ex tb IIIC Db or Ex tb IIIC		
EAC	RUC-DE.08.B.00472	RUC-DE.08.B.00472	
cULus	E 256877	E 256877	
Lloyd's Register	14/20001	14/20001	
Russian Maritime Register	19.00109.272		
DNV GL	TAE00002R2	TAE00002R2	
AEx	E223792		
Note			

Approvals terminal enclosures

ATEX certificate	IBExU13ATEX1004 X				
ATEX marking					
-	© 1G Ex ia C T6T5 Ga or				
	© II 2D Ex tb IIIC T 85 °C100 °C Db or © II 2D Ex tb IIIC T 85 °C				
IECEx certificate	IECEx IBE 13.0004X				
IECEx marking	Ex e IIC T6T5 Gb or Ex eb IIC T6T5				
	Ex ia IIC T6T5 Ga or Ex ia IIC T6T5				
	Ex e ia IIC T6T5 Gb or Ex eb ia IIC T6T5				
	Ex tb IIIC T 85 °C100 °C Db or Ex tb IIIC T 85 °C100 °C				
EAC certificate	RUC-DE.08.B.01328	AEx certificate	E223792		
EAC marking	II 2 G Ex eb IIC T6/T5	AEx marking	Class I, Zone 1, AEx e IIC Gb T6T4		
	II 2 G Ex e IIC T6/T5 Gb		Class I, Zone 2, AEx e IIC Gc T6T4		
	II 1 G Ex ia IIC T6/T5		Class I Div.2 Group A,B,C,D T6T4		
	II 1 G Ex ia IIC T6/T5 Ga		Class II Div.2 Group F,G		
	II 2(1) G Ex eb ia IIC T6/T5		Zone 21, AEx th IIIC Dh		
	II 2(1) G Ex e ia IIC T6/T5 Gb				
	II 2 D Ex tb IIIC T 85 °C100 °C				
	II 2 D Ex tb IIIC T 85 °C100 °C Db				
KOSHA certificate	16-AV4B0-246X				
KOSHA marking	Ex e IIC T6T5 Gb or Ex eb IIC T6T5				
	Ex ia IIC T6T5 Ga or Ex ia IIC T6T5				
	Ex e ia IIC T6T5 Gb or Ex eb ia IIC T6T5				
	Ex tb IIIC T 85 °C100 °C Db or Ex tb IIIC T 85 °C100 °C	Ex tb IIIC T 85 °C100 °C Db or Ex tb IIIC T 85 °C100 °C			
Note	If you have specific requirements for installations within potentially explosive atmospheres, please contact Weidmüller for a copy of the approval				
	certificates. For details of power dissipation, please contact your	Weidmüller representative.			

Klippon® POK 080806 Depth 55 mm





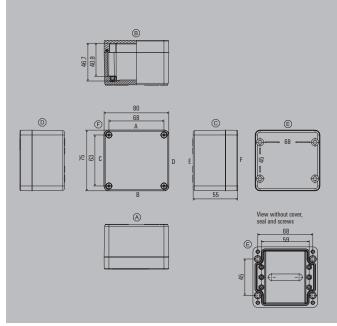
Height / Width / Depth	75 / 80 / 55 mm

Ordering data

RAL 7001			Order No.
		Standard	1305810000
RAL 9011			
		Ex enclosure	1306000000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510570000
Steel sheet, galvanized for applications with earthing plate	1534280000
Fastening screws for mounting plates	0642600000
Mounting rails, TS15x5	
Horizontally	8000003889
Brass Earth Continuity Plate	
Brass	1390910000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510900000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000



Guide value for max. number of terminals (industry)

Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x1*	1x5
	4 mm ²	1x1*	1x4
	6 mm ²		
13	10 mm ²		
	16 mm ²		

* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position. Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology
TS 32 mounting rail with clamping yoke technology SAK
TS 15 mounting rail with clamping yoke technology AKZ
Ordering information for the terminal blocks, please refer to the online catalogue. Note

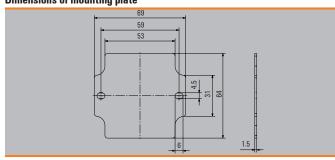
Guide value for max. number of cable entries



apı	e entries	A/B	C/D	
	M12	4	1	
	M16	2	1	
	M20	1	1	
	M25	1		
	M32			
	M40			
	M50			
	M63			

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

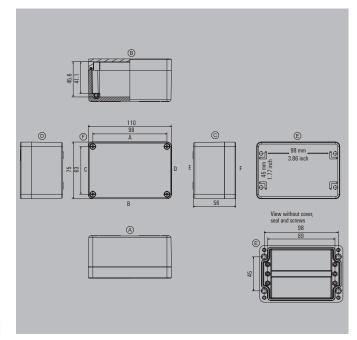
Dimensions of mounting plate



Note

Weidmüller 🕏 C.132 2712630000 Klippon® POK 081106 Depth 56 mm





Height / Width / Depth 75 / 110 / 56 mm

Ordering data

RAL 7001			Order No.
		Standard	1305820000
RAL 9011			
		Ex enclosure	1306010000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510580000
Steel sheet, galvanized for applications with earthing plate	1534290000
Fastening screws for mounting plates	0642600000
Mounting rails, TS15x5	
Horizontally	8000003890
Brass Earth Continuity Plate	
Brass	1390920000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510900000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	1x1*	1x10
	4 mm ²	1x1*	1x9
	6 mm ²		
	10 mm ²		
16	16 mm ²		

Note

* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position. Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology
TS 32 mounting rail with clamping yoke technology SAK
TS 15 mounting rail with clamping yoke technology AKZ
Ordering information for the terminal blocks, please refer to the online catalogue.

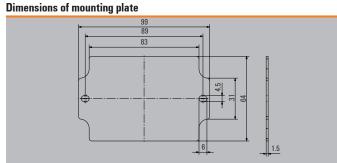
Guide value for max. number of cable entries

(6	S	6		
	4		9	2	V
			4	3/	1

Guide value for max. number of ca	uide value for max. number of cable entries		C/D
	M12	7	1
	M16	3	1
	M20	2	1
	M25	2	
	M32		
	M40		
	M50		
	M63		

Note

** Our IP 68 plastic cable glands are used as the reference for these guideline values.



Note

Klippon® POK 081606 Depth 56 mm



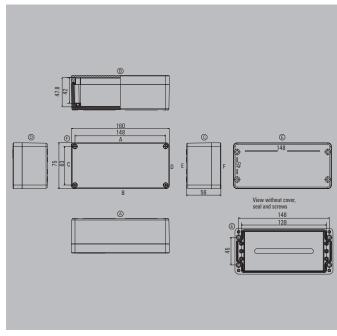
Height / Width / Denth	75 / 160 / 56 mm

Ordering data

RAL 7001			Order No.
		Standard	1305830000
RAL 9011			
		Ex enclosure	1306020000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510680000
Steel sheet, galvanized for applications with earthing plate	1534310000
Fastening screws for mounting plates	0642600000
Mounting rails, TS15x5	
Horizontally	8000003891
Brass Earth Continuity Plate	
Brass	1390930000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510900000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000



Guide value for max, number of terminals (industry)

dula value for max. number of terminals (madetry)				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	*	1x20	
	4 mm ²	*	1x17	
	6 mm ²			
7.	10 mm ²			
	16 mm ²			

Note

* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position. Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology
TS 32 mounting rail with clamping yoke technology SAK
TS 15 mounting rail with clamping yoke technology AKZ
Ordering information for the terminal blocks, please refer to the online catalogue.

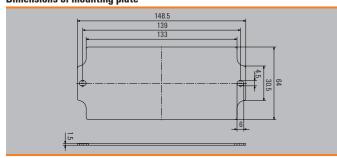
Guide value for max. number of cable entries



DI	e entries	A/B	C/D
	M12	11	1
	M16	5	1
	M20	4	1
	M25	3	
	M32		
	M40		
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

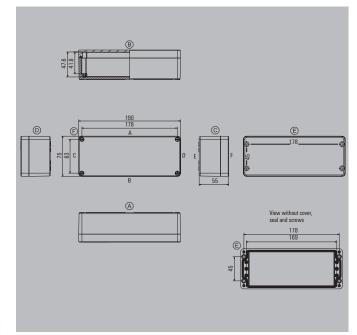
Dimensions of mounting plate



Note

Weidmüller 🏖 2712630000 Klippon® POK 081906 Depth 55 mm





Height / Width / Depth 75 / 190 / 55 mm

Ordering data

RAL 7001			Order No.
		Standard	1305840000
RAL 9011			
		Ex enclosure	1306030000
Note	The overview page lists the ambient temperatures.		

Accessories

2712630000

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510690000
Steel sheet, galvanized for applications with earthing plate	1534320000
Fastening screws for mounting plates	0642600000
Mounting rails, TS15x5	
Horizontally	8000003892
Brass Earth Continuity Plate	
Brass	1390940000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510900000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

		` ''	
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x26
	4 mm ²	*	1x22
	6 mm ²		
	10 mm ²		
16	16 mm ²		

* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position. Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology
TS 32 mounting rail with clamping yoke technology SAK
TS 15 mounting rail with clamping yoke technology AKZ
Ordering information for the terminal blocks, please refer to the online catalogue. Note

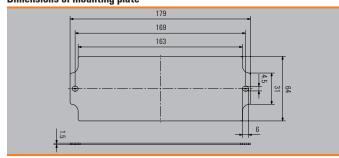
Guide value for max. number of cable entries

ntries	A/B
M12	14
M16	6
M20	5
M25	4
M32	
M40	
M50	
M63	
	M12 M16 M20 M25 M32 M40 M50

M12	14	1
M16	6	1
M20	5	1
M25	4	
M32		
M40		
M50		
M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values. Note

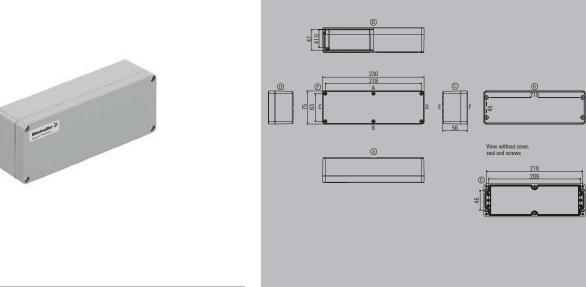
Dimensions of mounting plate



Note

Klippon® POK 082306 Depth 56 mm





Height / Width / Depth 75 / 230 / 56 mm

Ordering data

RAL 7001			Order No.
		Standard	1305850000
RAL 9011			
		Ex enclosure	1306040000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, galvanized for applications with earthing plate	1534330000
Fastening screws for mounting plates	0642600000
Mounting rails, TS15x5	
Horizontally	8000032382
Brass Earth Continuity Plate	
Brass	1390950000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510900000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

dulad value for max. number of terminals (madetry)				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	*	1x33	
	4 mm ²	*	1x28	
	6 mm ²			
	10 mm ²			
16	16 mm ²			

Note

* Please refer to the Terminal Block catalogue or the SAK Series for more information about assembling the enclosures with terminal blocks. We recommend a maximum of one BK 6, e.g. BK 6 CRN (0625220000), for vertical installation. There are no specified mounting options available for mounting the enclosure in a vertical position. Order recommendations:

TS 35 mounting rail with WDU clamping yoke technology, ZDU spring-cage terminal block or A2C PUSH IN technology
TS 32 mounting rail with clamping yoke technology SAK
TS 15 mounting rail with clamping yoke technology AKZ
Ordering information for the terminal blocks, please refer to the online catalogue.

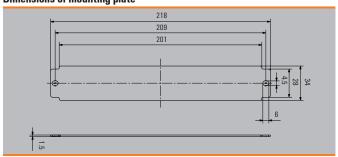
Guide value for max. number of cable entries



DI	e entries	A/B	C/D
	M12	16	1
	M16	6	1
	M20	6	1
	M25	4	
	M32		
	M40		
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

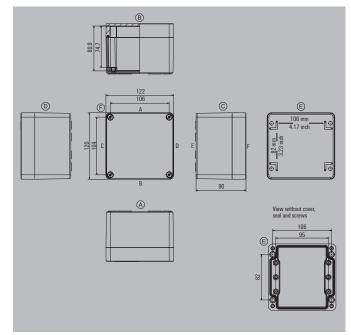
Dimensions of mounting plate



Note

Weidmüller 🏖 C.136 2712630000 Klippon® POK 121209 Depth 90 mm





Height / Width / Depth 120 / 122 / 90 mm

Ordering data

RAL 7001			Order No.
		Standard	1305870000
RAL 9011			
		Ex enclosure	1306050000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
	9510590000
Steel sheet, zinc plated	
Steel sheet, galvanized for applications with earthing plate	1534340000
Fastening screws for mounting plates	0642600000
Mounting rails, TS15x5	
Horizontally	8000003890
Brass Earth Continuity Plate	
Brass	1390970000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x12
	4 mm ²	*	1x10
	6 mm ²		1x7
7.	10 mm ²		1x6
	16 mm ²		1x5

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:

The state of Note

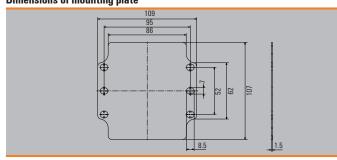
Guide value for max. number of cable entries

mue value for max. mamber of cabi	ic ciii
es es	
0	
(10)	

nie elities		A/D	G/D
	M12	12	8
	M16	6	4
	M20	4	3
	M25	2	1
	M32	1	1
	M40		
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values. Note

Dimensions of mounting plate



Note

Klippon® POK 122209 Depth 90 mm



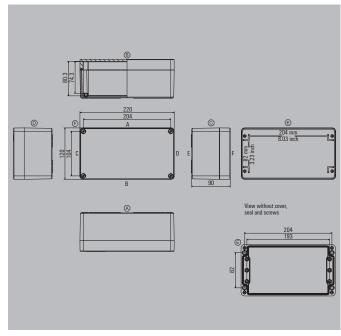
Height / Width / Donth	120 / 220 / 90 mm

Ordering data

RAL 7001			Order No.
		Standard	1305880000
RAL 9011			
		Ex enclosure	1306070000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510600000
Steel sheet, galvanized for applications with earthing plate	1534350000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000037568
Brass Earth Continuity Plate	
Brass	1390980000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000
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Guide value for max. number of terminals (industry)

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Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x31
	4 mm ²	*	1x26
	6 mm ²		1x19
	10 mm ²		1x15
16	16 mm ²		1x13

Note

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

*There are no specified mounting options available for vertical mounting in the enclosure.

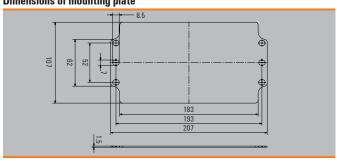
Guide value for max. number of cable entries



DIE ENTRIES		A/B	C/D
	M12	24	8
	M16	14	4
	M20	12	3
	M25	5	1
	M32	4	1
	M40	3	
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

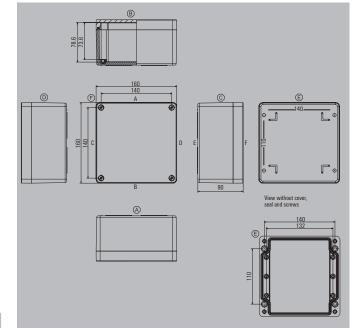
Dimensions of mounting plate



Note

Weidmüller 🐔 C.138 2712630000 Klippon® POK 161609 Depth 90 mm





Height / Width / Depth 160 / 160 / 90 mm

Ordering data

RAL 7001			Order No.
		Standard	1305890000
RAL 9011			
		Ex enclosure	1306080000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510610000
Steel sheet, galvanized for applications with earthing plate	1534360000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003908
Brass Earth Continuity Plate	
Brass	1390990000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

nuo valuo loi maxi namboi oi torminalo (mauoti)/				
	vertical	horizontal		
2.5 mm ²	*	1x17		
4 mm ²	*	1x14		
6 mm ²		1x11		
10 mm ²		1x9		
16 mm ²		1x7		
	2.5 mm ² 4 mm ² 6 mm ² 10 mm ²	vertical 2.5 mm² * 4 mm² * 6 mm² 10 mm²		

Note

The assembly with terminal rails is designed for direct mounting.
The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.
Recommendations for ordering:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC.
Order information for rail-mounted terminal blocks, please refer to the online catalogue
"There are no specified mounting options available for vertical mounting in the enclosure.

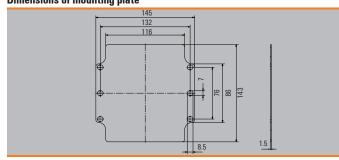
Guide value for max. number of cable entries



nie elittie2		A/D	U/D
	M12	15	11
	M16	12	6
	M20	6	4
	M25	3	2
	M32	2	2
	M40	2	1
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Note

Klippon® POK 162609 Depth 90 mm





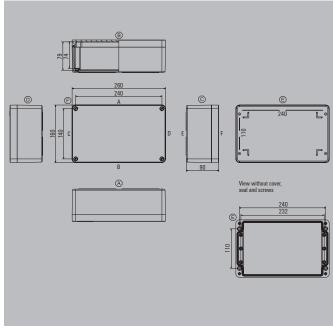
Height / Width / Depth	160 / 260 / 90 mm

Ordering data

RAL 7001			Order No.
		Standard	1305900000
RAL 9011			
		Ex enclosure	1306090000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510620000
Steel sheet, galvanized for applications with earthing plate	1534370000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003909
Brass Earth Continuity Plate	
Brass	1391000000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000



Guide value for max. number of terminals (industry)

datas valus for maximamos of community				
Assembly with terminal		vertical	horizontal	
	2.5 mm ²	*	1x36	
	4 mm ²	*	1x30	
	6 mm ²		1x23	
1.	10 mm ²		1x16	
1	16 mm ²		1x16	

Note

The assembly with terminal rails is designed for direct mounting.
The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.
Recommendations for ordering:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology AZC.
Order information for rail-mounted terminal blocks, please refer to the online catalogue
"There are no specified mounting options available for vertical mounting in the enclosure.

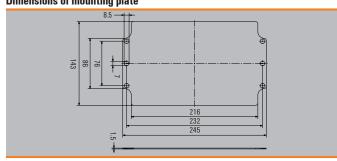
Guide value for max. number of cable entries



DI	e entries	A/B	C/D
	M12	30	11
	M16	24	6
	M20	14	4
	M25	5	2
	M32	4	2
	M40	3	1
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

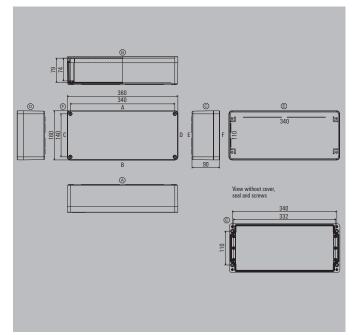
Dimensions of mounting plate



Note

Weidmüller 🐔 C.140 2712630000 Klippon® POK 163609 Depth 90 mm





Height / Width / Depth 160 / 360 / 90 mm

Ordering data

RAL 7001			Order No.
		Standard	1305910000
RAL 9011			
		Ex enclosure	1306100000
Note	The overview page lists the ambient temperatures.		

Accessories

2712630000

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510630000
Steel sheet, galvanized for applications with earthing plate	1534380000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003910
Brass Earth Continuity Plate	
Brass	1391010000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

dulue value for max. number of terminals (muustry)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	1x56
	4 mm ²	*	1x47
	6 mm ²		1x36
7.	10 mm ²		1x29
16	16 mm ²		1x24

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

*There are no specified mounting options available for vertical mounting in the enclosure.

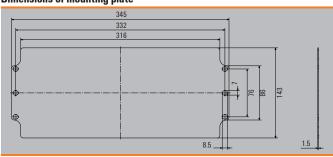
Guide value for max. number of cable entries



DI	e entries	A/B	C/D
	M12	45	11
	M16	36	6
	M20	20	4
	M25	8	2
	M32	6	2
	M40	5	1
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

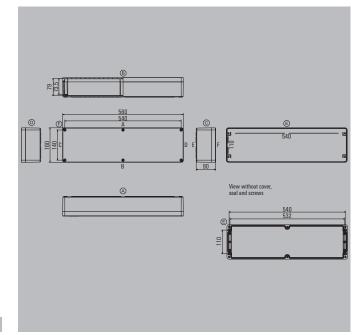
Dimensions of mounting plate



Note

Klippon® POK 165609 Depth 90 mm





Height / Width / Depth 160 / 560 / 90 mm
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Ordering data

RAL 7001			Order No.
		Standard	1305920000
RAL 9011			
		Ex enclosure	1306110000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510710000
Steel sheet, galvanized for applications with earthing plate	1534390000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003911
Brass Earth Continuity Plate	
Brass	1391020000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max, number of terminals (industry)

Assembly with terminal		vertical	horizontal
3	2.5 mm ²	*	1x94
	4 mm ²	*	1x79
	6 mm ²		1x60
	10 mm ²		1x49
16	16 mm ²		1x41

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

*There are no specified mounting options available for vertical mounting in the enclosure.

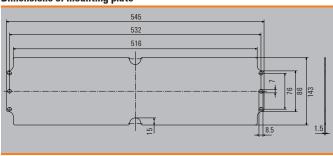
Guide value for max. number of cable entries



IJ	e entries	A/B	C/D
	M12	66	11
	M16	58	6
	M20	32	4
	M25	12	2
	M32	10	2
	M40	8	1
	M50		
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

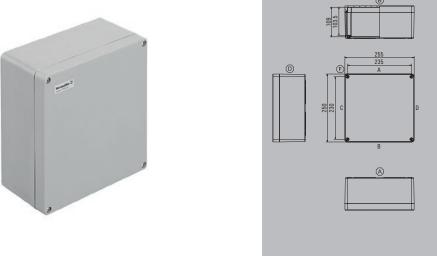
Dimensions of mounting plate



Note

Weidmüller 🐔 2712630000 Klippon® POK 252512 Depth 120 mm





Height / Width / Depth 250 / 255 / 120 mm

Ordering data

RAL 7001			Order No.
		Standard	1305930000
RAL 9011			
		Ex enclosure	1306120000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510640000
Steel sheet, galvanized for applications with earthing plate	1534410000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003912
Brass Earth Continuity Plate	
Brass	1391030000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

duide value for max. maniber of ferminals (mastry)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	2x38
	4 mm ²	*	2x31
	6 mm ²		2x23
	10 mm ²		2x19
16	16 mm ²		2x15

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

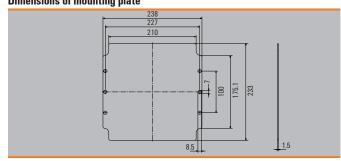
*There are no specified mounting options available for vertical mounting in the enclosure.

Guide value for max. number of cable entries

iuide value for max. number of cal	le entries	A/B	C/D
	M12	36	32
	M16	32	21
	M20	10	15
	M25	10	8
	M32	8	3
	M40	3	3
	M50	2	2
	M63		

Note	** Our IP 68 plastic cable glands are used as the reference for these guideline values.

Dimensions of mounting plate

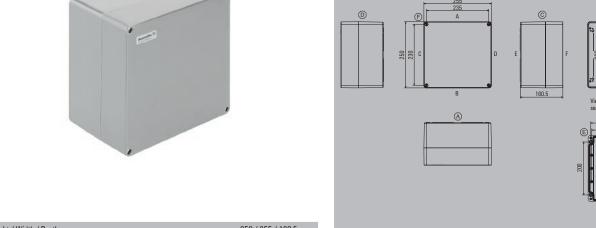


Note

Weidmüller ₹ C.143 2712630000

Klippon® POK 252516 Depth 160.5 mm





Height / Width / Depth	250 / 255 / 160.5 mm

Ordering data

RAL 7001			Order No.
		Standard	1305980000
RAL 9011			
		Ex enclosure	1306170000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510640000
Steel sheet, galvanized for applications with earthing plate	1534410000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003912
Brass Earth Continuity Plate	
Brass	1391030000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max, number of terminals (industry)

duide value for max. humber of terminals (madstry)				
	vertical	horizontal		
2.5 mm ²	*	2x38		
4 mm ²	*	2x31		
6 mm ²		2x23		
10 mm ²		2x19		
16 mm ²		2x15		
	2.5 mm ² 4 mm ² 6 mm ² 10 mm ²	vertical 2.5 mm ² * 4 mm ² * 6 mm ² 10 mm ²		

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

*There are no specified mounting options available for vertical mounting in the enclosure.

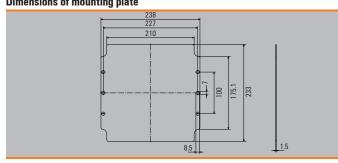
Guide value for max. number of cable entries



nie elitiies		A/D	G / D
	M12	36	32
	M16	32	21
	M20	18	15
	M25	10	8
	M32	8	3
	M40	3	3
	M50	2	2
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

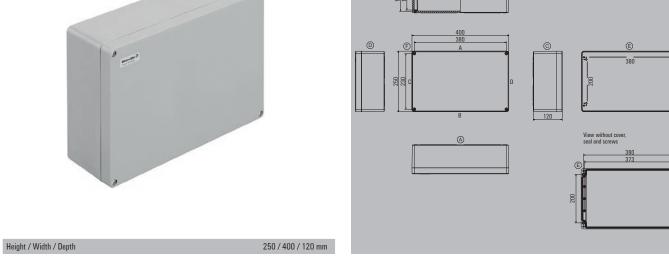
Dimensions of mounting plate



Note

Weidmüller 🐔 2712630000 Klippon® POK 254012 Depth 120 mm





Ordering data

RAL 7001			Order No.
		Standard	1305940000
RAL 9011			
		Ex enclosure	1306130000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510650000
Steel sheet, galvanized for applications with earthing plate	1534420000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003913
Brass Earth Continuity Plate	
Brass	1391040000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000

Guide value for max. number of terminals (industry)

ssembly with terminal		vertical	horizontal
	2.5 mm ²	*	2x67
	4 mm ²	*	2x55
No.	6 mm ²		2x41
	10 mm ²		2x33
	16 mm ²		2x27

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

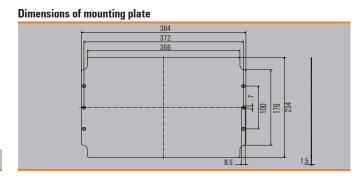
*There are no specified mounting options available for vertical mounting in the enclosure. Note

Guide value for max. number of cable entries



"	e elitiles	A/D	U/ D
	M12	62	32
	M16	54	21
	M20	33	15
	M25	18	8
	M32	14	3
	M40	6	3
	M50	4	2
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

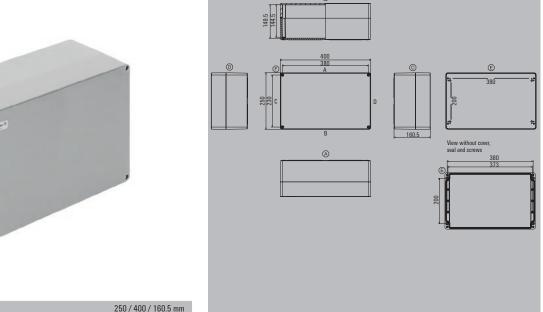


Note

Weidmüller ₹ C.145 2712630000

Klippon® POK 254016 Depth 160.5 mm





Height / Width / Depth 250 / 400 / 160.5 mm

Ordering data

RAL 7001			Order No.
		Standard	1305990000
RAL 9011			
		Ex enclosure	1306180000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510650000
Steel sheet, galvanized for applications with earthing plate	1534420000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003913
Brass Earth Continuity Plate	
Brass	1391040000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000
**	

Guide value for max, number of terminals (industry)

duide value for max. number of terminals (madstry)			
Assembly with terminal		vertical	horizontal
	2.5 mm ²	*	2x67
	4 mm ²	*	2x55
	6 mm ²		2x41
	10 mm ²		2x33
	16 mm ²		2x27

1 The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

*There are no specified mounting options available for vertical mounting in the enclosure.

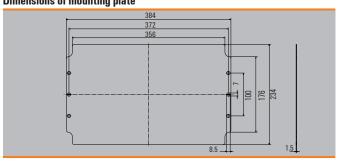
Guide value for max. number of cable entries



nı	e elitiles	A/D	C/D
	M12	62	32
	M16	54	21
	M20	33	15
	M25	18	8
	M32	14	3
	M40	6	3
	M50	4	2
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Note

Weidmüller 🐔 C.146 2712630000 Klippon® POK 256012 Depth 120 mm



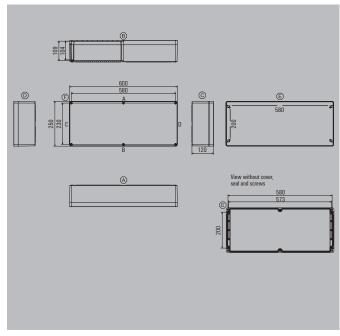


Ordering data

RAL 7001			Order No.
		Standard	1305950000
RAL 9011			
		Ex enclosure	1306140000
Note	The overview page lists the ambient temperatures.		

Accessories

Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510660000
Steel sheet, galvanized for applications with earthing plate	1534430000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003914
Brass Earth Continuity Plate	
Brass	1391050000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000



Guide value for max. number of terminals (industry)

		` ''	
sembly with terminal		vertical	horizontal
	2.5 mm ²	*	2x107
	4 mm ²	*	2x89
	6 mm ²		2x66
	10 mm ²		2x53
16	16 mm ²		2x44
	4 mm ² 6 mm ² 10 mm ²	*	2x107 2x89 2x66 2x53

Note

The assembly with terminal rails is designed for direct mounting.
The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.
TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C
Order information for rail-mounted terminal blocks, please refer to the online catalogue
*There are no specified mounting options available for vertical mounting in the enclosure.

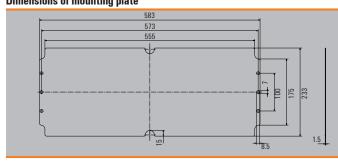
Guide value for max. number of cable entries



ш	e elitiles	A/D	C/D
	M12	96	32
	M16	80	21
	M20	24	15
	M25	20	8
	M32	20	3
	M40	8	3
	M50	6	2
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Klippon® POK 404012 Depth 120 mm



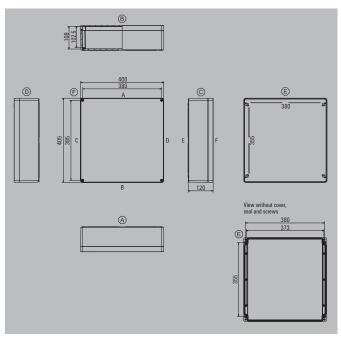
405 / 400 / 120 mm

Ordering data

RAL 7001			Order No.
		Standard	1305970000
RAL 9011			
		Ex enclosure	1306150000
Note	The overview page lists the ambient temperatures.		

Accessories

1.0000001100	
Mounting plates and fastening screws	Order No.
Steel sheet, zinc plated	9510670000
Steel sheet, galvanized for applications with earthing plate	1534440000
Fastening screws for mounting plates	0642600000
Mounting rails, TS35x7.5	
Horizontally	8000003913
Brass Earth Continuity Plate	
Brass	1391070000
External mounting feet, set of 4	
Stainless steel 1.4301 natural	9510910000
Earthing stud	
Brass, M10	1277220000
Stainless steel 1.4404, M10	1283440000
Brass, M6	1277250000
Stainless steel 1.4404, M6	1283430000
Pressure compensation elements	
Polyamide 6, M12	1868570000
Stainless steel 1.4305, M12	1868550000
Stainless steel 1.4404, M20 for Ex applications	2519570000



Guide value for max. number of terminals (industry)

dulad value for max. number of terminate (madeti)/						
Assembly with terminal		vertical	horizontal			
	2.5 mm ²	*	3x67			
	4 mm ²	*	3x55			
	6 mm ²		3x41			
	10 mm ²		3x33			
16	16 mm ²		3x27			

Note

The assembly with terminal rails is designed for direct mounting.

The assembly with modular terminals gives consideration to a distance of 10 mm from the end of each mounting rail.

Recommendations for ordering:

TS 35 Mounting rail with clamping yoke technology WDU, spring-cage terminal ZDU or PUSH IN technology A2C

Order information for rail-mounted terminal blocks, please refer to the online catalogue

*There are no specified mounting options available for vertical mounting in the enclosure.

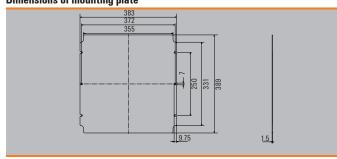
Guide value for max. number of cable entries



nı	e circires	A/ D	0/0
	M12	62	60
	M16	54	39
	M20	33	30
	M25	18	18
	M32	14	7
	M40	6	5
	M50	4	4
	M63		

** Our IP 68 plastic cable glands are used as the reference for these guideline values.

Dimensions of mounting plate



Note

Weidmüller 🐔 2712630000

Klippon® Protect Terminal Boxes – **Product overview: Polyester enclosure**

Use the product overview to find the right solution for you! Combine your own industrial version consisting of an enclosure, with or without threaded holes, a suitable mounting rail or pre-fitted terminal strips. The compatible components are always shown in a row.

Klippon® Protect offers you approved Terminal Boxes with for use in explosive areas can be found in the last column. They come with threaded holes and are already equipped with a terminal strip.

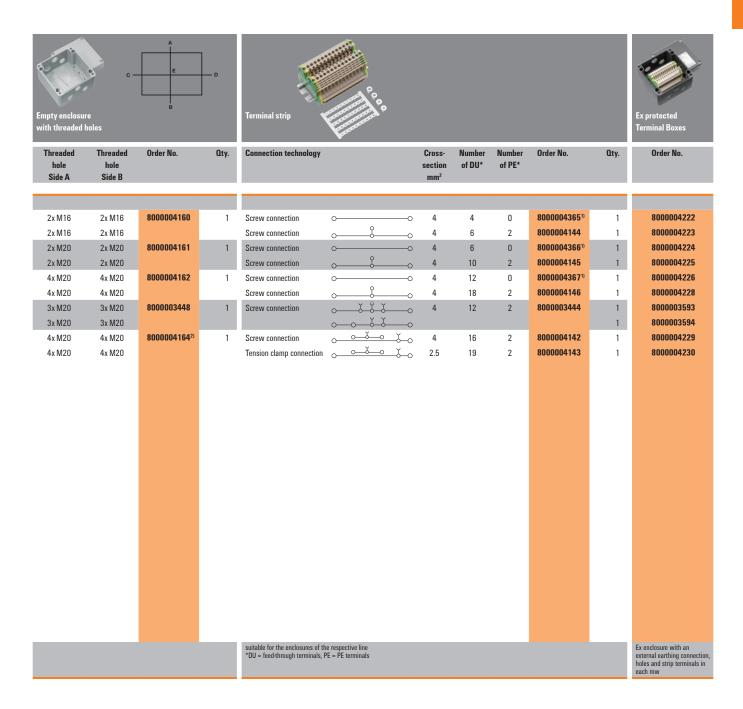
Polvester enclosure

Polyester enclosure		Empty enclosure without threaded	l holes	Mounting rail (TS) Mounting plate (MOPL)				
Dimensions of the enclosure height x width x depth mm	Enclosure type	Order No.	Qty.	Туре	Length mm	Rail mounting slot dimensions mm	Order No.	Qty.
Polyester, RAL 7001								
75 x 80 x 55	Klippon® 080806	1305810000	1	TS 15	68	4.5 x 20	1928060000	1
75 x 110 x 56	Klippon® 081106	1305820000	1	TS 15	98	4.5 x 20	1928070000	1
75 x 160 x 56	Klippon® 081606	1305830000	1	TS 15	147	4.5 x 20	1928080000	1
120 x 122 x 90	Klippon® 121209	1305870000	1	TS 35	105	6.3 x 20	1910070000	1
160 x 160 x 90	Klippon® 161609	1305890000	1	TS 35	140	6.3 x 20	1910100000	1
		protection class IP 66		suitable for the enclosure of th	ne respective line			

 $^{^{11}\,}$ Multi-pole terminal blocks (block terminals BK 4, BK 6 or BK 12) can be directly fitted $^{21}\,$ Space for further threaded holes up to M32

Weidmüller 🏖 2712630000

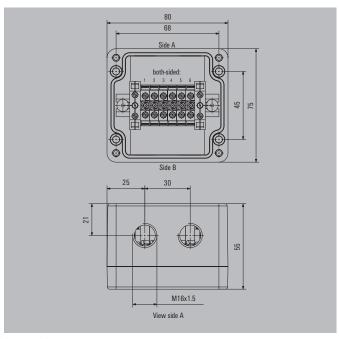
Enclosures



2712630000 **Weidmüller ₹ c.151**

Klippon® POK 080806 55 mm





Accessories

710000001100		
Cable glands		Order No.
	VG M16 EXE 5-8 SI7J G4	2722080000
0	VG M16 EXE 6-10 SI7J G4	2722090000
Stopping plugs		
88	VP M16 EX SI 7J	2066720000

Empty enclosure with tapped holes

	Drill holes side A	Drill holes side B	Order No.
71	2 x M16x1.5	2 x M16x1.5	8000004160
1			

Note

Terminal block, suitable for empty enclosure

	Туре	Type of connection	Conductor can be clamped	Rated cross-section	No. of DU*	No. of PE*	Order No.
-	BK 4/E	Screw connection	Solid / stranded	0.54 mm ² / 1.54 mm ²	4	0	8000004365
1			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.54 mm ²			
18	AKZ 4	Screw connection	Solid / stranded	0.56 mm ² / 1.54 mm ²	6	2	8000004144
			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.52.5 mm ²			
Note		Markers numbered 1-50 (horizontal *DU = feed-through terminals, PE =	text) and mounting screws are included in the delive PE terminals	ry.			

Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M16x1.5	2 x M16x1.5	6	2	8000004223
2 x M16x1.5	2 x M16x1.5	6	2	8000004222

Terminal rail / mounting plate set

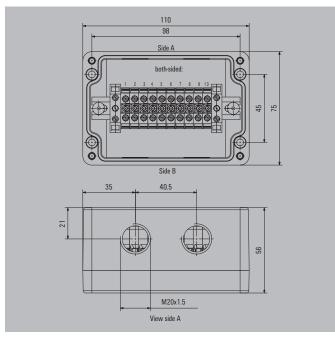
	Product type	Туре	Length	Order No.
1	Rail	TS15 68 Klippon POK1 CSS	68 mm	1928060000



Enclosures are delivered in RAL 9011.
*DU = feed-through terminals, PE = PE terminals Note

Klippon® POK 081106 56 mm





Accessories

Cable glands		Order No.
	VG M20 EXE 7-13 SI7J G4	2722110000
0	VG M20 EXE 11-14 SI7J G4	2722120000
Stopping plugs		
0	VP M20 EX SI 7J	2066730000
-		
Gauge rings		
Q. 0 -	ADAP EX M20-M16	1737560000
6		

Empty enclosure with tapped holes

_ ' '	- 11		
	Drill holes side A	Drill holes side B	Order No.
	2 x M20x1.5	2 x M20x1.5	8000004161
1			

Note

Not

Terminal block, suitable for empty enclosure

	Туре	Type of connection	Conductor can be clamped	Rated cross-section	No. of DU*	No. of PE*	Order No.
-	BK 6/E	Screw connection	Solid / stranded	0.54 mm ² / 1.54 mm ²	6	0	8000004366
			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.54 mm ²			
26	AKZ 4	Screw connection	Solid / stranded	0.56 mm ² / 1.54 mm ²	10	2	8000004145
			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.52.5 mm ²			
Note		Markers numbered 1-50 (horizont *DU = feed-through terminals, PE	al text) and mounting screws are included in the delive = PE terminals	ery.			

Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
2 x M20x1.5	2 x M20x1.5	10	2	8000004225
2 x M20x1.5	2 x M20x1.5	6	0	8000004224

Terminal rail / mounting plate set

	Product type	Туре	Length	Order No.
1	Rail	TS15 98 Klippon POK2 CSS	98 mm	1928070000



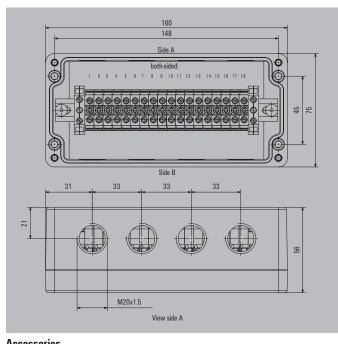
Note Enclosures are delivered in RAL 9011.
*DU = feed-through terminals, PE = PE terminals

Note

2712630000 **Weidmüller ₹ c.153**

Klippon® POK 081606 56 mm





Accessories

Cable glands		Order No.
	VG M20 EXE 7-13 SI7J G4	2722110000
0	VG M20 EXE 11-14 SI7J G4	2722120000
Stopping plugs		
	VP M20 EX SI 7J	2066730000
-		
Gauge rings		
0	ADAP EX M20-M16	1737560000
Q. W		

Empty enclosure with tapped holes

_ ' '	- 11		
	Drill holes side A	Drill holes side B	Order No.
	4 x M20x1.5	4 x M20x1.5	8000004162

Note

Terminal block, suitable for empty enclosure

	Туре	Type of connection	Conductor can be clamped	Rated cross-section	No. of DU*	No. of PE*	Order No.
1	BK 12/E	Screw connection	Solid / stranded	0.54 mm ² / 1.54 mm ²	12	0	8000004367
			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.54 mm ²			
200	AKZ 4	Screw connection	Solid / stranded	0.56 mm ² / 1.54 mm ²	18	2	8000004146
			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.52.5 mm ²			
Note		Markers numbered 1-50 (horizontal *DU = feed-through terminals, PE =	text) and mounting screws are included in the delive PE terminals	ry.			

Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	18	2	8000004228
4 x M20x1.5	4 x M20x1.5	12	0	8000004226

Terminal rail / mounting plate set

	Product type	Туре	Length	Order No.
1	Rail	TS15 147 Klippon POK3 CSS	147 mm	1928080000



Enclosures are delivered in RAL 9011.
*DU = feed-through terminals, PE = PE terminals Note

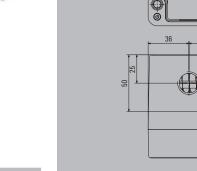
Side A

both-sided:

Side B

Klippon® POK 121209 90 mm





Height / Width / Depth 120 / 122 / 90 mm

Accessories

Cable glands		Order No.
	VG M20 EXE 7-13 SI7J G4	2722110000
	VG M20 EXE 11-14 SI7J G4	2722120000
Stopping plugs		
	VP M20 EX SI 7J	2066730000
-		
Gauge rings		
0	ADAP EX M20-M16	1737560000
Q. W		
· ·		

Empty enclosure with tapped holes

1 /	- 11		
	Drill holes side A	Drill holes side B	Order No.
70	3 x M20x1.5	3 x M20x1.5	8000003448
A A			

Note

Terminal block, suitable for empty enclosure

	Туре	Type of connection	Conductor can be clamped	Rated cross-section	No. of DU*	No. of PE*	Order No.
All and a second	WDU 4	Screw connection	Solid/stranded	0.56 mm ² / 1.56 mm ²	12	2	8000003444
1			Flexible / flexible with wire-end ferrule	0.56 mm ² / 0.54 mm ²			

Note

Markers numbered 1-50 (horizontal text) and mounting screws are included in the delivery.
*DU = feed-through terminals, PE = PE terminals

Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
3 x M20x1.5	3 x M20x1.5	12	2	8000003593
3 x M20x1 5	3 x M20x1 5	9	2	8000003594

Terminal rail / mounting plate set

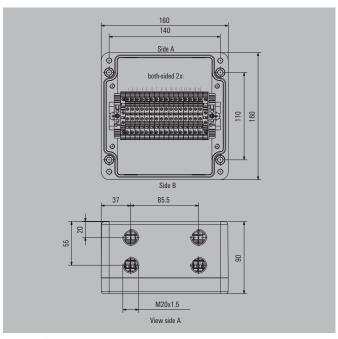
	Product type	Туре	Length	Order No.
Me	Rail	TS35 105 Klippon K41/POK4	105 mm	1910070000
111				



Note Enclosures are delivered in RAL 9011.
*DU = feed-through terminals, PE = PE terminals

Klippon® POK 161609 90 mm





Accessories

Cable glands		Order No.
	VG M20 EXE 7-13 SI7J G4	2722110000
	VG M20 EXE 11-14 SI7J G4	2722120000
Stopping plugs		
	VP M20 EX SI 7J	2066730000
•		
Gauge rings		
0 10	ADAP EX M20-M16	1737560000
9		
· ·		

Empty enclosure with tapped holes

_ ' '	- 11		
	Drill holes side A	Drill holes side B	Order No.
500	4 x M20x1.5	4 x M20x1.5	8000004164

Note

Terminal block, suitable for empty enclosure

	Туре	Type of connection	Conductor can be clamped	Rated cross-section	No. of DU*	No. of PE*	Order No.
	ZDK 2.5	Tension-clamp connection	Double-level terminal	0.52.5 mm ² /	19	2	8000004143
1				0.52.5 mm ² / 0.52.5 mm ²			
1	WDK 4N	Screw connection	Solid/stranded	0.56 mm ² / 1.56 mm ²	16	2	8000004142
			Flexible / flexible with wire-end ferrule	0.54 mm ² / 0.54 mm ²			
Note		Markers numbered 1-50 (horizontal *DU = feed-through terminals, PE =	text) and mounting screws are included in the delive PE terminals	ry.			

Distribution box with ATEX II 2GD T85°C Ex e II T6

Drill holes side A	Drill holes side B	No. of DU*	No. of PE*	Order No.
4 x M20x1.5	4 x M20x1.5	16	2	8000004229
4 x M20x1.5	4 x M20x1.5	19	2	8000004230

Terminal rail / mounting plate set

	Product type	Туре	Length	Order No.
Me	Rail	TS35/140 Klippon K52 POK51	140 mm	1910100000
111				



Enclosures are delivered in RAL 9011.
*DU = feed-through terminals, PE = PE terminals Note

C

Safely control work processes in hazardous areas on siteWith certified enclosure solutions with control and display elements

Harsh industrial environments and hazardous areas, such as in the oil and gas industry, place extreme demands on the safety, the robustness and quality of products and devices.

We meet these challenges with the Klippon® Control Station, the addition to our range of customised enclosure solutions. More than 50 years of expertise have made us market leader in this area with global competence centres. The basis of our enclosure solutions is provided by the usual Weidmüller quality and comprehensive approvals for explosion hazard areas. Based on this, our sturdy "on-site control station" is available in two standard sizes and with up to four control and display elements and provides a flexible solution to meet your specific needs.

Order your distributor enclosure as well as control and signaling units from a single source and from one enclosure design – for reliable security and reduced storage costs for maintenance and repair operations.

Your special advantages: Ideal for urgent service calls

We have prepared modules of the proven Klippon® enclosures POK available for you for further processing. This means we manufacture a control solution suitable for your application at short notice.



Predestined for emergency shutdown applications: Klippon® Control Stations score when it comes to the safe shutdown of plant sections, such as in the process industry

58 Weidmüller 52 2712630000

Customised assembly

In addition to standard types from stock, you can obtain enclosure solutions from us that are completely assembled and equipped according to customer requirements.



Project solutions from a single source

Obtain command/signaling units and distribution and control boxes as a complete solution - tailored to the individual requirements of your projects in hazardous areas.











A variety of sizes and materials

Enclosures in stainless steel, aluminium or polyester are available for different environmental conditions. Depending on the size of the enclosure, it provides space for the integration of up to four control and display elements.



certified among others according to ATEX and IECEx.







Robust solutions for demanding environments

Klippon® Protect provides high-quality polyester enclosures

Our enclosures made of high-quality polyester (Klippon® POK) are the ideal solutions for demanding electrical connectivity applications. They are particularly suitable for applications that demand corrosion resistance, impact resistance and a high protection class. Suitable for use within hazardous environments.

Additional features:

- Extremely robust, weather-proof and impactresistant up to 7 joules
- · Simple fastening of mounting rails
- High ingress protection IP66







Technical data

M		

Surface finish
Colour
IP protection class
Ambient temperature
Seal material of enclosure
Seal material of command and signalling units
Flammability rating

Cable gland material
Cable gland clamping area
min. - max. in mm
M20
M25
Max. rated cross-section
Max. operating voltage
with integrated illuminated pushbutton or lighting module

Impact resistance IK

Maximum operating current at 40 °C ambient temperature $1.5\ mm^2-T6$ $1.5\ mm^2-T5$ $2.5\ mm^2-T6$

Maximum operating current at 55 °C ambient temperature

1.5 mm² - T4

1.5 mm² - T5

2.5 mm² - T5

Temperature class
Type of mounting
Earthing inside
Lid attachment
Lid screw torque
Earthing torque
Earthing outside

Marking

Approvals

Mounting feet

Polyester enclosures

Glass-fibre reinforced polyester with graphite mixture

Natural, black
Similar to RAL 9011
IP 54; IP 66
-55 °C to 55 °C
Silicone (VMQ)
EPDM
_

7 joules in acc. with IEC60079-0 4 joules in acc. with IEC60079-0 with integrated illuminated pushbutton or light module

Polyamide

Available on request

6-12 mm
2.5 mm ²
400 V
250 V
10 A
16 A
16 A
16 A
10 A
16 A
T4, T5, T6
Wall mounting
Earth terminal
Crosshead screws, stainless steel
2.5-3.0 Nm
•
Available on request
IECEXITA14.0013X
TUEV14ATEX7606X
MARITREG 15.40082.250
2G Ex e d IIC T* Gb 2G Ex ib d [ia] IIC T* Gb
2D Ex tb IIIC T80/100 °C Db
9510910000

Weidmüller ₹2 2712630000



		ber of conent		in	Emergency stop pushbutton	Key switch	Pushbi			hbutton Light module Dimensions		Illuminated pushbutton				
	•	•	•	• • • •	red	II - 0 - II	red	green	red	green	red	green	with built-in components HxWxD in mm	Designation	Cable gland	Order number
	•				1								152x120x128	KLIPPON CS POK 121209-2	VG M25	1537070000
	•							1					152x120x103	KLIPPON CS POK 121209-2	VG M25	1537080000
	•					1							152x120x117	KLIPPON CS POK 121209-2	VG M25	1537090000
	•									1			152x120x105	KLIPPON CS POK 121209-2	VG M25	1537100000
		•					1	1					152x120x103	KLIPPON CS POK 121209-4	VG M25	1537110000
Polyester		•						1				1	152x120x112	KLIPPON CS POK 121209-4	VG M25	1537120000
		•			1						1		152x120x128	KLIPPON CS POK 121209-4	VG M25	1537130000
			•				1	1				1	250x120x112	KLIPPON CS POK 122209-2	VG M25	1537140000
			•				1	2					250x120x103	KLIPPON CS POK 122209-2	VG M25	1537150000
			•		1		1	1					250x120x128	KLIPPON CS POK 122209-2	VG M25	1537170000
				•			1	1			1	1	250x120x112	KLIPPON CS POK 122209-4	VG M25	1537180000

2712630000 **Weidmüller № C.161**

Klippon® CS POK 121209-2



Klippon® CS POK 121209-2



Technical data

i common anta	
Enclosure	
Dimensions with installation (HxBxD)	
Material	
General characteristics	
Surface finish / Colour	
Protection class	
Ambient temperature	
Impact resistance	
UL 94 flammability rating	
Enclosure seal material	
Seal material of operating and display elements	
Type of mounting	
External earth	
Lid attachment	
Torque for lid screws	
Electrical properties*	
Wire connection cross section, finely stranded, max.	
Operating voltage, max.	
Temperature class	
Enclosure assembly	
1 Position in enclosure	
2 Position in enclosure	
3 Position in enclosure	
4 Position in enclosure	
Contact design	
Actuators	
Actuator colour	

Uperating voltage, max.
Temperature class
Enclosure assembly
1 Position in enclosure
2 Position in enclosure
3 Position in enclosure
4 Position in enclosure
Contact design
Actuators
Actuator colour
Illumination module colour
Illuminated button actuator colour
Cable entries
Drill holes side B
Cable gland
Clamping range min. / max.
Approval and Marking
Standards
Certificate No. (IECEX)
Certificate No. (ATEX)
Certificate No. (EAC)
Certificate No. (MARITREG)
Marking
Accessories
Mounting feet

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152 / 120 / 128 mm
Glass-fibre reinforced polyester with graphite mixture
diass-tible felliforced polyester with graphite mixture
untreated / graphite black
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
V-O
Silicone (VMQ) EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
EMERGENCY-STOP pushbutton with yellow, contrasting label
2 NC contact, positive opening contacts
EMERGENCY STOP pushbutton
red
1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4
12 mm / 17 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex th IIIC T*°C Db
9510910000 - MF POK BIG
מס ו שט ו שט י ואור דעות סוט

152 / 120 / 103 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / graphite black
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
<u>V-0</u>
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Pushbutton - green
1 NC contact, 1 NO contacts
Pushbutton
green
1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4
12 mm / 17 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db

Note

Ordering data

Туре	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537070000

Туре	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537080000

Note

*Other temperature classes and connection values on request, or see "Notice to Installer".

Klippon® CS POK 121209-2

Klippon® CS POK 121209-2

152 / 120 / 105 mm

Klippon® CS POK 121209-4







152 / 120 / 117 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / graphite black
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
Key-operated switch
1 NC contact, 1 NO contacts
Key-operated switch, 3 switching positions, I - O - II, (I + II), latching,
Key retractable
1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4
12 mm / 17 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db

Glass-fibre reinforced polyester with graphite mixture
untreated / graphite black
IP54, IP66
-55 °C+55 °C
4 joules in acc. with IEC 60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
250 V
T4, T5, T6
W
Illuminated pushbutton - green
2 NO contacts
Pushbutton
- domparton
green
green
1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4
12 mm / 17 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
15.40082.250 II 2 G Ex d e IIC T* Gb
15.40082.250
15.40082.250 II 2 G Ex d e IIC T* Gb
15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db
15.40082.250 II 2 G Ex d e IIC T* Gb
15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db

152 / 120 / 103 mm Glass-fibre reinforced polyester with graphite mixture	
untreated / graphite black IP54, IP66 -55 °C 7 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ) EPDM Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex th IIIC T*°C Db	152 / 120 / 103 mm
IP54, IP66	Glass-fibre reinforced polyester with graphite mixture
IP54, IP66	
-55 °C+55 °C 7 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ) EPDM Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	untreated / graphite black
7 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ) EPDM Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BEOZ.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III C T*°C Db	IP54, IP66
V-0 Silicone (VMQ) EPDM Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	-55 °C+55 °C
Silicone (VMQ) EPDM Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	7 joules in acc. with IEC 60079-0
EPDM Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	V-0
Wall mounting Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX76GEX RUCDE_BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	Silicone (VMQ)
Available on request Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE_BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	EPDM
Crosshead screws, stainless steel 2.5 Nm 2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	Wall mounting
2.5 mm² 400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	Available on request
2.5 mm² 400 V 74, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex th IIIC T*°C Db	Crosshead screws, stainless steel
400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	2.5 Nm
400 V T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	
T4, T5, T6 Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	2.5 mm ²
Pushbutton - red Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BEO2.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	400 V
Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	T4, T5, T6
Pushbutton - green 2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	
2 NC contact, 2 NO contacts Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	Pushbutton - red
Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	Pushbutton - green
Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	
Pushbutton red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	
red, green 1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BEO.2B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	2 NC contact, 2 NO contacts
1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	Pushbutton
1 x M25 2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	red, green
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	
12 mm / 17 mm IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	1 x M25
IEC 60079-0, IEC 60079-7, IEC 60079-31 IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T**C Db	2721990000 - VG M25 EXE 12-17 CR7J G4
IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	12 mm / 17 mm
IECEXITA14.0013X TUEV14ATEX7606X RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb III 2 D Ex tb IIIC T*°C Db	
TUEV14ATEX7606X RUC-DE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	IEC 60079-0, IEC 60079-7, IEC 60079-31
RUCDE.BE02.B.00173 15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	IECEXITA14.0013X
15.40082.250 II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	TUEV14ATEX7606X
II 2 G Ex d e IIC T* Gb II 2 D Ex tb IIIC T*°C Db	RUC-DE.BE02.B.00173
II 2 D Ex tb IIIC T*°C Db	15.40082.250
	II 2 G Ex d e IIC T* Gb
9510910000 - MF POK BIG	II 2 D Ex tb IIIC T*°C Db
9510910000 - MF POK BIG	
9510910000 - MF POK BIG	
	9510910000 - MF POK BIG

Туре	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537090000

Туре	Qty.	Order No.
KLIPPON CS POK 121209-2	1	1537100000

1	уре	Qty.	Order No.
k	(LIPPON CS POK 121209-4	1	1537110000

9510910000 - MF POK BIG

Klippon® CS POK 121209-4

152 / 120 / 112 mm

untreated / graphite black IP54, IP66 -55 °C...+55 °C

Glass-fibre reinforced polyester with graphite mixture



Klippon® CS POK 121209-4



Technical data

Enclosure
Dimensions with installation (HxBxD)
Material
General characteristics
Surface finish / Colour
Protection class
Ambient temperature
Impact resistance
UL 94 flammability rating
Enclosure seal material
Seal material of operating and display elements
Type of mounting
External earth
Lid attachment
Torque for lid screws
Electrical properties*
Wire connection cross section, finely stranded, max.
Operating voltage, max.
Temperature class
Enclosure assembly
1 Position in enclosure
2 Position in enclosure
3 Position in enclosure
4 Position in enclosure
Contact design
Actuators
Actuator colour
Illumination module colour
Illuminated button actuator colour
Cable entries

4 joules in acc. with IEC 60079-0	
V-0	
Silicone (VMQ)	
EPDM	
Wall mounting	
Available on request	
Crosshead screws, stainless steel	
2.5 Nm	
2.5 mm ²	
250 V	
T4, T5, T6	
Light module - green	
Pushbutton - green	
1 NC contact, 1 NO contacts	
Pushbutton	
green	
green	
1 x M25	
2721990000 - VG M25 EXE 12-17 CR7J (G4
12 mm / 17 mm	
IEC 60079-0, IEC 60079-7, IEC 60079-31	
IECEXITA14.0013X	
TUEV14ATEX7606X	
RUC-DE.BE02.B.00173	
15.40082.250	
II 2 G Ex d e IIC T* Gb	
II 2 D Ex tb IIIC T*°C Db	

ıntreated / graphite black	
P54, IP66	_
55 °C+55 °C	_
l joules in acc. with IEC 60079-0	_
<i>I</i> -0	_
Silicone (VMQ)	_
PDM	_
Vall mounting	_
Available on request	_
Prosshead screws, stainless steel	_
2.5 Nm	_
2.5 mm ²	
250 V	_
T4, T5, T6	_
ight module - red	
MERGENCY-STOP pushbutton with yellow, contrasting labe	el .
	_
NC contact, positive opening contacts	_
MERGENCY STOP pushbutton	_
ed	_
ed	_
	_
x M25	_
x M25 2721990000 - VG M25 EXE 12-17 CR7J G4	
2721990000 - VG M25 EXE 12-17 CR7J G4	
2721990000 - VG M25 EXE 12-17 CR7J G4	
2721990000 - VG M25 EXE 12-17 CR7J G4 2 mm / 17 mm	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31 ECEXITA14.0013X	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31 ECEXITA14.0013X TUEV14ATEX7606X	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31 ECEXITA14.0013X TUEV14ATEX7606X RUCDE.TB08.B.01838	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31 ECEXITA14.0013X TUEV14ATEX7606X RUCDE.TB08.B.01838 15.40082.250	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31 ECEXITA14.0013X	
2721990000 - VG M25 EXE 12-17 CR7J G4 12 mm / 17 mm EC 60079-0, IEC 60079-7, IEC 60079-31 ECEXITA14.0013X	

Note

Marking

Accessories Mounting feet

Drill holes side B Cable gland Clamping range min. / max. Approval and Marking StandardsCertificate No. (IECEX) Certificate No. (ATEX) Certificate No. (EAC) Certificate No. (MARITREG)

Orderina da	

dering data			
	Туре	Qty.	Order No.
	KLIPPON CS POK 121209-4	1	1537120000

Qty.	Order No.
1	1537130000
	Qty. 1

*Other temperature classes and connection values on request, or see "Notice to Installer". Note

*Other temperature classes and connection values on request, or see "Notice to Installer".

Weidmüller 🐔

Klippon® CS POK 122209-2

Klippon® CS POK 122209-2

Klippon® CS POK 122209-2







250 / 120 / 112 mm	250 / 120 / 103 mm
Glass-fibre reinforced polyester with graphite mixture	Glass-fibre reinforced p
untreated / graphite black	untreated / graphite bl
IP54, IP66	IP54, IP66
-55 °C+55 °C	-55 °C+55 °C
4 joules in acc. with IEC 60079-0	7 joules in acc. with IE
V-0	V-0
Silicone (VMQ)	Silicone (VMQ)
EPDM	EPDM
Wall mounting	Wall mounting
Available on request	Available on request
Crosshead screws, stainless steel	Crosshead screws, sta
2.5 Nm	2.5 Nm
2.5 mm ²	2.5 mm ²
250 V	400 V
T4, T5, T6	T4, T5, T6
Pushbutton - red	Pushbutton - green
Light module - green	Pushbutton - red
Pushbutton - green	Pushbutton - green
3	
2 NC contact, 2 NO contacts	3 NC contact, 3 NO co
Pushbutton	Pushbutton
red, green	green, red
green	
3	
1 x M25	1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4	2721990000 - VG M2
12 mm / 17 mm	12 mm / 17 mm
12, 17	12
IEC 60079-0, IEC 60079-7, IEC 60079-31	IEC 60079-0, IEC 6007
IECEXITA14.0013X	IECEXITA14.0013X
TUEV14ATEX7606X	TUEV14ATEX7606X
RUC-DE.BE02.B.00173	RUC-DE.TB08.B.01838
15.40082.250	15.40082.250
II 2 G Ex d e IIC T* Gb	II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db	II 2 D Ex tb IIIC T*°C D
11 2 D EA (D 1110 1 0 DD	11 Z D LX 10 1116 1 G D
9510910000 - MF POK BIG	9510910000 - MF PO
03 103 10000 - IVIF FUIL DIG	33 1 03 1 0 0 0 0 1 VIF PU

250 / 120 / 103 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / graphite black
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
1,10,10
Pushbutton - green
Pushbutton - red
Pushbutton - green
3
3 NC contact, 3 NO contacts
Pushbutton
green, red
•
1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4
12 mm / 17 mm
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.TB08.B.01838
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex th IIIC T*°C Db
9510910000 - MF POK BIG

250 / 120 / 128 mm
Glass-fibre reinforced polyester with graphite mixture
untreated / graphite black
IP54, IP66
-55 °C+55 °C
7 joules in acc. with IEC 60079-0
V-0
Silicone (VMQ)
EPDM
Wall mounting
Available on request
Crosshead screws, stainless steel
2.5 Nm
2.5 mm ²
400 V
T4, T5, T6
14, 15, 10
D. III .:
Pushbutton - green
Pushbutton - red
EMERGENCY-STOP pushbutton with yellow, contrasting label
2 NO contacts, 2 NC contact, positive opening contacts
Pushbutton, EMERGENCY STOP pushbutton
green, red
1 x M25
2721990000 - VG M25 EXE 12-17 CR7J G4
12 mm / 17 mm
12 11111 / 17 111111
IEC 60079-0, IEC 60079-7, IEC 60079-31
IECEXITA14.0013X
TUEV14ATEX7606X
RUC-DE.BE02.B.00173
15.40082.250
II 2 G Ex d e IIC T* Gb
II 2 D Ex tb IIIC T*°C Db
9510910000 - MF POK BIG
OTTO TOO WILL ON DIG

Туре	Qty.	Order No.
KLIPPON CS POK 122209-2	1	1537140000

Type	uty.	Urder No.
KLIPPON CS POK 122209-2	1	1537150000

*Other temperature classes and connection values on request, or see "Notice to Installer".

Type KLIPPON CS POK 122209-2

2712630000

Order No. 1537170000

C

Klippon® CS POK 122209-4



Technical data

Enclosure Dimensions with installation (HxBxD) Material General characteristics Surface finish / Colour Protection class Ambient temperature Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements Type of mounting	250 / 120 / 112 mm Glass-fibre reinforced polyester with graphite mixture untreated / graphite black IP54, IP66 -55 °C+55 °C 4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
Material General characteristics Surface finish / Colour Protection class Ambient temperature Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements	Glass-fibre reinforced polyester with graphite mixture untreated / graphite black IP54, IP66 -55 °C+55 °C 4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
General characteristics Surface finish / Colour Protection class Ambient temperature Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements	untreated / graphite black IP54, IP66 -55 °C+55 °C 4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
Surface finish / Colour Protection class Ambient temperature Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements	IP54, IP66 -55 °C+55 °C 4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
Protection class Ambient temperature Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements	IP54, IP66 -55 °C+55 °C 4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
Ambient temperature Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements	-55 °C+55 °C 4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
Impact resistance UL 94 flammability rating Enclosure seal material Seal material of operating and display elements	4 joules in acc. with IEC 60079-0 V-0 Silicone (VMQ)
U. 94 flammability rating Enclosure seal material Seal material of operating and display elements	V-0 Silicone (VMQ)
Enclosure seal material Seal material of operating and display elements	Silicone (VMQ)
Seal material of operating and display elements	
. ,	
Type of mounting	EPDM
	Wall mounting
External earth	Available on request
Lid attachment	Crosshead screws, stainless steel
Torque for lid screws	2.5 Nm
Electrical properties*	
Wire connection cross section, finely stranded, max.	2.5 mm ²
Operating voltage, max.	250 V
Temperature class	T4, T5, T6
Enclosure assembly	
1 Position in enclosure	Light module - red
2 Position in enclosure	Pushbutton - red
3 Position in enclosure	Light module - green
4 Position in enclosure	Pushbutton - green
Contact design	2 NC contact, 2 NO contacts
Actuators	Pushbutton
Actuator colour	green, red
Illumination module colour	red, green
Illuminated button actuator colour	
Cable entries	
Drill holes side B	1 x M25
Cable gland	2721990000 - VG M25 EXE 12-17 CR7J G4
Clamping range min. / max.	12 mm / 17 mm
Approval and Marking	
Standards	IEC 60079-0, IEC 60079-7, IEC 60079-31
Certificate No. (IECEX)	IECEXITA14.0013X
Certificate No. (ATEX)	TUEV14ATEX7606X
Certificate No. (EAC)	RUC-DE.BE02.B.00173
Certificate No. (MARITREG)	15.40082.250
Marking	II 2 G Ex d e IIC T* Gb
indixing	II 2 D Ex tb IIIC T*°C Db
Accessories	
Mounting feet	9510910000 - MF POK BIG

Note

Ordering data

Туре	Qty.	Order No.
KLIPPON CS POK 122209-4	1	1537180000

to Installer".	Note *Other temperature classes
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TBF – Large polyester enclosures

The enclosures in the TBF range are made from sturdy glass-fibre reinforced polyester. They offer a universal solution for protection of components such as controllers, measuring instruments, valves and other devices. Suitable applications include photovoltaics and energy distribution.

Key features of this product range include:

- Available in 9 sizes, with grey or transparent lids
- The lid has nylon screws fitted
- Mounting holes are outside the sealed area
- Thread for fitting to terminal rails and mounting plates
- High Ingress Protection (IP 66 and IP 67)

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.





Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/TBF

Overview of enclosures

Ordering data

Oruering data			
Description	Dimensions in mm	Grey lid	Transparent lid
TBF 19/15	186 x 151 x 140	0360100000	0500500000
TBF 30/19	302 x 186 x 175	0360200000	0500600000
TBF 30/30	302 x 302 x 175	0360300000	0500700000
TBF 37/30	372 x 302 x 175	0360400000	0500800000
TBF 49/30	488 x 302 x 175 / 210	9502800000	9502840000
TBF 56/30	558 x 302 x 175 / 210	9502810000	9502850000
TBF 60/30	603 x 302 x 175 / 210	0360500000	0500900000
TBF 60/37	603 x 372 x 175 / 210	9502820000	9502860000
TBF 60/60	603 x 603 x 175 / 210	9502830000	9502870000
Note			

∴168 Weidmüller № 2712630000

Technical Overview

Features

- Extremely tough and impact resistant thanks to the glass-fibre reinforced polyester
 Extremely weather resistant
 High IP rating
 Approved according to the latest international standards

 Note

 We delive

We deliver enclosures through our assembly service which are ready to be connected and suitable for every application.

Technical data

	Grey lid	Transparent lid		
Enclosure material	Base and lid made of glass-fibre reinforced polyester (GRP)	Base made of glass-fibre reinforced polyester (GRP)		
		Lid is polycarbonate (PC)		
Surface finish	grey, similar to RAL 7035			
IP protection class	IP66 and IP67	IP 66		
Installation mounting	4 or 6 M4 clamping screws	4 or 6 M4 clamping screws		
Enclosure mounting	4 holes of 7 mm diameter or with external fastening lugs,	4 holes of 7 mm diameter or with external fastening lugs,		
	see accessories	see accessories		
Lid fixing	4, 6 or 8 captive cross-headed nylon screws	4, 6 or 8 captive cross-headed nylon screws		
Impact resistance	IK08 to IEC 62208	IK08 to IEC 62208		
	IK10 to EN/IEC 62262	IK10 to EN/IEC 62262		
Gasket material	Polyurethane	Polyurethane		
Temperature range	-50 °C+130 °C (permanent temperature max. 70°C)	-35 °C+120 °C (permanent temperature max. 70°C)		
Flammability characteristics	UL 94 HB	V2		
Toxicity	Free from halogens	Free from halogens		
Note	For details of power dissipation, please contact your Weidmüller re	For details of power dissipation, please contact your Weidmüller representative.		

Weidmüller ₹ C.169 2712630000

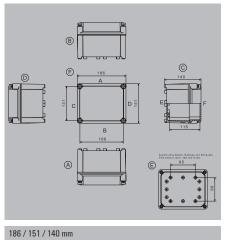
TBF 19/15

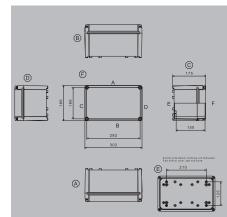
140 mm

TBF 30/19

175 mm







302 / 186 / 175 mm

Height / Width / Depth

Technical data

Toolillour uutu	
Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	
M12	
M16	
M20	
M25	
M32	
M40	
M50	
M63	
M75	
Note	

Ordering	data

Accessories

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

Mounting plates and fastening scr	ews	
	Steel sheet, zinc plated M4 screw	
External mounting lug, set of 4		
	Polyamide	
Earthing stud		
	Brass, M6	
Stainless steel 1.4404, M6		
	Brass, M10	
	Stainless steel 1.4404, M10	

Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1 4305 M12

vertical	horizontal
1x11	1x18
1x9	1x15
1x7	1x7
1x6	1x9
1x4	1x6
1x3	1x5
A/B	C/D
11	11
6	6
2	2
2	2
1	1
1	1

Туре	Qty.	Order No.
TBF 19/15/14 7035	1	0360100000
TBF 19/15/14 TRSP	1	0500500000

Туре	Qty.	Order No.
MP TBF 19/15	1	9502720000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

vertical	horizontal
2x22	1x44
2x18	1x37
2x14	2x14
2x11	1x22
2x8	1x16
2x7	1x14
A/B	C/D
28	53
14	30
11	22
6	10
3	5
3	3
1	3
1	2

Туре	Qty.	Order No.
TBF 30/19/18 7035	1	0360200000
TBF 30/19/18 TRSP	1	0500600000

Туре	Qty.	Order No.
MP TBF 30/19	1	3018950000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

horizontal 2x44

2x37

2x36

2x22

2x16

2x14

C/D

30

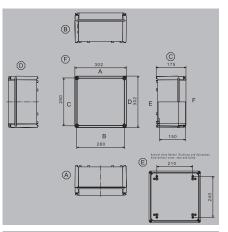
TBF 30/30

175 mm

TBF 37/30

175 mm





horizontal 1x44

1x37

2x28

1x22

1x16

1x14

C/D

44

24

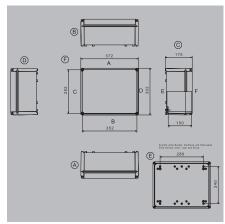
20

10

4

3

3



302 / 302 / 175 mm

vertical

2x44

2x37

2x28

2x22

2x16

2x14

A/B 44

24

20

10

4

3

3

372 / 302 / 175 mm

vertical

2x57

2x48

2x36

2x29

2x21

2x18

A/B

24

Height / Width / Depth

lechnical data
Assembly with terminal
2.5 mm ²
4 mm ²
6 mm ²
10 mm ²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20

duide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75
Note

Ordering	data

Enclosure with	ı grey lid
Enclosure with transp	arent lid
Note	

TBF 30/30/18 7035	
TBF 30/30/18 TRSP	

Туре	Qty.	Order No.
TBF 30/30/18 7035	1	0360300000
TBF 30/30/18 TRSP	1	0500700000

20	27
10	12
4	5
3	4
3	4
2	3

Туре	Qty.	Order No.
TBF 37/30/18 7035	1	0360400000
TBF 37/30/18 TRSP	1	0500800000

Accessories

Mounting plates and fastening screws			
	Steel sheet, zinc plated		
	M4 screw		
External mounting lug, set of 4			
	Polyamide		
Earthing stud			
	Brass, M6		
	Stainless steel 1.4404, M6		
	Brass, M10		
	Stainless steel 1.4404, M10		
Pressure compensation elements			
	Polyamida 6 M12		

Polyamide 6, M12	
Stainless steel 1.4305, M12	

Туре	Qty.	Order No.
MP TBF 30/30	1	9502730000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP TBF 37/30	1	9502740000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

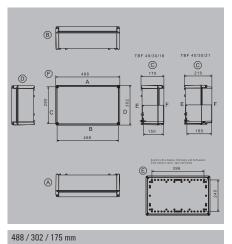
TBF 49/30

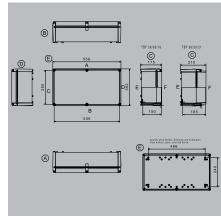
175 mm

TBF 56/30

175 mm







558 / 302 / 175 mm

Height / Width / Depth

Technical data

recillical data	
Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

O IIIIII-
10 mm ²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75

Note			
M75			
M63			
M50			

vertical	horizontal
2x80	3x44
2x67	3x37
2x51	2x51
2x41	3x22
2x29	3x16
2x25	3x14
A/B	C/D
44	42
24	42
20	36
10	18
4	7
3	5
3	5

vertical	horizontal
2x94	4x44
2x79	4x37
2x59	2x59
2x48	4x22
2x34	4x16
2x30	4x14
A/B	C/D
44	80
24	46
20	40
10	18
4	8
3	6
3	4
2	4

Ordering data

	Enclosure with grey lid Enclosure with transparent lid
Note	

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
TBF 49/30/18 7035	1	9502800000
TBF 49/30/21 TRSP	1	9502840000
Grey lid: 130 mm internal height, 175 mm to		ht

Туре	Qty.	Order No.
TBF 56/30/18 7035	1	9502810000
TBF 56/30/21 TRSP	1	9502850000
Grey lid: 130 mm internal height, 175 mm total Transparent lid: 160 mm internal height, 210 r		ht

Accessories

Mounting plates and fastening scre	ews
	Steel sheet, zinc plated
	M4 screw
External mounting lug, set of 4	
	Polyamide
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	

Polyamide 6, M12
Stainless steel 1.4305, M12

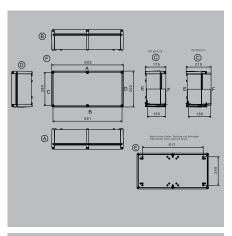
Туре	Qty.	Order No.
MP TBF 49/30	1	9500960000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP TBF 56/30	1	9500950000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

TBF 60/30

175 mm





Height / Width / Depth

603 / 302 / 175 mm

vertical 5x44

Technical data

Assembly with terminal
2.5 mm ²
4 mm ²
6 mm ²
10 mm ²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25

10 mm²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75

Ordering	data
----------	------

Note

Enclosure with grey lid
Enclosure with transparent lid

	Endodard with groy na
	Enclosure with transparent lid
Note	

5x37	1x85	
5x28	5x28	
5x22	1x51	
5x16	1x37	
5x14	1x32	
A/B	C/D	
44	88	

horizontal 1x101

A/B	C/D
44	88
24	48
20	40
10	20
4	8
3	6
3	6
2	Λ.

Туре	Qty.	Order No.
TBF 60/30/18 7035	1	0360500000
TBF 60/30/21 TRSP	1	0500900000
Grey lid: 130 mm internal height, 175 mm to		ht

Accessories

Mounting plates and fastening screws			
	Steel sheet, zinc plated		
	M4 screw		
External mounting lug, set of 4			
	Polyamide		
Earthing stud			
	Brass, M6		
	Stainless steel 1.4404, M6		
	Brass, M10		
	Stainless steel 1.4404, M10		
Pressure compensation elements			

Polyamide 6, M12 Stainless steel 1.4305, M12

Qty.	Order No.
1	9502750000
100	1567480000
1	0360800000
1	1277250000
1	1283430000
1	1277220000
1	1283440000
10	1868570000
10	1868550000
	1 100 1 1 1 1 1 1

Note

Weidmüller ₹ C.173 2712630000

TBF 60/37

175 mm

TBF 60/60

175 mm

horizontal 4x101

4x85

5x64

4x51

4x37

4x32

C/D

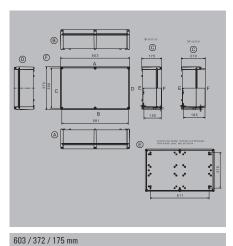
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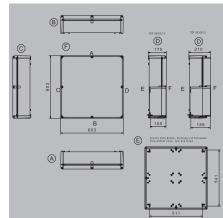
40

20

8 6







603 / 605 / 175 mm

vertical 5x101

5x85

5x64

5x51

5x37

5x32

A/B

48

40

20

8

6

Height / Width / Depth

Technical data

recillical data	
Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

10 mm ²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75

Ordering	data

Note

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

	Enclosure with grey lid
	Enclosure with transparent lid
e	

5x57	2x101
5x48	2x85
5x36	5x36
5x29	2x51
5x21	2x37
5x18	2x32
A/B	C/D
52	88
30	48
26	40
12	20
5	8
4	6
4	6
3	4

Type	Qtv.	Order No.
TBF 60/37/18 7035	1	9502820000
TBF 60/37/21 TRSP	1	9502860000
Grey lid: 130 mm internal height, 175 mm total height Transparent lid: 160 mm internal height, 210 mm total height		

Туре	Qty.	Order No.
TBF 60/60/18 7035	1	9502830000
TBF 60/60/21 TRSP	1	9502870000
Grey lid: 130 mm internal height, 175 mm total height Transparent lid: 160 mm internal height, 210 mm total height		

Accessories

Mounting plates and fastening scr	ews
	Steel sheet, zinc plated
	M4 screw
External mounting lug, set of 4	
	Polyamide
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	

Stalliess steel 1.4404, WHO	
D.I 0.1440	
Polyamide 6, M12	
Stainless steel 1.4305, M12	
•	

Туре	Qty.	Order No.
MP TBF 60/37	1	9502910000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP TBF 60/60	1	9502920000
FKSC M4X6 D8/SW2	100	1567480000
MF TBF	1	0360800000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Weidmüller ₹ C.175

MPC - Small polycarbonate enclosures

The polycarbonate enclosures of the MPC range are ideal for enclosing electrical, electro-mechanical and pneumatic devices as well as PCBs. The enclosures are used in situations with extreme mechanical and chemical conditions.

The characteristics of the enclosures are:

- Available in 17 sizes, with grey or transparent lids
- Lid fixing screws equipped with sealing holes
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails, mounting plates and PCBs

Weidmüller manufactures and supplies the enclosures to match customer specifications - fully fitted with terminals, electronics and cable glands.





Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/MPC

Overview of enclosures

Ordering data

Description	Dimensions in mm	Grey lid	Transparent lid
MPC 07/12/07	75 x 125 x 75	9535170000	9535180000
MPC 07/12/10	75 x 125 x 100	9535190000	9535200000
MPC 07/12/12	75 x 125 x 120	9535210000	9535220000
MPC 12/12/07	120 x 120 x 75	9535230000	9535240000
MPC 12/12/10	120 x 120 x 100	9535250000	9535260000
MPC 12/12/12	120 x 120 x 120	9535270000	9535280000
MPC 12/17/07	120 x 175 x 75	9535290000	9535300000
MPC 12/17/10	120 x 175 x 100	9535310000	9535320000
MPC 12/17/12	120 x 175 x 120	9535330000	9535340000
MPC 12/17/15	120 x 175 x 150	9535350000	9535360000
MPC 17/17/07	175 x 175 x 75	9535370000	9535380000
MPC 17/17/10	175 x 175 x 100	9535390000	9535400000
MPC 17/17/12	175 x 175 x 120	9535410000	
MPC 17/17/15	175 x 175 x 150	9535430000	9535440000
MPC 17/25/07	175 x 250 x 75	9535450000	
MPC 17/25/10	175 x 250 x 100	9535470000	9535480000
MPC 17/25/15	175 x 250 x150	9535490000	9535500000
Note			

∴176 Weidmüller ₹ 2712630000

Technical Overview

Features

- High thermal stability thanks to the polycarbonate
 Extremely tough and impact resistant thanks to the high fibre-glass content.
 Good IP rating, due to use of polyurethane (PUR) gasket material
 Approved according to the latest international standards

 Note

We deliver enclosures through our assembly service which are ready to be connected and suitable for every application.

Technical data

	Grey lid	Transparent lid	
Enclosure material	Base and lid made of glass-fibre reinforced polycarbonate	Base made of glass-fibre reinforced polycarbonate, ABS lid	
Cover	Grey	Transparent	
Surface finish	Grey, similar to RAL 7035	Grey, similar to RAL 7035	
IP protection class	IP 66, IP 67	IP 66, IP 67	
Installation mounting	Self-tapping screws	Self-tapping screws	
Enclosure mounting	4 holes (4.5 mm diameter) or external mounting brackets	4 holes (4.5 mm diameter) or external mounting brackets	
	(optional)	(optional)	
Lid fixing	4 cross-head screws (polyamide)	4 cross-head screws (polyamide)	
Gasket material	Polyurethane foam	Polyurethane foam	
Temperature range	-50 °C+100 °C	-40 °C+60 °C	
Impact resistance	IK 08	IK 06	
Note	For details of power dissipation, please contact your Weidmüller representative.		

Weidmüller **3**€ C.177 2712630000

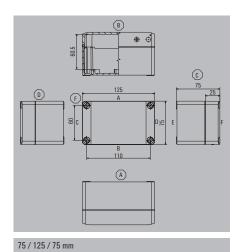
MPC 07/12/07

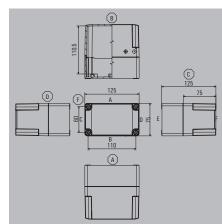
75 mm

MPC 07/12/12

125 mm







75 / 125 / 125 mm

Height / Width / Depth

Technical data

Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

35 mm ²		
Guide value for max. number of cable entries		
M12		
M16		
M20		
M25		
M32		
M40		
M50		
M63		
M75		
Note		
NOTO		

vertical	horizontal
1x13	1x13
1x11	1x11
1x8	1x8
1x6	1x6

A/B	C/D
1	4
1	3
1	3

vertical	horizontal
1x13	1x13
1x11	1x11
1x8	1x8
1x6	1x6
1x5	1x1
1x4	1x1
A/B	C/D
1	4
1	3
1	3

Ordering data

Enclosure with gre	y lid
Enclosure with transparen	t lid
ote	

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
MPC 07/12/07 7035	1	9535170000
MPC 07/12/07 TRSP	1	9535180000

Туре	Qty.	Order No.
MPC 07/12/12 7035	1	9535210000
MPC 07/12/12 TRSP	1	9535220000

Accessories

Mounting plates and fastening scre	ews
	Steel sheet, zinc plated
	M4 screw
Mounting rails, TS15x5	
	Vertical
	Horizontally
Mounting rails, TS35x7.5	
	Horizontally
	Vertical
External mounting lug, set of 4	
Hinge, set of 2	
_ ·	
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1.4305, M12
	•

Туре	Qty.	Order No.
MP MPC 07/12	10	9535540000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 ST MPC1217 VER	20	8000037598
TS15X5 ST MPC0712 VER	20	8000037599
TS 35x105_MPC_12	20	8000037603
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP MPC 07/12	10	9535540000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 MPC1217 VER	20	8000037598
TS15X5 MPC0712 VER	20	8000037599
TS 35x105_MPC_12	20	8000037603
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

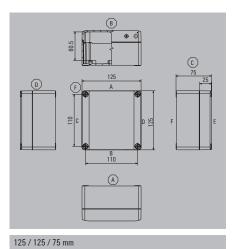
MPC 12/12/07

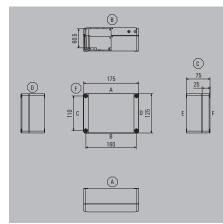
75 mm

MPC 12/17/07

75 mm







125 / 175 / 75 mm

Height / Width / Depth

Technical data

Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

35 mm²			
Guide value for max. number of cable entries			
	M12		
	M16		
	M20		
	M25		
	M32		
	M40		
	M50		
	M63		
	M75		

vertical	horizontal
1x13	1x13
1x11	1x11
1x8	1x8
1x6	1x6

A/B	C/D
4	4
3	3
3	
•	

vertical	horizontal
1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11

A/B	C/D
4	6
3	4
3	4

Ordering data

Note

Enclos	ure with grey lid
Enclosure wit	h transparent lid
Note	

	тур
Enclosure with grey lid	MPC
Enclosure with transparent lid	MPC
lote	

Туре	Qty.	Order No.
MPC 12/12/07 7035	1	9535230000
MPC 12/12/07 TRSP	1	9535240000

Туре	Qty.	Order No.
MPC 12/17/07 7035	1	9535290000
MPC 12/17/07 TRSP	1	9535300000

Accessories

Mounting plates and fastening screws			
	Steel sheet, zinc plated M4 screw		
Mounting rails, TS15x5			
	Vertical		
	Horizontally		
Mounting rails, TS35x7.5			
	Horizontally		
	Vertical		
External mounting lug, set of 4			
Hinge, set of 2			
Earthing stud			
	Brass, M6		
	Stainless steel 1.4404, M6		
	Brass, M10		
	Stainless steel 1.4404, M10		
Pressure compensation elements			
	Polyamide 6, M12		
	Stainless steel 1.4305, M12		

Туре	Qty.	Order No.
MP MPC 12/12	10	9535550000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 ST MPC1217 VER	20	8000037598
TS 35x105_MPC_12	20	8000037603
TS35 MPC 1717 VER	20	8000037605
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP MPC 12/17	1	9535560000
FKSC M4X6 D8/SW2	100	1567480000
TS 35x105_MPC_12	20	8000037603
TS35 MPC 1717 VER	20	8000037605
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

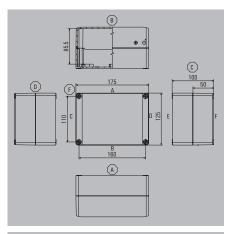
MPC 12/17/10

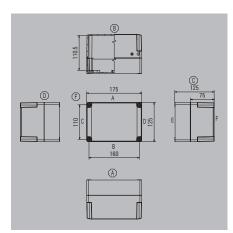
100 mm

MPC 12/17/12

125 mm







125 / 175 / 100 mm

125 / 175 / 125 mm

Height / Width / Depth Technical data

I O O I I I I O O I I I I I I I I I I I	
Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable e	ntries
M12	

10 mm ²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75
Note

vertical	horizontal
1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11
1x9	1x5
1x7	1x4
A/B	C/D
4	6
3	4
3	4

vertical	horizontal
1x13	1x22
1x11	1x19
1x8	1x8
1x6	1x11
1x5	1x5
1x4	1x4
A/B	C/D
4	6
3	4
3	4

Ordering data

Enclosure with gre	y lid
Enclosure with transparen	t lid
ote	

	Enclosure with grey lid Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
MPC 12/17/10 7035	1	9535310000
MPC 12/17/10 TRSP	1	9535320000

Туре	Qty.	Order No.
MPC 12/17/12 7035	1	9535330000
MPC 12/17/12 TRSP	1	9535340000

Accessories

Mounting plates and fastening scr	ews
	Steel sheet, zinc plated
	M4 screw
Mounting rails, TS15x5	
	Vertical
	Horizontally
Mounting rails, TS35x7.5	
	Horizontally
	Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1.4305, M12

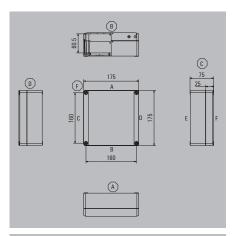
Туре	Qty.	Order No.
MP MPC 12/17	1	9535560000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 ST MPC1217 VER	20	8000037598
TS35 MPC 1717 VER	20	8000037605
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP MPC 12/17	1	9535560000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 MPC1217 VER	20	8000037598
TS35 MPC 1717 VER	20	8000037605
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

MPC 17/17/07

75 mm





Height / Width / Depth

175 / 175 / 75 mm

Technical data

Assembly with terminal		
2.5 mm ²		
4 mm ²		
6 mm ²		
10 mm ²		
16 mm ²		
35 mm ²		
Guide value for max, number of cable entries		

35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63

M75			
Note			

vertical	horizontal
1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11

A/B	C/D
6	6
4	4
4	

Ordering data

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
MPC 17/17/07 7035	1	9535370000
MPC 17/17/07 TRSP	1	9535380000

Accessories

Note

Mounting plates and fastening scr	ews
	Steel sheet, zinc plated M4 screw
Mounting rails, TS15x5	
	Vertical
	Horizontally
Mounting rails, TS35x7.5	
	Horizontally Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1.4305, M12

Туре	Qty.	Order No.
MP MPC 17/17	1	9535570000
FKSC M4X6 D8/SW2	100	1567480000
TS 35x105_MPC_12	20	8000037603
TS35 MPC 1717 VER	20	8000037605
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

2712630000 **Weidmüller № C.181**

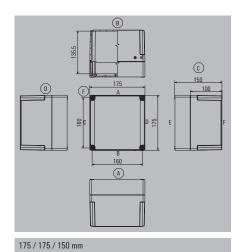
MPC 17/17/15

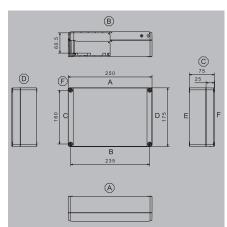
150 mm

MPC 17/25/07

75 mm







250 / 175 / 75 mm

vertical

Height / Width / Depth

Technical data

100mmour dutu		
Assembly with terminal		
2.5 mm ²		
4 mm ²		
6 mm ²		
10 mm ²		
16 mm ²		
35 mm ²		
Guide value for max. number of cable entries		

16 mm ²		
35 mm ²		
Guide value for max. number of cable entries		
M12		
M16		
M20		
M25		
M32		
M40		
M50		
M63		
M75		
Note		

vertical	horizontal
1x22	1x22
1x19	1x19
1x14	1x14
1x11	1x11
1x9	1x9
1x7	1x7
A/B	C/D
6	6
4	4
4	

A/B	C/D

horizontal

Ordering data

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
MPC 17/17/15 7035	1	9535430000
MPC 17/17/15 TRSP	4	9535440000

Туре	Qty.	Order No.
MPC 17/25/07 7035	1	9535450000

Accessories

Mounting plates and fastening scre	ews
	Steel sheet, zinc plated M4 screw
Mounting rails, TS15x5	
	Vertical
	Horizontally
Mounting rails, TS35x7.5	
	Horizontally
	Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1.4305, M12

Туре	Qty.	Order No.
MP MPC 17/17	1	9535570000
FKSC M4X6 D8/SW2	100	1567480000
TS35X7.5 ST MPC1725 VER	20	8000037600
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP MPC 17/25	1	9535580000
FKSC M4X6 D8/SW2	100	1567480000
TS35X7.5 MPC1725 HOR	20	8000037601
TS35X7.5 MPC1725 VER	20	8000037600
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

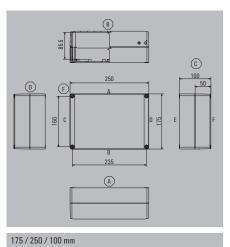
MPC 17/25/10

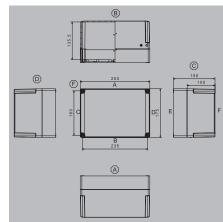
100 mm

MPC 17/25/15

150 mm







250 / 175 / 150 mm

Height / Width / Depth

Technical data

Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

16 mm ²					
35 mm^2					
Guide va	lue for max.	number of	cable entri	es	
M12					
M16					
M20					
M25					
M32					
M40					
M50					
M63					
M75					

vertical	horizontal
1x37	1x37
1x31	1x31
1x23	1x23
1x19	1x19
1x15	1x9
1x11	1x7
A/B	C/D
6	9
4	7
4	6

A/B	C/D
1	9
1	7
1	6

horizontal

Ordering data

Note

Enclos	ure with grey lid
Enclosure wit	h transparent lid
Note	

	Enclosure with grey lid Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
MPC 17/25/10 7035	1	9535470000
MPC 17/25/10 TRSP	1	9535480000

Туре	Qty.	Order No.
MPC 17/25/15 7035	1	9535490000
MPC 17/25/15 TRSP	1	9535500000

Accessories

Mounting plates and fastening scr	ews
	Steel sheet, zinc plated M4 screw
Mounting rails, TS15x5	
	Vertical
	Horizontally
Mounting rails, TS35x7.5	
	Horizontally
	Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1.4305, M12

Туре	Qty.	Order No.
MP MPC 17/25	1	9535580000
FKSC M4X6 D8/SW2	100	1567480000
TS35X7.5 ST MPC1725 HOR	20	8000037601
TS35X7.5 ST MPC1725 VER	20	8000037600
1000,77.0 01 1411 01720 VEIT		0000007000
MF MPC	1	9535600000
IVIFIVIFG		3333000000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP MPC 17/25	1	9535580000
FKSC M4X6 D8/SW2	100	1567480000
TS35X7.5 MPC1725 HOR	20	8000037601
TS35X7.5 MPC1725 VER	20	8000037600
MF MPC	1	9535600000
HG MPC	1	9535590000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

FPC – Medium-sized polycarbonate enclosures

The FPC enclosure range is the next generation of the MPC range. The enclosures have the same technical characteristics and are ideal for enclosing electrical, electro-mechanical and pneumatic devices and PCBs. The enclosures are used in situations where extreme mechanical and chemical conditions exist.

The characteristics of the enclosures are:

- · Available in 6 sizes, with grey or transparent lids
- Lid fixing screws equipped with sealing holes
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails, mounting plates and PCBs

Weidmüller manufactures and supplies the enclosures to match customer specifications – fully fitted with terminals, electronics and cable glands.





Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/FPC

Overview of enclosures

Ordering data

Oruerniy uata			
Description	Dimensions in mm	Grey lid	Transparent lid
FPC 20/20/13	200 x 200 x 132	9535690000	9535680000
FPC 20/30/13	200 x 300 x 132	9535710000	9535700000
FPC 20/40/13	200 x 400 x 132	9535730000	9535720000
FPC 30/30/13	300 x 300 x 132	9535750000	9535740000
FPC 30/40/13	300 x 400 x 132	9535770000	9535760000
FPC 40/60/13	400 x 600 x 132	9535810000	9535820000
Note			

Technical data

I GUIIII GAI GAIG		
	Grey lid	Transparent lid
Enclosure material	Base and lid made of glass-fibre reinforced polycarbonate	Base made of glass-fibre reinforced polycarbonate, ABS lid
Cover	Grey	Transparent
Surface finish	Grey, similar to RAL 7035	Grey, similar to RAL 7035
IP protection class	IP 66, IP 67	IP 66, IP 67
Installation mounting	Self-tapping screws	Self-tapping screws
Enclosure mounting	4 holes (7.5 mm diameter) or external mounting brackets (optional)	4 holes (7.5 mm diameter) or external mounting brackets (optional)
Lid fixing	4 or 6 cross-head screws (polyamide)	4 or 6 cross-head screws (polyamide)
Gasket material	Polyurethane foam	Polyurethane foam
Temperature range	-50 °C+100 °C	-40 °C+60 °C
Impact resistance	IK 08	IK 06
Note	For details of power dissipation, please contact your Weidmüller representative.	

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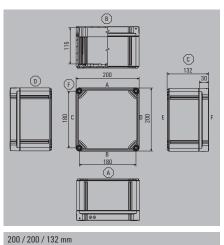
FPC 20/20/13

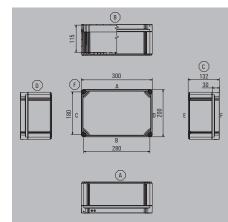
132 mm

FPC 20/30/13

132 mm







200 / 300 / 132 mm

Height / Width / Depth

Technical data

Assembly with terminal	
2.5 mm ²	
4 mm ²	
6 mm ²	
10 mm ²	
16 mm ²	
35 mm ²	
Guide value for max. number of cable entries	

10 mm ²
16 mm ²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75
Note

Ordering	data

	Enclosure with grey lid
	Enclosure with transparent lid
Note	

1811	
1x10	1x10
1x8	1x8
1x7	1x7
1x5	1x5
A/B	C/D
20	20
11	11
6	6
4	4
2	2
1	1
1	1
1	1

vertical 1x17 1x14 **horizontal** 1x17

1x14

Order No.

Туре	Qty.	Order No.
FPC 20/20/13 7035	1	9535690000
FPC 20/20/13 TRSP	1	9535680000

vertical	horizontal
2x20	1x40
2x17	1x33
2x13	2x13
2x10	1x20
2x8	1x17
2x6	1x12
A/B	C/D
38	20
21	11
12	6
8	4
3	2
3	1
2	1
2	1

1	9535710000
1	9535700000
	1

Accessories

Accessories	
Mounting plates and fastening scr	ews
	Steel sheet, zinc plated
	M4 screw
Mounting rails, TS15x5	
	Vertical
Mounting rails, TS35x7.5	
	Horizontally
	Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6
	Stainless steel 1.4404, M6
	Brass, M10
	Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12
	Stainless steel 1.4305, M12

IVIP FPG 20/20	I	9939920000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 ST FPC 20 VER	20	8000037604
TS35X7.5 ST FPC 20 HOR	20	8000037557
TS35X7.5 ST FPC 20 VER	20	8000037558
MF FPC	1	9536040000
HG FPC	1	9535990000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Type Oty.	Ord	ler No.
MP FPC 20/30 1	953	35930000
FKSC M4X6 D8/SW2 100	150	67480000
TS15X5 FPC 20 VER 20	800	00037604
TS35X7.5 FPC 30 HOR 20	800	00037559
TS35X7.5 FPC 20 VER 20	800	00037558
MF FPC 1	953	36040000
HG FPC 1	953	35990000
PEBZ M6 BR SET 1	127	77250000
PEBZ M6 S4 SET 1	128	33430000
PEBZ M10 BR SET 1	127	77220000
PEBZ M10 S4 SET 1	128	33440000
DAE M12 PA LONG 10	180	68570000
DAE M12 SS 10	180	68550000

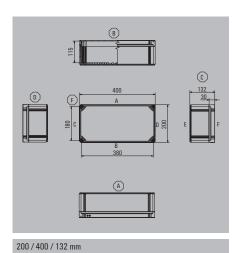
FPC 20/40/13

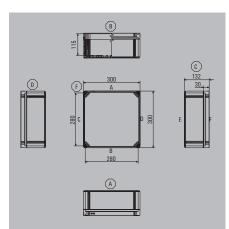
132 mm

FPC 30/30/13

132 mm







300 / 300 / 132 mm

Height / Width / Depth

Technical data

i Goillioar uata		
Assembly with terminal		
2.5 mm ²		
4 mm ²		
6 mm ²		
10 mm ²		
16 mm ²		
35 mm ²		
Guide value for max. number of cable entries		
M12		

10 mm²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75
Note
More

vertical	horizontal
3x20	1x59
3x17	1x49
3x13	3x13
3x10	1x30
3x8	1x25
3x6	1x19
A/B	C/D
56	20
30	11
18	6
12	4
5	2
4	1
4	1
3	1

vertical	horizontal
2x40	1x40
2x33	1x33
2x25	2x25
2x20	1x20
2x17	1x17
2x12	1x12
A/B	C/D
38	38
21	21
12	12
8	8
3	3
3	3
2	2
2	2

Ordering data

Enclosure with gre	y lid
Enclosure with transparen	t lid
ote	

	Enclosure with grey lid Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
FPC 20/40/13 7035	1	9535730000
FPC 20/40/13 TRSP	1	9535720000

Туре	Qty.	Order No.
FPC 30/30/13 7035	1	9535750000
FPC 30/30/13 TRSP	1	9535740000

Mounting plates and fastening scr	ews
mountaing places and rastoning sor	Steel sheet, zinc plated M4 screw
Mounting rails, TS15x5	
	Vertical
Mounting rails, TS35x7.5	
	Horizontally Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6 Stainless steel 1.4404, M6 Brass, M10 Stainless steel 1.4404, M10
Pressure compensation elements	
	Polyamide 6, M12

ts	
	Polyamide 6, M12
	Stainless steel 1.4305, M12

Туре	Qty.	Order No.
MP FPC 20/40	1	9535940000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 ST FPC 20 VER	20	8000037604
TS35X7.5 ST FPC 40 HOR	20	8000037560
TS35X7.5 ST FPC 20 VER	20	8000037558
MF FPC	1	9536040000
HG FPC	1	9535990000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	Qty.	Order No.
MP FPC 30/30	1	9535950000
FKSC M4X6 D8/SW2	100	1567480000
TS15X5 FPC 20 VER	20	8000037604
TS35X7.5 FPC 40 HOR	20	8000037560
TS35X7.5 FPC 20 VER	20	8000037558
MF FPC	1	9536040000
HG FPC	1	9535990000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

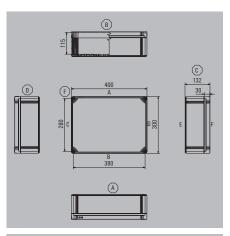
FPC 30/40/13

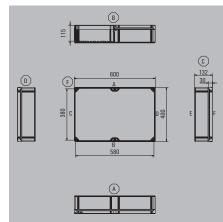
132 mm

FPC 40/60/13

132 mm







400 / 600 / 132 mm

vertical

Height / Width / Depth

Technical data

Assembly with	ı terminal	
2.5 mm ²		
4 mm ²		
6 mm ²		
10 mm ²		
16 mm ²		
35 mm ²		
Guide value for max. number of cable entries		
M12		

10 mm²
35 mm ²
Guide value for max. number of cable entries
M12
M16
M20
M25
M32
M40
M50
M63
M75

ı	Dt	е	
п			
ш			

300 / 400 / 132 mm

vertical	horizontal
3x40	1x59
3x33	1x49
3x25	3x25
3x20	1x30
3x17	1x25
3x12	1x19
A/B	C/D
56	38
30	21
18	12
12	8
5	3
4	3
4	2
3	2

5x59	2x97
5x49	2x81
5x37	5x37
5x30	2x49
5x25	2x41
5x19	2x31
A/B	C/D
76	56
42	30
24	18
16	12
6	5
6	4
4	4
4	3

horizontal

Ordering data

Enclosure with gre	ey lid
Enclosure with transpare	nt lid
ote	

	Enclosure with grey na
	Enclosure with transparent lid
Note	

Туре	Qty.	Order No.
FPC 30/40/13 7035	1	9535770000
FPC 30/40/13 TRSP	1	9535760000

Туре	Qty.	Order No.
FPC 40/60/13 7035	1	9535810000
FPC 40/60/13 TRSP	1	9535820000

Accessories

Accessories	
Mounting plates and fastening scr	ews
	Steel sheet, zinc plated M4 screw
Mounting rails, TS15x5	
	Vertical
Mounting rails, TS35x7.5	
	Horizontally Vertical
External mounting lug, set of 4	
Hinge, set of 2	
Earthing stud	
	Brass, M6 Stainless steel 1.4404, M6 Brass, M10 Stainless steel 1.4404, M10
Pressure compensation elements	
•	Polyamida 6 M12

	Polyamide 6, M12		
Stainl	ess steel 1.4305, M12		

Time	04	Order No.
Туре	Qty.	
MP FPC 30/40	111	9535960000
FKSC M4X6 D8/SW2	100	1567480000
TS35X7.5 ST FPC 40 HOR	20	8000037560
TS35X7.5 ST FPC 30 VER	20	8000037561
MF FPC	1	9536040000
HG FPC	1	9535990000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
	·	
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000

Туре	ty.	Order No.
MP FPC 40/60	1	9535980000
FKSC M4X6 D8/SW2	00	1567480000
TS35X7.5 FPC 60 HOR	20	8000037563
TS35X7.5 FPC 40 VER	20	8000037562
MF FPC	1	9536040000
HG FPC	1	9535990000
PEBZ M6 BR SET	1	1277250000
PEBZ M6 S4 SET	1	1283430000
PEBZ M10 BR SET	1	1277220000
PEBZ M10 S4 SET	1	1283440000
DAE M12 PA LONG	10	1868570000
DAE M12 SS	10	1868550000
	-	

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D.61

Cable entries

Cable entries	Introduction	D.2
	Overview	D.4
	Standard cable glands - Plastic	D.6
	Standard cable glands - Brass	D.8
	EMC cable glands	D.11
	Standard cable glands - Stainless steel	D.13
	Standard cable glands	D.15
	Klippon® Cable Glands	D.16
	Ex-cable glands - Brass	D.27
	Ex-cable glands - Plastic	D.36
	Accessories - Lock nuts	D.40
	Accessories - Flat IP washer	D.45
	Accessories - Earthing rings	D.49
	Accessories - Shrouds	D.50
	Accessories - Washers	D.52
	Blanking plugs	D.53
	Ex-Blanking plugs	D.55
	Compensating elements	D.59

Ex-Compensating elements

2712630000 **Weidmüller № D.1**

Cable entries

Weidmüller offers a variety of add-on components for a multitude of purposes and applications in addition to its extensive Klippon® Protect range.

In addition to brass, plastic and stainless steel cable glands, there are also sealing plugs, pressure-equalising elements, adapters and relevant accessories – such as lock nuts, flat gaskets, flat washers and earthing rings – available.

To match the assembled enclosures, the cable glands meet the requirements of IP protection classes IP54 to IP69K and can be used as required in standard industrial applications, EMC applications or even explosive risk zones, plus they comply with the approvals required for this purpose.

The Ex-certified Klippon® cable glands also allow for the connection of cables and conductors with different reinforcements with and without lead sheathing, as well as the connection of steel wire and steel tape cables. They can withstand temperatures ranging from -60°C to +180°C.

Depending on the cable gland variants and application, the cable glands, sealing plugs, adaptors, pressure-equalising elements, and accessories are manufactured and certified according to the following standards:

- IEC/EN 62444 (Construction and design)
- IEC/EN 60529 (IP protection class testing)
- IEC/EN 60079-0 (General Ex requirements)
- IEC/EN 60079-1 (Ex d Ex standard)
- IEC/EN 60079-7 (Ex e Ex standard)
- IEC/EN 60079-11 (Ex i Ex standard)
- IEC/EN 60423 (Metric thread)
- DIN 40430 (PG and NPT threads)

The range of cable glands, sealing plugs and pressure-equalising elements is available in metric (M) and high-strength (PG) threads in sizes ranging from M12 to M75 and PG7 to PG48. When choosing cable glands and sealing plugs, please refer to the table with the sealing characteristics of the O-rings, flat gaskets and seal inserts. The O-Ring or flat gasket is always intended for sealing the connecting thread on an enclosure, for example, while the seal insert of each cable gland is intended for actually sealing and crushing the connecting cable.



Weidmüller ₹ 2712630000

You should always observe the maximum drill-hole diameter when installing a cable gland, sealing plug, adaptor, or pressure compensation element (e.g. onto the gland plate of an enclosure). These must not exceed the following specified maximum values / tolerances so that the protection degree of the whole enclosure can be guaranteed. Please also refer to the instruction manual; deviating information is possible.

Through-hole information

M thread	Through-hole, in mm
M 12	12.2
M 16	16.2
M 20	20.2
M 25	25.2
M 32	32.2
M 40	40.2
M 50	50.2
M 63	63.2
M 75	75.2
PG thread	Through-hole, in mm
PG 7	12.4
PG 9	15.1
PG 11	18.5
PG 13.5	20.4
PG 16	22.5
PG 21	28.3
PG 29	37.4
PG 36	47.2
PG 42	54.2
PG 48	59.5

Overview of sealing materials for O-rings, flat gaskets as well as seal inserts

Abbreviation	Material	Trade name	Temperature range	Chemical resistance	Fire resistant	Shore	Free from halogens	UV resistance
TPE	Thermo-plastic elastomer	Santroprene	-40 °C to +130 °C	Hydrocarbons, oils, acids	UL94, HB	64	Yes	very good
CR	Chloroprene rubber	Neoprene	-40 °C to +130 °C	Mineral oils, greases, fuels	very good	40 - 90	No	very good
NBR	Nitrile rubber	Perbunan, Nitrile	-40 °C to +130 °C	Hydrocarbons, oils, acids,	weak	40 - 90	No	good
				aliphatic solvents, greases, fuels				
EPDM	Ethylene-propylene-diene	Keltan	-50 °C to +130 °C	Weather-, grease-, mineral oil-, chlorine-	weak	20 - 90		very good
	rubber			,and ozone resistant, hydrocarbons				
FPM	Fluoro-rubber	Viton	-25 °C to +200 °C	ozone, oxygen, mineral oils,	weak	65 - 95		good
				synthetic hydraulic fluids, fuels,				
				aromatics, many organic solvents				
				and chemicals				

Note: The data refer only to the sealing material, not to the entire component.

Abbreviations – technical data

A, L	Length in mm
L1	Length of thread in mm
D	Diameter in mm
S	Thickness in mm
S1,S2	Depth in mm
SW, SW1, SW2	Distance across flats in mm
KB	Clamping range in mm
KB ZE	Clamping range strain relief in mm
Thread	External thread
SUHB	Shroud / Protective cap
DR	Tightening torque in Nm
HM	Cap nut / pressure screw
Qty.	Packing unit in pieces

Product designation

VG	Cable gland
VP	Sealing plugs
KDSU	Klippon® Double Seal Universal
KDSW	Klippon [®] Double Seal for SWA
KDSX	Klippon® Double Seal for SWB/STA
KSG	Klippon® Standard Gland
KUB	Klippon [®] Universal Barrier
KSPA	Klippon [®] Stopping Plug Type A
KSPMH	Klippon® Stopping Plug Mushroom
KSWN	Klippon [®] Sealing Washer Nylon
KSWF	Klippon® Sealing Washer Red Fibre
KSP	Klippon® Shroud PVC/Silicone
SKMU	Hexagon nut
DAE	Pressure compensation element
BD	Breather drain (compensation element)
SZS	Serrated Star Washers
ZE	Strain relief
EMV	Electromagnetic compatibility
EA	Earthing ring
SKS	Spiral kink protection
GWDR	Threaded sealing ring or IP washer

2712630000 **Weidmüller № D.3**

Glands and accessories

The tables below provide an overview of the Weidmüller cable glands and the recommended accessories.

Standard cable glands

			Approval	s			Th	read sealing ri	ngs		Lock	SW SKMUMS SKMUEN		
Material/Ty	уре	IP class of	protection	Ex	EMC	Armouring	CSM	CR	0-Ring	grey	black	brass	MS EMC	
		without seal	with seal				GWDR PO	GWDRNP		SKMUK GR	SKMUKSW	SKMUMS	SKMU EMV	
Plastic														
ē	VG K68	IP68 / 5 bar								•				
Cillia	VG K68 SKS	IP68 / 5 bar								•				
Nickel-plate	ed brass													
8	VG MS68		IP54,IP66, IP68 / 5 bar, IP69k						included			•		
9	VGMMS68BG		IP68						included			•		
	VG MS54-ZE	IP54										•		
9	VG EMV-4		IP66, IP68 / 5 bar, IP69k		•				included				•	
3	VGMEMCSET		IP68		•				included				•	
Stainless s	teel													
	VGSS68		IP54,IP66, IP68 / 5 bar, IP69k						included			•		
9	VGMSS68BG		IP68						included			•		

Cable glands HQ

Canie Aigii	นจ เเน												
			Approva	ls			Th	read sealing ri	ngs		Lock	nuts	
Material/Typ	ne	IP class of	protection	Ex	EMC	Armouring	CSM	CR	0-Ring	grey	black	brass	MS EMC
		without seal	with seal				GWDR PO	GWDRNP		SKMUK GR	SKMUK SW	SKMUMS	SKMU EMV
Nickel-plated	l brass, Ex												
0	VG K68	IP65											
Brass Ex													
0	VG MS68	IP65											
0	VG EMV68	IP65			•								

Cable glands Ex

			Approval	ls			Th	read sealing ri	ngs		Lock	nuts	
Material/1	Гуре	IP class of without seal	protection with seal	Ex	EMC	Armouring	KSWN	CR GWDRNP	O-Ring	grey SKMUK GR	black SKIMUK SW	brass SKMUMS	MS EMC SKMU EMV
Nickel-plat	ted brass, Ex												
9	KDSUBN/BS O NII		IP66, IP68 / 2.5 bar	Ex e/d		•			included			•	
	KUBBS O NI *		IP66, IP68 / 10 bar	Ex e/d		•			included			•	
	KDSWBN/BS O/L NI	IP54	IP54, IP66, IP68 / 2.5 bar	Ex e/d		•	optional					•	
	KDSXBS O NI	IP54	IP54, IP66, IP68 / 2.5 bar	Ex e/d		•	optional					•	
	KSGBN/BS O NI		IP66, IP68 / 2.5 bar	Ex e/d					included			•	
Plastic Ex													
	VGEXI7J		IP54, IP66, IP68 / 5 bar	Ex e					included		•		
	VGEXE7J		IP54, IP66, IP68 / 5 bar	Exi					included		•		
Note:	* Available on request. Ex - Stainless steel glands	on request											

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Adaptor

		Аррг	ovals	Th	read sealing ri	ngs		Lock	nuts	
Material/Ty	pe	IP class of protection with seal	Ex	GWDR PO	CR GWDRNP	0-Ring	grey SKMUK GR	black SKMUK SW	brass SKMUMS	MS EMC SKMU EMV
Plastic										
₩.	DAE M12 PA	IP66, IP68, IP69K				included				
7	DAE M12 PA long	IP66, IP68, IP69K				included		•		
Stainless st	eel									
	DAE M12 SS	IP66, IP68, IP69K				included			•	•
Brass Ex										
-	KLIPPON BDX B	IP66	•			included				
Stainless st	eel Ex									
	KLIPPON BDX S	IP66	•			included				

Stopping plugs

			Approvals		Th	read sealing ri	ngs		Lock	nuts	
Material/Ty	ре	IP class of without seal	protection with seal	Ex	GWDR PO	CR GWDRNR	0-Ring	grey SKMUK GR	black SKMUK SW	brass SKMUMS	MS EMC SKMU EMV
Plastic											
9	VP K54	IP54	IP65					•			
Nickel-plate	d brass										
2	VP MS65		IP68				included			•	
Stainless st	eel										
	KSPMHSSC		IP66, IP68	Ex e/d			included			•	
Plastic Ex											
8	VPEx SW	IP54, IP66	IP66, IP68	Ex e		optional			•		
Nickel-plate	d brass, Ex										
69	VPEx MS		IP54, IP64, IP68	Ex e/d			included			•	
Brass Ex											
	KSPMHBSC		IP66, IP68	Ex e/d			included			•	

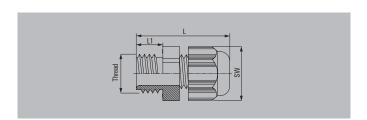
Weidmüller 🐔 🛛 D.5

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Cable glands – Plastic – IP68



Cable gland made of plastic with integrated strain relief for industrial applications where IP67 or IP68 protection is required. Tested and approved according to EN 62444 and UL514B.



Technical data

Material / Colour	Polyamide 6 / Light Grey / RAL 7035	
Seal insert	CR	
Temperature range	-40 °C100 °C	
Protection class	IP67, IP68 - 5 bar (30 min.)	
Flammability rating	V-2	
Note	Version with moulded sealing lip. Length Lyanes depending on the cable diameter used	

Ordering data

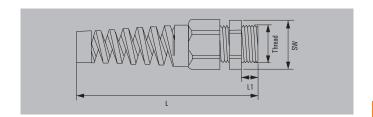
Туре	Thread	KB	L/L1	SW	Qty.	Order No.
metric						
VG M12-1/K68	M 12	3-6.5	30.5 / 8	15	100	177228000
VG M16-1/K68	M 16	4-8	34.5 / 8	19	50	190986000
VG M16 - K 68	M 16	5-10	40 / 10	22	50	177229000
VG M20-1/K68	M 20	6-12	39.5 / 10	24	50	177230000
VG M25-1/K68	M 25	11-17	43 / 8	29	50	190987000
/G M25 - K 68	M 25	13-18	47 / 10	33	25	177231000
/G M32-1/K68	M 32	15-21	52 / 10	36	20	190988000
/G M32 - K 68	M 32	18-25	56 / 15	42	20	177232000
/G M40-1/K68	M 40	19-28	57 / 10	46	10	190989000
/G M40 - K 68	M 40	22-32	69.5 / 18	53	10	177233000
/G M50 - K 68	M 50	30-38	71 / 18	60	10	177234000
/G M63-1/K68	M 63	34-44	71 / 18	65	10	177235000
PG						
/G 7-K68	PG 7	3-6.5	30/8	15	100	156897000
/G 9-K68	PG 9	4-8	34.5 / 8	19	50	156898000
/G 11-K68	PG 11	5-10	37 / 8	22	50	156899000
/G 13.5-K68	PG 13.5	6-12	39 / 10	24	50	156900000
/G 16-K68	PG 16	10-14	41 / 10	27	50	156901000
/G 21-K68	PG 21	13-18	48 / 11	33	25	156902000
/G 29-K68	PG 29	18-25	52 / 11	42	20	156903000
/G 36-K68	PG 36	22-32	64.5 / 13	53	10	156904000
/G 42-K68	PG 42	30-38	66.5 / 13	60	10	156905000
/G 48-K68	PG 48	34-44	67.5 / 14	65	10	171877000
Note	Long-thread version on request, halogen-fre Installation specifications and tightening to For further information please use our onlin	rques can be found in the instal	lation instructions. er.com.			

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Cable glands – Plastic – SKS



Cable gland made of plastic with spiral bending protection and integrated strain relief, specially suited for moving connections. It prevents cables from bending at acute angles.



Technical data

Material / Colour	Polyamide 6 / Light Grey / RAL 7035	
Seal insert	CR	
Temperature range	-20 °C100 °C	
Protection class	IP68 - 5 bar (30 min.)	
Flammability rating	V-2	
Note	Version with moulded sealing lip Length 1 varies depending on the cable diameter used	

Ordering data

or a or mg a a ca						
Туре	Thread	КВ	L/L1	SW	Qty.	Order No.
metric						
VG M12-K68 SKS	M 12	3-6.5	63.5 / 8	15	100	1776700000
VG M16-K68 SKS	M 16	5-10	94.5 / 15	22	50	1776710000
VG M20-K68 SKS 6-12	M 20	6-12	101.5 / 11	24	50	1778860000
VG M20-K68 SKS 10-14	M 20	10-14	116 / 15	27	25	1776720000
VG M25-K68 SKS	M 25	13-18	132.5 / 15	33	25	1776730000
PG						
VG 7-K68 SKS	PG 7	3-6.5	63 / 8	15	50	1720470000
VG 9-K68 SKS	PG 9	4-8	74 / 8	19	50	1720480000
VG 11-K68 SKS	PG 11	5-10	87 / 8	22	100	1720490000
VG 13.5-K68 SKS	PG 13.5	6-12	98/9	24	50	1720500000
VG 16-K68 SKS	PG 16	10-14	112 / 10	27	25	1720510000
VG 21-K68 SKS	PG 21	13-18	130 / 11	33	20	1720520000

Note

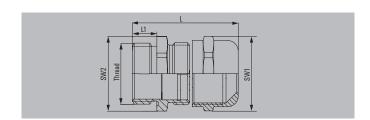
Long-thread version on request, halogen-free without sealing ring. Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Weidmüller **₹** D.7 2712630000

Cable glands – Brass – IP68



Cable gland made of brass for industrial applications where IP68 or IP69K protection is required



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	-40 °C100 °C
Clamp insert	Polyamide
Protection degree with GWDR	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
Ness	Length "I " varies depending on the cable diameter used: IRGV protection applies to all matric cable glands; the following thread aires are evaluated from IRGV: DC20_DC26_DC42 and DC40

Note Length "L" varies depending on the cable diameter used; IP69K protection applies to all metric cable glands; the following thread sizes are excluded from IP69K: PG29, PG36, PG42 and PG48.

Ordering data

Туре	Thread	KB	L/L1	SW1/SW2	Qty.	Order No.
metric						
VG M12 - MS 68	M 12	3-6.5	28 / 6	14 / 14	50	1772200000
VG M16 - MS 68	M 16	4-8	30 / 7	17 / 18	50	1772210000
VG M16-1/MS68	M 16	5-10	35.5 / 7	20 / 20	50	1909910000
VG M20 - MS 68	M 20	6-12	34.5 / 8	22 / 22	50	1772220000
VG M25 - MS 68	M 25	10-14	35.7 / 8	24 / 27	25	1772230000
VG M25-1/MS68	M 25	11-17	40.5 / 8	27 / 27	25	1909920000
VG M32 - MS 68	M 32	13-18	42 / 9	30 / 34	10	1772240000
VG M32-1/MS68	M 32	15-21	44 / 8	34 / 34	10	1909930000
VG M40 - MS 68	M 40	18-25	47 / 9	40 / 43	10	1772250000
VG M40-1/MS68	M 40	19-28	52.5 / 9	43 / 43	10	1909940000
VG M50 - MS 68	M 50	22-32	57 / 9	50 / 55	5	1772260000
VG M50-1/MS68	M 50	27-38	61/9	58 / 58	5	1909950000
VG M63 - MS 68	M 63	34-44	67 / 14	64 / 68	5	1772270000
PG (IP69K)						
VG 7-MS68	PG 7	3-6.5	28 / 6	14 / 14	50	1569060000
VG 9-MS68	PG 9	4-8	29.5 / 6	17 / 17	50	1569070000
VG 11-MS68	PG 11	5-10	32 / 6	20 / 20	50	1569080000
VG 13,5-MS68	PG 13.5	6-12	31 / 6.5	22 / 22	50	1569090000
VG 16-MS68	PG 16	10-14	34.5 / 6.5	24 / 24	25	1569100000
VG 21-MS68	PG 21	13-18	39.7 / 7.2	30 / 30	25	1569110000
PG (IP68)						
VG 29-MS68	PG 29	18-25	46.5 / 8	40 / 40	10	1569120000
VG 36-MS68	PG 36	22-32	57 / 9	50 / 50	5	1569130000
VG 42-MS68	PG 42	30-38	60.5 / 12	58 / 58	5	1569140000
VG 48-MS68	PG 48	34-44	69 / 14	64 / 64	5	1718790000
Note	Long-thread version on request VDE for metric version Installation specifications and tightenin For further information please use our o					

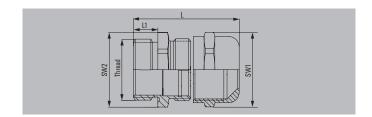
D.8 Weidmüller ₹ 2712630000

Cable glands – Brass – IP68





Cable gland made of brass with spherical sealing insert which squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material conforms to the requirements of EN 45545.



Technical data

Material	Brass, nickel-plated	
0-Ring / Seal insert	NBR / T80s	
O-Ring / Seal insert Temperature range	-40 °C 130 °C	
Protection class	IP68 - 15 bar	
Note		

Ordering data

Туре	Thread	KB	L/L1	SW	Qty.	Order No.
VGM25-MS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	50	1193600000
VGM32-MS68 15-25 BG	M 32	15-25	40 / 8	36	25	1193610000
VGM40-MS68 20-32 BG	M 40	20-32	43 / 8	45	10	1193620000
VGM40/1-MS68 20-32 BG	M 40	20-32	82 / 8	45	10	1205890000

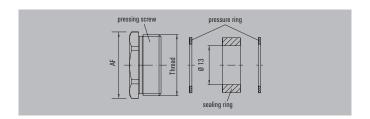
When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle. Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com Note

Weidmüller ₹ D.9

Clamping screws - Brass - IP65



The special cable glands (clamping screws) are designed for use in HDC RockStar® base enclosures. The seal insert used contains several removable or separable inlets.



Technical data

Clamping screw material	Brass, nickel-plated	
Sealing ring material	SBR/NBR	
Pressure ring material	Polyamide	
Temperature range	-20 °C60 °C	
Protection class	IP65	

Note

Ordering data

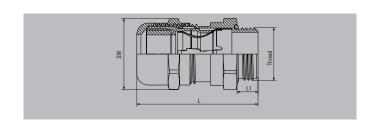
Туре	Thread	Inserts in mm	SW	Qty.	Order No.
metric					
VG H M20 MS	M 20	4/7/10/13	20	50	192172000
VG H M25 MS	M 25	8.5 / 11.5 / 14.5 / 18	25	25	192174000
VG H M32 MS	M 32	16 / 19 / 22 / 25	32	20	192176000
VG H M40 MS	M 40	23 / 26 / 29 / 32	40	10	192177000
PG					
KV 11-M	PG 11	7.5 / 10 / 12.5	10	10	165639000
KV 13-M	PG 13	7.5 / 10 / 12.5	10	10	165640000
KV 16-M	PG 16	7.5 / 10 / 12.5 / 15	10	10	165641000
KV 21-M	PG 21	10 / 13 / 16 / 19	10	10	165642000
KV 29-M	PG 29	18 / 21 / 24 / 27	10	10	165643000
Note					

0.10 Weidmüller ₹ 2712630000

Cable glands - Brass - EMC-4



 ${\bf Cable\ gland\ made\ of\ brass\ with\ {\bf EMC\ contact\ system\ for\ the\ particularly\ time-saving}}$ installation of shielded cables. It is characterised by the following features: very low installation effort, vibration-resistant and patented active contact system.



Technical data

Material	Brass, nickel-plated	
O-Ring / Seal insert	NBR / CR	
Temperature range	-40 °C100 °C	
Protection class	IP66, IP68 - 5 bar (30 min.), IP69K	
Clamp insert	Polyamide	
Note		

Ordering data

Туре	Thread	KB	Shield Ø	L/L1	SW	Qty.	Order No.
VG M12 EMV-4 MS 3-6.5	M 12	3-6.5	2.00-5.00	34 / 6	14	50	2435070000
VG M16 EMV-4 MS 5-10	M 16	5-10	3.50-8.00	39 / 6	20	50	2435140000
VG M20 EMV-4 MS 6-12	M 20	6-12	4.50-10.00	38 / 6	22	50	2435150000
VG M20 EMV-4 MS 8-14	M 20	7.5-14	5.50-11.50	48 / 8	24	50	2435160000
VG M25 EMV-4 MS 10-18	M 25	10-18	7.00-14.00	51/8	30	25	2435170000
VG M32 EMV-4 MS 16-25	M 32	16-25	12.00-20.00	62 / 9	40	10	2435180000
VG M40 EMV-4 MS 22-32	M 40	22-32	18.00-27.00	69.5 / 9	50	5	2435190000
VG M50 EMV-4 MS 30-38	M 50	30-38	26.00-34.00	62 / 9	58	5	2435200000
VG M63 EMV-4 MS 34-44	M 63	34-44	30.00-40.00	73 / 14	68	5	2435210000
Note	Installation specifications and tightening torques can be found in the installation instructions.						

Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

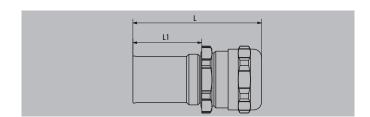
Weidmüller ₹ D.11 2712630000

Cable glands – Brass – EMC SET





Cable gland made of brass for internal shield connection or potential equalisation; easy-to-use, permanent, secure shield connection. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.



Technical data

Material	Brass, nickel-plated	
O-Ring / Seal insert	NBR / T80s	
Temperature range	-40 °C 130 °C	
Protection class	IP68 - 15 bar	
NO. 1		

Note

Ordering data

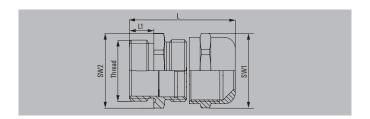
Туре	Thread	КВ	L/L1	SW	Qty.	Order No.
VGM25-MS68 EMC 11-20SET	M 25	11-20	63.5 / 34	30	1	1463720000
VGM32-MS68 EMC 15-25SET	M 32	15-25	66.5 / 34	36	1	1463730000
Note	Installation specifications and tightening torques can be found in the insta For further information please use our online catalogue: catalog.weidmuel					

.**12 Weidmüller** ₹ 2712630000

Cable glands - Stainless steel - IP68



Cable gland made of stainless steel for standard industrial applications that require a high degree of protection (IP68 or IP69K). These cable glands - with their resistance to impact and sea water - are also suitable for use in applications under extreme environmental conditions.



Technical data

Material	Stainless steel 1.4305 (303)
O-Ring / Seal insert	NBR / CR
Temperature range	-40 °C100 °C
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.), IP69K
Note	

Ordering data

Туре	1	hread	КВ	L/L1	SW1/SW2	Qty.	Order No.
metric							
VGM12-SS 68 KB 3-6.5		M 12	3-6.5	28 / 6	14 / 14	50	1009840000
VGM16-SS 68 KB 4-8		M 16	4-8	30 / 7	17 / 19	50	1009850000
VGM20-SS 68 KB 6-12		M 20	6-12	32 / 8	22 / 22	50	1009860000
VGM25-SS 68 KB 10-14		M 25	10-14	35.5 / 8	24 / 27	25	1009870000
VGM32-SS 68 KB 13-18		M 32	13-18	41.5 / 9	30 / 36	20	1009880000
VGM40-SS 68 KB 18-25		M 40	18-25	49.6 / 9	41 / 46	20	1009890000
VGM50-SS 68 KB 22-32		M 50	22-32	55 / 9	50 / 55	5	1009900000
VGM63-SS 68 KB 34-44		M 63	34-44	67 / 14	65 / 70	5	1009910000
PG							
VG 7-SS 68 KB 3-6.5		PG 7	3-6.5	28 / 6	14 / 14	50	1009740000
VG 9-SS 68 KB 4-8		PG 9	4-8	29 / 6	17 / 17	50	1009750000
VG 11-SS 68 KB 5-10		PG 11	5-10	31.5 / 6	22 / 22	50	1009760000
VG 16-SS 68 KB 10-14		PG 16	10-14	34 / 6.5	24 / 24	25	1009780000
VG 21-SS 68 KB 13-18		PG 21	13-18	39.7 / 7.2	30 / 30	25	1009790000
VG 29-SS 68 KB 18-25		PG 29	18-25	46.5 / 8	41 / 41	20	1009800000
VG 36-SS 68 KB 22-32		PG 36	22-32	55 / 9	50 / 50	15	1009810000
Note	1 4404 (316L) on request						

1.4404 (316L) on request. Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Weidmüller ₹ D.13 2712630000

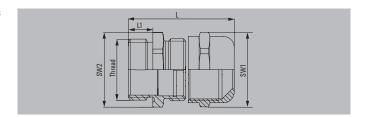
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Cable gland – Stainless steel – IP68





Cable gland with spherical seal insert that squeezes the cable gently over a large area. This cable gland is suitable for railway applications; its sealing material meets the requirements of EN 45545.



Technical data

Material	Stainless steel 1.4305 (303)	
O-Ring / Seal insert	Silicone / T80s	
Temperature range	-40 °C 130 °C	
Protection class	IP68 - 15 bar	

Note

Ordering data

Туре	Thread	КВ	L/L1	SW	Qty.	Order No.
VGM25-SS68 11-20 BG	M 25	11-20	36.5 / 7.5	30	50	1193570000
VGM32-SS68 15-25 BG	M 32	15-25	40 / 8	36	25	1193580000
VGM40-SS68 20-32 BG	M 40	20-32	43 / 8	45	10	1193590000
VGM40/1-SS68 20-32 BG	M 40	20-32	82 / 8	45	10	1205920000

Note

When using mounting covers with 3 X M 40 cable input threads, the elongated version must be used for the cable gland in the middle. Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog weidmueller.com

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HQ cable glands



Cable gland especially for heavy-duty connectors of the HQ series, available in plastic, brass and as brass EMC version.

Technical data

Material	Polyamide 6	
Material Seal insert	TPE	
Temperature range Protection class	-40 °C 130 °C	
Protection class	IP68	
Note		

Ordering data

Туре		Thread	KB	SW	Qty.	Order No.
Plastic						
VG 16 HQ K68 4-6.5		PG 16	4-6.5	27	1	2715990000
VG 16 HQ K68 6.5-9.5		PG 16	6.5-9.5	27	1	1273890000
VG 16 HQ K68 9-13		PG 16	9-13	27	1	1016070000
VG 16 HQ K68 11.5-15.5		PG 16	11.5-15.5	27	1	1016080000
brass						
VG 21 HQ MS68 9-13		PG 21	9-13	30	1	1016090000
VG 21 HQ MS68 11.5-15.5		PG 21	11.5-15.5	30	1	1016100000
VG 21 HQ MS68 14-18		PG 21	14-18	30	1	1016110000
EMC						
VG 21 HQ EMV68 11-15.5		PG 21	11-15.5	30	1	1016120000
VG 21 HQ EMV68 14-18		PG 21	14-18	30	1	1016130000
only for angled HQ base enclosure	(order number 1003110000)					
VG16 HQ K68 9-12SH		PG 16	9-12	30	1	1045530000
VG16 HQ K68 11,5-15,5SH		PG 16	11.5-15.5	30	1	1045540000
Note	Installation specifications and tightening torques can be found in the installation instructions.					

Installation specifications and tightening torques can be found in the installation instructi For further information please use our online catalogue: catalog.weidmueller.com.

2712630000 **Weidmüller № D.15**

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Overview: Klippon® cable glands and selection tool

ATEX / IECEx certified cable glands

Outer	Inner	Lead	Armour	Certification	IP Rating	Page No.
Elastomeric Seal	Elastomeric Seal	Option	Clamp			
YES	YES	NO	Universal	Ex d / Ex e	IP66, IP68	D.27
YES	YES	YES	Steel wire	Ex d / Ex e	IP66, IP68	D.29
YES	YES	NO NO	Braided	Ex d / Ex e	IP66, IP68	D.32
YES	Compound	NO	Universal	Ex d	IP66, IP68	On request
YES	NO NO	NO	No	Ex d / Ex e	IP66, IP68	D.33
	Elastomeric Seal YES YES YES YES YES	Elastomeric Seal Elastomeric Seal YES YES YES YES YES YES YES YES YES Compound	Elastomeric Seal Elastomeric Seal Option YES YES NO YES YES YES YES YES NO YES Compound NO	Elastomeric Seal Elastomeric Seal Option Clamp YES YES NO Universal YES YES YES Steel wire YES YES NO Braided YES Compound NO Universal	Elastomeric Seal Elastomeric Seal Option Clamp YES YES NO Universal Ex d / Ex e YES YES YES Steel wire Ex d / Ex e YES YES NO Braided Ex d / Ex e YES Compound NO Universal Ex d	Elastomeric Seal Elastomeric Seal Option Clamp YES YES NO Universal Ex d / Ex e IP66, IP68 YES YES YES Steel wire Ex d / Ex e IP66, IP68 YES YES NO Braided Ex d / Ex e IP66, IP68 YES Compound NO Universal Ex d IP66, IP68

General

Health & Safety

When Weidmüller cable glands and the accessories are used and installed as prescribed within the data sheet provided, they will not cause any danger or hazard to the health or safety of persons, animals or property. The products should be installed by suitably trained/skilled personnel and in full accordance with the relevant legislative regulations and the accepted code of practice for the industry concerned.

Warning

Weidmüller cable glands and accessories should not be used within any application other than those specified for each product, unless Weidmüller issue a statement in writing that the product is suitable for the specified application. For further information on each product, we refer you to the specific Assembly Instructions and General Arrangement drawings, which are available on request. Weidmueller takes no responsibility for any damage, unjury or other consequential loss caused where the glands are not installed or used according to our Assembly Instructions.

Installation in hazardous area applications

If cable glands and accessories are installed in hazardous area applications, international and national standards of the Explosion Protection have to be considered.

D.16 Weidmüller ₹ 2712630000

The KDSU type glands provide a universal armour clamp for steel wire, steel tape, screened or braided cables. An electrical bond between the cable armour and the gland is ensured. The gland can also be used to terminate un-armoured cables. In addition, the gland is fitted with two separate seals to seal the outer and inner cable insulation.

When choosing the gland with a neoprene sealing a temperature range from -35 °C to +90 °C will be achieved. Whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP68 to 25 metres (30 min. at 2.5 bar) is maintained. The KDSU is approved for explosion protection type of pressure-resistant encapsulation Ex d and increased safety Ex e.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]		
Example article description	KDSU	M20	В	s	0	SC 1 G16				
Meaning	[a] = Entry [b] = Mate [c] = Seal [d] = Cont [e] = Plati [f] = Cable	d type (KDSU) t thread (M20-M75) trial (B = brass) material (S = Silicone, N inuity for lead sheath (L = ng (SC = self-coloured, NI e outer sheath (1 = Reduct d size (G16-G75)	yes, 0 = no) = Nickel)		-		Vicinity (+®+		
Note	Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number									

Dimensions

							Gland Se	eal Range				
Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Cable Inner Sheath [C]			Outer	ble Sheath D]		Armour Acceptance Range	Shroud Size
[999]	[a]	[B]	[A]				Standard [f] = 2		Red [f]	uced = 1		
					Min	Max	Min	Max	Min	Max		
G16	M20	16	28.0	78.0	3.4	8.4	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	78.0	7.2	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	78.0	9.4	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	90.0	13.5	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	105.0	19.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	113.0	23.0	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	125.0	28.1	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	125.0	33.1	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	125.0	39.2	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	125.0	46.7	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	131.0	52.1	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	131.0	58.0	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90
						Dimen	sions in mm					

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSU glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

2712630000 **Weidmüller** ₹ **0.17**

The KDSW glands provide an armour clamp for steel wire, steel tape and lead sheathed cables. An electrical bond between the cable armour and the gland is ensured. In addition, the gland is fitted with two separate sealings to seal the outer and inner cable insulation.

When choosing the gland with a neoprene sealing a temperature range from -35 °C to +90 °C will be achieved, whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min at 2.5 bar) is maintained. The KDSW gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]	
Example article description	KDSW	M20	В	S	L	SC	1	G16	
Meaning	[a] = Entry [b] = Mater [c] = Seal n [d] = Contin [e] = Platin [f] = Cable	type (KDSW) thread (M20-M75) ial (B = brass) naterial (S = Silicone, N nuity for lead sheath (L = g (SC = self-coloured, NI outer sheath (1 = Reduc size (G16-G75)	yes, 0 = no) = Nickel)					+®+	
Note	Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number								

Dimensions

							Gland Se	al Range				
Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Cable Cable Inner Sheath Outer Shei [C] [D] Standard [f] = 2			Outer	Sheath		Armour Acceptance Range	Shroud Size
[999]	[a]	[B]	[A]				Reduced [f] = 1					
					Min	Max	Min	Max	Min	Max		
G16	M20	16	26.5	58.0	4.0	8.4	8.4	13.5	4.9	10.0	0.90	L24
G20S	M20	16	26.5	58.0	8.0	11.7	11.5	16.0	9.4	12.5	0.90 - 1.25	L24
G20	M20	16	33.0	58.0	6.7*	14.0	15.5	21.1	12.0	17.6	0.90 - 1.25	L30
G25	M25	16	41.4	58.0	13.0	20.0	20.3	27.4	16.8	23.9	1.25 - 1.60	L38
G32	M32	16	50.6	65.0	19.0	26.3	26.7	34.0	23.2	30.5	1.60 - 2.00	L46
G40	M40	16	60.5	72.0	25.0	32.2	33.0	40.6	28.6	36.2	1.60 - 2.00	L55
G50S	M50	16	71.5	73.0	31.5	38.2	39.4	46.7	34.8	42.4	2.00 - 2.50	L65
G50	M50	16	71.5	73.0	36.5	44.1	45.7	53.2	41.1	48.5	2.00 - 2.50	L65
G63S	M63	19	88.0	76.0	42.5	50.1	52.1	59.5	47.5	54.8	2.50	L80
G63	M63	19	88.0	76.0	49.5	56.0	58.4	65.8	53.8	61.2	2.50	L80
G75S	M75	19	99.0	82.0	54.5	62.0	64.8	72.2	60.2	68.0	2.50	L90
G75	M75	19	99.0	82.0	60.5	68.0	71.1	78.0	66.5	73.4	2.5	L90
						Dimen	sions in mm					

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSW glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.
- * KDSW gland size G20 with silicone seal , the silicone inner seal only seals to a minimum of 9,3 mm and NOT 6.7 mm.

D.18 Weidmüller ₹ 2712630000

The KDSX glands provide an armour clamp for braided cables. An electrical bond between the cable armour and the gland is ensured. In addition, the gland is fitted with two separate sealings to seal the outer and inner cable insulation.

The gland maintains a temperature range from -60 $^{\circ}$ C to +180 $^{\circ}$ C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min at 2.5 bar) is maintained. The KDSX gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]		
Example article description	KDSX	M20	В	S	0	SC	1	G16		
Meaning	[a] = Entry: [b] = Mater [c] = Seal n [d] = Contin [e] = Platin; [f] = Cable	type (KDSX) thread (M20-M75) ial (B = brass) naterial (S = Silicone) uity for lead sheath (L = g (SC = self-coloured, NI outer sheath (1 = Reduc size (G16-G75)	= Nickel)					100		
Note	Refer to page D.22 Selection Guide Klippon® Cable Glands to determine the suitable order number									

Dimensions

[999] [1 G16 M	Entry thread	Entry thread Length [B]	Max Outer Diameter	Max Length	Inner S	Sheath		Outer :	ble Sheath		Armour Acceptance	Shroud Size		
G16 M	[a]	[B]			Cable Inner Sheath [C]		Inner Sheath			Į	0]		Range	
G16 M	[a]	[B]					Stan		Redu					
			[A]		M:	M		= 2	[f]		-			
	M20	16	26.5	58.0	Min 4.0	Max 8.4	Min 8.4	Max 13.5	Min 4.9	Max 10.0	0.15 - 0.35	L24		
	M20	16	26.5	58.0	8.0	11.7	11.5	16.0	9.4	12.5	0.15 - 0.35	L24		
	M20	16	33.0	58.0	6.7*	14.0	15.5	21.1	12.0	17.6	0.15 - 0.50	L30		
G25 M	M25	16	41.4	58.0	13.0	20.0	20.3	27.4	16.8	23.9	0.15 - 0.50	L38		
G32 M	M32	16	50.6	65.0	19.0	26.3	26.7	34.0	23.2	30.5	0.15 - 0.55	L46		
G40 M	M40	16	60.5	72.0	25.0	32.2	33.0	40.6	28.6	36.2	0.20 - 0.60	L55		
G50S M	M50	16	71.5	73.0	31.5	38.2	39.4	46.7	34.8	42.4	0.20 - 0.60	L65		
G50 M	M50	16	71.5	73.0	36.5	44.1	45.7	53.2	41.1	48.5	0.30 - 0.80	L65		
G63S M	M63	19	88.0	76.0	42.5	50.1	52.1	59.5	47.5	54.8	0.30 - 0.80	L80		
G63 M	M63	19	88.0	76.0	49.5	56.0	58.4	65.8	53.8	61.2	0.30 - 0.80	L80		
G75S M	M75	19	99.0	82.0	54.5	62.0	64.8	72.2	60.2	68.0	0.30 - 1.00	L90		
G75 M	M75	19	99.0	82.0	60.5	68.0	71.1	78.0	66.5	73.4	0.30 - 1.00	L90		
						ъ.	sions in mm							

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KDSX glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.
- * KDSX gland size G20 with silicone seal, the silicone inner seal only seals to a minimum of 9,3 mm and NOT 6.7 mm.

2712630000 **Weidmüller ₹ D.19**

The KSG gland is designed to terminate un-armoured cables. When choosing the gland with a neoprene sealing a temperature range from -35 °C to +90 °C will be achieved, whereas the gland with silicone sealing ensures a temperature range from -60 °C to +180 °C. With both sealing materials an IP rating of IP66 and IP68 to 25 metres (30 min. at 2.5 bar) is maintained. The KSG type gland is approved for Flameproof Ex d and Increased Safety Ex e applications.

Structure of the part description

Example article description	1/00		[b]	[c]	[d]	[e]	[f]	[999]
	KSG	M20	В	S	0	SC	2	G16
Meaning Note	[a] = Entry ti [b] = Materia [c] = Seal m [d] = Continu [e] = Plating [f] = Cable c [ggg] = Gland s	type (KSG) hread (M20-M90) al (B = brass) aterial (S = Silicone, N uity for lead sheath (L = (SC = self-coloured, NI outer sheath (2 = Stand size (G16-G90) lection Guide Klippon®	yes, O = no) = Nickel) ard)			00		├ ® ├

Dimensions

Gland Size [ggg]	Entry thread	Entry thread Length [B]	Max Outer Diameter [A]	Max Length	Gland Seal Range Cable Outer Sheath [D] Standard [f] = 2		Shroud Size
					Min	Max	
G16	M20	16	28.0	33.0	4.0	8.4	L24
G20S	M20	16	28.0	33.0	7.2	11.7	L24
G20	M20	16	33.0	33.0	9.6	14.0	L30
G25	M25	16	41.4	33.0	13.5	20.0	L38
G32	M32	16	50.6	33.0	19.5	26.3	L46
G40	M40	16	60.5	37.0	23.0	32.2	L55
G50S	M50	16	71.5	37.0	28.2	38.2	L65
G50	M50	16	71.5	37.0	33.2	44.1	L65
G63S	M63	19	88.0	37.0	39.3	50.1	L80
G63	M63	19	88.0	37.0	46.7	56.0	L80
G75S	M75	19	99.0	37.0	52.3	62.0	L90
G75	M75	19	99.0	37.0	58.1	69.0	L90
				Dimensions in	mm		

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KSG glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system.
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- · When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

20 Weidmüller ₹ 2712630000

The KUB gland provide an armour clamp for steel tape, steel wire and braided cables. An electrical bond between the cable armour and the gland is ensured. The gland can also be used to terminate unarmoured cables. Additionally, the gland provides a single pull resistant seal on the outer sheath of any cable. After clamping the cable armour onto the cone, the cable has to be filled with the provided compound to seal the free spaces between the single conductors.

The gland maintains a temperature range from -60 $^{\circ}$ C to +135 $^{\circ}$ C. When filled, the gland fulfills an IP rating of IP68 to 100 metres (30 Min. at 10 bar). The KUB gland is only suitable for pressure-resistant Ex d encapsulation, and is available on request.

Structure of the part description

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]
Example article description	KUB	M20	В	S	0	SC	1	G16
Meaning	[a] = Enti [b] = Mar [c] = Sea [d] = Con [e] = Plat [f] = Cab	nd type (KUB) y thread (M20-M75) erial (B = brass) I material (S = Silicone) tinuity for lead sheath (L- ting (SC = self-coloured, N) le outer sheath (1 = Redu nd size (616-675)	= Nickel)		A (D)			+B+
Note	Refer to page D.22	Selection Guide Klippon®	Cable Glands to determ	nine the suitable order n	number			

Dimensions

							G	land Seal Ran	ige				
Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Cable Inner Sheath [C]			Outer	ble Sheath D]		Armour Acceptance Range	Shroud Size	
[999]	[a]	[B]	[A]			Standard Reduced [f] = 2 [f] = 1							
					Х	Υ	Z	Min	Max	Min	Max		
G16	M20	16	28.0	72.0	7	9.0	11.7	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	72.0	8	10.4	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	73.0	14	12.5	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	83.0	25	17.8	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	103.0	50	23.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	105.0	80	28.8	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	115.0	100	34.2	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	115.0	100	39.4	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	115.0	120	44.8	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	115.0	120	50.0	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	122.0	140	55.4	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	122.0	140	60.8	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90
			Dimensions in mm										

Important Notes

- The gland size does not necessarily equate to the entry thread size.
- In some cases several gland sizes can be chosen due to overlapping inner as well as outer cable diameters. Due to the wide range of armoured cables available, it is necessary to select the correct clamping range. This is achieved by taking the inner and outer clamping range values to determine the best fit (as close as possible to the Min/Max values average).
- X = Maximum numbers of cores
- Y = Maximum over cores
- Z = Maximum inner sheath
- All cable glands have a 1.5 mm pitch.
- For Flameproof Ex d applications the female thread into which the gland is to be fitted must achieve an engagement of at least 5 full threads in compliance with clause 5.3 of EN/IEC 60079-1.
- Where KUB glands are fitted into non-metallic Increased Safety Ex e enclosures they must be included within the earth circuit of the system
- Fully assembly instructions are supplied with the glands. The instructions must be read prior to installation and adhered to in full.
- When the gland is used to terminate un-armoured cables, the gland is suitable only for fixed installation.

2712630000 **Weidmüller** ₹ **0.21**

Selection Guide Klippon® Cable Glands

Purpose: Generation of the article description

By selecting the suitable cable gland different factors have to be considered, such as

- The environment of the application
- · The conditions inside the enclosure
- The construction of the cable

By using the Selection Guide Klippon® Cable Glands the article description will be generated following the step by step process to create the 7 character order key. From this the order number can be identified.

The order key consists out of the following attributes:

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]
Example Article Description	KDSU	M20	В	S	0	SC	1	G16
Meaning	[a] = Entry [b] = Mater [c] = Seal n [d] = Contin [e] = Platin [f] = Cable	type (KDSU, KDSW, KD thread (M20-M75) ial (B = brass) naterial (S=Silicone, N=I nuity for lead sheath (L = g (SC = self-coloured, NI outer sheath (1 = Reduc size (G16-G75)	Neoprene) yes, O = no) = nickel-plated					

Application example

Within an Ex d application on an Off-Shore platform a suitable cable gland for the termination into an enclosure is required. Following details about the application are given:

- The enclosure will be used for the control of a motor circuit breaker
- The enclosure has a volume of 1.3 dm³ and is installed outdoor.
- The application is in the field, a place in which an explosive atmosphere is likely to occur in normal operation, occasionally (Zone 1)
- The surrounding atmosphere of the enclosure consists Ethylene (gas group IIB)
- The enclosure operates in a temperature range of -40 °C bis +45 °C
- The armour of the cable is unknown, no lead sheathed cable
- The cable outer sheath diameter is 10 mm
- The cable inner sheath diameter is 8 mm

Based on the information in the above shown example case the article description will be determined on the following pages.

Weidmüller 🛣 2712630000

1. Selection of the cable gland type [type] and continuity for lead sheath [d]

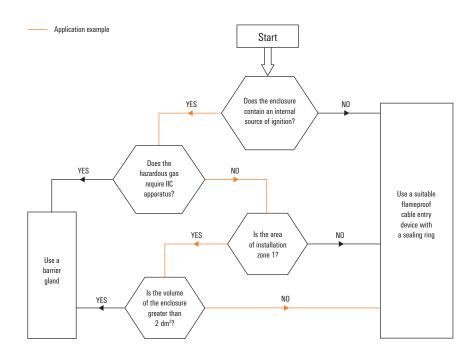
Order key [Type] [a] [b] [c] [d] [e] [f] [ggg]							
	Order key	[a]	[b]	[d]	[e]	[f]	[999]
Example Article Description	Example Article Description						

1a) Selection of the cable gland type in regard to the ignition protection type

[Type]	Ignition Protecion Type
KDSU	Ex d / Ex e
KDSW	Ex d / Ex e
KDSX	Ex d / Ex e
KSG	Ex d / Ex e
KUB	Ex d

Because it is an Ex d application all cable gland types (marked in blue) can come into consideration.

For Ex d applications the following questionnaire according to the IEC 60079-14 standard has to be passed to find out if a barrier gland ([Type]=KUB) or if a cable gland with a sealing ring ([Type]=KDSU,KDSW,KDSX) has to be used.



By passing this questionnaire with the given information of the example case the orange marked way has to be followed and the result is that a cable gland with sealing ring has to be used. Consequently the blue marked cable gland types below can come into consideration.

Gland type	Type of sealing
KDSU	Sealing ring
KDSW	Sealing ring
KDSX	Sealing ring
KSG	Sealing ring
KUB	Compound

2712630000 **Weidmüller № D.23**

n

1b) Selection of the cable gland type in regard to the continuity for lead sheath

[Type]	[d]	Continuity for lead sheath					
KDSU	0	No					
KDSW	L/0	Yes					
KDSX	0	No					
KSG	0	No					
KUB	0	No					

In the example case a cable without lead sheath is to be terminated, therefore the option to clamp a lead sheathed cable is not needed. Consequently is

[d] = 0 -

All four gland types marked in blue can be used.

1c) Selection of the cable gland type in regard to the type of armour

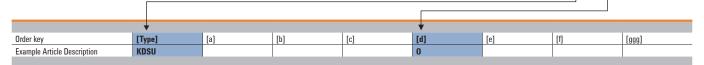
[Type]	Armour
KDSU	Universal
KDSW	Steel wire, steel tape
KDSX	Braided
KSG	No armour
KUB	Universal

Because the type of armour of the cable is unknown, the cable gland type KDSU has to be selected.

Consequently is

[Type] = KDSU-

The generated information has to be filled into the order key below:



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2. Selection of the material [b], the sealing material [c] and the plating [e] of the cable gland

Order key	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]
Example Article Description	KDSU				0			
Example 7 it dole Becomption		1						

2a) Selection of the material [b]

All cable gland types are made from brass "b". Other materials can also be provided upon request. Consequently is

[b] = B -

2b) Selection of the sealing material [c] based on the required temperature range

The cable glands can be ordered with either a neoprene seal "N" or a silicone seal "S".

Glands with a neoprene seal can be used in a temperature range from -35 °C to +90 °C, whereas glands with silicone seal maintain a temperature range from -60 °C to +180 °C. (KUB glands are certified to a temperature of -60 °C to +135 °C).

[Type]	[c]	Seal material
KDSU	N,S	Neoprene, Silicone
KDSW	N,S	Neoprene (with continuity for lead sheath), Silicone
KDSX	S	Silicone
KSG	N,S	Neoprene, Silicone
KUB	N	Silicone (-60 °C to +135 °C)

Because the enclosure in the example case operates in a temperature range of -40 °C bis +45 °C, a cable gland with a silicone seal has to be used. Consequently is

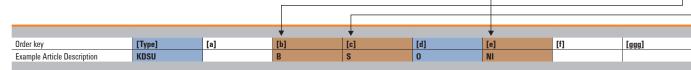
[c] = "S" (Silicone)

2c) Selection of the plating [e]

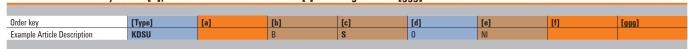
All cable glands can be provided either with nickel plated surface "NI" or with self-coloured surface "SC".

In the example case the enclosure is used outdoor, therefore it can come into contact with water in form of rain, so that a cable gland with nickel plated surface as protection against corrosion and wear has to be selected. Consequently is [e] = "NI"

The generated information has to be filled into the order key below:



3. Selection of the entry thread [a], the cable outer sheath variant [f] and the gland size [ggg]



The suitable gland size [ggg] will be selected based on the inner and outer sheath diameters of the cable. Thereby the entry thread size [a] and the cable outer sheath variant [f] result.

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In the example case the following diameters are given:

Cable Outer Sheath: 10 mm (By looking into the below shown dimensions chart of the KDSU the orange marked clamping ranges (Cable Outer Sheath [D]) can be selected).

Cable Inner Sheath: 8 mm (By looking into the below shown dimensions chart of the KDSU the orange marked clamping ranges (Cable Inner Sheath [C]) can be selected).

Dimensions

							Gland Se	al Range				
Gland Size	Entry thread	Entry thread Length	Max Outer Diameter	Max Length	Cable Inner Sheath [C]				ble Sheath)]		Armour Acceptance Range	Shroud Size
							Stan [f]	dard =2	Red [f]			
[ggg]		[B]	[A]		Min	Max	Min	Max	Min	Max		
G16	M20	16	28.0	78.0	3.4	8.4	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
G20S	M20	16	28.0	78.0	7.2	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
G20	M20	16	33.0	78.0	9.4	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
G25	M25	16	41.4	90.0	13.5	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
G32	M32	16	50.6	105.0	19.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
G40	M40	16	60.5	113.0	23.0	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
G50S	M50	16	71.5	125.0	28.1	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
G50	M50	16	71.5	125.0	33.1	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
G63S	M63	19	88.0	125.0	39.2	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
G63	M63	19	88.0	125.0	46.7	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
G75S	M75	19	99.0	131.0	52.1	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
G75	M75	19	99.0	131.0	58.0	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90
			All dimensions in mm									

By the selection of the inner [C] resp. outer [D] clamping range, a range should be used where the diameter of the cable outer and inner sheath are as near as possible to the average of the Min/Max Values. In doing so, the reduced cable outer sheath with the gland size G2OS and the entry thread of M2O has to be selected.

Consequently is [f]=1 [ggg]=G20S [a]=M20 The generated information has to be filled into the order key below: Order key Article description KDSU M20 B S O NI 1 G20S

Resulting from the complete article description the relating order number (brown marked) can be determined.

Extract from table KDSU "Nickel-plated brass gland with silicone sealing" on page D.28

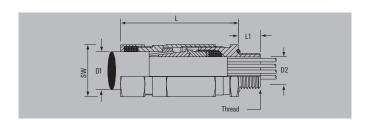
Order No.	Description	[Type]	[a]	[b]	[c]	[d]	[e]	[f]	[999]	Qty.
0930001221	KDSU M20 BS 0 NI 1 G16	KDSU	M20	В	S	0	NI	1	G16	20
0930001222	KDSU M20 BS 0 NI 2 G16	KDSU	M20	В	S	0	NI	2	G16	20
0930011223	KDSU M20 BS 0 NI 1 G20S	KDSU	M20	В	S	0	NI	1	G20S	20
0930011224	KDSU M20 BS O NI 2 G20S	KDSU	M20	В	S	0	NI	2	G20S	20
0930021221	KDSU M20 BS 0 NI 1 G20	KDSU	M20	В	S	0	NI	1	G20	20

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Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	NBR / CR
Temperature range	-35 °C90 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1285X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. Cable glands made of brass with natural surface are available in the online catalogue (catalog.weidmueller.com).

Ordering data

Туре	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSU M20 BN 0 NI 1 G16	M 20	6.7-10.3	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	1083280000
KDSU M20 BN 0 NI 2 G16	M 20	9-13.5	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	1911380000
KDSU M20 BN 0 NI 1 G20S	M 20	9.4-12.5	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	1083290000
KDSU M20 BN 0 NI 2 G20S	M 20	11.5-16	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	1911390000
KDSU M20 BN 0 NI 1 G20	M 20	12-17.6	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	1083320000
KDSU M20 BN 0 NI 2 G20	M 20	15.5-21.1	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	1911400000
KDSU M25 BN 0 NI 1 G25	M 25	16.8-23.9	13.50-20.00	0.1-1.6	90 / 16	38	EL38	20	1083330000
KDSU M25 BN 0 NI 2 G25	M 25	20.3-27.4	13.50-20.00	0.1-1.6	90 / 16	38	EL38	20	1911420000
KDSU M32 BN 0 NI 1 G32	M 32	23.2-30.5	19.50-26.30	0.1-2	105 / 16	46	EL46	10	1083340000
KDSU M32 BN 0 NI 2 G32	M 32	26.7-34	19.50-26.30	0.1-2	105 / 16	46	EL46	10	1911430000
KDSU M40 BN O NI 1 G40	M 40	28.6-36.2	23.00-32.20	0.1-2	113 / 16	55	EL55	10	1083350000
KDSU M40 BN 0 NI 2 G40	M 40	33-40.6	23.00-32.20	0.1-2	113 / 16	55	EL55	10	1911440000
KDSU M50 BN 0 NI 1 G50	M 50	41.1-48.5	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	1083370000
KDSU M50 BN 0 NI 2 G50	M 50	45.7-53.2	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	1911460000
KDSU M50 BN 0 NI 1 G50S	M 50	34.8-42.4	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	1083360000
KDSU M50 BN 0 NI 2 G50S	M 50	39.4-46.7	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	1911450000
KDSU M63 BN O NI 1 G63S	M 63	47.5-54.8	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	1083380000
KDSU M63 BN 0 NI 2 G63S	M 63	52.1-59.5	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	1911480000
KDSU M63 BN O NI 1 G63	M 63	53.8-61.2	46.70-56.00	0.1-2.5	125 / 16	80	EL80	1	1083390000
KDSU M63 BN 0 NI 2 G63	M 63	58.4-65.8	46.70-56.00	0.1-2.5	125 / 19	80	EL80	1	1911490000
KDSU M75 BN O NI 1 G75S	M 75	60.2-68	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	1083400000
KDSU M75 BN 0 NI 2 G75S	M 75	64.8-72.2	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	1083410000
KDSU M75 BN 0 NI 1 G75	M 75	66.5-73.4	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	1083420000
KDSU M75 BN 0 NI 2 G75	M 75	71.1-78	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	1083430000

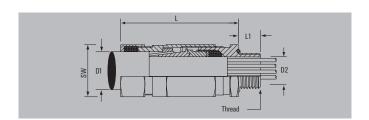
Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged.
 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Klippon® cable glands – Nickel–plated Brass – Ex e, Ex d, IP68 for armoured and non-armoured cables



All-purpose cable gland for cables and lines with single-wire armouring, metal-foil armouring and braided armouring. Non-armoured cables and lines can also be connected.



Technical data

Material	Brass, nickel-plated
O-Ring / Seal insert	Silicone / Silicone
Temperature range	-60 °C180 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Metal foil armouring, Braided armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1285X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. Cable glands made of brass with natural surface are available in the online catalogue (catalog.weidmueller.com).

Ordering data

Туре	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSU M20 BS 0 NI 1 G16	M 20	6.7-10.3	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	0930001221
KDSU M20 BS 0 NI 2 G16	M 20	9-13.5	3.40-8.40	0.1-1.25	78 / 16	24	L24	20	0930001222
KDSU M20 BS 0 NI 1 G20	M 20	12-17.6	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	0930021221
KDSU M20 BS 0 NI 2 G20	M 20	15.5-21.1	9.40-14.00	0.1-1.25	78 / 16	30	EL30	20	0930021222
KDSU M20 BS 0 NI 1 G20S	M 20	9.4-12.5	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	0930011223
KDSU M20 BS 0 NI 2 G20S	M 20	11.5-16	7.20-11.70	0.1-1.25	78 / 16	24	L24	20	0930011224
KDSU M25 BS 0 NI 1 G25	M 25	16.8-23.9	13.50-20.00	0.1-1.6	90 / 16	38	EL38	20	0930031221
KDSU M25 BS O NI 2 G25	M 25	20.3-27.4	13.50-20.00	0.1-1.6	90 / 16	38	EL38	1	0930031222
KDSU M32 BS 0 NI 1 G32	M 32	23.2-30.5	19.50-26.30	0.1-2	105 / 16	46	EL46	10	0930041221
KDSU M32 BS 0 NI 2 G32	M 32	26.7-34	19.50-26.30	0.1-2	105 / 16	46	EL46	10	0930041222
KDSU M40 BS 0 NI 1 G40	M 40	28.6-36.2	23.00-32.20	0.1-2	113 / 16	55	EL55	10	1136990000
KDSU M40 BS 0 NI 2 G40	M 40	33-40.6	23.00-32.20	0.1-2	113 / 16	55	EL55	10	0930051222
KDSU M50 BS 0 NI 1 G50	M 50	41.1-48.5	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	1137010000
KDSU M50 BS 0 NI 2 G50	M 50	45.7-53.2	33.10-44.10	0.1-2.5	125 / 16	65	EL65	1	1137020000
KDSU M50 BS 0 NI 1 G50S	M 50	34.8-42.4	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	1137000000
KDSU M50 BS 0 NI 2 G50S	M 50	39.4-46.7	28.10-38.20	0.1-2.5	125 / 16	65	EL65	1	0930061224
KDSU M63 BS 0 NI 1 G63	M 63	53.8-61.2	46.70-56.00	0.1-2.5	125 / 19	80	EL80	1	1137050000
KDSU M63 BS 0 NI 2 G63	M 63	58.4-65.8	46.70-56.00	0.1-2.5	125 / 19	80	EL80	1	0930091222
KDSU M63 BS 0 NI 1 G63S	M 63	47.5-54.8	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	1137030000
KDSU M63 BS 0 NI 2 G63S	M 63	52.1-59.5	39.20-50.10	0.1-2.5	125 / 19	80	EL80	1	1137040000
KDSU M75 BS O NI 1 G75	M 75	66.5-73.4	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	1137080000
KDSU M75 BS O NI 2 G75	M 75	71.1-78	58.00-68.00	0.1-2.5	131 / 19	90	EL90	1	1137090000
KDSU M75 BS O NI 1 G75S	M 75	60.2-68	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	1137060000
KDSU M75 BS O NI 2 G75S	M 75	64.8-72.2	52.10-62.00	0.1-2.5	131 / 19	90	EL90	1	1137070000

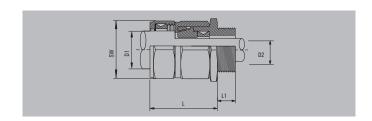
Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged.
 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Weidmüller 🏖 2712630000



Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-35 °C90 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. IP protection without GWDR is IP54. To achieve IP66 / IP68 protection, a nylon GWDR must be ordered separately. Cable clands made of brass with natural surface are available in the online catalogue (catalog weidmueller.com).

Ordering data

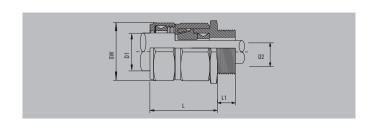
Туре	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSW M20 BN 0 NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.9	58 / 16	24	L24	20	1075030000
KDSW M20 BN 0 NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.9	58 / 16	24	L24	20	1075040000
KDSW M20 BN 0 NI 1 G20	M 20	12-17.6	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	1075070000
KDSW M20 BN 0 NI 2 G20	M 20	15.5-21.1	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	1075080000
KDSW M20 BN 0 NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.9-1.25	58 / 16	30	L24	20	1075050000
KDSW M20 BN 0 NI 2 G20S	M 20	11.5-16	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	1075060000
KDSW M25 BN 0 NI 1 G25	M 25	16.8-23.9	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	1075090000
KDSW M25 BN 0 NI 2 G25	M 25	20.3-27.4	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	1075110000
KDSW M32 BN 0 NI 1 G32	M 32	23.2-30.5	19.00-26.30	1.6-2	65 / 16	46	L46	10	1075120000
KDSW M32 BN 0 NI 2 G32	M 32	26.7-34	19.00-26.30	1.6-2	65 / 16	46	L46	10	1075130000
KDSW M40 BN 0 NI 1 G40	M 40	28.6-36.2	25.00-32.20	1.6-2	72 / 16	55	L55	10	1075140000
KDSW M40 BN 0 NI 2 G40	M 40	33-40.6	25.00-32.20	1.6-2	72 / 16	55	L55	10	1075150000
KDSW M50 BN 0 NI 1 G50	M 50	41.1-48.5	36.50-44.10	2-2.5	73 / 16	65	L65	1	1075180000
KDSW M50 BN 0 NI 2 G50	M 50	45.7-53.2	36.50-44.10	2-2.5	73 / 16	65	L65	1	1075190000
KDSW M50 BN 0 NI 1 G50S	M 50	34.8-42.4	31.50-38.20	2-2.5	73 / 16	65	L65	1	1075160000
KDSW M50 BN 0 NI 2 G50S	M 50	39.4-46.7	31.50-38.20	2-2.5	73 / 16	65	L65	1	1075170000
KDSW M63 BN 0 NI 1 G63	M 63	53.8-61.2	49.50-56.00	2.5	76 / 19	80	L80	1	1075230000
KDSW M63 BN 0 NI 2 G63	M 63	58.4-65.8	49.50-56.00	2.5	76 / 19	80	L80	1	1075240000
KDSW M63 BN 0 NI 1 G63S	M 63	47.5-54.8	42.50-50.10	2.5	76 / 19	80	L80	1	1075210000
KDSW M63 BN 0 NI 2 G63S	M 63	52.1-59.5	42.50-50.10	2.5	76 / 19	80	L80	1	1075220000
KDSW M75 BN 0 NI 1 G75	M 75	66.5-73.4	60.50-68.00	2.5	82 / 19	90	L90	1	1075270000
KDSW M75 BN O NI 2 G75	M 75	71.1-78	60.50-68.00	2.5	82 / 19	90	L90	1	1075280000
KDSW M75 BN 0 NI 1 G75S	M 75	60.2-68	54.50-62.00	2.5	82 / 19	90	L90	1	1075250000
KDSW M75 BN O NI 2 G75S	M 75	64.8-72.2	54.50-62.00	2.5	82 / 19	90	L90	1	1075260000

Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged.
 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.



Cable gland for cables and lines with single-wire armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C180 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. IP protection without GWDR is IP54. To achieve IP66 / IP68 protection, a nylon GWDR must be ordered separately. Cable glands made of brass with natural surface are available in the online catalogue (catalog.weidmueller.com).

Ordering data

Туре	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSW M20 BS 0 NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.9	58 / 16	24	L24	20	1136410000
KDSW M20 BS 0 NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.9	58 / 16	24	L24	20	1136420000
KDSW M20 BS 0 NI 1 G20	M 20	12-17.6	9.30-14.00	0.9-1.25	58 / 16	30	L30	20	1136450000
KDSW M20 BS 0 NI 2 G20	M 20	15.5-21.1	9.30-14.00	0.9-1.25	58 / 16	30	L30	20	1136460000
KDSW M20 BS O NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.9-1.25	58 / 16	30	L24	20	1136430000
KDSW M20 BS 0 NI 2 G20S	M 20	11.5-16	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	1136440000
KDSW M25 BS 0 NI 1 G25	M 25	16.8-23.9	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	1136470000
KDSW M25 BS 0 NI 2 G25	M 25	20.3-27.4	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	1136480000
KDSW M32 BS 0 NI 1 G32	M 32	23.2-30.5	19.00-26.30	1.6-2	65 / 16	46	L46	10	1136490000
KDSW M32 BS 0 NI 2 G32	M 32	26.7-34	19.00-26.30	1.6-2	65 / 16	46	L46	10	1136510000
KDSW M40 BS 0 NI 1 G40	M 40	28.6-36.2	25.00-32.20	1.6-2	72 / 16	55	L55	10	1136520000
KDSW M40 BS 0 NI 2 G40	M 40	33-40.6	25.00-32.20	1.6-2	72 / 16	55	L55	10	1136530000
KDSW M50 BS 0 NI 1 G50	M 50	41.1-48.5	36.50-44.10	2-2.5	73 / 16	65	L65	1	1136560000
KDSW M50 BS 0 NI 2 G50	M 50	45.7-53.2	36.50-44.10	2-2.5	73 / 16	65	L65	1	1136570000
KDSW M50 BS 0 NI 1 G50S	M 50	34.8-42.4	31.50-38.20	2-2.5	73 / 16	65	L65	1	1136540000
KDSW M50 BS 0 NI 2 G50S	M 50	39.4-46.7	31.50-38.20	2-2.5	73 / 16	65	L65	1	1136550000
KDSW M63 BS 0 NI 1 G63	M 63	53.8-61.2	49.50-56.00	2.5	76 / 19	80	L80	1	1136600000
KDSW M63 BS 0 NI 2 G63	M 63	58.4-65.8	49.50-56.00	2.5	76 / 19	80	L80	1	1136610000
KDSW M63 BS 0 NI 1 G63S	M 63	47.5-54.8	42.50-50.10	2.5	76 / 19	80	L80	1	1136580000
KDSW M63 BS 0 NI 2 G63S	M 63	52.1-59.5	42.50-50.10	2.5	76 / 19	80	L80	1	1136590000
KDSW M75 BS 0 NI 1 G75	M 75	66.5-73.4	60.50-68.00	2.5	82 / 19	90	L90	1	1136640000
KDSW M75 BS 0 NI 2 G75	M 75	71.1-78	60.50-68.00	2.5	82 / 19	90	L90	1	1136650000
KDSW M75 BS 0 NI 1 G75S	M 75	60.2-68	54.50-62.00	2.5	82 / 19	90	L90	1	1136620000
KDSW M75 BS 0 NI 2 G75S	M 75	64.8-72.2	54.50-62.00	2.5	82 / 19	90	L90	1	1136630000

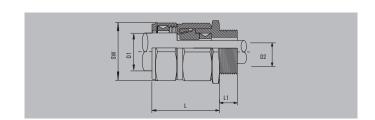
Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged.
 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Weidmüller 🏖 D.30 2712630000



Cable gland for cables and lines with single-wire armouring and lead-sheath armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	CR
Temperature range	-35 °C90 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Single-wire armouring, Lead sheath armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. IP protection without GWDR is IP54. To achieve IP66 / IP68 protection, a nylon GWDR must be ordered separately. Cable glands made of brass with natural surface are available in the online catalogue (catalog.weidmueller.com).

Ordering data

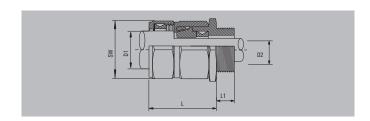
Туре	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSW M20 BN L NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.9	58 / 16	24	L24	20	1074660000
KDSW M20 BN L NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.9	58 / 16	24	L24	20	1074690000
KDSW M20 BN L NI 1 G20	M 20	12-17.6	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	1074760000
KDSW M20 BN L NI 2 G20	M 20	15.5-21.1	6.70-14.00	0.9-1.25	58 / 16	30	L30	20	1074780000
KDSW M20 BN L NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	1074720000
KDSW M20 BN L NI 2 G20S	M 20	11.5-16	8.00-11.70	0.9-1.25	58 / 16	24	L24	20	1074740000
KDSW M25 BN L NI 1 G25	M 25	16.8-23.9	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	1074810000
KDSW M25 BN L NI 2 G25	M 25	20.3-27.4	13.00-20.00	1.25-1.6	58 / 16	38	L38	20	1074830000
KDSW M32 BN L NI 1 G32	M 32	23.2-30.5	19.00-26.30	1.6-2	65 / 16	46	L46	10	1074850000
KDSW M32 BN L NI 2 G32	M 32	26.7-34	19.00-26.30	1.6-2	65 / 16	46	L46	10	1074860000
KDSW M40 BN L NI 1 G40	M 40	28.6-36.2	25.00-32.20	1.6-2	72 / 16	55	L55	10	1074870000
KDSW M40 BN L NI 2 G40	M 40	33-40.6	25.00-32.20	1.6-2	72 / 16	55	L55	10	1074880000
KDSW M50 BN L NI 1 G50	M 50	41.4-48.5	36.50-44.10	2-2.5	73 / 16	65	L65	1	1074920000
KDSW M50 BN L NI 2 G50	M 50	45.7-53.2	36.50-44.10	2-2.5	73 / 16	65	L65	1	1074930000
KDSW M50 BN L NI 1 G50S	M 50	34.8-42.4	31.50-38.20	2-2.5	73 / 16	65	L65	1	1074890000
KDSW M50 BN L NI 2 G50S	M 50	39.4-46.7	31.50-38.20	2-2.5	73 / 16	65	L65	1	1074910000
KDSW M63 BN L NI 1 G63	M 63	53.8-61.2	49.50-56.00	2.5	76 / 19	80	L80	1	1074960000
KDSW M63 BN L NI 2 G63	M 63	58.4-65.8	49.50-56.00	2.5	76 / 19	80	L80	1	1074970000
KDSW M63 BN L NI 1 G63S	M 63	47.5-54.8	42.50-50.10	2.5	76 / 19	80	L80	1	1074940000
KDSW M63 BN L NI 2 G63S	M 63	52.1-59.5	42.50-50.10	2.5	76 / 19	80	L80	1	1074950000
KDSW M75 BN L NI 1 G75	M 75	66.5-73.4	60.50-68.00	2.5	82 / 19	90	L90	1	1075010000
KDSW M75 BN L NI 2 G75	M 75	71.1-78	60.50-68.00	2.5	82 / 19	90	L90	1	1075020000
KDSW M75 BN L NI 1 G75S	M 75	60.2-68	54.50-62.00	2.5	82 / 19	90	L90	1	1074980000
KDSW M75 BN L NI 2 G75S	M 75	64.8-72.2	54.50-62.00	2.5	82 / 19	90	L90	1	1074990000

Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged.
 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.



Cable gland for cables and lines with braided armouring.



Technical data

Material	Brass, nickel-plated
Seal insert	Silicone
Temperature range	-60 °C180 °C
Protection class	IP54
Protection degree with GWDR	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Type of armouring	Braided armouring
Marking	ATEX: II 2G, Ex db IIC Gb, Ex eb IIC Gb, II 1D, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1286X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. IP protection without GWDR is IP54. To achieve IP66 / IP68 protection, a nylon GWDR must be ordered separately. Cable glands made of brass with natural surface are available in the online catalogue (catalog.weidmueller.com).

Ordering data

Туре	Thread	D1 outer cable Ø	D2 inner cable Ø	Cable armour	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass									
KDSX M20 BS 0 NI 1 G16	M 20	4.9-10.3	3.50-8.40	0.15-0.35	58 / 16	24	L24	20	1135910000
KDSX M20 BS 0 NI 2 G16	M 20	8.4-13.5	3.50-8.40	0.15-0.35	58 / 16	24	L24	20	1135920000
KDSX M20 BS 0 NI 1 G20	M 20	12-17.6	9.30-14.00	0.15-0.5	58 / 16	30	L30	20	1135950000
KDSX M20 BS 0 NI 2 G20	M 20	15.5-21.1	9.30-14.00	0.15-0.5	58 / 16	30	L30	20	1135960000
KDSX M20 BS 0 NI 1 G20S	M 20	9.4-12.5	8.00-11.70	0.15-0.35	58 / 16	24	L24	20	1135930000
KDSX M20 BS 0 NI 2 G20S	M 20	11.5-16	8.00-11.70	0.15-0.35	58 / 16	24	L24	20	1135940000
KDSX M25 BS 0 NI 1 G25	M 25	16.8-23.9	13.00-20.00	0.15-0.5	58 / 16	38	L38	20	1135970000
KDSX M25 BS 0 NI 2 G25	M 25	20.3-27.4	13.00-20.00	0.15-0.5	58 / 16	38	L38	20	1135980000
KDSX M32 BS 0 NI 1 G32	M 32	23.2-30.5	19.00-26.30	0.15-0.55	65 / 16	46	L46	10	1135990000
KDSX M32 BS 0 NI 2 G32	M 32	26.7-34	19.00-26.30	0.15-0.55	65 / 16	46	L46	10	1136000000
KDSX M40 BS 0 NI 1 G40	M 40	28.6-36.2	25.00-32.20	0.2-0.6	72 / 16	55	L55	10	1136010000
KDSX M40 BS 0 NI 2 G40	M 40	33-40.6	25.00-32.20	0.2-0.6	72 / 16	55	L55	10	1136020000
KDSX M50 BS 0 NI 1 G50	M 50	41.1-48.5	36.50-44.10	0.5-0.8	73 / 16	65	L65	1	1136050000
KDSX M50 BS 0 NI 2 G50	M 50	45.7-53.2	36.50-44.10	0.5-0.8	73 / 16	65	L65	1	1136060000
KDSX M50 BS 0 NI 1 G50S	M 50	34.8-42.4	31.50-38.20	0.2-0.6	73 / 16	65	L65	1	1136030000
KDSX M50 BS 0 NI 2 G50S	M 50	39.4-46.7	31.50-38.20	0.2-0.6	73 / 16	65	L65	1	1136040000
KDSX M63 BS 0 NI 1 G63	M 63	53.8-61.2	49.50-56.00	0.5-0.8	76 / 19	80	L80	1	1136090000
KDSX M63 BS 0 NI 2 G63	M 63	58.4-65.8	49.50-56.00	0.5-0.8	76 / 19	80	L80	1	1136110000
KDSX M63 BS 0 NI 1 G63S	M 63	47.5-54.8	42.50-50.10	0.5-0.8	76 / 19	80	L80	1	1136070000
KDSX M63 BS 0 NI 2 G63S	M 63	52.1-59.5	42.50-50.10	0.5-0.8	76 / 19	80	L80	1	1136080000
KDSX M75 BS 0 NI 1 G75	M 75	66.5-73.4	60.50-68.00	0.5-1	82 / 19	90	L90	1	1136140000
KDSX M75 BS 0 NI 2 G75	M 75	71.1-78	60.50-68.00	0.5-1	82 / 19	90	L90	1	1136150000
KDSX M75 BS 0 NI 1 G75S	M 75	60.2-68	54.50-62.00	0.5-1	82 / 19	90	L90	1	1136120000
KDSX M75 BS 0 NI 2 G75S	M 75	64.8-72.2	54.50-62.00	0.5-1	82 / 19	90	L90	1	1136130000

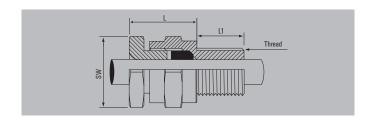
Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged.
 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Weidmüller 🏖 D.32 2712630000



Cable gland exclusively for non-armoured cables and lines.



Technical data

Material	Brass, nickel-plated
0-ring / Seal insert	CR / CR
Temperature range	-35 °C90 °C
Degree of protection	IP66, IP68 - 2.5 bar
Water depth	25 m (30 Min.)
Marking	ATEX: II 2GD, Ex db IIC Gb, Ex ta IIIC Da and/or II 2 GD, Ex eb IIC Gb, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1287X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594
Note	Length "L" depends on the cable diameter used. Cable glands made of brass with natural surface are available in the online catalogue (catalog.weidmueller.com).

Ordering data

Туре	Thread	КВ	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass							
KSG M20 BN 0 NI 2 G16	M 20	4-8.4	33 / 16	25	L24	20	1911510000
KSG M20 BN 0 NI 2 G20S	M 20	7.2-11.7	33 / 16	25	L24	20	1911540000
KSG M20 BN 0 NI 2 G20	M 20	9.6-14	33 / 16	30	L30	20	1911560000
KSG M25 BN 0 NI 2 G25	M 25	13.5-20	33 / 16	38	L38	20	1911570000
KSG M32 BN 0 NI 2 G32	M 32	19.5-26.3	33 / 16	46	L46	10	1911580000
KSG M40 BN 0 NI 2 G40	M 40	23-32.2	37 / 16	55	L55	10	1911590000
KSG M50 BN 0 NI 2 G50S	M 50	28.1-38.2	37 / 16	65	L65	1	1911600000
KSG M50 BN 0 NI 2 G50	M 50	33.1-44.1	37 / 16	65	L65	1	1911610000
KSG M63 BN O NI 2 G63S	M 63	39.2-50.1	37 / 19	80	L80	1	1911620000
KSG M63 BN 0 NI 2 G63	M 63	46.7-56	37 / 19	80	L80	1	1911630000
KSG M75 BN 0 NI 2 G75	M 75	58-68	37 / 19	90	L90	1	1075360000
KSG M75 BN 0 NI 2 G75S	M 75	52.1-62	37 / 19	90	L90	1	1075350000

Note

- All cable glands have a thread pitch of 1.5 mm.

 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/IEC 60079-1. In the screwed in position, at least 5 threads must be engaged.

 If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.

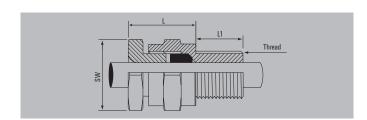
 The connection cable must be laid securely and inflexibly to rule out tensile stress.

 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog, weidmueller.com.

Klippon® cable glands – Brass – Ex e, Ex d, IP66 / IP68 for non-armoured cables



Cable gland exclusively for non-armoured cables and lines.



Technical data

Material	Brass, nickel-plated	
O-ring / Seal insert	Silicone / Silicone	
Temperature range	-60 °C180 °C	
Degree of protection	IP66, IP68 - 2.5 bar	
Water depth	25 m (30 Min.)	
Marking	ATEX: II 2GD, Ex db IIC Gb, Ex ta IIIC Da and/or II 2 GD, Ex eb IIC Gb, Ex ta IIIC Da, IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da	
Certificate no. (ATEX / IECEx / EAC)	SIRA 05ATEX1287X / IECEx SIR 05.0067X / RUC-DE.IT08.B.00594	
Note	Length "L" depends on the cable diameter used. Cable plands made of brass with natural surface are available in the online catalogue (catalog weidmueller com)	

Ordering data

Туре	Thread	КВ	L/L1	SW	SUHB	Qty.	Order No.
metric, nickel-plated brass							
KSG M20 BS 0 NI 2 G16	M 20	4-8.4	33 / 16	25	L24	20	0930481222
KSG M20 BS 0 NI 2 G20	M 20	9.6-14	33 / 16	25	L30	20	0930501222
KSG M20 BS 0 NI 2 G20S	M 20	7.2-11.7	33 / 16	25	L24	20	0930491224
KSG M25 BS 0 NI 2 G25	M 25	13.5-20	33 / 16	38	L38	20	0930511222
KSG M32 BS 0 NI 2 G32	M 32	19.5-26.3	33 / 16	46	L46	10	0930521222
KSG M40 BS 0 NI 2 G40	M 40	23-32.2	37 / 16	55	L55	10	0930531222
KSG M50 BS 0 NI 2 G50	M 50	33.1-44.1	37 / 16	65	L65	1	1136670000
KSG M50 BS 0 NI 2 G50S	M 50	28.1-38.2	37 / 16	65	L65	1	1136660000
KSG M63 BS 0 NI 2 G63	M 63	46.7-56	37 / 19	80	L80	1	1136690000
KSG M63 BS 0 NI 2 G63S	M 63	39.2-50.1	37 / 19	80	L80	1	1136680000
KSG M75 BS 0 NI 2 G75	M 75	58-68	37 / 19	90	L90	1	1136710000
KSG M75 BS 0 NI 2 G75S	M 75	52.1-62	37 / 19	90	L90	1	1136700000

Note

- All cable glands have a thread pitch of 1.5 mm.
 In the case of Ex d applications, the inner threads used for cable glands must meet the requirements of section 5.3 of EN/EC 60079-1. In the screwed in position, at least 5 threads must be engaged. If the cable glands are installed in non-metallic Ex e connection equipment, these must be connected to the protective earth of the system.
 The connection cable must be laid securely and inflexibly to rule out tensile stress.
 Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Weidmüller 🏖 2712630000

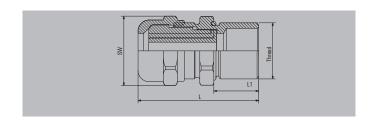
D

Ex cable glands – Brass – Nickel plated – Ex e, Ex d, IP 66 / IP 68 for non-armoured cables





Cable gland made from brass exclusively for non-armoured cables and lines. This Ex e/d approved screw connection has multiply divisible seal inserts (onion rings) to cover the greatest possible clamping range.



Technical data

Material	Brass, nickel-plated
O-ring / Seal insert	NBR / CR
Temperature range	40 °C100 °C
Degree of protection	IP66, IP68
Marking	Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db IP66/68
Note	Length "L" depends on the cable diameter used.

Ordering data

Туре	Thread	КВ	L/L1	SW	Qty.	Order No.
VG M16 EXE MS	M 16	3-12	46 / 16	22	50	1460040000
VG M20 EXE MS	M 20	3-12	43 / 16	22	50	1460050000
VG M25 EXE MS	M 25	10-18	45.5 / 16	28	20	1460070000
VG M32 EXE MS	M 32	14-24	49 / 16	35	20	1460080000
VG M40 EXE MS	M 40	22-32	59 / 18	45	10	1460090000
VG M50 EXE MS	M 50	35-44	61.5 / 18	64	5	1460100000
VG M63 EXE MS	M 63	46-56	69.5 / 18	80	5	1460110000

Note

Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Safeguard processes in potentially explosive atmospheres

Ex cable glands for safe devices as per EN 60079-0:2012 + A11:2013

The environmental conditions in many industry and explosion-proof applications pose a real challenge for the system components. Dust, vibrations, moisture and extreme temperatures all have an impact on the installed devices and the cable glands must also be able to withstand these stresses too.

Ex cable glands from Weidmüller guarantee process reliability in demanding environments. They are designed such that they can be used universally in any enclosure series. They are also just as easy to use in both high and low-temperature environments.

With impact resistance of 7 Joules, the explosion-proof polyamide cable glands offer extremely high levels of protection against external influences such as shocks or impacts. Together with their suitability for use in an extended temperature range and their proven conformity with current standards, these cable glands ensure safe and reliable functioning in a wide range of applications.

Your special advantages:

Impact and temperature resistant: The cable glands for use in areas at risk of explosion can withstand extreme temperature conditions. They are impact-resistant up to 7 Joules and can be used in any Weidmüller enclosures, guaranteeing versatile applicability with full standard conformity.



In process-intensive industries such as petrochemistry, energy production, machine construction, motor and drive technology and device components which are subjected to extremely high stresses. The cable glands can withstand even the harshest environmental conditions. Guarantee impact-resistance of up to 7 Joules over an extended temperature range.

Weidmüller ₹ 2712630000

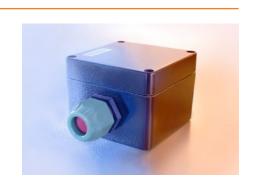
Flexible application

Available in 8 standard sizes from M12 to M63 (additional thread types on request) and with 14 different clamping ranges, the new range of cable glands is suitable for an extremely wide range of applications.



Resistant to high temperatures

The cable glands have an operating temperature range of $-40\,^{\circ}\text{C}$ to $+70\,^{\circ}\text{C}$ with a chloroprene seal, and a range of as wide as $-60\,^{\circ}\text{C}$ to $+70\,^{\circ}\text{C}$ with a silicone seal.





With impact resistance of 7 Joules, the explosion-proof cable glands offer extremely high levels of protection against external influences such as shocks or impacts, in accordance with EN 60079-0:2012 + A11: 2013.



Comprehensive approvals

Whether for Ex e or Ex i applications:
The plastic cable glands comply consistently
with EN 60079-0:2012 + A11: 2013 and are
approved in accordance with ATEX, IECEx, EAC,
and DNV GL.





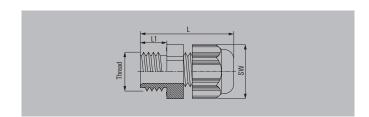




Ex cable glands - Plastic - Ex e, Ex i, IP66 / IP68, 7J, -40°C - +70°C



Plastic cable gland for Ex applications with integrated strain relief, especially for Ex e and Ex i applications with chloroprene seal and 7 Joule impact resistance. Complete with integral membrane seal for clean transportation and storage.



Technical data

Material	Polyamide 6	
Temperature range	-40 °C70 °C	
Seal insert	CR	
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)	
Impact resistance	7 joules in acc. with IEC 60079-0	
Marking	Ex eb IIC Gb, Ex tb IIIC Db IP66/68	
Note	Length "L" depends on the cable diameter used.	

Ordering data

Туре	Thread	КВ	L/L1	SW	Qty.	Order No.
Ex e, deep black						
VG M12 EXE 4-6,5 CR7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2721930000
VG M16 EXE 5-8 CR7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2721940000
VG M16 EXE 6-10 CR7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2721950000
VG M20 EXE 7-12 CR7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2721960000
VG M20 EXE 7-13 CR7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2721970000
VG M20 EXE 11-14 CR7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2721980000
VG M25 EXE 12-17 CR7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2721990000
VG M25 EXE 14-18 CR7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722000000
VG M32 EXE 16-21 CR7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722010000
VG M32 EXE 19-25 CR7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722020000
VG M40 EXE 20-28 CR7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722030000
VG M40 EXE 23-32 CR7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722040000
VG M50 EXE 31-38 CR7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	2722050000
VG M63 EXE 35-44 CR7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	2722060000
Ex i, light blue, deep black						
VG M12 EXI 4-6,5 CR7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2722210000
VG M16 EXI 5-8 CR7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2722220000
VG M16 EXI 6-10 CR7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2722230000
VG M20 EXI 7-12 CR7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2722240000
VG M20 EXI 7-13 CR7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2722250000
VG M20 EXI 11-14 CR7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2722260000
VG M25 EXI 12-17 CR7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2722270000
VG M25 EXI 14-18 CR7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722280000
VG M32 EXI 16-21 CR7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722290000
VG M32 EXI 19-25 CR7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722300000
VG M40 EXI 20-28 CR7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722310000
VG M40 EXI 23-32 CR7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722320000
VG M50 EXI 31-38 CR7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	2722330000
VG M63 EXI 35-44 CR7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	2722340000

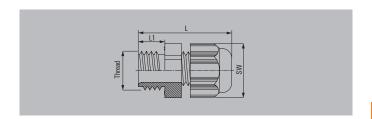
Note Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com

D.38 Weidmüller ₹ 2712630000

Ex cable glands - Plastic - Ex e, Ex i, IP66 / IP68, 7J, -60°C - +70°C



Plastic cable gland for Ex applications with integrated strain relief, especially for Ex e and Ex i applications with silicone seal and 7 Joule impact resistance. Complete with integral membrane seal for clean transportation and storage.



Technical data

r (30 min.)
79-0
6/68

Ordering data

T	Thursd	КВ	L/L1	SW	04	Ol N
Type	Thread	I/R	L/LI	21/	Qty.	Order No.
Ex e, deep black	M 12	405	00 / 10	15	100	0700070000
VG M12 EXE 4-6,5 SI7J G4		4-6.5 mm	22 / 10 mm	15 mm	100	2722070000
VG M16 EXE 5-8 SI7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2722080000
VG M16 EXE 6-10 SI7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2722090000
VG M20 EXE 7-12 SI7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2722100000
VG M20 EXE 7-13 SI7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2722110000
VG M20 EXE 11-14 SI7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2722120000
VG M25 EXE 12-17 SI7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2722130000
VG M25 EXE 14-18 SI7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722140000
VG M32 EXE 16-21 SI7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722150000
VG M32 EXE 19-25 SI7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722160000
VG M40 EXE 20-28 SI7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722170000
VG M40 EXE 23-32 SI7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722180000
VG M50 EXE 31-38 SI7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	2722190000
VG M63 EXE 35-44 SI7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	2722200000
Ex i, light blue, deep black						
VG M12 EXI 4-6,5 SI7J G4	M 12	4-6.5 mm	22 / 10 mm	15 mm	100	2722350000
VG M16 EXI 5-8 SI7J G4	M 16	5-8 mm	26 / 10 mm	19 mm	50	2722360000
VG M16 EXI 6-10 SI7J G4	M 16	6-10 mm	29.5 / 10 mm	22 mm	50	2722370000
VG M20 EXI 7-12 SI7J G4	M 20	7-12 mm	30 / 10 mm	24 mm	50	2722380000
VG M20 EXI 7-13 SI7J G4	M 20	7-13 mm	33 / 10 mm	25 mm	50	2722390000
VG M20 EXI 11-14 SI7J G4	M 20	11-14 mm	30 / 10 mm	27 mm	50	2722400000
VG M25 EXI 12-17 SI7J G4	M 25	12-17 mm	34 / 10 mm	29 mm	50	2722410000
VG M25 EXI 14-18 SI7J G4	M 25	14-18 mm	35 / 10 mm	33 mm	25	2722420000
VG M32 EXI 16-21 SI7J G4	M 32	16-21 mm	42 / 10 mm	36 mm	25	2722430000
VG M32 EXI 19-25 SI7J G4	M 32	19-25 mm	40.5 / 15 mm	42 mm	20	2722440000
VG M40 EXI 20-28 SI7J G4	M 40	20-28 mm	46 / 10 mm	46 mm	15	2722450000
VG M40 EXI 23-32 SI7J G4	M 40	23-32 mm	50 / 18 mm	53 mm	10	2722460000
VG M50 EXI 31-38 SI7J G4	M 50	31-38 mm	54 / 18 mm	60 mm	10	2722470000
VG M63 EXI 35-44 SI7J G4	M 63	35-44 mm	54 / 18 mm	65 mm	10	2722480000
Note	Installation specifications and tightening torqu	es can be found in the installation in	estructions			

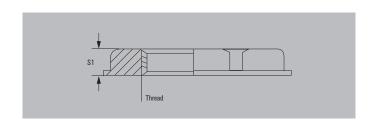
Installation specifications and tightening torques can be found in the installation instructions For further information please use our online catalogue: catalog.weidmueller.com

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Lock nuts - Plastic 7035



For fastening cable glands and accessories if no threaded hole is available. With circumferential collar to prevent damage to the substrate during installation.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Light Grey / RAL 7035
Temperature range	-40 °C100 °C
Flammability rating	V-2
Note	

Ordering data

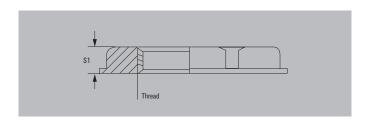
Туре		Thread	S1	SW	Qty.	Order No.
metric						
SKMU M12 - K GR		M 12	5.00	18	100	1772440000
SKMU M16 - K GR		M 16	5.00	22	100	1772450000
SKMU M20 - K GR		M 20	6.00	26	100	1772460000
SKMU M25 - K GR		M 25	6.00	32	100	1772470000
SKMU M32 - K GR		M 32	7.00	41	100	1772480000
SKMU M40 - K GR		M 40	7.00	50	50	1772490000
SKMU M50 - K GR		M 50	8.00	60	10	1772500000
SKMU M63 - K GR		M 63	8.00	75	10	1772510000
PG						
SKMU PG7-K GR		PG 7	5.00	19	100	1697440000
SKMU PG9-K GR		PG 9	5.00	22	100	1697450000
SKMU PG11-K GR		PG 11	5.00	24	100	1697460000
SKMU PG 13,5-K GR		PG 13.5	6.00	27	100	1697470000
SKMU PG16-K GR		PG 16	6.00	30	100	1697480000
SKMU PG21-K GR		PG 21	7.00	36	100	1698220000
SKMU PG29-K GR		PG 29	7.00	46	50	1698230000
SKMU PG36-K GR		PG 36	8.00	60	25	1698240000
SKMU PG42-K GR		PG 42	8.00	65	25	1698250000
SKMU PG48-K GR		PG 48	8.00	70	25	1719090000
Note	Further versions on request.					

D.40 Weidmüller ₹ 2712630000

Lock nuts - Plastic 9005



Lock nuts with collar for preventing enclosure damage on installation. These are used to secure plastic cable glands and blanking plugs - recommended for Ex e and Ex i plastic cable glands.



Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Deep black / RAL 9005
Temperature range	40 °C100 °C
Flammability rating	V-2
Note	Accessories for Ex cable glands are not subject to approval.

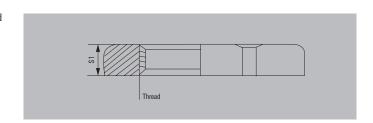
Ordering data

Туре		Thread	S 1	SW	Qty.	Order No.
metric						
SKMU M12 K SW		M 12	5.00	18	100	1806540000
SKMU M16 K SW		M 16	5.00	22	100	1736920000
SKMU M20 K SW		M 20	6.00	26	100	1736930000
SKMU M25 K SW		M 25	6.00	32	25	1736940000
SKMU M32 K SW		M 32	7.00	41	100	1736950000
SKMU M40 K SW		M 40	7.00	50	10	1736960000
SKMU M50 K SW		M 50	8.00	60	5	1736970000
SKMU M63 K SW		M 63	8.00	75	5	1736980000
PG						
SKMU PG7-K SW		PG 7	5.00	19	100	1719100000
SKMU PG9-K SW		PG 9	5.00	22	50	1719110000
SKMU PG11-K SW		PG 11	5.00	24	50	1719120000
SKMU PG13,5-K SW		PG 13.5	6.00	27	50	1719130000
SKMU PG16-K SW		PG 16	6.00	30	100	1719140000
SKMU PG21-K SW		PG 21	7.00	36	100	1719150000
SKMU PG29-K SW		PG 29	7.00	46	20	1719160000
SKMU PG36-K SW		PG 36	8.00	60	10	1719170000
SKMU PG42-K SW		PG 42	8.00	65	25	1719180000
SKMU PG48-K SW		PG 48	8.00	70	25	1719190000
Note	Further versions on request.					

Lock nuts - Brass - nickel-plated



For fastening cable glands and accessories if no threaded hole is available. Recommended when working with Ex applications.



Technical data

Material	Brass, nickel-plated	
Note		

Туре		Thread	S 1	SW	Qty.	Order No.
metric						
SKMU M12 MS		M 12	2.8	14	100	1772360000
SKMU M16 MS		M 16	2.8	19	100	1736990000
SKMU M20 MS		M 20	3	24	100	1737000000
SKMU M25 MS		M 25	3	28	100	1737010000
SKMU M32 MS		M 32	4	36	100	1737020000
SKMU M40 MS		M 40	4.5	44	50	1737030000
SKMU M50 MS		M 50	5	54	25	1737040000
SKMU M63 MS		M 63	6	70	25	1737050000
SKMU M75 MS		M 75	8	85	5	1737060000
PG						
SKMU PG7-MS		PG 7	2.8	15	100	1694070000
SKMU PG9-MS		PG 9	2.8	18	100	1694080000
SKMU PG11-MS		PG 11	3	21	100	1694090000
SKMU PG13,5-MS		PG 13.5	3	23	100	1694100000
SKMU PG16-MS		PG 16	3	26	100	1694110000
SKMU PG21-MS		PG 21	3.5	32	100	1719200000
SKMU PG29-MS		PG 29	4	41	50	1719210000
SKMU PG36-MS		PG 36	5	51	50	1719220000
SKMU PG42-MS		PG 42	5	60	25	1719230000
SKMU PG48-MS		PG 48	5.5	64	10	1719240000
Note	Further versions on request.					

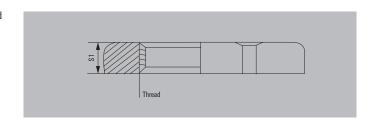
D.42 Weidmüller 🏖 2712630000

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Lock nuts – Brass – natural



For fastening cable glands and accessories if no threaded hole is available. Recommended when working with Ex applications.



Technical data

Material	Brass
Note	

Ordering data

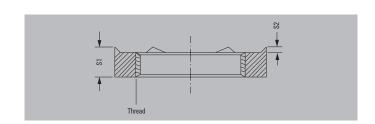
Thread	S 1	SW	Qty.	Order No.
M 16	4	22	50	0930640001
M 20	4	24	50	0930640002
M 25	4	30	25	0930640003
M 32	4	40	20	0930640004
M 40	4.5	50	10	0930640005
M 50	5	65	5	0930640006
M 63	6.5	75	5	0930640007
M 75	7	90	5	0930640008
	M 16 M 20 M 25 M 32 M 40 M 50 M 63	M 16 4 M 20 4 M 25 4 M 32 4 M 40 4.5 M 50 5 M 63 6.5	M 16 4 22 M 20 4 24 M 25 4 30 M 32 4 40 M 40 4.5 50 M 50 5 65 M 63 6.5 75	M 16 4 22 50 M 20 4 24 50 M 25 4 30 25 M 32 4 40 20 M 40 4.5 50 10 M 50 5 65 5 M 63 6.5 75 5

Note

Lock nuts - Brass - EMC



For fastening cable glands and accessories if no threaded hole is available. Specially equipped with 6 edges which contact the enclosure when the lock nut is tightened.



Technical data

Material	Brass, nickel-plated	
Note		

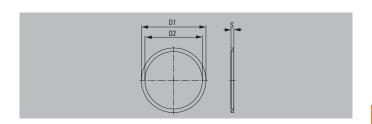
Гуре		Thread	S1	SW	Qty.	Order No.
netric						
SKMU EMV M12		M 12	3.6	15	100	1777610000
SKMU EMV M16		M 16	3.6	19	100	1777620000
SKMU EMV M20		M 20	3.6	24	100	1777630000
SKMU EMV M25		M 25	3.6	30	50	1777640000
SKMU EMV M32		M 32	4.1	36	50	1777650000
SKMU EMV M40		M 40	4.6	46	10	1777660000
SKMU EMV M50		M 50	4.6	60	10	1777670000
SKMU EMV M63		M 63	6.6	70	10	1777680000
PG						
SKMU EMV PG7		PG 7	4.7	15	20	1718900000
SKMU EMV PG9		PG 9	4.7	18	20	1718910000
SKMU EMV PG11		PG 11	4.7	21	20	1718920000
SKMU EMV PG13,5		PG 13.5	4.7	23	10	1718930000
SKMU EMV PG16		PG 16	4.7	26	10	1718940000
SKMU EMV PG21		PG 21	5.2	32	10	1718950000
SKMU EMV PG29		PG 29	5.7	41	15	1718960000
SKMU EMV PG 36		PG 36	4.6	51	1	1777710000
SKMU EMV PG 42		PG 42	4.6	58	1	1777700000
SKMU EMV PG 48		PG 48	5.6	64	1	1777690000
Vote	Further versions on request.					

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Flat IP washer – Standard – Polyethylene



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Polyethylene / Transparent	
Temperature range	-30 °C90 °C	
Note		

Ordering data

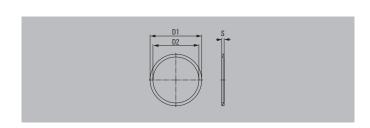
Туре	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-P0	M 12	16.00	12.00	2.00	50	1777920000
GWDR M16-P0	M 16	20.00	16.00	2.00	50	1777930000
GWDR M20-P0	M 20	24.00	20.00	2.00	100	1777940000
GWDR M25-P0	M 25	29.00	25.00	2.00	50	1777950000
GWDR M32-P0	M 32	36.00	32.00	2.00	50	1777960000
GWDR M40-P0	M 40	45.00	40.00	2.00	50	1777970000
GWDR M50-P0	M 50	56.00	50.00	2.00	50	1777980000
GWDR M63-P0	M 63	70.00	63.00	2.00	50	1777990000
PG						
GWDR PG7-PO	PG 7	16.50	12.50	2.00	100	1719440000
GWDR PG9-P0	PG 9	19.00	15.20	2.00	100	1719450000
GWDR PG11-PO	PG 11	22.50	18.60	2.00	100	1719460000
GWDR PG13,5-PO	PG 13.5	25.00	20.40	2.00	100	1719470000
GWDR PG16-PO	PG 16	27.00	22.50	2.00	100	1719480000
GWDR PG21-PO	PG 21	33.50	28.30	3.00	100	1719490000
GWDR PG29-PO	PG 29	43.50	37.00	3.00	50	1719500000
GWDR PG36-PO	PG 36	55.00	47.00	3.00	50	1719510000
GWDR PG42-PO	PG 42	63.00	54.00	3.00	10	1719520000
GWDR PG48-PO	PG 48	69.00	59.30	3.00	5	1719530000
Note	Further versions on request.					

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Flat IP washer – Standard – Neoprene



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Neoprene / Deep black / RAL 9005	
Temperature range	40 °C100 °C	
Note		

Ordering data

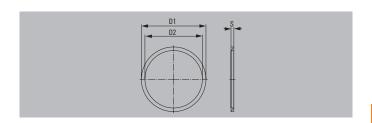
Туре	Thread	D1	D2	S	Qty.	Order No.
metric						
GWDR M12-NP	M 12	18.00	12.00	1.20	50	1913320000
GWDR M16-NP	M 16	22.00	16.00	1.20	50	1736230000
GWDR M20-NP	M 20	24.00	20.00	1.20	50	1736240000
GWDR M25-NP	M 25	30.00	25.00	1.50	100	1736250000
GWDR M32-NP	M 32	42.00	32.00	1.50	50	1736260000
GWDR M40-NP	M 40	52.00	40.00	1.50	20	1736270000
GWDR M50-NP	M 50	63.00	50.00	1.50	20	1736280000
GWDR M63-NP	M 63	77.00	63.00	2.00	10	1736290000
PG						
GWDR PG7-NP	PG 7	17.00	11.60	1.20	100	1719540000
GWDR PG9-NP	PG 9	21.00	14.00	1.20	100	1719550000
GWDR PG11-NP	PG 11	24.00	17.00	1.20	100	1719560000
GWDR PG13,5-NP	PG 13.5	27.00	19.50	1.20	100	171957000
GWDR PG16-NP	PG 16	30.00	22.50	1.20	100	1719580000
GWDR PG21-NP	PG 21	35.00	28.30	1.50	100	1719590000
GWDR PG29-NP	PG 29	45.00	37.00	1.50	50	1719600000
GWDR PG36-NP	PG 36	60.00	47.00	1.50	20	171961000
GWDR PG42-NP	PG 42	65.00	54.00	1.50	10	171962000
GWDR PG48-NP	PG 48	71.00	59.30	1.50	5	1719630000
Note F	urther versions on request.					

D.46 Weidmüller ₹ 2712630000

Flat IP washer – Standard – Nylon



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Nylon 6 / traffic red / RAL 3020
Temperature range	40 °C135 °C
Note	

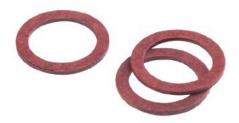
Ordering data

Туре	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWN M16	M 16	25.00	16.50	2.00	25	1076630000
KSWN M20	M 20	29.40	20.70	2.00	25	0930730002
KSWN M25	M 25	38.10	25.70	2.00	25	1076640000
KSWN M32	M 32	42.50	32.50	2.00	25	1076650000
KSWN M40	M 40	52.00	40.50	2.00	25	0899780000
KSWN M50	M 50	65.00	50.50	2.00	25	0900660000
KSWN M63	M 63	79.40	63.50	2.00	25	1076660000
KSWN M75	M 75	90.50	75.50	2.00	25	1076670000

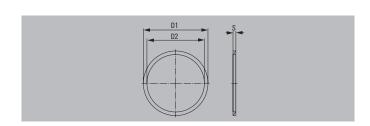
Note

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Flat IP washer - Standard - Vulcanised fibre



For better sealing of the connection thread of a cable gland or accessory.



Technical data

Material / Colour	Vulcanized fibre / brown-red / RAL 3011	
Temperature range	-40 °C95 °C	
Note		

Ordering data

Туре	Thread	D1	D2	S	Qty.	Order No.
metric						
KSWF M16	M 16	25.00	16.50	1.50	25	1076680000
KSWF M20	M 20	29.40	20.70	1.50	25	0899750000
KSWF M25	M 25	38.10	25.70	1.50	25	0899770000
KSWF M32	M 32	42.50	32.50	1.50	25	1076690000
KSWF M40	M 40	52.00	40.50	1.50	25	1076710000
KSWF M50	M 50	65.00	50.50	1.50	25	1076720000
KSWF M63	M 63	79.40	63.50	1.50	25	1076730000
KSWFM75	M 75	90.50	75.50	1.50	25	1076740000

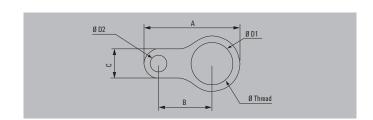
Note

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Accessories – Earth tags – Brass



Earth tags are best used when a cable shielding is being tightened onto the cable gland, and when it has the same potential as another cable gland on the enclosure.



Technical data

Material	Brass, nickel-plated	
Note		

Ordering data

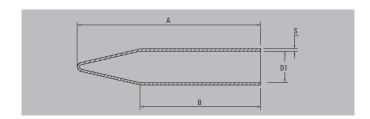
Туре	Thread	А	В	С	D1	D2	Qty.	Order No.
metric, nickel-plated brass								
EA-RING MS/M 16	M 16	48.75	30.00	13.00	24.5	6.75	20	1736480000
EA-RING MS/M 20	M 20	53.8	33.00	13.00	28.6	7.00	20	1736490000
EA-RING MS/M 25	M 25	61.5	36.00	17.00	34	10.50	20	1736500000
EA-RING MS/M 32	M 32	73	41.00	22.00	42	12.20	20	1736510000
EA-RING MS/M 40	M 40	86.5	44.50	30.00	54	13.50	10	1736520000
EA-RING MS/M 50	M 50	111.5	58.00	40.00	67	13.50	10	1736530000
EA-RING MS/M 63	M 63	125.5	67.00	40.00	77	13.50	10	1736540000
EA-RING MS/M 75	M 75	137.5	73.00	40.00	89	13.50	10	1736550000
metric, brass natural								
EA-RING MS/M16 SC	M 16	50.8	31.80	12.80	25.4	6.90	20	0930710001
EA-RING MS/M20 SC	M 20	54	33.00	12.80	28.6	6.90	20	0930710002
EA-RING MS/M25 SC	M 25	60.2	36.50	12.80	34.8	6.90	20	0930710003
EA-RING MS/M32 SC	M 32	74.6	42.50	22.30	44.6	11.80	20	0930710004
EA-RING MS/M40 SC	M 40	86.7	45.40	31.70	53	13.50	10	0930710005
EA-RING MS/M50 SC	M 50	111	58.10	41.30	65.2	13.50	10	0930710006
EA-RING MS/M63 SC	M 63	128.7	66.80	41.30	82.6	13.50	10	0930710007
EA-RING MS/M75 SC	M 75	141.3	73.00	41.30	95.3	13.50	10	0930710008
Note	Eurther versions on request							

Note Further versions on request

Accessories - Shrouds - Silicone



The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



Technical data

Material / Colour	Silicone / blue-grey / RAL 7031	
Temperature range	-60 °C200 °C	
Hardness (IRHD)	60	
N-4-		

Ordering data

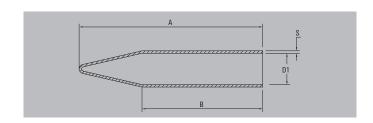
Oruering uata							
Туре	A	В	D1	D2	S	Qty.	Order No.
metric							
KSP L24 S	123	70.00	25.00	28	1.50	10	0930700001
KSP L30 S	130	75.00	30.00	33	1.50	10	0930700002
KSP L38 S	130	75.00	37.00	40	1.50	10	0930700003
KSP L46 S	130	75.00	46.00	49	1.50	10	0930700004
KSP L55 S	150	85.00	55.00	58	1.50	10	0930700005
KSP L65 S	150	85.00	65.00	68	1.50	10	0930700006
KSP L80 S	150	85.00	80.00	84	2.00	10	0930700007
KSP L90 S	165	95.00	90.00	94	2.00	10	0930700008
KSP L 104 S	210	120.00	104.00	108	2.00	10	1193940000
KSP L114 S	210	120.00	114.00	118	2.00	10	1192790000
Note							

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Accessories - Shrouds - PVC



The cover shroud a cable gland before and after the installation. It also protects against external environmental influences.



Technical data

Material / Colour	PVC / Deep black / RAL 9005	
Temperature range	-25 °C70 °C	
Hardness (Shore A)	65	
Note		

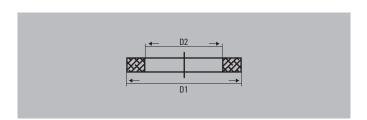
Ordering data

-	-					_	
Туре	Α	В	D1	D2	S	Qty.	Order No.
metric							
KSP L24	123	70.00	25.00	29	2.00	10	1736570000
KSP L30	130	75.00	30.00	34	2.00	10	1736580000
KSP L38	130	75.00	37.00	41	2.00	10	1736590000
KSP L46	130	75.00	46.00	50	2.00	10	1736600000
KSP L55	150	85.00	55.00	59	2.00	10	1736610000
KSP L65	150	85.00	65.00	69	2.00	10	1736620000
KSP L80	150	85.00	80.00	84	2.00	10	1736630000
KSP L90	165	95.00	90.00	94	2.00	10	1736640000
KSP EL30	130	80.00	30.00	34	2.00	10	1736670000
KSP EL38	175	95.00	37.00	41	2.00	10	1736680000
KSP EL46	205	105.00	46.00	50	2.00	10	1076750000
KSP EL55	220	115.00	55.00	59	2.00	10	1076760000
KSP EL65	265	125.00	65.00	69	2.00	10	1076770000
KSP EL80	280	130.00	80.00	84	2.00	10	1076780000
KSP EL90	280	140.00	90.00	94	2.00	10	1076790000
Note	*These shrouds have been spe	cially designed for the Klippon® KDSU	and Klippon® KUB cable glands.				

Accessories – Serrated washers, Stainless steel



Serrated stainless-steel washers to prevent mounted cable glands from loosening. Can also be used to roughen painted or passivated surfaces.



Technical data

Material	Stainless steel 1.4404 (316L)	
Note		

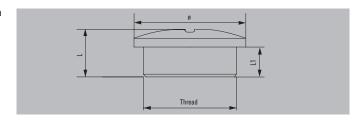
Ordering data

Туре	Thread	D1	D2	Qty.	Order No.
metric					
SZS M16	M 16	25.5	17.30	50	1736300000
SZS M20	M 20	32.4	21.30	10	1736310000
SZS M25	M 25	37.4	25.30	10	1736320000
SZS M32	M 32	48	33.00	10	1736330000
SZS M40	M 40	60	41.00	5	1736340000
SZS M50	M 50	71	51.00	5	1736350000
SZS M63	M 63	87	64.00	5	1736360000
Note					

D.52 Weidmüller ₹ 2712630000

Blanking plugs - Plastic





Technical data

Material / Colour	Polyamid 6 (PA6 - GF30) / Lig	pht Grey / RAL 7035
Temperature range	-40 °C100 °C	
Protection class	IP54	
Flammability rating	V-2	
Note	Optional sealing ring.	

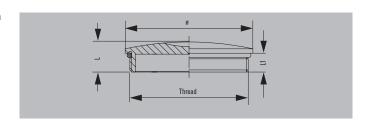
Ordering data

Туре	Thread	L	L1	Head Ø	Qty.	Order No.
metric						
VP M12 K54	M 12	5.5	6	15.00	100	1776930000
VP M16 K54	M 16	5.5	7	20.00	100	1776920000
VP M20 K54	M 20	6.5	7	24.00	100	1776910000
VP M25 K54	M 25	7	10	30.00	100	1776900000
VP M32 K54	M 32	7	11	37.00	50	1776940000
VP M40 K54	M 40	7	13	46.00	25	1776950000
VP M50 K54	M 50	8.5	14	56.00	10	1776960000
VP M63 K54	M 63	8.5	15	69.50	50	1776970000
PG						
VP 7-K54	PG 7	8	6	15.00	100	1719250000
VP 9-K54	PG 9	9.5	5	19.00	100	0294760000
VP 11-K54	PG 11	10	6.5	22.00	100	0294860000
VP 13,5-K54	PG 13.5	10	5	25.00	100	0294960000
VP 16-K54	PG 16	10	5	27.00	100	0295060000
VP 21-K54	PG 21	12	8	33.00	50	0295160000
VP 29-K54	PG 29	11.5	8	44.00	25	0501160000
VP 36-K54	PG 36	14	10	55.00	10	0501260000
VP 42-K54	PG 42	14	10	62.00	5	0501360000
VP 48-K54	PG 48	16	12	69.00	5	1719260000
Note	Other versions available on request. The blanking plu	ugs must be tightened "hand-tig	ht" with the screwdriver.			

Blanking plugs - Brass - Nickel-plated



Brass blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree.



Technical data

Material	Brass, nickel-plated	
0-Ring	NBR	
Temperature range	-40 °C100 °C	
Protection class	IP68 - 5 bar (30 min.)	

Note

Ordering data

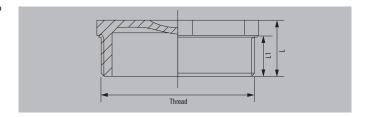
Туре	Thread	L	L1	Head Ø	Qty.	Order No.
metric						
VP M12-MS65	M 12	7.5	5	14.00	100	1777720000
VP M16-MS65	M 16	8	5	18.00	100	1777730000
VP M20-MS65	M 20	9.5	6	22.00	100	1777740000
VP M25-MS65	M 25	11	7	28.00	100	1777750000
VP M32-MS65	M 32	12	8	35.00	50	1777760000
VP M40-MS65	M 40	13	8	44.00	50	1777770000
VP M50-MS65	M 50	15	9	54.00	25	1777780000
VP M63-MS65	M 63	16	10	67.00	10	1777790000
PG						
VP 7-MS65	PG 7	7.5	5	15.00	100	0521600000
VP 9-MS65	PG 9	8	5	18.00	100	0294700000
VP 11-MS65	PG 11	8	5	22.00	100	0294800000
VP 13,5-MS65	PG 13.5	9	6	24.00	100	0294900000
VP 16-MS65	PG 16	9	6	26.00	100	0295000000
VP 21-MS65	PG 21	10	6	32.00	50	0295100000
VP 29-MS65	PG 29	12	8	40.00	50	0501100000
VP 36-MS65	PG 36	15	9	50.00	25	0501200000
VP 42-MS65	PG 42	16	10	57.00	25	0501300000
VP 48-MS65	PG 48	16	10	64.00	10	1719270000
Note	Other versions available on request. The blanking plugs must be tig	htened "hand-tight" with th	e screwdriver.			

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Blanking plugs – Plastic – Ex e



Blanking plug with cross-head is used to seal surplus threaded holes and to maintain the IP protection degree – especially for Ex-e Ex applications.



Technical data

Material / Colour	Polyamide / Deep black / RAL 9005
Temperature range	-20 °C80 °C
Protection class	IP54, IP66
Protection degree with GWDR	IP66, IP68
UL 94 flammability rating	V-2
Marking	Ex e II, Ex tD
Note	Optional sealing ring.

Ordering data

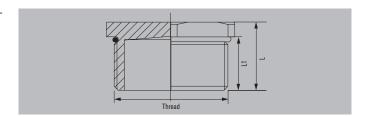
Туре	Thread	L	L1	SW	Qty.	Order No.
metric						
VP M16-EXE SW	M 16	19	15	19	100	1737070000
VP M20-EXE SW	M 20	19	15	23	100	1737080000
VP M25-EXE SW	M 25	20	15	28	100	1737090000
VP M32-EXE SW	M 32	20.5	15	36	100	1737100000
VP M40-EXE SW	M 40	20.5	15	44	20	1737110000
VP M50-EXE SW	M 50	21	15	54	5	1737120000
VP M63-EXE SW	M 63	23.5	15	67	5	1737130000
Note	Installation specifications and tightening torques can be found in the installati For further information please use our online catalogue: catalog.weidmueller.c					

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Blanking plugs – Brass – Ex e, Ex d



Blanking plug is used for sealing surplus threaded holes to ensure the IP protection degree - especially for Ex-e and Ex-d applications.



Technical data

Material	Brass, nickel-plated	
0-Ring	NBR	
Temperature range	-40 °C100 °C	
Protection class	IP54, IP64, IP68	
Marking Note	II 2 GD, Ex d IIC, Ex e II, Ex tD	
Note		

Note

Ordering data

Туре	Thread	L	L1	SW	Qty.	Order No.
metric						
VP M16 EXE MS	M 16	15	12	18	50	1210890000
VP M20 EXE MS	M 20	15	12	23	50	1210900000
VP M25 EXE MS	M 25	15.5	12	29	25	1210910000
VP M32 EXE MS	M 32	16	12	39	10	1210920000
VP M40 EXE MS	M 40	19	15	45	10	1210930000
VP M50 EXE MS	M 50	20	15	58	5	1210940000
VP M63 EXE MS	M 63	26	19	70	5	1210950000
Ness	Installation anneifications and tightening torques can be found in the installation	- 1				

Note

Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

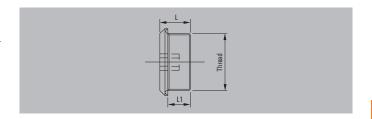
D.56 Weidmüller ₹ 2712630000

Blanking plugs – Brass and Stainless steel – Ex e, Ex d, IP66 / IP68





The KSPMH is a mushroom-shaped blanking plug with a hexagon socket. It is used to seal unused threaded holes so that cable glands can be inserted in the future. The KSPMH is approved for pressure-resistant Ex d encapsulations and increased safety Ex e applications.



Technical data

0-Ring	Silicone	
Temperature range	-60 °C200 °C	
Protection class	IP66, IP68 (100 m / 168 h)	
Marking Note	Ex d IIC Gb, Ex e IIC Gb, Ex tb IIIC Db	
Note		

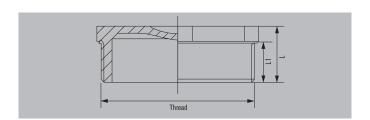
Ordering data

Туре	Thread	L	L1	Qty.	Order No.
brass					
KSPMH M16 BSC	M 16	20.5	16	20	1477740000
KSPMH M20 BSC	M 20	21	16	20	1477750000
KSPMH M25 BSC	M 25	21	16	20	1477770000
KSPMH M32 BSC	M 32	21	16	10	1477780000
KSPMH M40 BSC	M 40	21.5	16	10	1477790000
KSPMH M50 BSC	M 50	21.5	16	1	1477800000
KSPMH M63 BSC	M 63	22	16	1	1477810000
KSPMH M75 BSC	M 75	22	16	1	1477830000
Stainless steel					
KSPMH M16 SSC	M 16	20.5	16	20	1477820000
KSPMH M20 SSC	M 20	21	16	20	1477840000
KSPMH M25 SSC	M 25	21	16	20	1477870000
KSPMH M32 SSC	M 32	21	16	10	1477890000
KSPMH M40 SSC	M 40	21.5	16	10	1477910000
KSPMH M50 SSC	M 50	21.5	16	1	1477930000
KSPMH M63 SSC	M 63	22	16	1	1477950000
KSPMH M75 SSC	M 75	22	16	1	1477980000
	stallation specifications and tightening torques can be found in the installation instruc or further information please use our online catalogue: catalog.weidmueller.com.	tions.			

Blanking plugs - Plastic - Ex e, IP66



For secure connection of unused screw-in threads or through-hole in enclosures. For Ex e applications with an impact resistance of 7 Joule in accordance with IEC 60079-0.



Technical data

Material / Colour	Polyamide 6 / Deep black / RAL 9005	
0-Ring	Silicone	
Temperature range	-60 °C70 °C	
Protection class	IP54, IP66, IP67, IP68 - 5 bar (30 min.)	
Impact resistance	7 joules in acc. with IEC 60079-0	
Marking	Ex eb IIC Gb, Ex tb IIIC Db IP66/68	
Note		

Ordering data

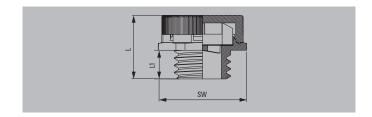
Туре	Thread	L	L1	SW	Qty.	Order No.
VP M12 EX SI 7J	M 12	15	10	15	100	2066710000
VP M16 EX SI 7J	M 16	16.3	12	19	100	2066720000
VP M20 EX SI 7J	M 20	17	11	23	100	2066730000
VP M25 EX SI 7J	M 25	15.8	10	28	100	2066740000
VP M32 EX SI 7J	M 32	22.8	15	36	100	2066750000
VP M40 EX SI 7J	M 40	26.5	18	46	20	2066760000
VP M50 EX SI 7J	M 50	27.5	18	55	20	2066770000
VP M63 EX SI 7J	M 63	27.5	18	69	20	2066940000
Nata	Installation appoifications and tightening targues can be found in the installati	on instructions				

Installation specifications and tightening torques can be found in the installation instructions. For further information please use our online catalogue: catalog.weidmueller.com.

Compensation elements - Plastic - DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



Technical data

Material / Colour	Polyamide 6 / Deep black / RAL 9005
0-Ring	NBR
Temperature range	-40 °C105 °C
Protection class	IP66, IP68 (1 m / 60 min), IP69K
Air flow	0.8 I/min at 0.1 bar Δ P, up to 7.6 I/min at 1bar Δ P
Water inlet point	> 1.5 bar
UL 94 flammability rating	V-2
Note	

Ordering data

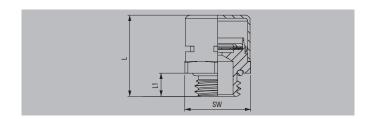
Туре	Thread	L	L1	SW	Qty.	Order No.
metric DAE M12 PA LONG	M 12	17.4	10	17	10	1868570000
DAE M12 PA SHORT	M 12	13.4	6	17	10	1868560000

Note Light grey version - RAL 7035 - on request.

Compensation elements – Stainless steel – DAE



The DAE pressure-compensation element provides good ventilation for the enclosure and prevents moisture build-up. At the same time it maintains the high IP69k protection level. The membrane repels water and oil.



Technical data

Material	Stainless steel 1.4305 (303)
0-Ring	NBR
Temperature range	-40 °C105 °C
Protection class	IP66, IP68 (1 m / 60 min), IP69K
Air flow	0.4 I/min at 0.1 bar ΔP, up to 5.0 I/min at 1bar ΔP
Water inlet point	> 1.5 bar
Note	

Ordering data

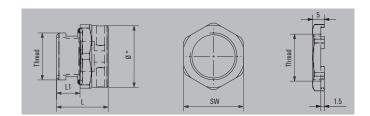
orgering data						
Туре	Thread	L	L1	SW	Qty.	Order No.
Type metric						
DAE M12 SS	M 12	21.1	10	17	10	1868550000
Note						

D.60 Weidmüller ₹ 2712630000

Breather drains - Klippon® BDX



The BDX compensating element is used for ventilating the enclosure and preventing a buildup of moisture, particularly in Ex applications.



Technical data

Material	Brass / Stainless steel 1.4404 (316L)
Protection class	IP66
Impact resistance	7 J ATEX version
Filter	Bronze insert (90% copper, 10% tin)
Air flow	0.25 I / 1 h
Sealing	Silicone / O-Ring
Temperature range	-60 °C200 °C
Colour	Natural
Note	

Ordering data

ordornig data							
Туре	Material	Thread	L/L1	SW	*Diameter	Qty.	Order No.
KLIPPON BDX M20 B	Brass	M 20	22 / 10	27	26.20	1	2519520000
KLIPPON BDX M20 S	Stainless steel 1.4404 (316L)	M 20	22 / 10	27	26.20	1	2519550000
KLIPPON BDX M20X15 S	Stainless steel 1.4404 (316L)	M 20	22 / 15	27	26.20	1	2519570000
KLIPPON BDX M25 S	Stainless steel 1.4404 (316L)	M 25	22 / 10	32	31.00	1	2519590000

Note

- The breather-drain is only to be fitted on the bottom side of the enclosure, aligned vertically with the thread upwards, and at the lowest point to permit proper drainage.

 The water flow rate has been tested by a water filled empty enclosure (no pressure or heat producing internal components). The water flow rate can slightly differ by influences from operational parameter and environmental conditions.

 Installation is specifications and torques can be found in the installation instructions.

 For further information please use our online catalogue: catalog.weidmueller.com.

D.62 Weidmüller ₹ 2712630000

Cable entry system

Cable entry system	Cable Management – Cable Entry System – Cabtite	E.2
	Cable grommets	E.4
	Cable entry frames	E.5
	Divisible cable gland and accessories	E.7

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Flexible and safe insertion of pre-assembled cables

Cabtite - the new modular system cable entry system

Managing pre-assembled cables is challenging for many plant manufacturers, especially when the cables run through cabinet or enclosure walls. A flexible cable entry system speeds up installation, facilitates service, and minimises downtime.

With the Cabtite cable entry system, maximal flexibility and time savings in cable management can be achieved. Assembled and unassembled cables in control cabinets, enclosures and machines are securely sealed and protected against tensile stress. The modular design consisting of a frame or cable gland, snap-in inlays and sealing elements allows quick configuration of cable entry cut-outs without tools and with reliable sealing in IP66 according to DIN EN 60529.

Your special advantages:

- · Maximum flexibility and time savings
- High IP protection class (IP66) as well NEMA 4x and 12
- Integrated strain relief acc. to DIN EN 62444
- Installation safety through simple handling with acoustic feedback
- Preservation of the manufacturer's guarantee for pre-assembled cables
- Fast adaptation of cable management in the event of system changes, service and maintenance cases



Use our online catalogue to find additional product details, technical information and additional services:

www.weidmueller.com/Cabtite



Handling-Video:

Cabtite Cable Entry System Frame Solution weidmueller.com/handling-cabtite-fs



Handling-Video:

Handling - Cabtite Cable Entry System separable retrofit Cable Gland Solution weidmueller.com/handling-cabtite-cgs

Cable entry system





Individual assembly

Whether with frames or with separable cable glands with inlay and sealing elements: the basic modular components guarantee maximal flexibility and a wide range of variants.



High reliability

One click informs the user about the correct installation and guarantees error-free operation. The foamed-in seals guarantee high IP and NEMA protection.



No loss of warranty

Due to the cut-in sealing elements, the cables and wires are precisely encased. Existing connectors do not have to be dismantled – and the manufacturer's warranty is maintained.

2712630000 **Weidmüller 3 E.3**

Cabtite SE - Sealing element small



Cable grommets

The Cabtite SE sealing elements are used in the Cabtite FR frame or in the separable cable gland Cabtite CGS. The conical design allows easy installation, reliably seals gaps and provides strain relief in accordance with DIN EN 62444. For installation, the sealing elements are pressed from the inside to the outside into the snap-in inlays previously fitted in the frame or, in the case of the Cabtite CGS divisible cable gland, are placed between the cable gland half-shells. Various sealing elements with different cable diameters and geometries are available.

Technical data

Material	TPE
Halogen / Silicone	No / No
Operating temperature, min.	Light Grey: -40 °C; Deep black: -40 °C
Operating temperature, max.	Light Grey: 90 °C; Deep black: 120 °C
UL 94 flammability rating	Light Grey: V-0; Deep black: HB
Note	

Ordering data

Ordering data	ol :	0.	D 11 1	11.140
Туре	Clamping range	Qty.	Deep black	Light Grey
			Order No.	Order No.
Individual sealing elements	4.5.0	4.0	050470000	050000000
CABTITE SE 1.5-2 SML	1.52 mm	10	2584780000	2583360000
CABTITE SE 2-3 SML	23 mm	10	2584760000	2583380000
CABTITE SE 3-4 SML	34 mm	10	2584730000	2583400000
CABTITE SE 4-5 SML	45 mm	10	2584680000	2583440000
CABTITE SE 5-6 SML	56 mm	10	2584710000	2583450000
CABTITE SE 6-7 SML	67 mm	10	2584690000	2583460000
CABTITE SE 7-8 SML	78 mm	10	2584670000	2584660000
CABTITE SE 8-9 SML	89 mm	10	2584330000	2584650000
CABTITE SE 9-10 SML	910 mm	10	2584080000	2584630000
CABTITE SE 10-11 SML	1011 mm	10	2584060000	2584610000
CABTITE SE 11-12 SML	1112 mm	10	2584040000	2584600000
CABTITE SE 12-13 SML	1213 mm	10	2584020000	2584590000
CABTITE SE 13-14 SML	1314 mm	10	2584000000	2584570000
CABTITE SE 14-15 SML	1415 mm	10	2583980000	2584560000
CABTITE SE 15-16 SML	1516 mm	10	2583960000	2584550000
Special geometry ASI				
CABTITE SE 1/ASI SML		10	2583530000	2584810000
CABTITE SE 2/ASI SML		10	2583520000	2584800000
Multiple sealing element				
CABTITE SE 2/4-5 SML	45 mm	10	2583620000	2584900000
CABTITE SE 2/5-6 SML	56 mm	10	2583610000	2584890000
CABTITE SE 2/7 SML	78 mm	10	2583550000	2584830000
CABTITE SE 2/8 SML	89 mm	10	2583540000	2584820000
CABTITE SE 3/5-6 SML	56 mm	10	2652280000	2652290000
CABTITE SE 4/2-3 SML	23 mm	10	2583590000	2584870000
CABTITE SE 4/3-4 SML	34 mm	10	2583580000	2584860000
CABTITE SE 4/4-5 SML	45 mm	10	2583560000	2584840000
Cone sealing element				
CABTITE CSE 2-11 SML	211 mm	10	2583510000	
Blind plugs				
CABTITE BSE SML		10	2584790000	2583350000
Note				

Cabtite SE - sealing elements large



Blanking plugs

Cone sealing element

The Cabite SE sealing elements in large design are identical in construction to those in small design. However, they can accommodate cables with a larger outer diameter.

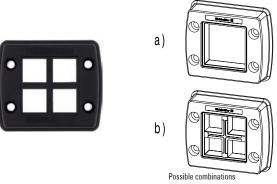
Technical data

Material	TPE
Halogen / Silicone	No / No
Operating temperature, min.	Deep black: -40 °C; Light Grey: -40 °C
Operating temperature, max.	Deep black: 120 °C; Light Grey: 90 °C
UL 94 flammability rating	Deep black: HB; Light Grey: V-O
Note	

Ordering data

Туре	Clamping range	Qty.	Deep black	Light Grey
			Order No.	Order No.
Individual sealing elements				
CABTITE SE 14-15 LRG	1415 mm	10	2583880000	2584510000
CABTITE SE 15-16 LRG	1516 mm	10	2583860000	2584500000
CABTITE SE 16-17 LRG	1617 mm	10	2583850000	2584490000
CABTITE SE 17-18 LRG	1718 mm	10	2583840000	2584480000
CABTITE SE 18-19 LRG	1819 mm	10	2583830000	2584470000
CABTITE SE 19-20 LRG	1920 mm	10	2583810000	2584460000
CABTITE SE 20-21 LRG	2021 mm	10	2583790000	2584450000
CABTITE SE 21-22 LRG	2122 mm	10	2583770000	2584440000
CABTITE SE 22-23 LRG	2223 mm	10	2583750000	2584430000
CABTITE SE 23-24 LRG	2324 mm	10	2583730000	2584420000
CABTITE SE 24-25 LRG	2425 mm	10	2583710000	2584410000
CABTITE SE 25-26 LRG	2526 mm	10	2583700000	2584400000
CABTITE SE 26-27 LRG	2627 mm	10	2583690000	2584390000
CABTITE SE 27-28 LRG	2728 mm	10	2583680000	2584370000
CABTITE SE 28-29 LRG	2829 mm	10	2583670000	2584350000
CABTITE SE 29-30 LRG	2930 mm	10	2583660000	2584380000
CABTITE SE 30-31 LRG	3031 mm	10	2583650000	2584360000
CABTITE SE 31-32 LRG	3132 mm	10	2583640000	2584340000
CABTITE SE 32-33 LRG	3233 mm	10	2583630000	2584920000
CABTITE SE 33-34 LRG	3334 mm	10	2595510000	2584910000
CABTITE SE 34-35 LRG	3435 mm	10	2595520000	2595530000
Cone sealing element				
CABTITE CSE 7-24 LRG	724 mm	10	2583500000	
Blind plugs				
CABTITE BSE LRG		10	2583900000	2584520000
Note				

Cabtite FR - CABTITE FR 4-1 BK SET



The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

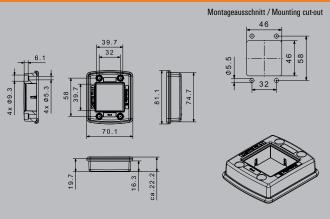
Ordering data

Туре	Qty.	Order No.
Set		
CABTITE FR 4-1 BK SET	1	2583780000
Single frame (without snap-in inlay)		
CABTITE FR 4-1 BK	1	2583490000
Note The individual frames do not contain any Rastinlays or sealing	ng elements.	

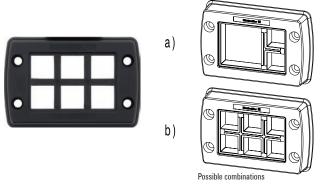
Accessories

Product type	Туре	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 4-1 BK	10	2584260000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite FR - CABTITE FR 10/6 BK SET



The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a or b) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameter.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

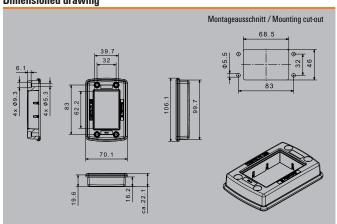
Ordering data

Туре	Qty.	Order No.
Set		
CABTITE FR 10/6 BK SE	T 1	2583760000
Single frame (without	snap-in inlay)	
CABTITE FR 10/6 BK	1	2583480000
Note	The individual frames do not contain any Rastinlays or sealing elements.	

Accessories

Product type	Туре	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 10/6 BK	10	2584240000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

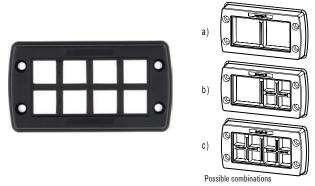
Dimensioned drawing



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E

Cabtite FR - CABTITE FR 16/8 BK SET



The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a, b or c) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameters.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

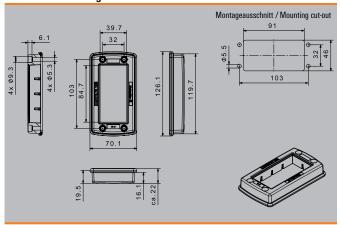
Ordering data

Туре	Qty.	Order No.
Set		
CABTITE FR 16/8 BK SET	1	2583740000
Single frame (without snap-in inlay)		
CABTITE FR 16/8 BK	1	2583470000
Note The individual frames do not contain any Rastinlays or sealing	g elements.	

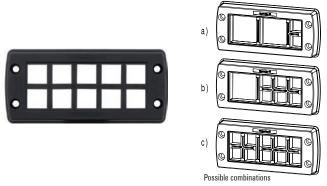
Accessories

Product type	Туре	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 16/8 BK	10	2584220000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite FR - CABTITE FR 24/10 BK SET



The one-piece frame, consisting of a dimensionally stable, fibreglass-reinforced plastic, is quick and easy to assemble and available in four different sizes. The foamed, captive seal guarantees a high degree of impermeability to IP66, even with painted or rough surfaces. The frame sets contain the appropriate Rastinlays to realize the individual configuration (see above a, b or c) of small and large sealing elements. The sealing elements are not included in the frame set and must be selected to match the cable diameters.

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 / Type 12, Type 4x
UL 94 flammability rating	V-0
Note	

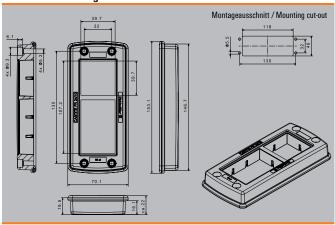
Ordering data

Туре	Qty.	Order No.
Set		
CABTITE FR 24/10 BK SE	ET 1	2583720000
Single frame (without s	snap-in inlay)	
CABTITE FR 24/10 BK	1	2583800000
Note	The individual frames do not contain any Rastinlays or sealing elements.	

Accessories

Product type	Туре	Qty.	Order No.
Locking frame (inside)	CABTITE FRL 24/10 BK	10	2584210000
Operating tool	CABTITE TOOL ATSE PA	1	2637360000
Mounting screw set	CABTITE SC M5X25 SET	1	2635120000
Note			

Dimensioned drawing



Cabtite CGD - separable cable gland

Cabtite GI - Rastinlay







Spare counter nut

For metric through holes from M20 to M63, the Cabtite cable entry system offers separable cable glands for cables with and without plugs. In case of maintenance or changes in the system, pre-assembled cables with diameters from 2 to 35 mm can be quickly and safely inserted into switch cabinets or housings. After inserting the sealing elements (Cabtite SE), the two halves of the cable gland are simply snapped together. A likewise separable lock nut on the inside of the cabinet ensures a secure and firm hold.

The insertable snap-in inlay allows the frame openings/cable glands to be configured as required for the small or large sealing elements used. Thus the Cabtite cable entry system can be variably configured for different requirements (cables, lines, hoses, pneumatic and hydraulic lines).

Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 /
UL 94 flammability rating	V-0
Note	

Ordering data

Туре	Qty.	Order No.
Divisible cable gland		
CABTITE CGS M20 BK	10	2584200000
CABTITE CGS M25 BK	10	2584180000
CABTITE CGS M32 BK	10	2584160000
CABTITE CGS M40 BK	5	2584150000
CABTITE CGS M50 BK	5	2584130000
CABTITE CGS M63 BK	5	2584120000
Articulated locknut		
CABTITE LNS M20 BK	10	2584110000
CABTITE LNS M25 BK	10	2584090000
CABTITE LNS M32 BK	10	2584070000
CABTITE LNS M40 BK	5	2584050000
CABTITE LNS M50 BK	5	2584030000
CABTITE LNS M63 BK	5	2584010000
Rastinly for M40-M63**		
CABTITE GI X BK	5	2584290000
Note	*The cable glands are supplied with a locknut. **The snap-in insert is requi sealing elements in the cable gland.	red to install 4 small

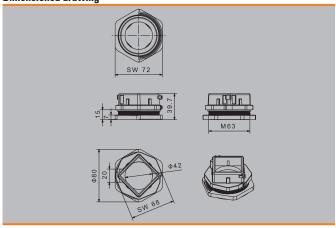
Technical data

Material	Polyamide, glass fibre-reinforced
Colour	Deep black
Operating temperature	-40120 °C
Protection class / Protection class (UL)	IP54, IP65, IP66 /
UL 94 flammability rating	V-0
Note	

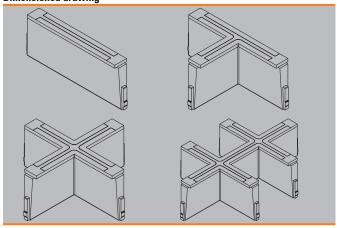
Ordering data

Туре	Qty.	Order No.
CABTITE GI I BK	5	2584320000
CABTITE GI T BK	5	2584300000
CABTITE GI H BK	5	2584270000
Rastinly for M40-M63**		
CABTITE GI X BK	5	2584290000
Note **The	locking inlay is required to install 4 small sealing elements in the cal	ole gland.

Dimensioned drawing



Dimensioned drawing



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Cabtite CR - Cable support strips (EMC)



In combination with a large number of different shield connection clamps (KLBÜ), the shield connection rails enable practical, uncomplicated and fast shielding of cables.

Cabtite BP - Blanking plug



The blind plugs are used for the safe closing of unneeded cable passages in the sealing elements.

Technical data

Material	Steel, galvanized	
Colour	silver	

Note

Ordering data

Туре	Qty.	Order No.
CABTITE CR 4-1 EMV	10	2583950000
CABTITE CR 10/6 EMV	10	2583930000
CABTITE CR 16/8 EMV	10	2583910000
CABTITE CR 24/10 EMV	10	2583890000
Note		

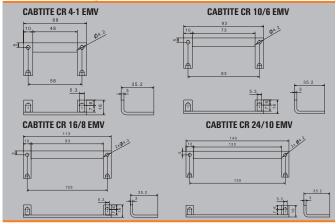
Technical data

Material	Polyamide
Colour	red
Operating temperature	-60100 °C
Note	

Ordering data

Туре	Qty.	Order No.
CABTITE BP 2MM PA	50	2652300000
CABTITE BP 3MM PA	50	2652310000
CABTITE BP 4MM PA	50	2652320000
CABTITE BP 5MM PA	50	2652330000
CABTITE BP 6MM PA	50	2652340000
CABTITE BP 7MM PA	50	2652350000
CABTITE BP 8MM PA	50	2652360000
CABTITE BP 9MM PA	50	2652370000
CABTITE BP 10MM PA	50	2652380000
CABTITE BP 12MM PA	50	2652400000
CABTITE BP 13MM PA	50	2652410000
CABTITE BP 14MM PA	50	2652420000
CABTITE BP 17MM PA	50	2652430000
CABTITE BP 20MM PA	50	2652440000
CABTITE BP 21MM PA	50	2652450000
CABTITE BP 25MM PA	50	2652460000
CABTITE BP 28MM PA	50	2652470000
CABTITE BP 35MM PA	50	2652480000
Note		

Dimensioned drawing



Tools

Tools Overview F.2

2712630000 **Weidmüller № F.1**

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Tools

At Weidmüller, we have been developing and manufacturing quality tools to meet the most stringent requirements for over 30 years. When we develop new solutions, we always keep our goal in mind: to make your job easier, optimise processes and help protect the long-term productivity of your business.

The best conditions for this can be created by using perfectly coordinated products and tools from a single source. Our range includes professional manual tools for cutting, stripping, crimping, testing and screwing. The assortment is supplemented by tool sets that sensibly and efficiently combine tools and matching accessories. Our machines simplify continually recurring tasks and save valuable time.

Your special advantages:

- · Increased safety thanks to the tool certification service
- · Flexibility in form and function
- High level of efficiency thanks to sophisticated ergonomics and multiple actions per work process
- Profitable interplay between products and tools from a single source

Stripping tools

Thanks to the exact adaptation to the insulation and wire cross-section, our professional stripping tools guarantee defect-free processing with consistently reliable stripping results. With its wide range of stripping tools, Weidmüller satisfies all the criteria for professional cable processing.



Cable gland tools

The Weidmüller cable gland tools are suitable for an extremely wide range of cable glands. They enable you to tighten or loosen several rows of connections without deforming the cable glands.

Screwdrivers

Weidmüller screwdrivers allow for the perfect handling of all grip sizes. They ensure maximum torques and optimal transfer of the axial force. Available in all standard dimensions.



Weidmüller is a specialist in the cutting of copper and aluminium cables. The range of products extends from cutting tools with direct force application for small cross-sections to cutting tools for large diameters.

2712630000 **Weidmüller** ₹ **F.3**

F.4 Weidmüller ₹ 2712630000

Service and support

Service and support	Our expertise for your requirements	V.:
	Benefit from optimum support when using our products	V.4

V

2712630000 **Weidmüller** ₹ **v.**1

Our expertise for your requirements Service connects - worldwide

Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity. Our worldwide network of industrial managers for machine construction, process automation, energy and traffic engineering and for device manufacturers know the challenges you face and can support you in your specific applications.

Training course on technologies, applications and the detailed functionality of our products is available to you locally or at our headquarter in Germany. Our personal support can answer any questions reliably and expertly. Our online services are available 365 day a year around the clock to provide answers to your questions on our products - from user documentation through software to planning tools.

In short: Weidmüller's global service combines our expertise with your requirements.





Professional advice on planning

Our global network of industrial managers has extensive experience in automation technology and electrical connectivity. This expertise allows us to assist you with advice and planning support in order to work with you on resolving the everyday challenges of your applications.



Technology and application training

Industrial automation is moving towards smart production. It faces the challenges of new technologies and applications. Our varied range of training courses develops this knowledge further or provides more in-depth information on the handling of our products and solutions. Our seminars are modular and can be customised. We can train you and your employees in our academy, on your premises if you wish or online in our webinars at any time.



Customised installation

The challenges for the future are reducing costs and increasing efficiency. This requires intelligent, individual solutions which are tailored to your requirements. We can offer a highly qualified customer-specific production service in our application centre. Whether you need modified products, pre-assembled terminal rails or complete small cabinets: we produce the solutions developed for your application quickly and flexibly.

2712630000 **Weidmüller № v.3**

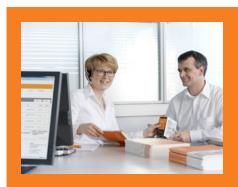
Online support and downloads

Exactly the right help and information on our solutions and products

If our products are used in your automation technology applications, you need the best possible individual support, from planning through installation to operation.

For every stage of your application, we can offer the right tools and information for our products and solutions. Up-to-date, uncomplicated, comprehensive and around the clock via our service portal at www.weidmueller.com/service.

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Here you will find information on the CE declaration of conformity, on RoHS and REACH and other company related certificates and approvals.

V.6 Weidmüller ₹ 2712630000

W.15

Technical appendix

Technical appendix
Directive 1999/92/EC

ATEX directive 2014/34/EU

W.5

IECEx scheme
W.6

Hazardous areas guide
W.7

IP class of protection
W.10

Guidelines for selecting cable glands
W.12

Ratings plate of an empty enclosure
W.2

Type label for enclosure assemblies



2712630000 **Weidmüller** ₹ W.1

Directive 1999/92/EC

Article 137 of the European Community Formation Treaty set out the minimum standards in order to improve workers' health and safety, this can also be put at risk by explosive atmospheres. An explosive atmosphere is a mixture of air and flammable gasses, vapours, mists or dust under atmospheric conditions where, following successful ignition, the burning process will propagate throughout the whole unburned mixture.

The directive 1999/92/EC was transferred into national law. Compliance with the minimum standards contained in this directive does not guarantee that all relevant national laws are met. It is possible for local regulators to introduce more stringent requirements.

The employer is required, according to the directive 1999/92/EC, to take measures to ensure the health and safety of the employees. One measure is the division of the area into zones where explosive atmospheres could be present.

Unless the risk analysis conducted by the employer indicates otherwise, all areas where an explosive atmosphere may be present must be equipped with devices and protective systems that meet the relevant category of the ATEX directive 2014/34/EU.

In particular in these zones the following categories of equipment should be used, as long as they are suitable for use with gases, vapours, mists or dusts:

- In Zone 0 or Zone 20: category 1 devices
- In Zone 1 or Zone 21: category 1 or category 2 devices
- In Zone 2 or Zone 22: category 1, category 2 or category 3 devices

Zoning according to the directive 1999/92/EC

Explosion risk areas are classified into zones according to likelihood of explosive atmospheres occurring and their persistence.

Zone 0

An area which has a potentially explosive atmosphere that is a mixture of air and **flammable gases, vapours or mists**. The mixture is either permanently present or frequently present over long periods of time.

Zone 1

An area in which during normal operations a potentially explosive atmosphere of air and **flammable gases**, **vapours or mists** can occasionally form.

Zone 2

An area for which during normal operations there is at most only a short-term occurrence of a potentially explosive atmosphere of mixtures of air and **flammables gases**, **vapours or mists**.

Zone 20

An area where a potentially explosive atmosphere is present in the form of a **flammable dust** cloud in the air. This cloud is either permanently present or frequently present over long periods of time.

Zone 21

An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air can occasionally form.

Zone 22

An area where, during normal operations, a potentially explosive atmosphere in the form of a **flammable dust** cloud in the air is not normally present or only present for a short time.

For the risk assessment and as well as the zoning concept described above, Ex devices themselves can be considered in an alternative process which uses the equipment protection level (EPL). These protective levels determine the internal ignition risk of a device where the sort of applied protection does not play a role.



The system of EPL classifications (Equipment Protection Level) is shown below.

Firedamp (methane) risk mines (Group I)

EPL Ma

Equipment for installation in mining applications, offering a "very high" level of protection and which do not constitute a source of ignition during normal operation, or in the event of rarely occurring faults.

EPL Mb

Equipment for installation in a mine with a high level of rotection. Has sufficient safety to ensure that there is no source of ignition in the period of time between the outbreak of gas and the time the equipment is switched off.

Gases (Group II)

EPL Ga

Equipment for explosive-risk gas atmospheres with a very high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

EPL Gb

Equipment for explosive-risk gas atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

EPL Gc

Equipment for explosive-risk gas atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).

Dust (Group III)

EPL Da

Equipment for combustible dust atmospheres with a very high level of protection. No source of ignition is present during normal operation or in very rare faults.

EPL Db

Equipment for combustible dust atmospheres with a high level of protection. No source of ignition is present during normal operation or when errors occur that cannot be necessarily expected on a regular basis.

EPL Dc

Equipment for combustible dust atmospheres with an elevated level of protection. No source of ignition is present during normal operation and it can have additional safeguards to ensure that none is present during faults which happen regularly (e. g. failure of a lamp).





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Classification of explosive groups

Electrical devices for groups II and III are classified further as a function of the properties of the explosive atmosphere for which they are intended.

The danger of the atmosphere increases from IIA(IIIA) to IIC(IIIC) so that all equipment certified for use in IIC(IIIC) areas may also be used in IIA(IIIA) and IIB(IIIB) areas.

Classification of explosive groups

Group	Material, e.g.	Ignition energy	Group	Material
IIA	Propane	266 μJ	IIA	Flammable fluff
IIB	Ethylene	85 μJ	IIB	Non-conductive dust
IIC	Hydrogen	19 μJ	IIC	Conductive dust

Classification of zones and equipment categories

Combustible			olosive Zone Identification	ication	
ingredients	ients atmospheres division	EPL safety level	Equipment group	Device category	
Gas, mist, vapours/fumes (G / Gas)	permanent, long-term	Zone O	Ga	II	1G
	occasionally	Zone 1	Gb	II	2G
	unlikely, short-term	Zone 2	Gc	II	3G
Dusts (D / Dust)	permanent, long-term	Zone 20	Da	II	1D
	occasionally	Zone 21	Db	II	2D
	unlikely, short-term	Zone 22	Dc	II	3D



ATEX directive 2014/34/EU

Article 96 of the Treaty on the Foundation of the European Union and Decision no. 768/2008/EU and Federal Gazette 96/309-356 govern the standardisation of legal regulations in the Member States. The ATEX directive 2014/34/EU sets out the basic requirements for health and safety protection as a directive following the new concept. It is aimed at manufacturers of equipment and components designed for used in potentially explosive atmosphere areas.

This directive had to be adopted without deviation into national law.

For Germany, this took the form of the passing of the Explosion Protection Ordinance (2015 ExVo 2015) of the Product Safety Act (ProdSG). It applies to all industrial potentially explosive areas, including mines, and also covers protection from dust-ignited explosions.

This directive sets out the requirements for the products depending on their equipment group and category. This is the category as set down by the directive 1999/92/EC applicable for each appropriate zone.

To prove conformity with the basic health and safety regulations, harmonised standards are used. If the requirements as laid out in the Official Journal of the EU are met, then it will be in compliance with the standard requirements for conformity (presumption of conformity). Various, mostly equivalent, protection types have been standardised harmoniously.

This conformity assessment process of the directives sets out different procedures. For device category 3, the manufacturer can perform the conformity assessment itself. For devices of categories 1 and 2, this conformity check must be carried out at a notified body in the form of a EC type-examination. In addition, quality assurance must be monitored for the devices of categories 1, 2 and 3.

Weidmüller has devices and components in its product range. Empty enclosures are components and are certified at the factory as such. Installing certified components does not create a certified equipment. To do this, additional tests must be carried out.

Weidmüller offers customer-specific devices available as certified solutions. The production of assembled enclosures is monitored by a notified body.

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IECEx scheme

The IECEx scheme is an international certification scheme for products which meet the requirements of the international standards, e.g. the technical committee TC31's IEC standards.

The certificates awarded in this scheme are published on the IECEx website (www.iecex.com) as an electronic certificate. They can be viewed online and printed out.

A Certificate of Conformity (CoC) refers to a test report (Ex Test Report ExTR) and on an assessment of the quality assessment report from the manufacturer (QAR).

The standards used for the production of the test report correspond almost entirely to the harmonised standards in Europe. Recent EN standards were initially adopted as IEC standards.

Protection concepts

The zoning described above provides the basis for the selection of the type of ignition protection. So, as an example, in the ATEX applicable areas, only ignition protection devices meeting Ex ia for Zone 0 (highest probability of an explosive atmosphere being present) are allowed.

Increased safety Ex e No sparks and a surface temperature limited to a safe level



Increased safety is for products where there are no sparks produced during normal operation or in case of a failure. The surface temperature of the relevant parts is limited to a value below the ignition temperature.

Increased safety is achieved by reducing the current load and raising the isolation properties and by maintaining clearance and creepage distances above the value in an industrial application. The highest voltage permitted for this protection scheme is 11 kV (D.C. or A.C. rms).

This protection scheme is usually used for distribution cabinets..

Intrinsically safe Ex i Limited to a safe level of ignition energy



Intrinsic safety is for products where electrical energy which flows into the product, or is stored in the product, is not sufficient to ignite the surrounding explosive atmosphere. This also applies in fault

conditions. The methods that achieve intrinsic safety mean that it is important that not only the devices installed in direct contact with the explosive atmosphere are constructed correctly, but also the electrical devices to which they are connected.

Intrinsically safe equipment and intrinsically safe parts of the associated equipment are divided into protection levels: ia (for zones 0, 1, and 2), ib (for zones 1 and 2), and ic (only for zone 2).

A typical application area are control and display circuits with low voltage and current.

Pressure-resistant Ex d encapsulation Limits the explosion to the inside of the enclosure



Pressure-resistant encapsulated enclosures are designed for devices where sparks are generated or which have hot surfaces which are a source of ignition during normal operation. Similarly, industrial components

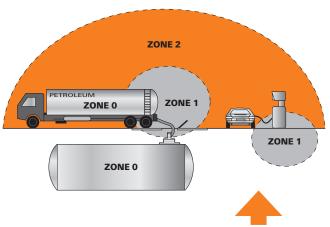
for use in potentially explosive atmospheres are often made suitable by encapsulating them in a pressure-resistant enclosure which otherwise could not be used.

The surrounding possibly explosive atmosphere can enter the enclosure and will produce an internal explosion during the equipment's lifespan.

The enclosure must therefore be stable enough to ensure that it is not deformed or destroyed by the pressure created. All connections of the enclosure are sized so that they cannot transmit an explosion from inside to the surrounding atmosphere. These connections are known as ignition gaps.

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Area classification

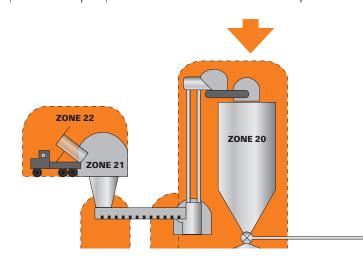


Gas groups

IIA	e.g. Propane
IIB	e.g. Etyhlene
IIC	e.g. Hydrogen



			_				
acı	uipment group :. to directive 14/34/EU		pment category o directive 2014/34/EU	Classification of hazardous areas acc. to directive 1999/92/EG	Group acc. to IEC/EN 60079-0	Combustible materials	Equipment protection level (EPL acc. to IEC/EN 60079-0)
I	Mining	M1	very high level of protection; remain functional at occurrence of Ex-atmosphere		1	Methane,	Ma
I	Mining	M2	high level of protection; de-energized at occurrence of Ex-atmosphere		1	Carbon dust	Mb
II		1	very high level of protection; save even in an event of rare incidents	0	II	Gases.	Ga
II	Other industries (except mining)	2	high level of protection; save even in an event of predictable failures	1	II	Vapours, Mists	Gb
II		3	normal level of protection; save during normal operation	2	II	(G)	Gc
II		1	very high level of protection; save even in an event of rare incidents	20	III		Da
II	Other industries (except mining)	2	high level of protection; save even in an event of predictable failures	21	III	Dust (D)	Db
II		3	normal level of protection; save during normal operation	22	III		Dc





Dust groups

IIIA	Combustible flyings
IIIB	Non-conductive dust
IIIC	Conductive dust

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Types of Protection

Types of protection for electrical equipment

in explosive gas atmospheres

Type of	Symbol		Norm
protection			
increased	eb	junction boxes, control stations for installing	IEC 60079-7
safety		Ex-components (with a different type of	EN 60079-7
		protection), squirrel-cage motors, light fittings	ISA 60079-7
flameproof	db	switchgears, control stations, indicating	IEC 60079-1
enclosures		equipment, control systems, motors,	EN 60079-1
		transformers, heating equipment, light fittings	ISA 60079-1
pressurized	pxb	switchgear and control cabinets, analysers,	IEC 60079-2
enclosures	pyb	large motors	EN 60079-2
	pzc		ISA 60079-2
intrinsic	ia	instrumentation technology, fieldbus	IEC 60079-11
safety	ib	technology, sensors, actuators	EN 60079-11
	ic	[Ex ib] = associated electrical apparatus -	ISA 60079-11
		installation in the safe area	
		intrinsically safe systems	IEC 60079-25
			EN 60079-25
		FISCO: fieldbus intrinsically-safe concept	IEC 60079-27
			EN 60079-27
			ISA 60079-27
oil immersion	ob	transformers, starting resistors	IEC 60079-6
			EN 60079-6
			ISA 60079-6
powder	qb	sensors, display units, electronic ballasts,	IEC 60079-5
filling		transmitters	EN 60079-5
			ISA 60079-5
encapsu-	ma	switchgear with small capacity, control and	IEC 60079-18
lation	mb	signalling units, display units, sensors	EN 60079-18
	mc		ISA 60079-18
type of	nAc	all electrical equipment for Zone 2	IEC 60079-15
protection	nCc	nA = non-sparking device	EN 60079-15
"n"	nRc	nC = sparking devices and components	ISA 60079-15
		nL = energy limited apparatus	
		nR = restricted breathing enclosures	
optical	op_a	op is = inherently safe optical radiation	IEC 60079-28
radiation	op_b	op pr = protected optical radiation	EN 60079-28
	op_c	op sh = optical radiation interlock	

Types of protection for electrical equipment

in explosive dust atmospheres

Type of protection	Symbol	Main application	Norm
protection by	ta	switchgear, control stations, junction boxes,	IEC 60079-31
enclosures	tb	control boxes, motors, light fittings	EN 60079-31
	tc		ISA 60079-31
pressuri-	pb	switchgear and control cabinets, motors	IEC 60079-2
zation	рс		EN 60079-2
			ISA 60079-2
intrinsic	ia	instrumentation technology,	IEC 60079-11
safety	ib	fieldbus technology, sensors, actuators	EN 60079-11
	ic	[Ex ib] = associated electrical apparatus	ISA 60079-11
		- installation in the safe area	
encapsu-	ma	switchgear with small capacity, control and	IEC 60079-18
lation	mb	signalling units, display units, sensors	EN 60079-18
	mc		ISA 60079-18



Temperature class

Classification of the maximum surface temperatures into

temperature classes for eletrical equipment of group II

Temperature class ATEX/IECEx	Temperature class NEC/UL (AEx)	Maximum surface	temperature
T1	T1	450 °C	842 °F
T2	T2	300 °C	572 °F
	T2A	280 °C	536 °F
	T2B	260 °C	500 °F
	T2C	230 °C	446 °F
	T2D	215 °C	419 °F
T3	T3	200 °C	392 °F
	T3A	180 °C	356 °F
	T3B	165 °C	329 °F
	T3C	160 °C	320 °F
T4	T4	135 °C	275 °F
	T4A	120 °C	248 °F
T5	T5	100 °C	212 °F
T6	T6	85 °C	185 °F
IEC/DIN EN 60079-0	NEC500ff	°C	°F

Certifications worldwide





IP class of protection to DIN EN 60529

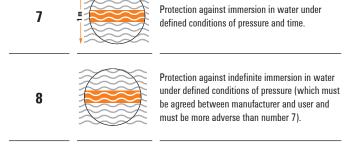
The ingress protection class or IP rating is indicated by a code consisting of the two letters IP and two digits representing the class of protection.

IP65 Example:

> 2nd digit: protection from liquids 1st digit: protection from solid bodies

Protection against intrusion of external particle matter (1st digit)

Protection against penetration of liquids (2nd digit) **Code digit Code digit** 0 0 No protection No protection Protection against ingress of large solid bodies with diameter > 50 mm. (Protection to prevent Protection against drops of condensed water 1 dangerous parts being touched with the back of falling vertically. the hand.) Protection against ingress of large solid bodies Protection against drops of liquid falling at an 2 with diameter > 12.5 mm. (Protection to prevent 2 angle of 15° with respect to the vertical. dangerous parts being touched with the fingers.) Protection against ingress of large solid bodies Protection against drops of liquid falling at an 3 with diameter > 2.5 mm. (Protection to prevent 3 angle of 60° with respect to the vertical. dangerous parts being touched with a tool.) Protection against ingress of large solid bodies with diameter > 1 mm. (Protection to prevent Protection against liquids splashed from any 4 4 dangerous parts being touched with a piece of 1,0 mm Protection against harmful deposits of dust, Protection against water jets projected by a 5 which cannot enter in an amount sufficient to 5 nozzle from any direction. interfere with satisfactory operation. Protection against water from heavy sea on 6 Complete protection against ingress of dust. 6 ships'decks.



Definition of the protection degrees according to NEMA, UL and CSA

Туре	NEMA	UL	CSA
Designation	National Electrical Manufacturers Association NEMA 250-1991	Underwriters Laboratories Inc. UL 50 und UL 508	Canadian Standards Association CSA-C22.2 No. 94-M91
Туре 1	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies.	Enclosure for general use. Protection against accidental contact with live components.
Туре 2	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure predominately for indoor use. Protection against penetration by solid foreign bodies and water.	Enclosure for indoor use. Protection against non-corrosive drops/splashes of liquid and foreign bodies.
Туре 3	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure predominately for indoor use. Protection against penetration by rainfall and dust as well as damage due to ice formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
Type 3R	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure predominately for indoor use. Protection against rain and snow as damage due to ice-formation.	Enclosure for indoor or outdoor use. Protection against penetration by rainfall and snow as well as damage due to ice formation.
Type 3S	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure predominately for indoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.	Enclosure for indoor or outdoor use. Protection against rain, snow and foreign bodies. External mechanisms can be operated despite ice accumulation.
Туре 4	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, snow, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
Туре 4Х	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against corrosion, rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against rain, foreign bodies, splashing water and hose water as well as damage due to ice-formation on the outside of the enclosure.
Туре 6	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against hose water as well as against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.	Enclosure for indoor or outdoor use. Protection against penetration by water during immersion; protection damage due to ice formation on the outside of the enclosure.
Туре 12	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor use. Protection against dust accumulation, foreign bodies and non-corrosive drops of liquids.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid drips, without pre-formed openings.
Туре 13	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor use. Protection against dust build-up, splashing water, oil, and non-corrosive coolants.	Enclosure for indoor or outdoor use. Protection against a build-up of dust, fibres and foreign bodies as well as against non-corrosive liquid sprays including oil and coolants.

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2712630000 **Weidmüller № W.11**

Guidelines for selecting cable glands

The sizes quoted were based on stranded cables. Please note the clamping range for the cable gland you have selected.

Cross-section	No. of conductors	Cable ø approx. mm
0.5 mm ²	2	5.7 - 8.7
AWG 20	3	6.0 - 9.0
	4	6.7 - 9.7
	5	7.2 - 10.2
	6	7.6 - 10.6
	7	8.0 - 10.6
	8	9.4 - 12.8
	10	9.4 - 12.8
	12	9.7 - 12.9
	14	10.2 - 13.4
	16	10.7 - 13.9
	21	12.3 - 15.1
	24	13.5 - 16.7
	30	14.3 - 17.5
	35	16.0 - 18.6
	40	16.6 - 19.2
	52	19.2 - 21.6
	61	20.3 - 23.1
	80	22.9 - 25.7
	100	26.4 - 29.6
).75 mm²	2	6.8 - 9.8
AWG 18	3	7.2 - 9.7
	4	7.9 - 10.3
	5	8.9 - 10.9
	6	8.9 - 12.3
	7	9.6 - 12.3
	8	10.4 - 13.8
	9	10.7 - 13.9
	10	10.4 - 13.8
	12	10.7 - 13.9
	15	12.3 - 13.5
	18	13.0 - 16.2
	21	13.6 - 16.8
	25	15.9 - 18.5
	32	17.1 - 19.7
	40	19.0 - 21.4
	50	21.3 - 24.1
	61	22.6 - 25.4
	80	26.1 - 29.3
	100	29.4 - 33.0
mm²	2	7.1 - 10.1
WG 16-18	3	7.5 - 10.1
	4	8.4 - 10.7
	5	9.2 - 11.4
	6	9.2 - 12.6
	7	9.2 - 12.6
	8	11.0 - 14.4
	9	11.8 - 15.2
	10	11.0 - 14.4
	12	11.8 - 14.6
	14	12.4 - 15.2
	16	13.0 - 16.2
	18	13.7 - 16.9
	20	14.4 - 17.6
	24	16.5 - 19.1
	25	16.9 - 19.5
	34	19.4 - 21.8
	48	22.0 - 24.8
	56	23.2 - 26.0
	61	24.5 - 27.2
	80	27.7 - 30.9
	100	31.8 - 35.2

Metr	ic cable (glands					
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	11	13.5	16	21			
	11	13.5	16	21			
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				21	29	36	
				21	29	36	
					29	36	
						36 36	42
						აი	44

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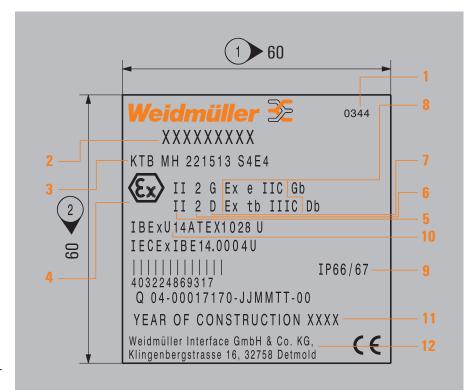
Cross-section	No. of conductors	Cable ø approx. mm	Metr	ic cable	glands						PG							
1.5 mm ²	2	8.0 - 11.0	12	16	20						9	11	13.5	16				
AWG 16	3	8.7 - 11.0		16	20	25					9	11	13.5	16				
	4	9.7 - 11.8		16	20	25					9	11	13.5	16				
	5	10.8 - 13.0			20	25						11	13.5	16				
	6	10.8 - 14.2			20	25						11	13.5	16				
	7	10.8 - 14.2			20	25						11	13.5	16				
	8	13.2 - 16.6				25	32						13.5	16	21			
	11	13.6 - 16.8				25	32						13.5	16	21			
	12	17.6 - 16.8				25	32						13.5	16	21			
	14	14.4 - 17.6				25	32							16	21			
	16	15.8 - 18.4				25	32							16	21			
	18	16.6 - 19.2				25	32								21	29		
	20	17.4 - 20.0				25	32	40							21	29		
	25	20.2 - 23.0					32	40							21	29		
	32	23.8 - 24.5						40								29	36	
	34	22.6 - 25.4						40								29	36	
	42	25.8 - 29.0						40	50							29	36	
	50	27.0 - 30.2						40	50							29	36	
	56	27.8 - 31.0						40	50							29	36	
-	61	28.6 - 31.8						40	50								36	
	80	33.0 - 36.4							50	63							36	42
	90	34.6 - 37.6							50	63							36	42
	100	37.8 - 41.4							50	63								42
2.5 mm ²	2	9.8 - 12.8		16	20	25					9	11	13.5	16				
AWG 12-14	3	10.6 - 13.4			20	25						11	13.5	16				
	4	11.7 - 14.4			20	25						11	13.5	16				
	5	13.0 - 16.4			20	25	32						13.5	16	21			
	6	13.3 - 16.7				25	32						13.5	16	21			
	7	13.3 - 16.7				25	32						13.5	16	21			
	8	17.4 - 20.8				25	32	40							21	29		
	11	18.0 - 20.6				25	32	40							21	29		
	16	20.6 - 23.4					32	40							21	29		
	18	21.7 - 24.5						40								29	36	
	25	26.4 - 29.6						40	50							29	36	
	34	31.3 - 33.1						40	50								36	42
	50	37.0 - 39.4							50	63								42
	61	39.0 - 41.5							50	63								42
4 mm ²	2	10.7 - 14.1			20	25						11	13.5	16	21			
AWG 10-12	4	13.0 - 16.4				25	32						13.5	16	21			
	5	14.3 - 17.7				25	32							16	21			
	7	16.2 - 19.6				25	32								21	29	36	
	11	ca. 24.5						40								29	36	

The values can differ between manufacturers. These figures should be considered as rough guidelines.

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Ratings plate of an Ex-certified empty enclosure

- 1 Number of the notified body
- 2 Part No.
- 3 Part designation
- 4 Ex marking
- 5 Equipment group
- 6 Device category
- G Gas (gas)
 - D flammable dust
- 8 Explosion protection type
- 9 IP ingress protection class (DIN EN 60529)
- 10 EC type-examination certificate
- 11 Year of manufacture
- 12 Name and address of manufacturer

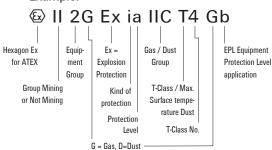


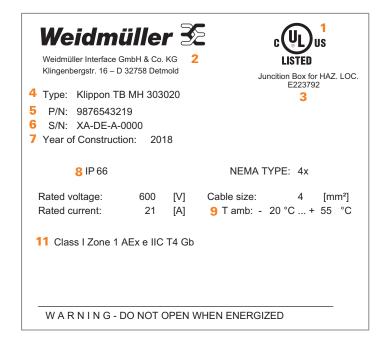
W

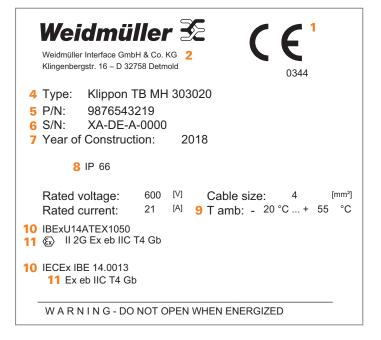
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Type label for enclosure assemblies

- 1 Certification conditions and logo
- Name and address of manufacturer
- 3 Approval number
- 4 Part designation
- 5 Part No.
- 6 Serial number
- 7 Year of Contruction
- 8 IP ingress protection class
- 9 Ambient temperature
- 10 Approval number
- 11 Ex marking Example:







W



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	Index Order No.	X.11
	Addresses worldwide	X.20



2712630000 **Weidmüller № X.1**

Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page
A			CABTITE SE 2-3 SML BK	2584760000	E.4	DAE M12 PA LONG	1868570000	C.107	DAE M12 SS	1868550000	C.173
ADAP EX M20-M16	1737560000	C.153	CABTITE SE 2-3 SML GY CABTITE SE 2/4-5 SML BK	2583380000 2583620000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.108 C.109	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.174 C.178
ADAP EX M20-M16	1737560000	C.153	CABTITE SE 2/4-5 SML GY	2584900000	E.4	DAE M12 PA LONG	1868570000	C.110	DAE M12 SS	1868550000	C.170
ADAP EX M20-M16	1737560000	C.155	CABTITE SE 2/5-6 SML BK	2583610000	E.4	DAE M12 PA LONG	1868570000	C.111	DAE M12 SS	1868550000	C.180
ADAP EX M20-M16	1737560000	C.156	CABTITE SE 2/5-6 SML GY CABTITE SE 2/7 SML BK	2584890000 2583550000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.112 C.113	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.181 C.182
В			CABTITE SE 2/7 SML GY	2584830000	E.4	DAE M12 PA LONG	1868570000	C.114	DAE M12 SS	1868550000	C.183
			CABTITE SE 2/8 SML BK	2583540000	E.4	DAE M12 PA LONG	1868570000	C.132	DAE M12 SS	1868550000	C.185
BK 4/E	7906080000	C.116	CABTITE SE 2/8 SML GY CABTITE SE 2/ASI SML BK	2584820000 2583520000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.133 C.134	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.186 C.187
C			CABTITE SE 2/ASI SML GY	2584800000	E.4	DAE M12 PA LONG	1868570000	C.135	DAE M12 SS	1868550000	D.60
			CABTITE SE 20-21 LRG BK	2583790000	E.4	DAE M12 PA LONG	1868570000	C.136	DESC M6X14 KTB SET	1253230000	C.15
CABTITE BP 10MM PA CABTITE BP 12MM PA	2652380000 2652400000	E.8 E.8	CABTITE SE 20-21 LRG GY CABTITE SE 21-22 LRG BK	2584450000 2583770000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.137 C.138	DESC M6X14 KTB SET DESC M6X14 KTB SET	1253230000 1253230000	C.16 C.17
CABTITE BP 13MM PA	2652410000	E.8	CABTITE SE 21-22 LRG GY	2584440000	E.4	DAE M12 PA LONG	1868570000	C.139	DESC M6X14 KTB SET	1253230000	C.18
CABTITE BP 14MM PA	2652420000	E.8	CABTITE SE 22-23 LRG BK	2583750000	E.4	DAE M12 PA LONG	1868570000	C.140	DESC M6X14 KTB SET	1253230000	C.19
CABTITE BP 17MM PA	2652430000	E.8	CABTITE SE 22-23 LRG GY CABTITE SE 23-24 LRG BK	2584430000 2583730000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.141 C.142	DESC M6X14 KTB SET DESC M6X14 KTB SET	1253230000 1253230000	C.20 C.21
CABTITE BP 20MM PA CABTITE BP 21MM PA	2652440000 2652450000	E.8 E.8	CABTITE SE 23-24 LRG GY	2584420000	E.4	DAE M12 PA LONG	1868570000	C.142	DESC M6X14 KTB SET	1253230000	C.22
CABTITE BP 25MM PA	2652460000	E.8	CABTITE SE 24-25 LRG BK	2583710000	E.4	DAE M12 PA LONG	1868570000	C.144	DESC M6X14 KTB SET	1253230000	C.23
CABTITE BP 28MM PA	2652470000	E.8	CABTITE SE 24-25 LRG GY	2584410000	E.4	DAE M12 PA LONG	1868570000	C.145	DESC M6X14 KTB SET	1253230000	C.24
CABTITE BP 2MM PA CABTITE BP 35MM PA	2652300000 2652480000	E.8 E.8	CABTITE SE 25-26 LRG BK CABTITE SE 25-26 LRG GY	2583700000 2584400000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.146 C.147	DESC M6X14 KTB SET DESC M6X14 KTB SET	1253230000 1253230000	C.25 C.26
CABTITE BP 3MM PA	2652310000	E.8	CABTITE SE 26-27 LRG BK	2583690000	E.4	DAE M12 PA LONG	1868570000	C.148	DESC M6X14 KTB SET	1253230000	C.27
CABTITE BP 4MM PA	2652320000	E.8	CABTITE SE 26-27 LRG GY	2584390000	E.4	DAE M12 PA LONG	1868570000	C.170	DESC M6X14 KTB SET	1253230000	C.28
CABTITE BP 5MM PA	2652330000	E.8	CABTITE SE 27-28 LRG BK	2583680000	E.4 E.4	DAE M12 PA LONG	1868570000	C.171	DESC M6X14 KTB SET	1253230000	C.29
CABTITE BP 6MM PA CABTITE BP 7MM PA	2652340000 2652350000	E.8	CABTITE SE 27-28 LRG GY CABTITE SE 28-29 LRG BK	2584370000 2583670000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.172 C.173	DESC M6X14 KTB SET DESC M6X14 KTB SET	1253230000 1253230000	C.30 C.31
CABTITE BP 8MM PA	2652360000	E.8	CABTITE SE 28-29 LRG GY	2584350000	E.4	DAE M12 PA LONG	1868570000	C.174	DESC M6X14 KTB SET	1253230000	C.32
CABTITE BP 9MM PA	2652370000	E.8	CABTITE SE 29-30 LRG BK	2583660000	E.4	DAE M12 PA LONG	1868570000	C.178	DESC M6X14 KTB SET	1253230000	C.33
CABTITE BSE LRG BK CABTITE BSE LRG GY	2583900000 2584520000	E.4 E.4	CABTITE SE 29-30 LRG GY CABTITE SE 3-4 SML BK	2584380000 2584730000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.179 C.180	DESC M6X14 KTB SET DESC M6X14 KTB SET	1253230000 1253230000	C.34 C.35
CABTITE BSE SML BK	2584520000	E.4	CABTITE SE 3-4 SML GY	2583400000	E.4	DAE M12 PA LONG	1868570000	C.181	DESC M6X14 KTB SET	1253230000	C.36
CABTITE BSE SML GY	2583350000	E.4	CABTITE SE 3/5-6 SML BK	2652280000	E.4	DAE M12 PA LONG	1868570000	C.182	DESC M6X14 KTB SET	1253230000	C.44
CABTITE CGS M20 BK	2584200000	E.7	CABTITE SE 3/5-6 SML GY	2652290000	E.4	DAE M12 PA LONG	1868570000	C.183	DESC M6X14 KTB SET	1253230000	C.45
CABTITE CGS M25 BK CABTITE CGS M32 BK	2584180000 2584160000	E.7	CABTITE SE 30-31 LRG BK CABTITE SE 30-31 LRG GY	2583650000 2584360000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.185 C.186	DESC M6X14 KTB SET DESC M6X14 KTB SET	1253230000 1253230000	C.46 C.47
CABTITE CGS M40 BK	2584150000	E.7	CABTITE SE 31-32 LRG BK	2583640000	E.4	DAE M12 PA LONG	1868570000	C.187	DOHA KTB A4 S2 R	1252730000	C.26
CABTITE CGS M50 BK	2584130000	E.7	CABTITE SE 31-32 LRG GY	2584340000	E.4	DAE M12 PA LONG	1868570000	D.59	DOHA KTB A4 S2 R	1252730000	C.27
CABTITE CGS M63 BK	2584120000	E.7	CABTITE SE 32-33 LRG BK	2583630000	E.4 E.4	DAE M12 PA SHORT	1868560000	D.59 C.52	DOHA KTB A4 S2 R	1252730000	C.28 C.29
CABTITE CR 10/6 EMV CABTITE CR 16/8 EMV	2583930000 2583910000	E.8 E.8	CABTITE SE 32-33 LRG GY CABTITE SE 33-34 LRG BK	2584920000 2595510000	E.4	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.52	DOHA KTB A4 S2 R DOHA KTB A4 S2 R	1252730000 1252730000	C.30
CABTITE CR 24/10 EMV	2583890000	E.8	CABTITE SE 33-34 LRG GY	2584910000	E.4	DAE M12 SS	1868550000	C.54	DOHA KTB A4 S2 R	1252730000	C.31
CABTITE CR 4/1 EMV	2583950000	E.8	CABTITE SE 34-35 LRG BK	2595520000	E.4	DAE M12 SS	1868550000	C.55	DOHA KTB A4 S2 R	1252730000	C.32
CABTITE CSE 2-11 SML BK CABTITE CSE 7-24 LRG BK	2583510000 2583500000	E.4 E.4	CABTITE SE 34-35 LRG GY CABTITE SE 4-5 SML BK	2595530000 2584680000	E.4 E.4	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.56 C.57	DOHA KTB A4 S2 R DOHA KTB A4 S2 R	1252730000 1252730000	C.33 C.34
CABTITE FR 10/6 BK	2583480000	E.5	CABTITE SE 4-5 SML GY	2583440000	E.4	DAE M12 SS	1868550000	C.58	DOHA KTB A4 S2 R	1252730000	C.35
CABTITE FR 10/6 BK SET	2583760000	E.5	CABTITE SE 4/2-3 SML BK	2583590000	E.4	DAE M12 SS	1868550000	C.59	DOHA KTB A4 S2 R	1252730000	C.36
CABTITE FR 16/8 BK	2583470000	E.6	CABTITE SE 4/2-3 SML GY	2584870000	E.4	DAE M12 SS	1868550000	C.60	DOHA KTB A4 S2 R	1252730000	C.47
CABTITE FR 16/8 BK SET CABTITE FR 24/10 BK	2583740000 2583800000	E.6 E.6	CABTITE SE 4/3-4 SML BK CABTITE SE 4/3-4 SML GY	2583580000 2584860000	E.4 E.4	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.61 C.62	DOHA KTB A5 S2 R DOHA KTB A5 S2 R	1252750000 1252750000	C.24 C.25
CABTITE FR 24/10 BK SET	2583720000	E.6	CABTITE SE 4/4-5 SML BK	2583560000	E.4	DAE M12 SS	1868550000	C.68	DOHA KTB A5 S2 R	1252750000	C.26
CABTITE FR 4-1 BK	2583490000	E.5	CABTITE SE 4/4-5 SML GY	2584840000	E.4	DAE M12 SS	1868550000	C.69	DOHA KTB A5 S2 R	1252750000	C.27
CABTITE FR 4-1 BK SET CABTITE FRL 10/6 BK	2583780000 2584240000	E.5 E.5	CABTITE SE 5-6 SML BK CABTITE SE 5-6 SML GY	2584710000 2583450000	E.4 E.4	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.70 C.71	DOHA KTB A5 S2 R DOHA KTB A5 S2 R	1252750000 1252750000	C.28 C.29
CABTITE FRL 16/8 BK	2584220000	E.6	CABTITE SE 6-7 SML BK	2584690000	E.4	DAE M12 SS	1868550000	C.72	DOHA KTB A5 S2 R	1252750000	C.30
CABTITE FRL 24/10 BK	2584210000	E.6	CABTITE SE 6-7 SML GY	2583460000	E.4	DAE M12 SS	1868550000	C.73	DOHA KTB A5 S2 R	1252750000	C.31
CABTITE FRL 4-1 BK	2584260000	E.5 E.7	CABTITE SE 7-8 SML BK CABTITE SE 7-8 SML GY	2584670000 2584660000	E.4 E.4	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.74 C.75	DOHA KTB A5 S2 R DOHA KTB A5 S2 R	1252750000 1252750000	C.32 C.33
CABTITE GI H BK CABTITE GI I BK	2584270000 2584320000	E.7	CABTITE SE 8-9 SML BK	2584330000	E.4	DAE M12 SS	1868550000	C.96	DOHA KTB A5 S2 R	1252750000	C.34
CABTITE GI T BK	2584300000	E.7	CABTITE SE 8-9 SML GY	2584650000	E.4	DAE M12 SS	1868550000	C.97	DOHA KTB A5 S2 R	1252750000	C.35
CABTITE INC MOO DV	2584290000	E.7	CABTITE SE 9-10 SML BK CABTITE SE 9-10 SML GY	2584080000 2584630000	E.4 E.4	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.98 C.99	DOHA KTB A5 S2 R DOHA KTB A6 S2 R	1252750000 1252780000	C.36 C.16
CABTITE LNS M20 BK CABTITE LNS M25 BK	2584110000 2584090000	E.7	CABTITE TOOL ATSE PA	2637360000	E.5	DAE M12 SS	1868550000	C.100	DOHA KTB A6 S2 R	1252780000	C.10
CABTITE LNS M32 BK	2584070000	E.7	CABTITE TOOL ATSE PA	2637360000	E.6	DAE M12 SS	1868550000	C.101	DOHA KTB A6 S2 R	1252780000	C.18
CABTITE LNS M40 BK	2584050000	E.7	-			DAE M12 SS	1868550000	C.102	DOHA KTB A6 S2 R	1252780000	C.19
CABTITE LNS M50 BK CABTITE LNS M63 BK	2584030000 2584010000	E.7	D			DAE M12 SS DAE M12 SS	1868550000 1868550000	C.103 C.104	DOHA KTB A6 S2 R DOHA KTB A6 S2 R	1252780000 1252780000	C.20 C.21
CABTITE SC M5X25 SET	2635120000	E.5	DAE M12 PA LONG	1868570000	C.52	DAE M12 SS	1868550000	C.105	DOHA KTB A6 S2 R	1252780000	C.22
CABTITE SC M5X25 SET	2635120000	E.6	DAE M12 PA LONG	1868570000	C.53	DAE M12 SS	1868550000	C.106	DOHA KTB A6 S2 R	1252780000	C.23
CABTITE SE 1.5-2 SML BK CABTITE SE 1.5-2 SML GY	2584780000 2583360000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.54 C.55	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.107 C.108	DOHA KTB A6 S2 R DOHA KTB A6 S2 R	1252780000 1252780000	C.24 C.25
CABTITE SE 1/ASI SML BK	2583530000	E.4	DAE M12 PA LONG	1868570000	C.56	DAE M12 SS	1868550000	C.109	DOHA KTB A6 S2 R	1252780000	C.26
CABTITE SE 1/ASI SML GY	2584810000	E.4	DAE M12 PA LONG	1868570000	C.57	DAE M12 SS	1868550000	C.110	DOHA KTB A6 S2 R	1252780000	C.27
CABTITE SE 10-11 SML BK CABTITE SE 10-11 SML GY	2584060000 2584610000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.58 C.59	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.111 C.112	DOHA KTB A6 S2 R DOHA KTB A6 S2 R	1252780000 1252780000	C.28 C.29
CABTITE SE 11-12 SML BK	2584040000	E.4	DAE M12 PA LONG	1868570000	C.60	DAE M12 SS	1868550000	C.113	DOHA KTB A6 S2 R	1252780000	C.30
CABTITE SE 11-12 SML GY	2584600000	E.4	DAE M12 PA LONG	1868570000	C.61	DAE M12 SS	1868550000	C.114	DOHA KTB A6 S2 R	1252780000	C.31
CABTITE SE 12-13 SML BK	2584020000	E.4	DAE M12 PA LONG	1868570000	C.62 C.68	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.132 C.133	DOHA KTB A6 S2 R	1252780000 1252780000	C.32 C.33
CABTITE SE 12-13 SML GY CABTITE SE 13-14 SML BK	2584590000 2584000000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.69	DAE M12 SS	1868550000	C.133	DOHA KTB A6 S2 R DOHA KTB A6 S2 R	1252780000	C.34
CABTITE SE 13-14 SML GY	2584570000	E.4	DAE M12 PA LONG	1868570000	C.70	DAE M12 SS	1868550000	C.135	DOHA KTB A6 S2 R	1252780000	C.35
CABTITE SE 14-15 LRG BK	2583880000	E.4	DAE M12 PA LONG	1868570000	C.71	DAE M12 SS	1868550000	C.136	DOHA KTB A6 S2 R	1252780000	C.36
CABTITE SE 14-15 LRG GY	2584510000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.72 C.73	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.137 C.138	DOHA KTB A6 S2 R DOHA KTB A6 S2 R	1252780000 1252780000	C.45 C.46
CABTITE SE 14-15 SML BK CABTITE SE 14-15 SML GY	2583980000 2584560000	E.4 E.4	DAE M12 PA LONG	1868570000	C.74	DAE M12 SS	1868550000	C.139	DOHA KTB A6 S2 R	1252780000	C.46
CABTITE SE 15-16 LRG BK	2583860000	E.4	DAE M12 PA LONG	1868570000	C.75	DAE M12 SS	1868550000	C.140	_		
CABTITE SE 15-16 LRG GY	2584500000	E.4	DAE M12 PA LONG	1868570000	C.96	DAE M12 SS	1868550000	C.141	E		
CABTITE SE 15-16 SML BK CABTITE SE 15-16 SML GY	2583960000 2584550000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.97 C.98	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.142 C.143	EA-RING MS/M 16	1736480000	D.49
CABTITE SE 16-17 LRG BK	2583850000	E.4 E.4	DAE M12 PA LONG	1868570000	C.99	DAE M12 SS	1868550000	C.144	EA-RING MS/M 20	1736490000	D.49
CABTITE SE 16-17 LRG GY	2584490000	E.4	DAE M12 PA LONG	1868570000	C.100	DAE M12 SS	1868550000	C.145	EA-RING MS/M 25	1736500000	D.49
CABTITE SE 17-18 LRG BK	2583840000 2584480000	E.4 E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.101 C.102	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.146 C.147	EA-RING MS/M 32 EA-RING MS/M 40	1736510000 1736520000	D.49 D.49
CABTITE SE 17-18 LRG GY CABTITE SE 18-19 LRG BK	2584480000	E.4	DAE M12 PA LONG	1868570000	C.102	DAE M12 SS	1868550000	C.147	EA-RING MS/M 50	1736530000	D.49 D.49
CABTITE SE 18-19 LRG GY	2584470000	E.4	DAE M12 PA LONG	1868570000	C.104	DAE M12 SS	1868550000	C.170	EA-RING MS/M 63	1736540000	D.49
CABTITE SE 19-20 LRG BK	2583810000	E.4	DAE M12 PA LONG DAE M12 PA LONG	1868570000 1868570000	C.105 C.106	DAE M12 SS DAE M12 SS	1868550000 1868550000	C.171 C.172	EA-RING MS/M 75 EA-RING MS/M16 SC	1736550000 0930710001	D.49 D.49
CABTITE SE 19-20 LRG GY	2584460000	E.4	DAL MITZ FA LUNU	1000070000	U. 1UD	DWF MITS 99	10000000000	6.172	LATHING MIS/INTO SC	0330710001	D.49

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EA-RING MS/M20 SC	0930710002	D.49	GFSC M5x10 TX20 SET	1274150000	C.20	KDSU M20 BS 0 NI 1 G20	0930021221	D.26	KDSW M63 BN 0 NI 2 G63	1075240000	D.29
EA-RING MS/M25 SC	0930710003	D.49	GFSC M5x10 TX20 SET	1274150000	C.21	KDSU M20 BS 0 NI 1 G20	0930021221	D.28	KDSW M63 BN 0 NI 2 G63S	1075220000	D.29
EA-RING MS/M32 SC	0930710004	D.49	GFSC M5x10 TX20 SET	1274150000	C.22	KDSU M20 BS 0 NI 1 G20S	0930011223	D.26	KDSW M63 BS 0 NI 1 G63	1136600000	D.30
EA-RING MS/M40 SC EA-RING MS/M50 SC	0930710005 0930710006	D.49 D.49	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.23 C.24	KDSU M20 BS 0 NI 1 G20S KDSU M20 BS 0 NI 2 G16	0930011223 0930001222	D.28 D.26	KDSW M63 BS 0 NI 1 G63S KDSW M63 BS 0 NI 2 G63	1136580000 1136610000	D.30 D.30
EA-RING MS/M63 SC	0930710007	D.49	GFSC M5x10 TX20 SET	1274150000	C.25	KDSU M20 BS 0 NI 2 G16	0930001222	D.28	KDSW M63 BS 0 NI 2 G63S	1136590000	D.30
EA-RING MS/M75 SC	0930710008	D.49	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.26 C.27	KDSU M20 BS 0 NI 2 G20 KDSU M20 BS 0 NI 2 G20S	0930021222 0930011224	D.28 D.26	KDSW M75 BN L NI 1 G75 KDSW M75 BN L NI 1 G75S	1075010000 1074980000	D.31 D.31
F			GFSC M5x10 TX20 SET	1274150000	C.28	KDSU M20 BS 0 NI 2 G20S	0930011224	D.28	KDSW M75 BN L NI 2 G75	1074360000	D.31
-			GFSC M5x10 TX20 SET	1274150000	C.29	KDSU M25 BN 0 NI 1 G25	1083330000	D.27	KDSW M75 BN L NI 2 G75S	1074990000	D.31
FKSC M4X6 D8/SW2 FKSC M4X6 D8/SW2	1567480000 1567480000	C.170 C.171	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.30 C.31	KDSU M25 BN 0 NI 2 G25 KDSU M25 BS 0 NI 1 G25	1911420000 0930031221	D.27 D.28	KDSW M75 BN 0 NI 1 G75 KDSW M75 BN 0 NI 1 G75S	1075270000 1075250000	D.29 D.29
FKSC M4X6 D8/SW2	1567480000	C.172	GFSC M5x10 TX20 SET	1274150000	C.32	KDSU M25 BS 0 NI 2 G25	0930031222	D.28	KDSW M75 BN 0 NI 2 G75	1075280000	D.29
FKSC M4X6 D8/SW2 FKSC M4X6 D8/SW2	1567480000 1567480000	C.173 C.174	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.33 C.34	KDSU M32 BN 0 NI 1 G32 KDSU M32 BN 0 NI 2 G32	1083340000 1911430000	D.27 D.27	KDSW M75 BN 0 NI 2 G75S KDSW M75 BS 0 NI 1 G75	1075260000 1136640000	D.29 D.30
FKSC M4X6 D8/SW2	1567480000	C.178	GFSC M5x10 TX20 SET	1274150000	C.35	KDSU M32 BS 0 NI 1 G32	0930041221	D.28	KDSW M75 BS 0 NI 1 G75S	1136620000	D.30
FKSC M4X6 D8/SW2	1567480000	C.179	GFSC M5x10 TX20 SET	1274150000	C.36	KDSU M32 BS 0 NI 2 G32	0930041222	D.28	KDSW M75 BS 0 NI 2 G75	1136650000	D.30
FKSC M4X6 D8/SW2 FKSC M4X6 D8/SW2	1567480000 1567480000	C.180 C.181	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.52 C.53	KDSU M40 BN 0 NI 1 G40 KDSU M40 BN 0 NI 2 G40	1083350000 1911440000	D.27 D.27	KDSW M75 BS 0 NI 2 G75S KDSX M20 BS 0 NI 1 G16	1136630000 1135910000	D.30 D.32
FKSC M4X6 D8/SW2	1567480000	C.182	GFSC M5x10 TX20 SET	1274150000	C.54	KDSU M40 BS 0 NI 1 G40	1136990000	D.28	KDSX M20 BS 0 NI 1 G20	1135950000	D.32
FKSC M4X6 D8/SW2 FKSC M4X6 D8/SW2	1567480000 1567480000	C.183 C.185	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.55 C.56	KDSU M40 BS 0 NI 2 G40 KDSU M50 BN 0 NI 1 G50	0930051222 1083370000	D.28 D.27	KDSX M20 BS 0 NI 1 G20S KDSX M20 BS 0 NI 2 G16	1135930000 1135920000	D.32 D.32
FKSC M4X6 D8/SW2	1567480000	C.186	GFSC M5x10 TX20 SET	1274150000	C.57	KDSU M50 BN 0 NI 1 G50S	1083360000	D.27	KDSX M20 BS 0 NI 2 G20	1135960000	D.32
FKSC M4X6 D8/SW2	1567480000	C.187	GFSC M5x10 TX20 SET	1274150000	C.58	KDSU M50 BN 0 NI 2 G50	1911460000	D.27	KDSX M20 BS 0 NI 2 G20S	1135940000	D.32
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.15 C.16	GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000 1274150000	C.59 C.60	KDSU M50 BN 0 NI 2 G50S KDSU M50 BS 0 NI 1 G50	1911450000 1137010000	D.27 D.28	KDSX M25 BS 0 NI 1 G25 KDSX M25 BS 0 NI 2 G25	1135970000 1135980000	D.32 D.32
FKSC M6X8 D9/SW3	0642600000	C.17	GFSC M5x10 TX20 SET	1274150000	C.61	KDSU M50 BS 0 NI 1 G50S	1137000000	D.28	KDSX M32 BS 0 NI 1 G32	1135990000	D.32
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.18 C.19	GFSC M5x10 TX20 SET GWDR M12-NP	1274150000 1913320000	D.46	KDSU M50 BS 0 NI 2 G50 KDSU M50 BS 0 NI 2 G50S	1137020000 0930061224	D.28 D.28	KDSX M32 BS 0 NI 2 G32 KDSX M40 BS 0 NI 1 G40	1136000000 1136010000	D.32 D.32
FKSC M6X8 D9/SW3	0642600000	C.20	GWDR M12-P0	1777920000	D.46 D.45	KDSU M63 BN 0 NI 1 G63	1083390000	D.28 D.27	KDSX M40 BS 0 NI 2 G40	1136020000	D.32
FKSC M6X8 D9/SW3	0642600000	C.21	GWDR M16-NP	1736230000	D.46	KDSU M63 BN O NI 1 G63S	1083380000	D.27	KDSX M50 BS 0 NI 1 G50	1136050000	D.32
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.22 C.23	GWDR M16-P0 GWDR M20-NP	1777930000 1736240000	D.45 D.46	KDSU M63 BN 0 NI 2 G63 KDSU M63 BN 0 NI 2 G63S	1911490000 1911480000	D.27 D.27	KDSX M50 BS 0 NI 1 G50S KDSX M50 BS 0 NI 2 G50	1136030000 1136060000	D.32 D.32
FKSC M6X8 D9/SW3	0642600000	C.24	GWDR M20-P0	1777940000	D.45	KDSU M63 BS 0 NI 1 G63	1137050000	D.28	KDSX M50 BS 0 NI 2 G50S	1136040000	D.32
FKSC M6X8 D9/SW3	0642600000	C.25	GWDR M25-NP	1736250000 1777950000	D.46	KDSU M63 BS 0 NI 1 G63S KDSU M63 BS 0 NI 2 G63	1137030000 0930091222	D.28 D.28	KDSX M63 BS 0 NI 1 G63	1136090000 1136070000	D.32
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.26 C.27	GWDR M25-P0 GWDR M32-NP	1777950000	D.45 D.46	KDSU M63 BS 0 NI 2 G63S	1137040000	D.28	KDSX M63 BS O NI 1 G63S KDSX M63 BS O NI 2 G63	1136110000	D.32 D.32
FKSC M6X8 D9/SW3	0642600000	C.28	GWDR M32-P0	1777960000	D.45	KDSU M75 BN 0 NI 1 G75	1083420000	D.27	KDSX M63 BS 0 NI 2 G63S	1136080000	D.32
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.29 C.30	GWDR M40-NP GWDR M40-P0	1736270000 1777970000	D.46 D.45	KDSU M75 BN 0 NI 1 G75S KDSU M75 BN 0 NI 2 G75	1083400000 1083430000	D.27 D.27	KDSX M75 BS 0 NI 1 G75 KDSX M75 BS 0 NI 1 G75S	1136140000 1136120000	D.32 D.32
FKSC M6X8 D9/SW3	0642600000	C.31	GWDR M50-NP	1736280000	D.46	KDSU M75 BN 0 NI 2 G75S	1083410000	D.27	KDSX M75 BS 0 NI 2 G75	1136150000	D.32
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.32 C.33	GWDR M50-P0 GWDR M63-NP	1777980000 1736290000	D.45 D.46	KDSU M75 BS 0 NI 1 G75 KDSU M75 BS 0 NI 1 G75S	1137080000 1137060000	D.28 D.28	KDSX M75 BS 0 NI 2 G75S KEBI QL 302015 S2B0	1136130000 2470690000	D.32 C.50
FKSC M6X8 D9/SW3	0642600000	C.34	GWDR M63-P0	1777990000	D.45	KDSU M75 BS 0 NI 2 G75	1137090000	D.28	KEBI QL 302015 S2B0	2470690000	C.52
FKSC M6X8 D9/SW3	0642600000	C.35	GWDR PG11-NP	1719560000	D.46	KDSU M75 BS 0 NI 2 G75S	1137070000	D.28	KEBI QL 302015 S2B1	2470800000	C.50
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.36 C.44	GWDR PG11-PO GWDR PG13,5-NP	1719460000 1719570000	D.45 D.46	KDSW M20 BN L NI 1 G16 KDSW M20 BN L NI 1 G20	1074660000 1074760000	D.31 D.31	KEBI QL 302015 S2B1 KEBI QL 303015 S2B0	2470800000 2470700000	C.52 C.50
FKSC M6X8 D9/SW3	0642600000	C.45	GWDR PG13,5-PO	1719470000	D.45	KDSW M20 BN L NI 1 G20S	1074720000	D.31	KEBI QL 303015 S2B0	2470700000	C.53
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.46 C.47	GWDR PG16-NP GWDR PG16-PO	1719580000 1719480000	D.46 D.45	KDSW M20 BN L NI 2 G16 KDSW M20 BN L NI 2 G20	1074690000 1074780000	D.31 D.31	KEBI QL 303015 S2B1 KEBI QL 303015 S2B1	2470810000 2470810000	C.50 C.53
FKSC M6X8 D9/SW3	0642600000	C.132	GWDR PG21-NP	1719590000	D.46	KDSW M20 BN L NI 2 G20S	1074740000	D.31	KEBI QL 303022 S2B0	2470710000	C.50
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.133 C.134	GWDR PG21-PO GWDR PG29-NP	1719490000 1719600000	D.45 D.46	KDSW M20 BN 0 NI 1 G16 KDSW M20 BN 0 NI 1 G20	1075030000	D.29 D.29	KEBI QL 303022 S2B0 KEBI QL 303022 S2B1	2470710000 2470820000	C.54 C.50
FKSC M6X8 D9/SW3	0642600000	C.135	GWDR PG29-PO	1719500000	D.45	KDSW M20 BN 0 NI 1 G20S	1075050000	D.29	KEBI QL 303022 S2B1	2470820000	C.54
FKSC M6X8 D9/SW3	0642600000	C.136	GWDR PG36-NP	1719610000	D.46	KDSW M20 BN 0 NI 2 G16	1075040000	D.29	KEBI QL 403015 S2B0 KEBI QL 403015 S2B0	2470720000	C.50
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.137 C.138	GWDR PG36-PO GWDR PG42-NP	1719510000 1719620000	D.45 D.46	KDSW M20 BN 0 NI 2 G20 KDSW M20 BN 0 NI 2 G20S	1075080000 1075060000	D.29 D.29	KEBI QL 403015 S2B1	2470720000 2470830000	C.55 C.50
FKSC M6X8 D9/SW3	0642600000	C.139	GWDR PG42-PO	1719520000	D.45	KDSW M20 BS 0 NI 1 G16	1136410000	D.30	KEBI QL 403015 S2B1	2470830000	C.55
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.140 C.141	GWDR PG48-NP GWDR PG48-PO	1719630000 1719530000	D.46 D.45	KDSW M20 BS 0 NI 1 G20 KDSW M20 BS 0 NI 1 G20S	1136450000 1136430000	D.30 D.30	KEBI QL 403022 S2B0 KEBI QL 403022 S2B0	2470730000 2470730000	C.50 C.56
FKSC M6X8 D9/SW3	0642600000	C.142	GWDR PG7-NP	1719540000	D.46	KDSW M20 BS 0 NI 2 G16	1136420000	D.30	KEBI QL 403022 S2B1	2470840000	C.50
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.143 C.144	GWDR PG7-PO GWDR PG9-NP	1719440000 1719550000	D.45 D.46	KDSW M20 BS 0 NI 2 G20 KDSW M20 BS 0 NI 2 G20S	1136460000 1136440000	D.30 D.30	KEBI QL 403022 S2B1 KEBI QL 404022 S2B0	2470840000 2470740000	C.56 C.50
FKSC M6X8 D9/SW3	0642600000	C.144	GWDR PG9-P0	1719450000	D.46 D.45	KDSW M25 BN L NI 1 G25	1074810000	D.30	KEBI QL 404022 S2B0	2470740000	C.50
FKSC M6X8 D9/SW3	0642600000	C.146				KDSW M25 BN L NI 2 G25	1074830000	D.31	KEBI QL 404022 S2B1	2470850000	C.50
FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	0642600000 0642600000	C.147 C.148	Н			KDSW M25 BN 0 NI 1 G25 KDSW M25 BN 0 NI 2 G25	1075090000 1075110000	D.29 D.29	KEBI QL 404022 S2B1 KEBI QL 504022 S2B0	2470850000 2470750000	C.57 C.50
FPC 20/20/13 7035	9535690000	C.184	HG FPC	9535990000	C.185	KDSW M25 BS 0 NI 1 G25	1136470000	D.30	KEBI QL 504022 S2B0	2470750000	C.58
FPC 20/20/13 7035 FPC 20/20/13 TRSP	9535690000 9535680000	C.185 C.184	HG FPC HG FPC	9535990000 9535990000	C.186 C.187	KDSW M25 BS 0 NI 2 G25 KDSW M32 BN L NI 1 G32	1136480000 1074850000	D.30 D.31	KEBI QL 504022 S2B1 KEBI QL 504022 S2B1	2470860000 2470860000	C.50 C.58
FPC 20/20/13 TRSP	9535680000	C.185	HG K+POK	1580360000	C.100	KDSW M32 BN L NI 2 G32	1074860000	D.31	KEBI QL 505022 S2B0	2470760000	C.50
FPC 20/30/13 7035	9535710000	C.184	HG K+POK HG K+POK	1580360000	C.102	KDSW M32 BN 0 NI 1 G32	1075120000	D.29	KEBI QL 505022 S2B0	2470760000	C.59
FPC 20/30/13 7035 FPC 20/30/13 TRSP	9535710000 9535700000	C.185 C.184	HG K+POK	1580360000 1580360000	C.104 C.106	KDSW M32 BN 0 NI 2 G32 KDSW M32 BS 0 NI 1 G32	1075130000 1136490000	D.29 D.30	KEBI QL 505022 S2B1 KEBI QL 505022 S2B1	2470870000 2470870000	C.50 C.59
FPC 20/30/13 TRSP	9535700000	C.185	HG K+POK	1580360000	C.107	KDSW M32 BS 0 NI 2 G32	1136510000	D.30	KEBI QL 604022 S2B0	2470770000	C.50
FPC 20/40/13 7035 FPC 20/40/13 7035	9535730000 9535730000	C.184 C.186	HG K+POK HG K+POK	1580360000 1580360000	C.108 C.109	KDSW M40 BN L NI 1 G40 KDSW M40 BN L NI 2 G40	1074870000 1074880000	D.31 D.31	KEBI QL 604022 S2B0 KEBI QL 604022 S2B1	2470770000 2470880000	C.60 C.50
FPC 20/40/13 TRSP	9535720000	C.184	HG K+POK	1580360000	C.110	KDSW M40 BN 0 NI 1 G40	1075140000	D.29	KEBI QL 604022 S2B1	2470880000	C.60
FPC 20/40/13 TRSP	9535720000	C.186 C.184	HG K+POK	1580360000	C.111 C.112	KDSW M40 BN 0 NI 2 G40	1075150000	D.29 D.30	KEBI QL 606022 S2B0	2470780000	C.50
FPC 30/30/13 7035 FPC 30/30/13 7035	9535750000 9535750000	C.186	HG K+POK HG K+POK	1580360000 1580360000	C.112	KDSW M40 BS 0 NI 1 G40 KDSW M40 BS 0 NI 2 G40	1136520000 1136530000	D.30	KEBI QL 606022 S2B0 KEBI QL 606022 S2B1	2470780000 2470890000	C.61 C.50
FPC 30/30/13 TRSP	9535740000	C.184	HG K+POK	1580360000	C.114	KDSW M50 BN L NI 1 G50	1074920000	D.31	KEBI QL 606022 S2B1	2470890000	C.61
FPC 30/30/13 TRSP FPC 30/40/13 7035	9535740000 9535770000	C.186 C.184	HG MPC HG MPC	9535590000 9535590000	C.178 C.179	KDSW M50 BN L NI 1 G50S KDSW M50 BN L NI 2 G50	1074890000 1074930000	D.31 D.31	KEBI QL 806022 S2B0 KEBI QL 806022 S2B0	2470790000 2470790000	C.50 C.62
FPC 30/40/13 7035	9535770000	C.187	HG MPC	9535590000	C.180	KDSW M50 BN L NI 2 G50S	1074910000	D.31	KEBI QL 806022 S2B1	2470900000	C.50
FPC 30/40/13 TRSP FPC 30/40/13 TRSP	9535760000 9535760000	C.184 C.187	HG MPC HG MPC	9535590000 9535590000	C.181 C.182	KDSW M50 BN 0 NI 1 G50 KDSW M50 BN 0 NI 1 G50S	1075180000 1075160000	D.29 D.29	KEBI QL 806022 S2B1 KEBI-KTBI MF S2 SET	2470900000 1289180000	C.62 C.52
FPC 40/60/13 7035	9535810000	C.184	HG MPC	9535590000	C.183	KDSW M50 BN 0 NI 2 G50	1075190000	D.29	KEBI-KTBI MF S2 SET	1289180000	C.53
FPC 40/60/13 7035	9535810000	C.187				KDSW M50 BN 0 NI 2 G50S	1075170000	D.29	KEBI-KTBI MF S2 SET	1289180000	C.54
FPC 40/60/13 TRSP FPC 40/60/13 TRSP	9535820000 9535820000	C.184 C.187	K			KDSW M50 BS 0 NI 1 G50 KDSW M50 BS 0 NI 1 G50S	1136560000 1136540000	D.30 D.30	KEBI-KTBI MF S2 SET KEBI-KTBI MF S2 SET	1289180000 1289180000	C.55 C.56
_			KDSU M20 BN 0 NI 1 G16	1083280000	D.27	KDSW M50 BS 0 NI 2 G50	1136570000	D.30	KEBI-KTBI MF S2 SET	1289180000	C.57
G			KDSU M20 BN 0 NI 1 G20 KDSU M20 BN 0 NI 1 G20S	1083320000 1083290000	D.27 D.27	KDSW M50 BS 0 NI 2 G50S KDSW M63 BN L NI 1 G63	1136550000 1074960000	D.30 D.31	KEBI-KTBI MF S2 SET KEBI-KTBI MF S2 SET	1289180000 1289180000	C.58 C.59
GFSC M5x10 TX20 SET	1274150000	C.15	KDSU M20 BN 0 NI 2 G16	1911380000	D.27	KDSW M63 BN L NI 1 G63S	1074940000	D.31	KEBI-KTBI MF S2 SET	1289180000	C.60
GFSC M5x10 TX20 SET	1274150000 1274150000	C.16 C.17	KDSU M20 BN 0 NI 2 G20 KDSU M20 BN 0 NI 2 G20S	1911400000	D.27 D.27	KDSW M63 BN L NI 2 G63 KDSW M63 BN L NI 2 G63S	1074970000 1074950000	D.31 D.31	KEBI-KTBI MF S2 SET	1289180000 1289180000	C.61
GFSC M5x10 TX20 SET GFSC M5x10 TX20 SET	1274150000	C.17	KDSU M20 BS 0 NI 1 G16	1911390000 0930001221	D.27 D.26	KDSW M63 BN 0 NI 1 G63	1074950000	D.31 D.29	KEBI-KTBI MF S2 SET KEBI-KTBI MOPL 3020 MSZN	1309690000	C.62 C.52
GFSC M5x10 TX20 SET	1274150000	C.19	KDSU M20 BS O NI 1 G16	0930001221	D.28	KDSW M63 BN 0 NI 1 G63S	1075210000	D.29	KEBI-KTBI MOPL 3020 S2N	1309700000	C.52

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KEBI-KTBI MOPL 3030 MSZN	1310410000	C.54	KLIPPON COPL 122209	1390980000	C.138	KLIPPON K11 2M16AB CSS	8000004149	C.116	KLIPPON K41 RAL7001	9529200000	C.107
KEBI-KTBI MOPL 3030 S2N KEBI-KTBI MOPL 3030 S2N	1310320000 1310320000	C.53 C.54	KLIPPON COPL 161609 KLIPPON COPL 162609	1390990000 1391000000	C.139 C.140	KLIPPON K11 2M20AB CSS KLIPPON K11 EX	8000004150 9526850000	C.116 C.94	KLIPPON K41 VMQ KLIPPON K41 VMQ	1939640000 1939640000	C.94 C.107
KEBI-KTBI MOPL 4030 MSZN	1310420000	C.55	KLIPPON COPL 163609	1391010000	C.140	KLIPPON K11 EX RAL7001	1329640000	C.94	KLIPPON K41 VMQ RAL7001	1937800000	C.94
KEBI-KTBI MOPL 4030 MSZN	1310420000	C.56	KLIPPON COPL 165609	1391020000	C.142	KLIPPON K11 M16ACSS EX	8000004207	C.116	KLIPPON K41 VMQ RAL7001	1937800000	C.107
KEBI-KTBI MOPL 4030 S2N	1310330000	C.55	KLIPPON COPL 252512/16	1391030000	C.143	KLIPPON K11 M16ZCSS EX	8000004204	C.116	KLIPPON K5	0342400000	C.94
KEBI-KTBI MOPL 4030 S2N KEBI-KTBI MOPL 4040 MSZN	1310330000 1310430000	C.56 C.57	KLIPPON COPL 252512/16 KLIPPON COPL 254012/16	1391030000 1391040000	C.144 C.145	KLIPPON K11 M20ACSS EX KLIPPON K11 M20ZCSS EX	8000004209 8000004208	C.116 C.116	KLIPPON K5 KLIPPON K5	0342400000 0342400000	C.108 C.116
KEBI-KTBI MOPL 4040 S2N	1310340000	C.57	KLIPPON COPL 254012/16	1391040000	C.146	KLIPPON K11 RAL7001	9529130000	C.94	KLIPPON K5 4M20AB CSS	8000004158	C.116
KEBI-KTBI MOPL 5040 MSZN	1310440000	C.58	KLIPPON COPL 256012	1391050000	C.147	KLIPPON K11 RAL7001	9529130000	C.100	KLIPPON K5 4M20WCSS EX	8000004218	C.116
KEBI-KTBI MOPL 5040 S2N KEBI-KTBI MOPL 5050 MSZN	1310350000 1310450000	C.58 C.59	KLIPPON COPL 404012 KLIPPON CS K41-1	1391070000 1537470000	C.148 C.122	KLIPPON K11 VMQ KLIPPON K11 VMQ	1939570000 1939570000	C.94 C.100	KLIPPON K5 4M20ZCSS EX KLIPPON K5 EX	8000004219 9526930000	C.116 C.94
KEBI-KTBI MOPL 5050 W32N	1310360000	C.59	KLIPPON CS K41-1	1537480000	C.122	KLIPPON K11 VMQ RAL7001	1937910000	C.100	KLIPPON K5 EX RAL7001	1329720000	C.94
KEBI-KTBI MOPL 6040 MSZN	1310460000	C.60	KLIPPON CS K41-1	1537490000	C.123	KLIPPON K11 VMQ RAL7001	1937910000	C.100	KLIPPON K5 RAL7001	9529210000	C.94
KEBI-KTBI MOPL 6040 S2N	1310370000	C.60	KLIPPON CS K41-1	1537500000	C.123	KLIPPON K2	0342100000	C.94	KLIPPON K5 RAL7001	9529210000	C.108
KEBI-KTBI MOPL 6060 MSZN KEBI-KTBI MOPL 6060 S2N	1310470000 1310380000	C.61 C.61	KLIPPON CS K41-4 KLIPPON CS K41-4	1537510000 1537520000	C.123 C.124	KLIPPON K2 KLIPPON K2	0342100000 0342100000	C.101 C.116	KLIPPON K5 VMQ KLIPPON K5 VMQ	1939650000 1939650000	C.94 C.108
KEBI-KTBI MOPL 8060 MSZN	1310480000	C.62	KLIPPON CS K41-4	1537530000	C.124	KLIPPON K2 2M20AB CSS	8000004151	C.116	KLIPPON K5 VMQ RAL7001	1937860000	C.94
KEBI-KTBI MOPL 8060 S2N	1310390000	C.62	KLIPPON CS K51-2	1537540000	C.125	KLIPPON K2 EX	9526860000	C.94	KLIPPON K5 VMQ RAL7001	1937860000	C.108
KL SET 10A4 S KL SET 10A4 S	8000004145 8000004145	C.150 C.153	KLIPPON CS K51-2 KLIPPON CS K51-2	1537550000 1537570000	C.125 C.125	KLIPPON K2 EX RAL7001 KLIPPON K2 M20BCSS EX	1329650000 8000004210	C.94 C.116	KLIPPON K51 KLIPPON K51	1565280000 1565280000	C.94 C.109
KL SET 12W4 S	8000003444	C.116	KLIPPON CS K51-4	1537580000	C.126	KLIPPON K2 RAL7001	9529140000	C.94	KLIPPON K51 EX	9526940000	C.94
KL SET 12W4 S	8000003444	C.150	KLIPPON CS POK 121209-2	1537070000	C.162	KLIPPON K2 RAL7001	9529140000	C.101	KLIPPON K51 EX RAL7001	1328130000	C.94
KL SET 12W4 S	8000003444	C.155	KLIPPON CS POK 121209-2 KLIPPON CS POK 121209-2	1537080000	C.162	KLIPPON K2 VMQ KLIPPON K2 VMQ	1939580000	C.94	KLIPPON K51 RAL7001	9529220000	C.94
KL SET 13A4 S KL SET 14Z2.5 S	8000004134 8000004133	C.116 C.116	KLIPPON CS POK 121209-2 KLIPPON CS POK 121209-2	1537090000 1537100000	C.163 C.163	KLIPPON K2 VMQ RAL7001	1939580000 1937930000	C.101 C.94	KLIPPON K51 RAL7001 KLIPPON K51 VMQ	9529220000 1939660000	C.109 C.94
KL SET 18A4 S	8000004146	C.150	KLIPPON CS POK 121209-4	1537110000	C.163	KLIPPON K2 VMQ RAL7001	1937930000	C.101	KLIPPON K51 VMQ	1939660000	C.109
KL SET 18A4 S	8000004146	C.154	KLIPPON CS POK 121209-4	1537120000	C.164	KLIPPON K21	0573400000	C.94	KLIPPON K51 VMQ RAL7001	1937750000	C.94
KL SET 18W4 S KL SET 21A4 S	8000004140 8000004137	C.116 C.116	KLIPPON CS POK 121209-4 KLIPPON CS POK 122209-2	1537130000 1537140000	C.164 C.165	KLIPPON K21 KLIPPON K21	0573400000 0573400000	C.102 C.116	KLIPPON K51 VMQ RAL7001 KLIPPON K52	1937750000 1565290000	C.109 C.94
KL SET 24Z2.5 S	8000004136	C.116	KLIPPON CS POK 122209-2	1537150000	C.165	KLIPPON K21 3M16AB CSS	8000004152	C.116	KLIPPON K52	1565290000	C.110
KL SET 32W4 S	8000004142	C.116	KLIPPON CS POK 122209-2	1537170000	C.165	KLIPPON K21 EX	9526870000	C.94	KLIPPON K52	1565290000	C.116
KL SET 32W4 S	8000004142	C.150 C.156	KLIPPON CS POK 122209-4	1537180000	C.166	KLIPPON K21 EX RAL7001	1328120000	C.94 C.116	KLIPPON K52 EX	9526950000	C.94
KL SET 32W4 S KL SET 38Z2.5 S	8000004142 8000004143	C.116	KLIPPON CS STB 1-1 KLIPPON CS STB 1-1	1537200000 1537210000	C.86	KLIPPON K21 M16ACSS EX KLIPPON K21 M16ZCSS EX	8000004212 8000004211	C.116	KLIPPON K52 EX RAL7001 KLIPPON K52 M20WCSS EX	1329730000 8000004220	C.94 C.116
KL SET 38Z2.5 S	8000004143	C.150	KLIPPON CS STB 1-1	1537220000	C.87	KLIPPON K21 RAL7001	9529150000	C.94	KLIPPON K52 M20ZCSS EX	8000004221	C.116
KL SET 38Z2.5 S	8000004143	C.156	KLIPPON CS STB 1-1	1537230000	C.87	KLIPPON K21 RAL7001	9529150000	C.102	KLIPPON K52 RAL7001	9529230000	C.94
KL SET 4Z4 S KL SET 5W4 S	8000004139 8000004138	C.116 C.116	KLIPPON CS STB 1-2 KLIPPON CS STB 1-2	1537240000 1537250000	C.87 C.88	KLIPPON K21 VMQ KLIPPON K21 VMQ	1939590000 1939590000	C.94 C.102	KLIPPON K52 RAL7001 KLIPPON K52 VMQ	9529230000 1939670000	C.110 C.94
KL SET 5Z2.5 S	8000004130	C.116	KLIPPON CS STB 1-2	1537280000	C.88	KLIPPON K21 VMQ RAL7001	1937830000	C.94	KLIPPON K52 VMQ	1939670000	C.110
KL SET 6A4 S	8000004144	C.150	KLIPPON CS STB 1-2	1537290000	C.89	KLIPPON K21 VMQ RAL7001	1937830000	C.102	KLIPPON K52 VMQ RAL7001	1937740000	C.94
KL SET 6A4 S	8000004144	C.152	KLIPPON CS STB 2.1-2	1537300000	C.89	KLIPPON K3 KLIPPON K3	0342200000	C.94 C.103	KLIPPON K52 VMQ RAL7001	1937740000	C.110
KL SET KLIPPON POK1 BK4 KL SET KLIPPON POK1 BK4	8000004365 8000004365	C.150 C.152	KLIPPON CS STB 2.1-2 KLIPPON CS STB 2.1-2	1537310000 1537320000	C.89 C.90	KLIPPON K3	0342200000 0342200000	C.116	KLIPPON K6 KLIPPON K6	0342500000 0342500000	C.94 C.111
KL SET KLIPPON POK2 BK6	8000004366	C.150	KLIPPON CS STB 2.1-6	1537330000	C.90	KLIPPON K3 4M20AB CSS	8000004153	C.116	KLIPPON K6 EX	9526960000	C.94
KL SET KLIPPON POK2 BK6	8000004366	C.153	KLIPPON CS STB 2.1-7	1537340000	C.91	KLIPPON K3 EX	9526880000	C.94	KLIPPON K6 EX RAL7001	1329740000	C.94
KL SET KLIPPON POK3BK12 KL SET KLIPPON POK3BK12	8000004367 8000004367	C.150 C.154	KLIPPON CS STB 2.1-7 KLIPPON K MF KIT 16	1537370000 9529080000	C.108	KLIPPON K3 EX RAL7001 KLIPPON K3 M20BCSS EX	1329670000 8000004213	C.94 C.116	KLIPPON K6 RAL7001 KLIPPON K6 RAL7001	9529240000 9529240000	C.94 C.111
KLIPPON BDX M20 B	2519520000	C.44	KLIPPON K MF KIT 16	9529080000	C.111	KLIPPON K3 RAL7001	9529160000	C.94	KLIPPON K6 VMQ	1939690000	C.94
KLIPPON BDX M20 B	2519520000	C.45	KLIPPON K MF KIT 16	9529080000	C.113	KLIPPON K3 RAL7001	9529160000	C.103	KLIPPON K6 VMQ	1939690000	C.111
KLIPPON BDX M20 B KLIPPON BDX M20 B	2519520000 2519520000	C.46 C.47	KLIPPON K MF KIT 25 KLIPPON K MF KIT 25	9527590000 9527590000	C.107 C.109	KLIPPON K3 VMQ KLIPPON K3 VMQ	1939600000 1939600000	C.94 C.103	KLIPPON K6 VMQ RAL7001 KLIPPON K6 VMQ RAL7001	1937870000 1937870000	C.94 C.111
KLIPPON BDX M20 B	2519520000	C.78	KLIPPON K MF KIT 25	9527590000	C.110	KLIPPON K3 VMQ RAL7001	1937900000	C.103	KLIPPON K61	0573600000	C.94
KLIPPON BDX M20 B	2519520000	C.79	KLIPPON K MF KIT 25	9527590000	C.112	KLIPPON K3 VMQ RAL7001	1937900000	C.103	KLIPPON K61	0573600000	C.112
KLIPPON BDX M20 B	2519520000	C.80	KLIPPON K MF KIT 25	9527590000 0573200000	C.114	KLIPPON K31 KLIPPON K31	0573500000	C.94	KLIPPON K61 EX KLIPPON K61 EX RAL7001	9526970000	C.94
KLIPPON BDX M20 B KLIPPON BDX M20 B	2519520000 2519520000	C.81 D.61	KLIPPON KO KLIPPON KO	0573200000	C.94 C.96	KLIPPON K31	0573500000 0573500000	C.104 C.116	KLIPPON K61 RAL7001	1328140000 9529250000	C.94 C.94
KLIPPON BDX M20 S	2519550000	C.44	KLIPPON KO RAL7001	9529090000	C.94	KLIPPON K31 4M20AB CSS	8000004154	C.116	KLIPPON K61 RAL7001	9529250000	C.112
KLIPPON BDX M20 S	2519550000	C.45	KLIPPON KO RAL7001	9529090000	C.96	KLIPPON K31 EX	9526890000	C.94	KLIPPON K61 VMQ	1939700000	C.94
KLIPPON BDX M20 S KLIPPON BDX M20 S	2519550000 2519550000	C.46 C.47	KLIPPON KO VMQ KLIPPON KO VMQ	1939760000 1939760000	C.94 C.96	KLIPPON K31 EX RAL7001 KLIPPON K31 M20ZCSS EX	1329680000 8000004214	C.94 C.116	KLIPPON K61 VMQ KLIPPON K61 VMQ RAL7001	1939700000 1937730000	C.112 C.94
KLIPPON BDX M20 S	2519550000	C.68	KLIPPON KO VMQ RAL7001	1937920000	C.94	KLIPPON K31 RAL7001	9529170000	C.94	KLIPPON K61 VMQ RAL7001	1937730000	C.112
KLIPPON BDX M20 S	2519550000	C.69	KLIPPON KO VMQ RAL7001	1937920000	C.96	KLIPPON K31 RAL7001	9529170000	C.104	KLIPPON K7	0342600000	C.94
KLIPPON BDX M20 S KLIPPON BDX M20 S	2519550000 2519550000	C.70 C.71	KLIPPON KO1 KLIPPON KO1	1565240000 1565240000	C.94 C.97	KLIPPON K31 VMQ KLIPPON K31 VMQ	1939610000 1939610000	C.94 C.104	KLIPPON K7 KLIPPON K7 EX	0342600000 9526980000	C.113 C.94
KLIPPON BDX M20 S	2519550000	C.72	KLIPPON KO1	1565240000	C.116	KLIPPON K31 VMQ RAL7001	1937820000	C.94	KLIPPON K7 EX RAL7001	1329750000	C.94
KLIPPON BDX M20 S	2519550000	C.73	KLIPPON KO1 1M16AB CSS	8000004184	C.116	KLIPPON K31 VMQ RAL7001	1937820000	C.104	KLIPPON K7 RAL7001	9529260000	C.94
KLIPPON BDX M20 S KLIPPON BDX M20 S	2519550000 2519550000	C.74 C.75	KLIPPON KO1 RAL7001 KLIPPON KO1 RAL7001	9529100000 9529100000	C.94 C.97	KLIPPON K32 KLIPPON K32	1565260000 1565260000	C.94 C.105	KLIPPON K7 RAL7001 KLIPPON K7 VMQ	9529260000 1939710000	C.113 C.94
KLIPPON BDX M20 S	2519550000	C.78	KLIPPON KO1 VMQ	1939540000	C.94	KLIPPON K32 EX	9526900000	C.94	KLIPPON K7 VMQ	1939710000	C.113
KLIPPON BDX M20 S	2519550000	C.79	KLIPPON KO1 VMQ	1939540000	C.97	KLIPPON K32 EX RAL7001	1329690000	C.94	KLIPPON K7 VMQ RAL7001	1937880000	C.94
KLIPPON BDX M20 S	2519550000	C.80	KLIPPON KO1 VMQ RAL7001	1937850000	C.94	KLIPPON K32 RAL7001	9529180000	C.94	KLIPPON K7 VMQ RAL7001	1937880000	C.113
KLIPPON BDX M20 S KLIPPON BDX M20 S	2519550000 2519550000	C.81 D.61	KLIPPON KO1 VMQ RAL7001 KLIPPON KO2	1937850000 1565250000	C.97 C.94	KLIPPON K32 RAL7001 KLIPPON K32 VMQ	9529180000 1939620000	C.105 C.94	KLIPPON K71 KLIPPON K71	0573700000 0573700000	C.94 C.114
KLIPPON BDX M20X15 S	2519570000	C.132	KLIPPON KO2	1565250000	C.98	KLIPPON K32 VMQ	1939620000	C.105	KLIPPON K71 EX	9526990000	C.94
KLIPPON BDX M20X15 S	2519570000	C.133	KLIPPON KO2 RAL7001	9529110000	C.94	KLIPPON K32 VMQ RAL7001	1937810000	C.94	KLIPPON K71 EX RAL7001	1329770000	C.94
KLIPPON BDX M20X15 S KLIPPON BDX M20X15 S	2519570000 2519570000	C.134 C.135	KLIPPON KO2 RAL7001 KLIPPON KO2 VMQ	9529110000 1939550000	C.98 C.94	KLIPPON K32 VMQ RAL7001 KLIPPON K4	1937810000 0342300000	C.105 C.94	KLIPPON K71 RAL7001 KLIPPON K71 RAL7001	9529270000 9529270000	C.94 C.114
KLIPPON BDX M20X15 S	2519570000	C.136	KLIPPON KO2 VMQ	1939550000	C.98	KLIPPON K4	0342300000	C.106	KLIPPON K71 VMQ	1939730000	C.94
KLIPPON BDX M20X15 S	2519570000	C.137	KLIPPON KO2 VMQ RAL7001	1937840000	C.94	KLIPPON K4	0342300000	C.116	KLIPPON K71 VMQ	1939730000	C.114
KLIPPON BDX M20X15 S KLIPPON BDX M20X15 S	2519570000 2519570000	C.138 C.139	KLIPPON KO2 VMQ RAL7001 KLIPPON K1	1937840000 0342000000	C.98 C.94	KLIPPON K4 2M20AB CSS KLIPPON K4 EX	8000004155 9526910000	C.116 C.94	KLIPPON K71 VMQ RAL7001 KLIPPON K71 VMQ RAL7001	1937720000 1937720000	C.94 C.114
KLIPPON BDX M20X15 S	2519570000	C.140	KLIPPON K1	0342000000	C.99	KLIPPON K4 EX RAL7001	1329700000	C.94	KLIPPON POK 080806	1305810000	C.130
KLIPPON BDX M20X15 S	2519570000	C.141	KLIPPON K1	0342000000	C.116	KLIPPON K4 RAL7001	9529190000	C.94	KLIPPON POK 080806	1305810000	C.132
KLIPPON BDX M20X15 S	2519570000	C.142	KLIPPON K1 1,5M16AB CSS	8000004147	C.116	KLIPPON K4 RAL7001	9529190000	C.106	KLIPPON POK 080806	1305810000	C.150
KLIPPON BDX M20X15 S KLIPPON BDX M20X15 S	2519570000 2519570000	C.143 C.144	KLIPPON K1 1M20AB CSS KLIPPON K1 EX	8000004148 9526840000	C.116 C.94	KLIPPON K4 VMQ KLIPPON K4 VMQ	1939630000 1939630000	C.94 C.106	KLIPPON POK 080806 EX KLIPPON POK 080806 EX	1306000000 1306000000	C.130 C.132
KLIPPON BDX M20X15 S	2519570000	C.145	KLIPPON K1 EX RAL7001	1329630000	C.94	KLIPPON K4 VMQ RAL7001	1937890000	C.94	KLIPPON POK 081106	1305820000	C.130
KLIPPON BDX M20X15 S	2519570000	C.146	KLIPPON K1 M16BCSS EX	8000004202	C.116	KLIPPON K4 VMQ RAL7001	1937890000	C.106	KLIPPON POK 081106	1305820000	C.133
KLIPPON BDX M20X15 S KLIPPON BDX M20X15 S	2519570000 2519570000	C.147 C.148	KLIPPON K1 M20BCSS EX KLIPPON K1 RAL7001	8000004203 9529120000	C.116 C.94	KLIPPON K41 KLIPPON K41	1565270000 1565270000	C.94 C.107	KLIPPON POK 081106 KLIPPON POK 081106 EX	1305820000 1306010000	C.150 C.130
KLIPPON BDX M20X15 S	2519570000	D.61	KLIPPON K1 RAL7001 KLIPPON K1 RAL7001	9529120000	C.99	KLIPPON K41	1565270000	C.107	KLIPPON POK 081106 EX	1306010000	C.130
KLIPPON BDX M25 S	2519590000	D.61	KLIPPON K1 VMQ	1939560000	C.94	KLIPPON K41 2M25AB CSS	8000003446	C.116	KLIPPON POK 081606	1305830000	C.130
KLIPPON COPL 080806	1390910000	C.132	KLIPPON K1 VMQ	1939560000	C.99	KLIPPON K41 3M20AB CSS	8000003447	C.116	KLIPPON POK 081606	1305830000	C.134
KLIPPON COPL 081106 KLIPPON COPL 081606	1390920000 1390930000	C.133 C.134	KLIPPON K1 VMQ RAL7001 KLIPPON K1 VMQ RAL7001	1937630000 1937630000	C.94 C.99	KLIPPON K41 EX KLIPPON K41 EX RAL7001	9526920000 1329710000	C.94 C.94	KLIPPON POK 081606 KLIPPON POK 081606 EX	1305830000 1306020000	C.150 C.130
KLIPPON COPL 081906	1390940000	C.135	KLIPPON K11	0573300000	C.94	KLIPPON K41 M20WCSS EX	8000003591	C.116	KLIPPON POK 081606 EX	1306020000	C.134
KLIPPON COPL 082306	1390950000	C.136	KLIPPON K11	0573300000	C.100	KLIPPON K41 M25WCSS EX	8000003589	C.116	KLIPPON POK 081906	1305840000	C.130

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KLIPPON POK 081906 EX	1306030000	C.130	KLIPPON STB 1 SS	1002690000	C.66	KSPMH M16 BSC	1477740000	D.57	KTB FS 453820 S4E4	1196190000	C.40
KLIPPON POK 081906 EX	1306030000	C.135	KLIPPON STB 1 SS	1002690000	C.68	KSPMH M16 SSC	1477820000	C.44	KTB FS 484815 S4E0	1196200000	C.40
KLIPPON POK 082306	1305850000	C.130	KLIPPON STB 1 SS	1002690000	C.78	KSPMH M16 SSC	1477820000	C.78	KTB FS 484815 S4E1	1196210000	C.40
KLIPPON POK 082306 KLIPPON POK 082306 EX	1305850000 1306040000	C.136 C.130	KLIPPON STB 1 SS E KLIPPON STB 1 SS E	1058810000 1058810000	C.66 C.68	KSPMH M16 SSC KSPMH M20 BSC	1477820000 1477750000	D.57 D.57	KTB FS 484815 S4E2 KTB FS 484815 S4E3	1196220000 1196230000	C.40 C.40
KLIPPON POK 082306 EX	1306040000	C.136	KLIPPON STB 1.1 MS HT	1024980000	C.66	KSPMH M20 SSC	1477840000	C.44	KTB FS 484815 S4E4	1196240000	C.40
KLIPPON POK 121209	1305870000	C.130	KLIPPON STB 1.1 MS HT	1024980000	C.69	KSPMH M20 SSC	1477840000	C.45	KTB FS 484820 S4E0	1196250000	C.40
KLIPPON POK 121209	1305870000	C.137	KLIPPON STB 1.1 SS	1002750000 1002750000	C.66	KSPMH M20 SSC KSPMH M20 SSC	1477840000	C.46	KTB FS 484820 S4E1	1196260000	C.40
KLIPPON POK 121209 KLIPPON POK 121209 EX	1305870000 1306050000	C.150 C.130	KLIPPON STB 1.1 SS KLIPPON STB 1.1 SS E	1058820000	C.69 C.66	KSPMH M20 SSC	1477840000 1477840000	C.47 C.79	KTB FS 484820 S4E2 KTB FS 484820 S4E3	1196270000 1196280000	C.40 C.40
KLIPPON POK 121209 EX	1306050000	C.137	KLIPPON STB 1.1 SS E	1058820000	C.69	KSPMH M20 SSC	1477840000	C.80	KTB FS 484820 S4E4	1196290000	C.40
KLIPPON POK 122209	1305880000	C.130	KLIPPON STB 2 MS HT	1024990000	C.66	KSPMH M20 SSC	1477840000	D.57	KTB FS 553515 S4E0	1196300000	C.40
KLIPPON POK 122209 KLIPPON POK 122209 EX	1305880000 1306070000	C.138 C.130	KLIPPON STB 2 MS HT KLIPPON STB 2 SS	1024990000 1002740000	C.70 C.66	KSPMH M25 BSC KSPMH M25 SSC	1477770000 1477870000	D.57 C.47	KTB FS 553515 S4E1 KTB FS 553515 S4E2	1196310000 1196320000	C.40 C.40
KLIPPON POK 122209 EX	1306070000	C.138	KLIPPON STB 2 SS	1002740000	C.70	KSPMH M25 SSC	1477870000	C.81	KTB FS 553515 S4E3	1196330000	C.40
KLIPPON POK 161609	1305890000	C.130	KLIPPON STB 2 SS	1002740000	C.79	KSPMH M25 SSC	1477870000	D.57	KTB FS 553515 S4E4	1196340000	C.40
KLIPPON POK 161609	1305890000	C.139	KLIPPON STB 2 SS E	1058830000	C.66	KSPMH M32 BSC	1477780000	D.57	KTB FS 553520 S4E0	1196350000	C.40
KLIPPON POK 161609 KLIPPON POK 161609 EX	1305890000 1306080000	C.150 C.130	KLIPPON STB 2 SS E KLIPPON STB 2.1 MS HT	1058830000 1025010000	C.70 C.66	KSPMH M32 SSC KSPMH M32 SSC	1477890000 1477890000	C.45 C.46	KTB FS 553520 S4E1 KTB FS 553520 S4E2	1196360000 1196370000	C.40 C.40
KLIPPON POK 161609 EX	1306080000	C.139	KLIPPON STB 2.1 MS HT	1025010000	C.71	KSPMH M32 SSC	1477890000	D.57	KTB FS 553520 S4E3	1196380000	C.40
KLIPPON POK 162609	1305900000	C.130	KLIPPON STB 2.1 SS	1002730000	C.66	KSPMH M40 BSC	1477790000	D.57	KTB FS 553520 S4E4	1196390000	C.40
KLIPPON POK 162609 KLIPPON POK 162609 EX	1305900000 1306090000	C.140 C.130	KLIPPON STB 2.1 SS KLIPPON STB 2.1 SS E	1002730000 1058840000	C.71 C.66	KSPMH M40 SSC KSPMH M40 SSC	1477910000 1477910000	D.57	KTB FS 624515 S4E0 KTB FS 624515 S4E1	1196400000 1196410000	C.40 C.40
KLIPPON POK 162609 EX	1306090000	C.140	KLIPPON STB 2.1 SS E	1058840000	C.71	KSPMH M50 BSC	1477800000	D.57	KTB FS 624515 S4E2	1196420000	C.40
KLIPPON POK 163609	1305910000	C.130	KLIPPON STB 3 MS HT	1025020000	C.66	KSPMH M50 SSC	1477930000	D.57	KTB FS 624515 S4E3	1196430000	C.40
KLIPPON POK 163609	1305910000	C.141	KLIPPON STB 3 MS HT	1025020000	C.72	KSPMH M63 BSC	1477810000	D.57	KTB FS 624515 S4E4	1196440000	C.40
KLIPPON POK 163609 EX KLIPPON POK 163609 EX	1306100000 1306100000	C.130 C.141	KLIPPON STB 3 SS KLIPPON STB 3 SS	1002720000	C.66 C.72	KSPMH M63 SSC KSPMH M75 BSC	1477950000 1477830000	D.57 D.57	KTB FS 624520 S4E0 KTB FS 624520 S4E1	1196450000 1196460000	C.40 C.40
KLIPPON POK 165609	1305920000	C.130	KLIPPON STB 3 SS	1002720000	C.80	KSPMH M75 SSC	1477980000	D.57	KTB FS 624520 S4E2	1196470000	C.40
KLIPPON POK 165609	1305920000	C.142	KLIPPON STB 3 SS E	1058850000	C.66	KSWF M16	1076680000	D.48	KTB FS 624520 S4E3	1196480000	C.40
KLIPPON POK 165609 EX	1306110000	C.130	KLIPPON STB 3 SS E	1058850000	C.72	KSWF M20	0899750000	D.48	KTB FS 624520 S4E4	1196490000	C.40
KLIPPON POK 165609 EX KLIPPON POK 252512	1306110000 1305930000	C.142 C.130	KLIPPON STB 4 MS HT KLIPPON STB 4 MS HT	1025030000 1025030000	C.66 C.73	KSWF M25 KSWF M32	0899770000 1076690000	D.48 D.48	KTB FS 765015 S4E0 KTB FS 765015 S4E1	1196500000 1196510000	C.40 C.40
KLIPPON POK 252512	1305930000	C.143	KLIPPON STB 4 SS	1002710000	C.66	KSWF M40	1076710000	D.48	KTB FS 765015 S4E2	1196520000	C.40
KLIPPON POK 252512 EX	1306120000	C.130	KLIPPON STB 4 SS	1002710000	C.73	KSWF M50	1076720000	D.48	KTB FS 765015 S4E3	1196530000	C.40
KLIPPON POK 252512 EX	1306120000	C.143	KLIPPON STB 4 SS	1002710000	C.81	KSWF M63	1076730000	D.48	KTB FS 765015 S4E4	1196540000	C.40
KLIPPON POK 252516 KLIPPON POK 252516	1305980000 1305980000	C.130 C.144	KLIPPON STB 4 SS E KLIPPON STB 4 SS E	1058860000 1058860000	C.66 C.73	KSWF M75 KSWN M16	1076740000 1076630000	D.48 D.47	KTB FS 765020 S4E0 KTB FS 765020 S4E1	1196550000 1196560000	C.40 C.40
KLIPPON POK 252516 EX	1306170000	C.130	KLIPPON STB 5 MS HT	1025040000	C.66	KSWN M20	0930730002	D.47	KTB FS 765020 S4E2	1196570000	C.40
KLIPPON POK 252516 EX	1306170000	C.144	KLIPPON STB 5 MS HT	1025040000	C.74	KSWN M25	1076640000	D.47	KTB FS 765020 S4E3	1196580000	C.40
KLIPPON POK 254012 KLIPPON POK 254012	1305940000 1305940000	C.130 C.145	KLIPPON STB 5 SS	1002700000 1002700000	C.66 C.74	KSWN M32 KSWN M40	1076650000 0899780000	D.47 D.47	KTB FS 765020 S4E4	1196590000 1196600000	C.40 C.40
KLIPPON POK 254012 EX	1305940000	C.130	KLIPPON STB 5 SS KLIPPON STB 5 SS E	1058880000	C.66	KSWN M50	0900660000	D.47	KTB FS 916115 S4E0 KTB FS 916115 S4E1	1196610000	C.40
KLIPPON POK 254012 EX	1306130000	C.145	KLIPPON STB 5 SS E	1058880000	C.74	KSWN M63	1076660000	D.47	KTB FS 916115 S4E2	1196620000	C.40
KLIPPON POK 254016	1305990000	C.130	KLIPPON STB 6 MS HT	1025050000	C.66	KSWN M75	1076670000	D.47	KTB FS 916115 S4E3	1196630000	C.40
KLIPPON POK 254016 KLIPPON POK 254016 EX	1305990000 1306180000	C.146 C.130	KLIPPON STB 6 MS HT KLIPPON STB 6 SS	1025050000 1002760000	C.75 C.66	KTB FS 221513 S4E0 KTB FS 221513 S4E1	1195650000 1195660000	C.40 C.40	KTB FS 916115 S4E4 KTB FS 916120 S4E0	1196640000 1196650000	C.40 C.40
KLIPPON POK 254016 EX	1306180000	C.130	KLIPPON STB 6 SS	1002760000	C.75	KTB FS 221513 S4E2	1195670000	C.40	KTB FS 916120 S4E1	1196660000	C.40
KLIPPON POK 256012	1305950000	C.130	KLIPPON STB 6 SS E	1058870000	C.66	KTB FS 221513 S4E3	1195680000	C.40	KTB FS 916120 S4E2	1196670000	C.40
KLIPPON POK 256012	1305950000	C.147	KLIPPON STB 6 SS E	1058870000	C.75	KTB FS 221513 S4E4	1195690000	C.40	KTB FS 916120 S4E3	1196680000	C.40
KLIPPON POK 256012 EX KLIPPON POK 256012 EX	1306140000 1306140000	C.130 C.147	KSG M20 BN 0 NI 2 G16 KSG M20 BN 0 NI 2 G20	1911510000 1911560000	D.33 D.33	KTB FS 262615 S4E0 KTB FS 262615 S4E1	1195700000 1195710000	C.40 C.40	KTB FS 916120 S4E4 KTB FS 987420 S4E0	1196690000 1196700000	C.40 C.40
KLIPPON POK 404012	1305970000	C.130	KSG M20 BN 0 NI 2 G20S	1911540000	D.33	KTB FS 262615 S4E2	1195720000	C.40	KTB FS 987420 S4E1	1196710000	C.40
KLIPPON POK 404012	1305970000	C.148	KSG M20 BS 0 NI 2 G16	0930481222	D.34	KTB FS 262615 S4E3	1195730000	C.40	KTB FS 987420 S4E2	1196720000	C.40
KLIPPON POK 404012 EX	1306150000 1306150000	C.130 C.148	KSG M20 BS 0 NI 2 G20 KSG M20 BS 0 NI 2 G20S	0930501222 0930491224	D.34 D.34	KTB FS 262615 S4E4 KTB FS 262620 S4E0	1195740000 1195750000	C.40 C.40	KTB FS 987420 S4E3 KTB FS 987420 S4E4	1196730000 1196740000	C.40 C.40
KLIPPON POK 404012 EX KLIPPON POK1 2M16AB CSS	8000004160	C.150	KSG M25 BN O NI 2 G25	1911570000	D.34 D.33	KTB FS 262620 S4E1	1195760000	C.40	KTB GP 221513 AB S4	1280890000	C.40
KLIPPON POK1 2M16AB CSS	8000004160	C.152	KSG M25 BS 0 NI 2 G25	0930511222	D.34	KTB FS 262620 S4E2	1195770000	C.40	KTB GP 221513 AB S4 6MM	1256270000	C.15
KLIPPON POK1 M16ACSS EX	8000004223	C.150	KSG M32 BN 0 NI 2 G32	1911580000	D.33	KTB FS 262620 S4E3	1195780000	C.40	KTB GP 221513 AB S4 6MM	1256270000	C.44
KLIPPON POK1 M16ACSS EX KLIPPON POK1 M16BCSS EX	8000004223 8000004222	C.152 C.150	KSG M32 BS 0 NI 2 G32 KSG M40 BN 0 NI 2 G40	0930521222 1911590000	D.34 D.33	KTB FS 262620 S4E4 KTB FS 303015 S4E0	1195790000 1195800000	C.40 C.40	KTB GP 221513 AB S4 PE KTB GP 221513 CD S4 6MM	2022770000 1256280000	C.15 C.15
KLIPPON POK1 M16BCSS EX	8000004222	C.152	KSG M40 BS 0 NI 2 G40	0930531222	D.34	KTB FS 303015 S4E1	1195810000	C.40	KTB GP 221513 CD S4 PE	2022900000	C.15
KLIPPON POK2 2M20AB CSS	8000004161	C.150	KSG M50 BN 0 NI 2 G50	1911610000	D.33	KTB FS 303015 S4E2	1195820000	C.40	KTB GP 262615 AB S4	1280910000	C.45
KLIPPON POK2 2M20AB CSS	8000004161	C.153	KSG M50 BN 0 NI 2 G50S	1911600000	D.33	KTB FS 303015 S4E3	1195830000	C.40	KTB GP 262615 AB S4 6MM	1256290000	C.16
KLIPPON POK2 M20ACSS EX KLIPPON POK2 M20ACSS EX	8000004225 8000004225	C.150 C.153	KSG M50 BS 0 NI 2 G50 KSG M50 BS 0 NI 2 G50S	1136670000 1136660000	D.34 D.34	KTB FS 303015 S4E4 KTB FS 303020 S4E0	1195840000 1195850000	C.40 C.40	KTB GP 262615 AB S4 6MM KTB GP 262615 AB S4 PE	1256290000 2022930000	C.45 C.16
KLIPPON POK2 M20BCSS EX	8000004224	C.150	KSG M63 BN 0 NI 2 G63	1911630000	D.33	KTB FS 303020 S4E1	1195860000	C.40	KTB GP 262615 CD S4 6MM	1256310000	C.16
KLIPPON POK2 M20BCSS EX	8000004224	C.153	KSG M63 BN 0 NI 2 G63S	1911620000	D.33	KTB FS 303020 S4E2	1195870000	C.40	KTB GP 262615 CD S4 PE	2023090000	C.16
KLIPPON POK3 4M20AB CSS KLIPPON POK3 4M20AB CSS	8000004162 8000004162	C.150 C.154	KSG M63 BS 0 NI 2 G63 KSG M63 BS 0 NI 2 G63S	1136690000 1136680000	D.34 D.34	KTB FS 303020 S4E3 KTB FS 303020 S4E4	1195880000 1195890000	C.40 C.40	KTB GP 262620 AB S4 6MM KTB GP 262620 AB S4 PE	1256320000 2023100000	C.17 C.17
KLIPPON POK3 M20ACSS EX	8000004102	C.150	KSG M75 BN O NI 2 G75	1075360000	D.33	KTB FS 352615 S4E0	1195900000	C.40	KTB GP 262620 CD S4 6MM	1256330000	C.17
KLIPPON POK3 M20ACSS EX	8000004228	C.154	KSG M75 BN 0 NI 2 G75S	1075350000	D.33	KTB FS 352615 S4E1	1195910000	C.40	KTB GP 262620 CD S4 PE	2023110000	C.17
KLIPPON POK3 M20BCSS EX	8000004226	C.150	KSG M75 BS 0 NI 2 G75	1136710000	D.34	KTB FS 352615 S4E2	1195920000	C.40	KTB GP 303015 AB S4 6MM	1256340000	C.18
KLIPPON POK3 M20BCSS EX KLIPPON POK4 3M20AB CSS	8000004226 8000003448	C.154 C.150	KSG M75 BS 0 NI 2 G75S KSP EL30	1136700000 1736670000	D.34 D.51	KTB FS 352615 S4E3 KTB FS 352615 S4E4	1195930000 1195940000	C.40 C.40	KTB GP 303015 AB S4 PE KTB GP 303015 CD S4 6MM	2023120000 1256350000	C.18
KLIPPON POK4 3M20AB CSS	8000003448	C.155	KSP EL38	1736680000	D.51	KTB FS 352620 S4E0	1195950000	C.40	KTB GP 303015 CD S4 PE	2023130000	C.18
KLIPPON POK4 M20WCSS EX	8000003593	C.150	KSP EL46	1076750000	D.51	KTB FS 352620 S4E1	1195960000	C.40	KTB GP 303020 AB S4	1280970000	C.46
KLIPPON POK4 M20WCSS EX KLIPPON POK4 M20ZCSS EX	8000003593 8000003594	C.155 C.150	KSP EL55 KSP EL65	1076760000 1076770000	D.51 D.51	KTB FS 352620 S4E2 KTB FS 352620 S4E3	1195970000 1195980000	C.40 C.40	KTB GP 303020 AB S4 6MM KTB GP 303020 AB S4 6MM	1256360000 1256360000	C.19 C.46
KLIPPON POK4 M20ZCSS EX	8000003594	C.155	KSP EL80	1076780000	D.51	KTB FS 352620 S4E4	1195990000	C.40	KTB GP 303020 AB S4 PE	2023140000	C.19
KLIPPON POK51 4M20ABCSS	8000004164	C.150	KSP EL90	1076790000	D.51	KTB FS 403015 S4E0	1196000000	C.40	KTB GP 303020 CD S4 6MM	1256370000	C.19
KLIPPON POK51 4M20ABCSS	8000004164	C.156	KSP L 104 S	1193940000	D.50	KTB FS 403015 S4E1	1196010000	C.40	KTB GP 303020 CD S4 PE	2023150000	C.19
KLIPPON POK51 M20WCSS E KLIPPON POK51 M20WCSS E	8000004229 8000004229	C.150 C.156	KSP L114 S KSP L24	1192790000 1736570000	D.50 D.51	KTB FS 403015 S4E2 KTB FS 403015 S4E3	1196020000 1196030000	C.40 C.40	KTB GP 352615 AB S4 6MM KTB GP 352615 AB S4 PE	1256380000 2023160000	C.20 C.20
KLIPPON POK51 M20VCSS E	8000004229	C.150	KSP L24 S	0930700001	D.51	KTB FS 403015 S4E4	1196040000	C.40	KTB GP 352615 AB S4 PE KTB GP 352615 CD S4 6MM	1256390000	C.20
KLIPPON POK51 M20ZCSS E	8000004230	C.156	KSP L30	1736580000	D.51	KTB FS 403020 S4E0	1196050000	C.40	KTB GP 352615 DC S4 PE	2023210000	C.20
KLIPPON QL KEY	2473930000	C.52	KSP L30 S	0930700002	D.50	KTB FS 403020 S4E1	1196060000	C.40	KTB GP 352620 AB S4 6MM	1256410000	C.21
KLIPPON QL KEY KLIPPON QL KEY	2473930000 2473930000	C.53 C.54	KSP L38 KSP L38 S	1736590000 0930700003	D.51 D.50	KTB FS 403020 S4E2 KTB FS 403020 S4E3	1196070000 1196080000	C.40 C.40	KTB GP 352620 AB S4 PE KTB GP 352620 CD S4 6MM	2023230000 1256420000	C.21 C.21
KLIPPON QL KEY	2473930000	C.55	KSP L46	1736600000	D.51	KTB FS 403020 S4E4	1196090000	C.40	KTB GP 352620 CD S4 PE	2023280000	C.21
KLIPPON QL KEY	2473930000	C.56	KSP L46 S	0930700004	D.50	KTB FS 453815 S4E0	1196100000	C.40	KTB GP 403015 AB S4 6MM	1256430000	C.22
KLIPPON QL KEY	2473930000	C.57	KSP L55	1736610000	D.51	KTB FS 453815 S4E1	1196110000	C.40	KTB GP 403015 AB S4 PE	2023320000	C.22
KLIPPON QL KEY KLIPPON QL KEY	2473930000 2473930000	C.58 C.59	KSP L55 S KSP L65	0930700005 1736620000	D.50 D.51	KTB FS 453815 S4E2 KTB FS 453815 S4E3	1196120000 1196130000	C.40 C.40	KTB GP 403015 CD S4 6MM KTB GP 403015 CD S4 PE	1256440000 2023330000	C.22 C.22
KLIPPON QL KEY	2473930000	C.60	KSP L65 S	0930700006	D.50	KTB FS 453815 S4E4	1196140000	C.40	KTB GP 403020 AB S4 6MM	1256450000	C.23
KLIPPON QL KEY	2473930000	C.61	KSP L80	1736630000	D.51	KTB FS 453820 S4E0	1196150000	C.40	KTB GP 403020 AB S4 PE	2023450000	C.23
KLIPPON QL KEY KLIPPON STB 1 MS HT	2473930000 1024970000	C.62 C.66	KSP L80 S KSP L90	0930700007 1736640000	D.50 D.51	KTB FS 453820 S4E1 KTB FS 453820 S4E2	1196160000 1196170000	C.40 C.40	KTB GP 403020 CD S4 6MM KTB GP 403020 CD S4 PE	1256470000 2023480000	C.23 C.23
ACTION OLD THIS III	102-107 0000	0.00	NOT LOO	1750040000	10.01	110 10 T00020 04EZ	1130170000	0.40	D G1 T00020 0D 34 FE	2020400000	<u> </u>

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Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page	
KTB GP 453815 AB S4 6MM	1256480000	C.24	KTB MH 303015 S4E4	1194740000	C.18	KTB MH 553515 S4E4	1195240000	C.12	KTB MOPL 3030 MSZN H	2022190000	C.19	
KTB GP 453815 AB S4 PE KTB GP 453815 CD S4 6MM	2023490000 1256490000	C.24 C.24	KTB MH 303020 S4E0 KTB MH 303020 S4E0	1194750000 1194750000	C.12 C.19	KTB MH 553515 S4E4 KTB MH 553520 S4E0	1195240000 1195250000	C.28 C.12	KTB MOPL 3030 S2N KTB MOPL 3030 S2N	1193830000 1193830000	C.18 C.19	
KTB GP 453815 CD S4 PE	2023500000	C.24	KTB MH 303020 S4E1	1194760000	C.12	KTB MH 553520 S4E0	1195250000	C.29	KTB MOPL 3030 S2N	1193830000	C.46	
KTB GP 453820 AB S4 6MM KTB GP 453820 AB S4 PE	1256510000 2023510000	C.25 C.25	KTB MH 303020 S4E1 KTB MH 303020 S4E2	1194760000 1194770000	C.19 C.12	KTB MH 553520 S4E1 KTB MH 553520 S4E1	1195260000 1195260000	C.12 C.29	KTB MOPL 3030 S2N H KTB MOPL 3030 S2N H	1257670000 1257670000	C.18 C.19	
KTB GP 453820 CD S4 6MM	1256520000	C.25	KTB MH 303020 S4E2	1194770000	C.19	KTB MH 553520 S4E2	1195270000	C.12	KTB MOPL 3526 MSZN	1193970000	C.20	
KTB GP 453820 CD S4 PE KTB GP 484815 AB S4 6MM	2023520000 1256530000	C.25 C.26	KTB MH 303020 S4E3 KTB MH 303020 S4E3	1194780000 1194780000	C.12 C.19	KTB MH 553520 S4E2 KTB MH 553520 S4E3	1195270000 1195280000	C.29 C.12	KTB MOPL 3526 MSZN KTB MOPL 3526 MSZN H	1193970000 2022310000	C.21 C.20	
KTB GP 484815 AB S4 PE	2023530000	C.26	KTB MH 303020 S4E4	1194790000	C.12	KTB MH 553520 S4E3	1195280000	C.29	KTB MOPL 3526 MSZN H	2022310000	C.21	
KTB GP 484815 CD S4 6MM KTB GP 484815 CD S4 PE	1256540000 2023540000	C.26 C.26	KTB MH 303020 S4E4 KTB MH 352615 S4E0	1194790000 1194800000	C.19 C.12	KTB MH 553520 S4E4 KTB MH 553520 S4E4	1195290000 1195290000	C.12 C.29	KTB MOPL 3526 S2N KTB MOPL 3526 S2N	1193840000 1193840000	C.20 C.21	
KTB GP 484820 AB S4	1281130000	C.47	KTB MH 352615 S4E0	1194800000	C.20	KTB MH 624515 S4E0	1195300000	C.12	KTB MOPL 3526 S2N H	1257680000	C.20	
KTB GP 484820 AB S4 6MM KTB GP 484820 AB S4 6MM	1256550000 1256550000	C.27 C.47	KTB MH 352615 S4E1 KTB MH 352615 S4E1	1194810000 1194810000	C.12 C.20	KTB MH 624515 S4E0 KTB MH 624515 S4E1	1195300000 1195310000	C.30 C.12	KTB MOPL 3526 S2N H KTB MOPL 4030 MSZN	1257680000 1193980000	C.21 C.22	
KTB GP 484820 AB S4 PE	2023580000	C.27	KTB MH 352615 S4E2	1194820000	C.12	KTB MH 624515 S4E1	1195310000	C.30	KTB MOPL 4030 MSZN	1193980000	C.23	
KTB GP 484820 CD S4 6MM KTB GP 484820 CD S4 PE	1256560000 2023620000	C.27 C.27	KTB MH 352615 S4E2 KTB MH 352615 S4E3	1194820000 1194830000	C.20 C.12	KTB MH 624515 S4E2 KTB MH 624515 S4E2	1195320000 1195320000	C.12 C.30	KTB MOPL 4030 MSZN H KTB MOPL 4030 MSZN H	2022420000 2022420000	C.22 C.23	
KTB GP 553515 AB S4 6MM	1256570000	C.28	KTB MH 352615 S4E3	1194830000	C.20	KTB MH 624515 S4E3	1195330000	C.12	KTB MOPL 4030 S2N	1193850000	C.22	
KTB GP 553515 AB S4 PE KTB GP 553515 CD S4 6MM	2023660000	C.28 C.28	KTB MH 352615 S4E4	1194840000 1194840000	C.12 C.20	KTB MH 624515 S4E3	1195330000	C.30 C.12	KTB MOPL 4030 S2N	1193850000 1257690000	C.23 C.22	
KTB GP 553515 CD S4 PE	1256580000 2023670000	C.28	KTB MH 352615 S4E4 KTB MH 352620 S4E0	1194850000	C.12	KTB MH 624515 S4E4 KTB MH 624515 S4E4	1195340000 1195340000	C.30	KTB MOPL 4030 S2N H KTB MOPL 4030 S2N H	1257690000	C.23	
KTB GP 553520 AB S4 6MM	1256590000	C.29	KTB MH 352620 S4E0	1194850000	C.21	KTB MH 624520 S4E0	1195350000	C.12	KTB MOPL 4538 MSZN	1193990000	C.24	
KTB GP 553520 AB S4 PE KTB GP 553520 CD S4 6MM	2023740000 1256610000	C.29 C.29	KTB MH 352620 S4E1 KTB MH 352620 S4E1	1194860000 1194860000	C.12 C.21	KTB MH 624520 S4E0 KTB MH 624520 S4E1	1195350000 1195360000	C.31 C.12	KTB MOPL 4538 MSZN KTB MOPL 4538 MSZN H	1193990000 2022590000	C.25 C.24	
KTB GP 553520 CD S4 PE	2023790000	C.29	KTB MH 352620 S4E2	1194870000	C.12	KTB MH 624520 S4E1	1195360000	C.31	KTB MOPL 4538 MSZN H	2022590000	C.25	
KTB GP 624515 AB S4 6MM KTB GP 624515 AB S4 PE	1256620000 2023820000	C.30	KTB MH 352620 S4E2 KTB MH 352620 S4E3	1194870000 1194880000	C.21 C.12	KTB MH 624520 S4E2 KTB MH 624520 S4E2	1195370000 1195370000	C.12 C.31	KTB MOPL 4538 S2N KTB MOPL 4538 S2N	1193860000 1193860000	C.24 C.25	
KTB GP 624515 CD S4 6MM	1256630000	C.30	KTB MH 352620 S4E3	1194880000	C.21	KTB MH 624520 S4E3	1195380000	C.12	KTB MOPL 4538 S2N H	1257700000	C.24	
KTB GP 624515 CD S4 PE	2023870000	C.30 C.31	KTB MH 352620 S4E4	1194890000 1194890000	C.12 C.21	KTB MH 624520 S4E3 KTB MH 624520 S4E4	1195380000	C.31 C.12	KTB MOPL 4538 S2N H	1257700000 1194000000	C.25 C.26	
KTB GP 624520 AB S4 6MM KTB GP 624520 AB S4 PE	1256640000 2023880000	C.31	KTB MH 352620 S4E4 KTB MH 403015 S4E0	1194890000	C.12	KTB MH 624520 S4E4	1195390000 1195390000	C.12	KTB MOPL 4848 MSZN KTB MOPL 4848 MSZN	1194000000	C.27	
KTB GP 624520 CD S4 6MM	1256650000	C.31 C.31	KTB MH 403015 S4E0	1194900000	C.22	KTB MH 765015 S4E0 KTB MH 765015 S4E0	1195400000	C.12	KTB MOPL 4848 MSZN H	2022610000	C.26 C.27	
KTB GP 624520 CD S4 PE KTB GP 765015 AB S4 6MM	2023930000 1256660000	C.32	KTB MH 403015 S4E1 KTB MH 403015 S4E1	1194910000 1194910000	C.12 C.22	KTB MH 765015 S4E1	1195400000 1195410000	C.32 C.12	KTB MOPL 4848 MSZN H KTB MOPL 4848 S2N	2022610000 1193870000	C.27	
KTB GP 765015 AB S4 PE	2024040000	C.32	KTB MH 403015 S4E2	1194920000	C.12	KTB MH 765015 S4E1	1195410000	C.32	KTB MOPL 4848 S2N	1193870000	C.27	
KTB GP 765015 CD S4 6MM KTB GP 765015 CD S4 PE	1256670000 2024090000	C.32 C.32	KTB MH 403015 S4E2 KTB MH 403015 S4E3	1194920000 1194930000	C.22 C.12	KTB MH 765015 S4E2 KTB MH 765015 S4E2	1195420000 1195420000	C.12 C.32	KTB MOPL 4848 S2N KTB MOPL 4848 S2N H	1193870000 1257710000	C.47 C.26	
KTB GP 765020 AB S4 6MM	1256680000	C.33	KTB MH 403015 S4E3	1194930000	C.22	KTB MH 765015 S4E3	1195430000	C.12	KTB MOPL 4848 S2N H	1257710000	C.27	
KTB GP 765020 AB S4 PE KTB GP 765020 CD S4 6MM	2024100000 1256690000	C.33	KTB MH 403015 S4E4 KTB MH 403015 S4E4	1194940000 1194940000	C.12 C.22	KTB MH 765015 S4E3 KTB MH 765015 S4E4	1195430000 1195440000	C.32 C.12	KTB MOPL 5535 MSZN KTB MOPL 5535 MSZN	1194010000 1194010000	C.28 C.29	
KTB GP 765020 CD S4 PE	2024140000	C.33	KTB MH 403020 S4E0	1194950000	C.12	KTB MH 765015 S4E4	1195440000	C.32	KTB MOPL 5535 MSZN H	2022650000	C.28	
KTB GP 916115 AB S4 6MM KTB GP 916115 AB S4 PE	1256710000 2024150000	C.34 C.34	KTB MH 403020 S4E0 KTB MH 403020 S4E1	1194950000 1194960000	C.23 C.12	KTB MH 765020 S4E0 KTB MH 765020 S4E0	1195450000 1195450000	C.12 C.33	KTB MOPL 5535 MSZN H KTB MOPL 5535 S2N	2022650000 1193880000	C.29 C.28	
KTB GP 916115 CD S4 6MM	1256720000	C.34	KTB MH 403020 S4E1	1194960000	C.23	KTB MH 765020 S4E1	1195460000	C.12	KTB MOPL 5535 S2N	1193880000	C.29	
KTB GP 916115 CD S4 PE	2024300000	C.34 C.35	KTB MH 403020 S4E2	1194970000	C.12 C.23	KTB MH 765020 S4E1	1195460000	C.33	KTB MOPL 5535 S2N H	1257720000	C.28 C.29	
KTB GP 916120 AB S4 6MM KTB GP 916120 AB S4 PE	1256730000 2024470000	C.35	KTB MH 403020 S4E2 KTB MH 403020 S4E3	1194970000 1194980000	C.12	KTB MH 765020 S4E2 KTB MH 765020 S4E2	1195470000 1195470000	C.12 C.33	KTB MOPL 5535 S2N H KTB MOPL 6245 MSZN	1257720000 1194020000	C.30	
KTB GP 916120 CD S4 6MM	1256740000	C.35	KTB MH 403020 S4E3	1194980000	C.23	KTB MH 765020 S4E3	1195480000	C.12	KTB MOPL 6245 MSZN	1194020000	C.31	
KTB GP 916120 CD S4 PE KTB GP 987420 AB S4 6MM	2024490000 1256750000	C.35 C.36	KTB MH 403020 S4E4 KTB MH 403020 S4E4	1194990000 1194990000	C.12 C.23	KTB MH 765020 S4E3 KTB MH 765020 S4E4	1195480000 1195490000	C.33 C.12	KTB MOPL 6245 MSZN H KTB MOPL 6245 MSZN H	2022670000 2022670000	C.30 C.31	
KTB GP 987420 AB S4 PE	2024560000	C.36	KTB MH 453815 S4E0	1195000000	C.12	KTB MH 765020 S4E4	1195490000	C.33	KTB MOPL 6245 S2N	1193890000	C.30	
KTB GP 987420 CD S4 6MM KTB GP 987420 CD S4 PE	1256760000 2024590000	C.36	KTB MH 453815 S4E0 KTB MH 453815 S4E1	1195000000 1195010000	C.24 C.12	KTB MH 916115 S4E0 KTB MH 916115 S4E0	1195500000 1195500000	C.12 C.34	KTB MOPL 6245 S2N KTB MOPL 6245 S2N H	1193890000 1257740000	C.31 C.30	
KTB MH 221513 Exia	8000028398	C.42	KTB MH 453815 S4E1	1195010000	C.24	KTB MH 916115 S4E1	1195510000	C.12	KTB MOPL 6245 S2N H	1257740000	C.31	
KTB MH 221513 Exia KTB MH 221513 S4E0	8000028398 1194550000	C.44 C.12	KTB MH 453815 S4E2 KTB MH 453815 S4E2	1195020000 1195020000	C.12 C.24	KTB MH 916115 S4E1 KTB MH 916115 S4E2	1195510000 1195520000	C.34 C.12	KTB MOPL 7650 MSZN KTB MOPL 7650 MSZN	1194030000 1194030000	C.32 C.33	
KTB MH 221513 S4E0	1194550000	C.15	KTB MH 453815 S4E3	1195030000	C.12	KTB MH 916115 S4E2	1195520000	C.34	KTB MOPL 7650 MSZN H	2022680000	C.32	
KTB MH 221513 S4E1 KTB MH 221513 S4E1	1194560000	C.12 C.15	KTB MH 453815 S4E3 KTB MH 453815 S4E4	1195030000 1195040000	C.24	KTB MH 916115 S4E3 KTB MH 916115 S4E3	1195530000	C.12 C.34	KTB MOPL 7650 MSZN H KTB MOPL 7650 S2N	2022680000	C.33	
KTB MH 221513 S4E1	1194560000	C.44	KTB MH 453815 S4E4	1195040000	C.24	KTB MH 916115 S4E4	1195540000	C.12	KTB MOPL 7650 S2N	1193900000	C.33	
KTB MH 221513 S4E2 KTB MH 221513 S4E2	1194570000 1194570000	C.12	KTB MH 453820 S4E0 KTB MH 453820 S4E0	1195050000	C.12	KTB MH 916115 S4E4	1195540000	C.34	KTB MOPL 7650 S2N H	1257750000	C.32	
KTB MH 221513 S4E3	1194570000	C.15 C.12	KTB MH 453820 S4E1	1195050000 1195060000	C.25 C.12	KTB MH 916120 S4E0 KTB MH 916120 S4E0	1195550000 1195550000	C.12 C.35	KTB MOPL 7650 S2N H KTB MOPL 9161 MSZN	1257750000 1194040000	C.33 C.34	
KTB MH 221513 S4E3	1194580000	C.15	KTB MH 453820 S4E1	1195060000	C.25	KTB MH 916120 S4E1	1195560000	C.12	KTB MOPL 9161 MSZN	1194040000	C.35	
KTB MH 221513 S4E4 KTB MH 221513 S4E4	1194590000 1194590000	C.12 C.15	KTB MH 453820 S4E2 KTB MH 453820 S4E2	1195070000 1195070000	C.12 C.25	KTB MH 916120 S4E1 KTB MH 916120 S4E2	1195560000 1195570000	C.35 C.12	KTB MOPL 9161 MSZN H KTB MOPL 9161 MSZN H	2022740000 2022740000	C.34 C.35	
KTB MH 262615 Exia	8000028399	C.42	KTB MH 453820 S4E3	1195080000	C.12	KTB MH 916120 S4E2	1195570000	C.35	KTB MOPL 9161 S2N	1193910000	C.34	
KTB MH 262615 Exia KTB MH 262615 S4E0	8000028399 1194600000	C.45 C.12	KTB MH 453820 S4E3 KTB MH 453820 S4E4	1195080000 1195090000	C.25 C.12	KTB MH 916120 S4E3 KTB MH 916120 S4E3	1195580000 1195580000	C.12 C.35	KTB MOPL 9161 S2N KTB MOPL 9161 S2N H	1193910000 1257760000	C.35 C.34	
KTB MH 262615 S4E0	1194600000	C.16	KTB MH 453820 S4E4	1195090000	C.25	KTB MH 916120 S4E4	1195590000	C.12	KTB MOPL 9161 S2N H	1257760000	C.35	
KTB MH 262615 S4E1 KTB MH 262615 S4E1	1194610000 1194610000	C.12 C.16	KTB MH 484815 S4E0 KTB MH 484815 S4E0	1195100000 1195100000	C.12 C.26	KTB MH 916120 S4E4 KTB MH 987420 S4E0	1195590000 1195600000	C.35 C.12	KTB MOPL 9874 MSZN KTB MOPL 9874 MSZN H	1194050000 2022760000	C.36 C.36	
KTB MH 262615 S4E1	1194610000	C.45	KTB MH 484815 S4E1	1195110000	C.12	KTB MH 987420 S4E0	1195600000	C.36	KTB MOPL 9874 S2N	1193920000	C.36	
KTB MH 262615 S4E2 KTB MH 262615 S4E2	1194620000 1194620000	C.12 C.16	KTB MH 484815 S4E1 KTB MH 484815 S4E2	1195110000 1195120000	C.26 C.12	KTB MH 987420 S4E1 KTB MH 987420 S4E1	1195610000 1195610000	C.12 C.36	KTB MOPL 9874 S2N H KTB QL 221513 S4E0	1257770000 1199850000	C.36 C.38	
KTB MH 262615 S4E3	1194630000	C.10	KTB MH 484815 S4E2	1195120000	C.26	KTB MH 987420 S4E2	1195620000	C.12	KTB QL 221513 S4E1	1199860000	C.38	
KTB MH 262615 S4E3	1194630000	C.16	KTB MH 484815 S4E3	1195130000	C.12	KTB MH 987420 S4E2	1195620000	C.36	KTB QL 221513 S4E2	1199870000	C.38	
KTB MH 262615 S4E4 KTB MH 262615 S4E4	1194640000 1194640000	C.12 C.16	KTB MH 484815 S4E3 KTB MH 484815 S4E4	1195130000 1195140000	C.26 C.12	KTB MH 987420 S4E3 KTB MH 987420 S4E3	1195630000 1195630000	C.12 C.36	KTB QL 221513 S4E3 KTB QL 221513 S4E4	1199880000 1199890000	C.38 C.38	
KTB MH 262620 S4E0	1194650000	C.12	KTB MH 484815 S4E4	1195140000	C.26	KTB MH 987420 S4E4	1195640000	C.12	KTB QL 262615 S4E0	1199900000	C.38	
KTB MH 262620 S4E0 KTB MH 262620 S4E1	1194650000 1194660000	C.17 C.12	KTB MH 484820 S4E0 KTB MH 484820 S4E0	1195150000 1195150000	C.12 C.27	KTB MH 987420 S4E4 KTB MOPL 2215 MSZN	1195640000 1193930000	C.36 C.15	KTB QL 262615 S4E1 KTB QL 262615 S4E2	1199910000 1199920000	C.38 C.38	
KTB MH 262620 S4E1	1194660000	C.17	KTB MH 484820 S4E1	1195160000	C.12	KTB MOPL 2215 MSZN H	2022050000	C.15	KTB QL 262615 S4E3	1199930000	C.38	
KTB MH 262620 S4E2 KTB MH 262620 S4E2	1194670000 1194670000	C.12 C.17	KTB MH 484820 S4E1 KTB MH 484820 S4E2	1195160000 1195170000	C.27 C.12	KTB MOPL 2215 S2N KTB MOPL 2215 S2N	1193810000 1193810000	C.15 C.44	KTB QL 262615 S4E4 KTB QL 262620 S4E0	1199940000 1199950000	C.38 C.38	
KTB MH 262620 S4E3	1194680000	C.12	KTB MH 484820 S4E2	1195170000	C.27	KTB MOPL 2215 S2N H	1257650000	C.15	KTB QL 262620 S4E1	1199960000	C.38	
KTB MH 262620 S4E3	1194680000	C.17	KTB MH 484820 S4E3	1195180000	C.12	KTB MOPL 2626 MSZN	1193950000	C.16	KTB OL 262620 S4E2	1199970000	C.38	
KTB MH 262620 S4E4 KTB MH 262620 S4E4	1194690000 1194690000	C.12 C.17	KTB MH 484820 S4E3 KTB MH 484820 S4E4	1195180000 1195190000	C.27 C.12	KTB MOPL 2626 MSZN KTB MOPL 2626 MSZN H	1193950000 2022060000	C.17 C.16	KTB QL 262620 S4E3 KTB QL 262620 S4E4	1199980000 1199990000	C.38 C.38	
KTB MH 303015 S4E0	1194700000	C.12	KTB MH 484820 S4E4	1195190000	C.27	KTB MOPL 2626 MSZN H	2022060000	C.17	KTB QL 303015 S4E0	1200010000	C.38	
KTB MH 303015 S4E0 KTB MH 303015 S4E1	1194700000 1194710000	C.18 C.12	KTB MH 553515 S4E0 KTB MH 553515 S4E0	1195200000 1195200000	C.12 C.28	KTB MOPL 2626 S2N KTB MOPL 2626 S2N	1193820000 1193820000	C.16 C.17	KTB QL 303015 S4E1 KTB QL 303015 S4E2	1200020000 1200030000	C.38 C.38	
KTB MH 303015 S4E1	1194710000	C.18	KTB MH 553515 S4E1	1195210000	C.12	KTB MOPL 2626 S2N	1193820000	C.45	KTB QL 303015 S4E3	1200040000	C.38	
KTB MH 303015 S4E2 KTB MH 303015 S4E2	1194720000 1194720000	C.12 C.18	KTB MH 553515 S4E1 KTB MH 553515 S4E2	1195210000 1195220000	C.28 C.12	KTB MOPL 2626 S2N H KTB MOPL 2626 S2N H	1257660000 1257660000	C.16 C.17	KTB QL 303015 S4E4 KTB QL 303020 EXE	1200050000 8000028400	C.38 C.42	
KTB MH 303015 S4E3	1194720000	C.12	KTB MH 553515 S4E2	1195220000	C.28	KTB MOPL 3030 MSZN	1193960000	C.17	KTB QL 303020 EXE	8000028400	C.42	
KTB MH 303015 S4E3	1194730000	C.18	KTB MH 553515 S4E3	1195230000	C.12	KTB MOPL 3030 MSZN	1193960000	C.19	KTB OL 303020 S4E0	1200060000	C.38	
KTB MH 303015 S4E4	1194740000	C.12	KTB MH 553515 S4E3	1195230000	C.28	KTB MOPL 3030 MSZN H	2022190000	C.18	KTB QL 303020 S4E1	1200070000	C.38	



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KTB QL 303020 S4E1	1200070000	C.46	KTB QLL S2 SLS	1191600000	C.59	MOPL K4 STAHL	3073060000	C.106	PEBZ M10 BR SET	1277220000	C.114
KTB QL 303020 S4E2 KTB QL 303020 S4E3	1200080000 1200090000	C.38	KTB QLL S2 SLS KTB QLL S2 SLS	1191600000 1191600000	C.60 C.61	MOPL K41 STAHL MOPL K5 STAHL	3073070000 3073080000	C.107 C.108	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.132 C.133
KTB QL 303020 S4E4	1200100000	C.38	KTB QLL S2 SLS	1191600000	C.62	MOPL K51 STAHL	3073090000	C.109	PEBZ M10 BR SET	1277220000	C.134
KTB QL 352615 S4E0 KTB QL 352615 S4E1	1200110000 1200120000	C.38	KTB RNHD 221513 R KTB RNHD 221513 R	1281360000 1281360000	C.15 C.44	MOPL K52 STAHL MOPL K6 STAHL	3073100000 3073110000	C.110 C.111	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.135 C.136
KTB QL 352615 S4E2	1200130000	C.38	KTB RNHD 221513 S4E R	1314090000	C.15	MOPL K61 STAHL	3073110000	C.111	PEBZ M10 BR SET	1277220000	C.137
KTB QL 352615 S4E3 KTB QL 352615 S4E4	1200140000 1200150000	C.38	KTB RNHD 262615 R KTB RNHD 262615 R	1281370000 1281370000	C.16 C.45	MOPL K7 STAHL MOPL K71 STAHL	3073130000 3073140000	C.113 C.114	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.138 C.139
KTB QL 352620 S4E0	1200160000	C.38	KTB RNHD 262615 S4E R	1314100000	C.16	MOPL SET BK12 S	8000004135	C.114	PEBZ M10 BR SET	1277220000	C.140
KTB QL 352620 S4E1	1200170000	C.38	KTB RNHD 262620 R	1281380000	C.17	MOPL SET BK4 S	8000004129	C.116	PEBZ M10 BR SET	1277220000	C.141
KTB QL 352620 S4E2 KTB QL 352620 S4E3	1200180000 1200190000	C.38 C.38	KTB RNHD 262620 S4E R KTB RNHD 303015 R	1314110000 1281390000	C.17 C.18	MOPL SET BK6 S MP FPC 20/20	8000004132 9535920000	C.116 C.185	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.142 C.143
KTB QL 352620 S4E4	1200210000	C.38	KTB RNHD 303015 S4E R	1314120000	C.18	MP FPC 20/30	9535930000	C.185	PEBZ M10 BR SET	1277220000	C.144
KTB QL 403015 S4E0 KTB QL 403015 S4E1	1200220000 1200230000	C.38 C.38	KTB RNHD 303020 R KTB RNHD 303020 R	1281400000 1281400000	C.19 C.46	MP FPC 20/40 MP FPC 30/30	9535940000 9535950000	C.186	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.145 C.146
KTB QL 403015 S4E2	1200240000	C.38	KTB RNHD 303020 S4E R	1314130000	C.19	MP FPC 30/40	9535960000	C.187	PEBZ M10 BR SET	1277220000	C.147
KTB QL 403015 S4E3 KTB QL 403015 S4E4	1200250000 1200260000	C.38	KTB RNHD 352615 R KTB RNHD 352615 S4E R	1281410000 1314140000	C.20 C.20	MP FPC 40/60 MP MPC 07/12	9535980000 9535540000	C.187 C.178	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.148 C.170
KTB QL 403013 34E4	1200270000	C.38	KTB RNHD 352620 R	1281420000	C.21	MP MPC 12/12	9535550000	C.178	PEBZ M10 BR SET	1277220000	C.170
KTB QL 403020 S4E1	1200280000	C.38	KTB RNHD 352620 S4E R	1314150000	C.21	MP MPC 12/17	9535560000	C.179	PEBZ M10 BR SET	1277220000	C.172
KTB QL 403020 S4E2 KTB QL 403020 S4E3	1200290000 1200310000	C.38 C.38	KTB RNHD 403015 R KTB RNHD 403015 S4E R	1281430000 1314170000	C.22 C.22	MP MPC 12/17 MP MPC 17/17	9535560000 9535570000	C.180 C.181	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.173 C.174
KTB QL 403020 S4E4	1200320000	C.38	KTB RNHD 403020 R	1281440000	C.23	MP MPC 17/17	9535570000	C.182	PEBZ M10 BR SET	1277220000	C.178
KTB QL 453815 S4E0 KTB QL 453815 S4E1	1200330000 1200340000	C.38	KTB RNHD 403020 S4E R KTB RNHD 453815 R	1314180000 1281450000	C.23 C.24	MP MPC 17/25 MP MPC 17/25	9535580000 9535580000	C.182 C.183	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.179 C.180
KTB QL 453815 S4E2	1200350000	C.38	KTB RNHD 453815 S4E R	1314190000	C.24	MP TBF 19/15	9502720000	C.170	PEBZ M10 BR SET	1277220000	C.181
KTB QL 453815 S4E3 KTB QL 453815 S4E4	1200360000 1200370000	C.38 C.38	KTB RNHD 453820 R KTB RNHD 453820 S4E R	1281460000 1314200000	C.25 C.25	MP TBF 30/19 MP TBF 30/30	3018950000 9502730000	C.170 C.171	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.182 C.183
KTB QL 453820 S4E0	1200370000	C.38	KTB RNHD 484815 R	1281470000	C.26	MP TBF 37/30	9502740000	C.171	PEBZ M10 BR SET	1277220000	C.185
KTB QL 453820 S4E1	1200390000	C.38	KTB RNHD 484815 S4E R	1314220000	C.26	MP TBF 49/30	9500960000	C.172	PEBZ M10 BR SET	1277220000	C.186
KTB QL 453820 S4E2 KTB QL 453820 S4E3	1200410000 1200420000	C.38	KTB RNHD 484820 R KTB RNHD 484820 R	1281480000 1281480000	C.27 C.47	MP TBF 56/30 MP TBF 60/30	9500950000 9502750000	C.172 C.173	PEBZ M10 BR SET PEBZ M10 KTB S4 SET	1277220000 1192690000	C.187 C.15
KTB QL 453820 S4E4	1200430000	C.38	KTB RNHD 484820 S4E R	1314230000	C.27	MP TBF 60/37	9502910000	C.174	PEBZ M10 KTB S4 SET	1192690000	C.16
KTB QL 484815 S4E0 KTB QL 484815 S4E1	1200440000 1200450000	C.38 C.38	KTB RNHD 553515 R KTB RNHD 553515 S4E R	1281490000 1314240000	C.28 C.28	MP TBF 60/60 MPC 07/12/07 7035	9502920000 9535170000	C.174 C.176	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000 1192690000	C.17 C.18
KTB QL 484815 S4E2	1200460000	C.38	KTB RNHD 553520 R	1281500000	C.29	MPC 07/12/07 7035	9535170000	C.178	PEBZ M10 KTB S4 SET	1192690000	C.19
KTB QL 484815 S4E3 KTB QL 484815 S4E4	1200470000 1200480000	C.38 C.38	KTB RNHD 553520 S4E R KTB RNHD 624515 R	1314250000 1281510000	C.29 C.30	MPC 07/12/07 TRSP MPC 07/12/07 TRSP	9535180000 9535180000	C.176 C.178	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000 1192690000	C.20 C.21
KTB QL 484820 Exe	8000028401	C.42	KTB RNHD 624515 S4E R	1314270000	C.30	MPC 07/12/10 7035	9535190000	C.176	PEBZ M10 KTB S4 SET	1192690000	C.22
KTB QL 484820 Exe	8000028401	C.47	KTB RNHD 624520 R	1281520000	C.31	MPC 07/12/10 TRSP	9535200000	C.176	PEBZ M10 KTB S4 SET	1192690000	C.23
KTB QL 484820 S4E0 KTB QL 484820 S4E1	1200490000 1200510000	C.38 C.38	KTB RNHD 624520 S4E R KTB RNHD 765015 R	1314280000 1281530000	C.31 C.32	MPC 07/12/12 7035 MPC 07/12/12 7035	9535210000 9535210000	C.176 C.178	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000 1192690000	C.24 C.25
KTB QL 484820 S4E1	1200510000	C.47	KTB RNHD 765015 S4E R	1314290000	C.32	MPC 07/12/12 TRSP	9535220000	C.176	PEBZ M10 KTB S4 SET	1192690000	C.26
KTB QL 484820 S4E2 KTB QL 484820 S4E3	1200520000 1200530000	C.38 C.38	KTB RNHD 765020 R KTB RNHD 765020 S4E R	1281540000 1314300000	C.33 C.33	MPC 07/12/12 TRSP MPC 12/12/07 7035	9535220000 9535230000	C.178 C.176	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000 1192690000	C.27 C.28
KTB QL 484820 S4E4	1200540000	C.38	KTB RNHD 916115 R	1281550000	C.34	MPC 12/12/07 7035	9535230000	C.179	PEBZ M10 KTB S4 SET	1192690000	C.29
KTB QL 553515 S4E0 KTB QL 553515 S4E1	1200550000 1200560000	C.38 C.38	KTB RNHD 916115 S4E R KTB RNHD 916120 R	1314320000 1281570000	C.34 C.35	MPC 12/12/07 TRSP MPC 12/12/07 TRSP	9535240000 9535240000	C.176 C.179	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000 1192690000	C.30 C.31
KTB QL 553515 S4E2	1200570000	C.38	KTB RNHD 916120 S4E R	1314330000	C.35	MPC 12/12/10 7035	9535250000	C.176	PEBZ M10 KTB S4 SET	1192690000	C.32
KTB QL 553515 S4E3	1200580000	C.38	KTB RNHD 987420 R KTB RNHD 987420 S4E R	1281580000 1314340000	C.36	MPC 12/12/10 TRSP	9535260000 9535270000	C.176 C.176	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000	C.33 C.34
KTB QL 553515 S4E4 KTB QL 553520 S4E0	1200590000 1200610000	C.38	KV 11-M	1656390000	D.10	MPC 12/12/12 7035 MPC 12/12/12 TRSP	9535280000	C.176	PEBZ M10 KTB S4 SET	1192690000 1192690000	C.35
KTB QL 553520 S4E1	1200620000	C.38	KV 13-M	1656400000	D.10	MPC 12/17/07 7035	9535290000	C.176	PEBZ M10 KTB S4 SET	1192690000	C.36
KTB QL 553520 S4E2 KTB QL 553520 S4E3	1200630000 1200640000	C.38 C.38	KV 16-M KV 21-M	1656410000 1656420000	D.10 D.10	MPC 12/17/07 7035 MPC 12/17/07 TRSP	9535290000 9535300000	C.179 C.176	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	1192690000 1192690000	C.44 C.45
KTB QL 553520 S4E4	1200650000	C.38	KV 29-M	1656430000	D.10	MPC 12/17/07 TRSP	9535300000	C.179	PEBZ M10 KTB S4 SET	1192690000	C.46
KTB QL 624515 S4E0 KTB QL 624515 S4E1	1200660000 1200670000	C.38 C.38	N/I			MPC 12/17/10 7035 MPC 12/17/10 7035	9535310000 9535310000	C.176 C.180	PEBZ M10 KTB S4 SET PEBZ M10 S4 SET	1192690000 1283440000	C.47 C.106
KTB QL 624515 S4E2	1200680000	C.38	M			MPC 12/17/10 TRSP	9535320000	C.176	PEBZ M10 S4 SET	1283440000	C.107
KTB QL 624515 S4E3 KTB QL 624515 S4E4	1200690000 1200710000	C.38 C.38	MF FPC MF FPC	9536040000 9536040000	C.185 C.186	MPC 12/17/10 TRSP MPC 12/17/12 7035	9535320000 9535330000	C.180 C.176	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.108 C.109
KTB QL 624520 S4E0	1200710000	C.38	MF FPC	9536040000	C.187	MPC 12/17/12 7035	9535330000	C.170	PEBZ M10 S4 SET	1283440000	C.110
KTB QL 624520 S4E1	1200730000	C.38	MF MPC	9535600000	C.178	MPC 12/17/12 TRSP	9535340000 9535340000	C.176	PEBZ M10 S4 SET	1283440000	C.111
KTB QL 624520 S4E2 KTB QL 624520 S4E3	1200740000 1200750000	C.38 C.38	MF MPC MF MPC	9535600000 9535600000	C.179 C.180	MPC 12/17/12 TRSP MPC 12/17/15 7035	9535350000	C.180 C.176	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.112 C.113
KTB QL 624520 S4E4	1200760000	C.38	MF MPC	9535600000	C.181	MPC 12/17/15 TRSP	9535360000	C.176	PEBZ M10 S4 SET	1283440000	C.114
KTB QL 765015 S4E0 KTB QL 765015 S4E1	1200770000 1200780000	C.38 C.38	MF MPC MF MPC	9535600000 9535600000	C.182 C.183	MPC 17/17/07 7035 MPC 17/17/07 7035	9535370000 9535370000	C.176 C.181	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.132 C.133
KTB QL 765015 S4E2	1200790000	C.38	MF POK BIG	9510910000	C.137	MPC 17/17/07 TRSP	9535380000	C.176	PEBZ M10 S4 SET	1283440000	C.134
KTB QL 765015 S4E3 KTB QL 765015 S4E4	1200810000 1200820000	C.38 C.38	MF POK BIG MF POK BIG	9510910000 9510910000	C.138 C.139	MPC 17/17/07 TRSP MPC 17/17/10 7035	9535380000 9535390000	C.181 C.176	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.135 C.136
KTB QL 765020 S4E0	1200830000	C.38	MF POK BIG	9510910000	C.140	MPC 17/17/10 TRSP	9535400000	C.176	PEBZ M10 S4 SET	1283440000	C.137
KTB QL 765020 S4E1	1200840000	C.38	MF POK BIG MF POK BIG	9510910000 9510910000	C.141	MPC 17/17/12 7035 MPC 17/17/15 7035	9535410000	C.176	PEBZ M10 S4 SET	1283440000	C.138
KTB QL 765020 S4E2 KTB QL 765020 S4E3	1200850000 1200860000	C.38 C.38	MF POK BIG	9510910000	C.142 C.143	MPC 17/17/15 7035	9535430000 9535430000	C.176 C.182	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.139 C.140
KTB QL 765020 S4E4	1200870000	C.38	MF POK BIG	9510910000	C.144	MPC 17/17/15 TRSP	9535440000	C.176	PEBZ M10 S4 SET	1283440000	C.141
KTB QL 916115 S4E0 KTB QL 916115 S4E1	1200880000 1200890000	C.38 C.38	MF POK BIG MF POK BIG	9510910000 9510910000	C.145 C.146	MPC 17/17/15 TRSP MPC 17/25/07 7035	9535440000 9535450000	C.182 C.176	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.142 C.143
KTB QL 916115 S4E2	1200910000	C.38	MF POK BIG	9510910000	C.147	MPC 17/25/07 7035	9535450000	C.182	PEBZ M10 S4 SET	1283440000	C.144
KTB QL 916115 S4E3 KTB QL 916115 S4E4	1200920000 1200930000	C.38 C.38	MF POK BIG MF POK SMALL	9510910000 9510900000	C.148 C.132	MPC 17/25/10 7035 MPC 17/25/10 7035	9535470000 9535470000	C.176 C.183	PEBZ M10 S4 SET	1283440000 1283440000	C.145 C.146
KTB QL 916120 S4E0	1200940000	C.38	MF POK SMALL	9510900000	C.132	MPC 17/25/10 7035	9535480000	C.176	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000	C.146
KTB QL 916120 S4E1	1200950000	C.38	MF POK SMALL	9510900000	C.134	MPC 17/25/10 TRSP	9535480000	C.183	PEBZ M10 S4 SET	1283440000	C.148
KTB QL 916120 S4E2 KTB QL 916120 S4E3	1200960000 1200970000	C.38 C.38	MF POK SMALL MF POK SMALL	9510900000 9510900000	C.135 C.136	MPC 17/25/15 7035 MPC 17/25/15 7035	9535490000 9535490000	C.176 C.183	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.170 C.171
KTB QL 916120 S4E4	1200980000	C.38	MF TBF	0360800000	C.170	MPC 17/25/15 TRSP	9535500000	C.176	PEBZ M10 S4 SET	1283440000	C.172
KTB QL 987420 S4E0 KTB QL 987420 S4E1	1200990000 1201010000	C.38 C.38	MF TBF MF TBF	0360800000 0360800000	C.171 C.172	MPC 17/25/15 TRSP	9535500000	C.183	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.173 C.174
KTB QL 987420 S4E2	1201010000	C.38	MF TBF	0360800000	C.172	Р			PEBZ M10 S4 SET	1283440000	C.174
KTB QL 987420 S4E3	1201030000	C.38	MF TBF	0360800000	C.174		1277220000	C 100	PEBZ M10 S4 SET	1283440000	C.179
KTB OL 987420 S4E4 KTB OLL S2 SLS	1201040000 1191600000	C.38 C.52	MOPL K1 N FE MOPL K11 STAHL	1905280000 3073000000	C.99 C.100	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.106 C.107	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.180 C.181
KTB QLL S2 SLS	1191600000	C.53	MOPL K2 N FE	1905270000	C.101	PEBZ M10 BR SET	1277220000	C.108	PEBZ M10 S4 SET	1283440000	C.182
KTB OLL S2 SLS KTB OLL S2 SLS	1191600000 1191600000	C.54 C.55	MOPL K21 STAHL MOPL K3 BKVARIO SET	3073020000 8000004497	C.102 C.116	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.109 C.110	PEBZ M10 S4 SET PEBZ M10 S4 SET	1283440000 1283440000	C.183 C.185
KTB QLL S2 SLS	1191600000	C.56	MOPL K3 N FE	1898210000	C.103	PEBZ M10 BR SET	1277220000	C.111	PEBZ M10 S4 SET	1283440000	C.186
KTB QLL S2 SLS KTB QLL S2 SLS	1191600000 1191600000	C.57 C.58	MOPL K31 STAHL MOPL K32 STAHL	3073040000 3073050000	C.104 C.105	PEBZ M10 BR SET PEBZ M10 BR SET	1277220000 1277220000	C.112 C.113	PEBZ M10 S4 SET PEBZ M6 BR SET	1283440000 1277250000	C.187 C.99
411 02 010	110100000	6.30	E NOZ OTATIL	007000000	0.100	. LOC WITO DIT OLI	1277220000	0.113	. LDE INIO DII DEI	1277230000	0.00

Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page
PEBZ M6 BR SET	1277250000	C.100	PECD WIRE 6/200/D6 SET	2475490000	C.80	SKMU EMV PG13,5	1718930000	D.44	SP M6 10 S2	0935110000	C.29
PEBZ M6 BR SET	1277250000	C.101	PECD WIRE 6/200/D6 SET	2475490000	C.81	SKMU EMV PG16	1718940000	D.44	SP M6 10 S2	0935110000	C.30
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.102 C.103	POK MOPL 0808 POK MOPL 0808 MINI	9510570000 1534280000	C.132 C.132	SKMU EMV PG21 SKMU EMV PG29	1718950000 1718960000	D.44 D.44	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.31 C.32
PEBZ M6 BR SET	1277250000	C.104	POK MOPL 0811	9510580000	C.133	SKMU EMV PG7	1718900000	D.44	SP M6 10 S2	0935110000	C.33
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.105 C.106	POK MOPL 0811 MINI POK MOPL 0816	1534290000 9510680000	C.133 C.134	SKMU EMV PG9 SKMU M12 - K GR	1718910000 1772440000	D.44 D.40	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.34 C.35
PEBZ M6 BR SET	1277250000	C.106	POK MOPL 0816 MINI	1534310000	C.134	SKMU M12 K SW	1806540000	D.40 D.41	SP M6 10 S2	0935110000	C.36
PEBZ M6 BR SET	1277250000	C.108	POK MOPL 0819	9510690000	C.135	SKMU M12 MS	1772360000	D.42	SP M6 10 S2	0935110000	C.52
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.109 C.110	POK MOPL 0819 MINI POK MOPL 0823 MINI	1534320000 1534330000	C.135 C.136	SKMU M16 - K GR SKMU M16 K SW	1772450000 1736920000	D.40 D.41	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.53 C.54
PEBZ M6 BR SET	1277250000	C.110	POK MOPL 1212	9510590000	C.130	SKMU M16 MS	1736990000	C.44	SP M6 10 S2	0935110000	C.55
PEBZ M6 BR SET	1277250000	C.112	POK MOPL 1212 MINI	1534340000	C.137	SKMU M16 MS	1736990000	C.78	SP M6 10 S2	0935110000	C.56
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.113 C.114	POK MOPL 1222 POK MOPL 1222 MINI	9510600000 1534350000	C.138 C.138	SKMU M16 MS SKMU M16 MS SC	1736990000 0930640001	D.42 D.43	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.57 C.58
PEBZ M6 BR SET	1277250000	C.132	POK MOPL 1616	9510610000	C.139	SKMU M20 - K GR	1772460000	D.40	SP M6 10 S2	0935110000	C.59
PEBZ M6 BR SET	1277250000	C.133	POK MOPL 1616 MINI	1534360000	C.139	SKMU M20 K SW	1736930000	C.79	SP M6 10 S2	0935110000	C.60
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.134 C.135	POK MOPL 1626 POK MOPL 1626 MINI	9510620000 1534370000	C.140 C.140	SKMU M20 K SW SKMU M20 K SW	1736930000 1736930000	C.80 D.41	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.61 C.62
PEBZ M6 BR SET	1277250000	C.136	POK MOPL 1636	9510630000	C.141	SKMU M20 MS	1737000000	C.44	SP M6 15 MSZN	3896100000	C.52
PEBZ M6 BR SET	1277250000	C.137	POK MOPL 1636 MINI	1534380000	C.141	SKMU M20 MS	1737000000	C.45	SP M6 15 MSZN	3896100000	C.53
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.138 C.139	POK MOPL 1656 POK MOPL 1656 MINI	9510710000 1534390000	C.142 C.142	SKMU M20 MS SKMU M20 MS	1737000000 1737000000	C.46 C.47	SP M6 15 MSZN SP M6 15 MSZN	3896100000 3896100000	C.54 C.55
PEBZ M6 BR SET	1277250000	C.140	POK MOPL 2525	9510640000	C.143	SKMU M20 MS	1737000000	C.79	SP M6 15 MSZN	3896100000	C.56
PEBZ M6 BR SET	1277250000	C.141	POK MOPL 2525	9510640000	C.144	SKMU M20 MS	1737000000	C.80	SP M6 15 MSZN	3896100000	C.57
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.142 C.143	POK MOPL 2525 MINI POK MOPL 2525 MINI	1534410000 1534410000	C.143 C.144	SKMU M20 MS SKMU M20 MS SC	1737000000 0930640002	D.42 D.43	SP M6 15 MSZN SP M6 15 MSZN	3896100000 3896100000	C.58 C.59
PEBZ M6 BR SET	1277250000	C.144	POK MOPL 2540	9510650000	C.145	SKMU M25 - K GR	1772470000	D.40	SP M6 15 MSZN	3896100000	C.60
PEBZ M6 BR SET	1277250000	C.145	POK MOPL 2540	9510650000	C.146	SKMU M25 K SW	1736940000	C.81	SP M6 15 MSZN	3896100000	C.61
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.146 C.147	POK MOPL 2540 MINI POK MOPL 2540 MINI	1534420000 1534420000	C.145 C.146	SKMU M25 K SW SKMU M25 MS	1736940000 1737010000	D.41 C.47	SP M6 15 MSZN SP M6 15 S2	3896100000 0935120000	C.62 C.15
PEBZ M6 BR SET	1277250000	C.148	POK MOPL 2560	9510660000	C.147	SKMU M25 MS	1737010000	C.81	SP M6 15 S2	0935120000	C.16
PEBZ M6 BR SET	1277250000	C.170	POK MOPL 2560 MINI	1534430000	C.147	SKMU M25 MS	1737010000	D.42	SP M6 15 S2	0935120000	C.17
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.171 C.172	POK MOPL 4040 POK MOPL 4040 MINI	9510670000 1534440000	C.148 C.148	SKMU M25 MS SC SKMU M32 - K GR	0930640003 1772480000	D.43 D.40	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.18 C.19
PEBZ M6 BR SET	1277250000	C.172	TOK MOLE TO TO MINI	1004440000	0.140	SKMU M32 K SW	1736950000	D.41	SP M6 15 S2	0935120000	C.20
PEBZ M6 BR SET	1277250000	C.174	S			SKMU M32 MS	1737020000	C.45	SP M6 15 S2	0935120000	C.21
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.178 C.179	SD FIXING SET	1285200000	C.15	SKMU M32 MS SKMU M32 MS	1737020000 1737020000	D.42	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.22 C.23
PEBZ M6 BR SET	1277250000	C.180	SD FIXING SET	1285200000	C.16	SKMU M32 MS SC	0930640004	D.43	SP M6 15 S2	0935120000	C.24
PEBZ M6 BR SET	1277250000	C.181	SD FIXING SET	1285200000	C.17	SKMU M40 - K GR	1772490000	D.40	SP M6 15 S2	0935120000	C.25
PEBZ M6 BR SET PEBZ M6 BR SET	1277250000 1277250000	C.182 C.183	SD FIXING SET SD FIXING SET	1285200000 1285200000	C.18 C.19	SKMU M40 K SW SKMU M40 MS	1736960000 1737030000	D.41 C.47	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.26 C.27
PEBZ M6 BR SET	1277250000	C.185	SD FIXING SET	1285200000	C.20	SKMU M40 MS	1737030000	D.42	SP M6 15 S2	0935120000	C.28
PEBZ M6 BR SET	1277250000	C.186	SD FIXING SET	1285200000	C.21	SKMU M40 MS SC	0930640005	D.43	SP M6 15 S2	0935120000	C.29
PEBZ M6 BR SET PEBZ M6 S4 SET	1277250000 1283430000	C.187 C.99	SD FIXING SET SD FIXING SET	1285200000 1285200000	C.22 C.23	SKMU M50 - K GR SKMU M50 K SW	1772500000 1736970000	D.40 D.41	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.30 C.31
PEBZ M6 S4 SET	1283430000	C.100	SD FIXING SET	1285200000	C.24	SKMU M50 MS	1737040000	D.42	SP M6 15 S2	0935120000	C.32
PEBZ M6 S4 SET	1283430000	C.101	SD FIXING SET	1285200000	C.25	SKMU M50 MS SC	0930640006	D.43	SP M6 15 S2	0935120000	C.33
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.102 C.103	SD FIXING SET SD FIXING SET	1285200000 1285200000	C.26 C.27	SKMU M63 - K GR SKMU M63 K SW	1772510000 1736980000	D.40 D.41	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.34 C.35
PEBZ M6 S4 SET	1283430000	C.104	SD FIXING SET	1285200000	C.28	SKMU M63 MS	1737050000	D.42	SP M6 15 S2	0935120000	C.36
PEBZ M6 S4 SET	1283430000	C.105	SD FIXING SET	1285200000	C.29	SKMU M63 MS SC	0930640007	D.43	SP M6 15 S2	0935120000	C.52
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.106 C.107	SD FIXING SET SD FIXING SET	1285200000 1285200000	C.30 C.31	SKMU M75 MS SKMU M75 MS SC	1737060000 0930640008	D.42 D.43	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.53 C.54
PEBZ M6 S4 SET	1283430000	C.108	SD FIXING SET	1285200000	C.32	SKMU PG 13,5-K GR	1697470000	D.40	SP M6 15 S2	0935120000	C.55
PEBZ M6 S4 SET	1283430000	C.109	SD FIXING SET	1285200000	C.33	SKMU PG11-K GR	1697460000	D.40	SP M6 15 S2	0935120000	C.56
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.110 C.111	SD FIXING SET SD FIXING SET	1285200000 1285200000	C.34 C.35	SKMU PG11-K SW SKMU PG11-MS	1719120000 1694090000	D.41 D.42	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.57 C.58
PEBZ M6 S4 SET	1283430000	C.112	SD FIXING SET	1285200000	C.36	SKMU PG13,5-K SW	1719130000	D.41	SP M6 15 S2	0935120000	C.59
PEBZ M6 S4 SET	1283430000 1283430000	C.113	SD TH20	9009160000	C.96	SKMU PG13,5-MS	1694100000	D.42	SP M6 15 S2	0935120000	C.60
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000	C.114 C.132	SD TH20 SD TH20	9009160000	C.97 C.98	SKMU PG16-K GR SKMU PG16-K SW	1697480000 1719140000	D.40 D.41	SP M6 15 S2 SP M6 15 S2	0935120000 0935120000	C.61 C.62
PEBZ M6 S4 SET	1283430000	C.133	SD TH20	9009160000	C.99	SKMU PG16-MS	1694110000	D.42	SP M6 20 MSZN	3896200000	C.52
PEBZ M6 S4 SET	1283430000	C.134	SD TH20	9009160000	C.100	SKMU PG21-K GR	1698220000	D.40	SP M6 20 MSZN	3896200000	C.53
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.135 C.136	SD TH20 SD TH20	9009160000	C.101 C.102	SKMU PG21-K SW SKMU PG21-MS	1719150000 1719200000	D.41 D.42	SP M6 20 MSZN SP M6 20 MSZN	3896200000 3896200000	C.54 C.55
PEBZ M6 S4 SET	1283430000	C.137	SD TH20	9009160000	C.103	SKMU PG29-K GR	1698230000	D.40	SP M6 20 MSZN	3896200000	C.56
PEBZ M6 S4 SET	1283430000	C.138	SD TH20	9009160000	C.104	SKMU PG29-K SW	1719160000	D.41	SP M6 20 MSZN	3896200000	C.57
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.139 C.140	SD TH20 SD TH20	9009160000	C.105 C.106	SKMU PG29-MS SKMU PG36-K GR	1719210000 1698240000	D.42 D.40	SP M6 20 MSZN SP M6 20 MSZN	3896200000 3896200000	C.58 C.59
PEBZ M6 S4 SET	1283430000	C.141	SD TH20	9009160000	C.107	SKMU PG36-K SW	1719170000	D.41	SP M6 20 MSZN	3896200000	C.60
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.142 C.143	SD TH20 SD TH20	9009160000 9009160000	C.108 C.109	SKMU PG36-MS SKMU PG42-K GR	1719220000 1698250000	D.42 D.40	SP M6 20 MSZN SP M6 20 MSZN	3896200000 3896200000	C.61 C.62
PEBZ M6 S4 SET	1283430000	C.143	SD TH20	9009160000	C.110	SKMU PG42-K SW	1719180000	D.40 D.41	SP M6 20 MSZN SP M6 20 S2	0935130000	C.15
PEBZ M6 S4 SET	1283430000	C.145	SD TH20	9009160000	C.111	SKMU PG42-MS	1719230000	D.42	SP M6 20 S2	0935130000	C.16
PEBZ M6 S4 SET	1283430000	C.146 C.147	SD TH20 SD TH20	9009160000	C.112 C.113	SKMU PG48-K GR SKMU PG48-K SW	1719090000 1719190000	D.40 D.41	SP M6 20 S2 SP M6 20 S2	0935130000	C.17
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.147	SD TH20	9009160000	C.113	SKMU PG48-MS	1719240000	D.41	SP M6 20 S2	0935130000 0935130000	C.18 C.19
PEBZ M6 S4 SET	1283430000	C.170	SFNS5 VKMU M5 SW15	0433500000	C.68	SKMU PG7-K GR	1697440000	D.40	SP M6 20 S2	0935130000	C.20
PEBZ M6 S4 SET	1283430000	C.171	SFNS5 VKMU M5 SW15	0433500000	C.69	SKMU PG7-K SW	1719100000	D.41	SP M6 20 S2	0935130000	C.21
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.172 C.173	SFNS5 VKMU M5 SW15 SFNS5 VKMU M5 SW15	0433500000 0433500000	C.70 C.71	SKMU PG7-MS SKMU PG9-K GR	1694070000 1697450000	D.42 D.40	SP M6 20 S2 SP M6 20 S2	0935130000 0935130000	C.22 C.23
PEBZ M6 S4 SET	1283430000	C.174	SFNS5 VKMU M5 SW15	0433500000	C.72	SKMU PG9-K SW	1719110000	D.41	SP M6 20 S2	0935130000	C.24
PEBZ M6 S4 SET	1283430000	C.178	SFNS5 VKMU M5 SW15	0433500000	C.73	SKMU PG9-MS	1694080000	D.42	SP M6 20 S2	0935130000	C.25
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.179 C.180	SFNS5 VKMU M5 SW15 SFNS5 VKMU M5 SW15	0433500000 0433500000	C.74 C.75	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.15 C.16	SP M6 20 S2 SP M6 20 S2	0935130000 0935130000	C.26 C.27
PEBZ M6 S4 SET	1283430000	C.181	SKMU EMV M12	1777610000	D.44	SP M6 10 S2	0935110000	C.17	SP M6 20 S2	0935130000	C.28
PEBZ M6 S4 SET	1283430000	C.182	SKMU EMV M16	1777620000	D.44	SP M6 10 S2	0935110000	C.18	SP M6 20 S2	0935130000	C.29
PEBZ M6 S4 SET PEBZ M6 S4 SET	1283430000 1283430000	C.183 C.185	SKMU EMV M20 SKMU EMV M25	1777630000 1777640000	D.44 D.44	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.19 C.20	SP M6 20 S2 SP M6 20 S2	0935130000 0935130000	C.30 C.31
PEBZ M6 S4 SET	1283430000	C.186	SKMU EMV M32	1777650000	D.44 D.44	SP M6 10 S2	0935110000	C.21	SP M6 20 S2	0935130000	C.32
PEBZ M6 S4 SET	1283430000	C.187	SKMU EMV M40	1777660000	D.44	SP M6 10 S2	0935110000	C.22	SP M6 20 S2	0935130000	C.33
PECD WIRE 6/200/D6 SET PECD WIRE 6/200/D6 SET	2475490000 2475490000	C.44 C.45	SKMU EMV M50 SKMU EMV M63	1777670000 1777680000	D.44 D.44	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.23 C.24	SP M6 20 S2 SP M6 20 S2	0935130000 0935130000	C.34 C.35
PECD WIRE 6/200/D6 SET	2475490000	C.45	SKMU EMV PG 36	1777710000	D.44	SP M6 10 S2	0935110000	C.25	SP M6 20 S2	0935130000	C.36
PECD WIRE 6/200/D6 SET	2475490000	C.47	SKMU EMV PG 42	1777700000	D.44	SP M6 10 S2	0935110000	C.26	SP M6 20 S2	0935130000	C.52
PECD WIRE 6/200/D6 SET PECD WIRE 6/200/D6 SET	2475490000 2475490000	C.78 C.79	SKMU EMV PG 48 SKMU EMV PG11	1777690000 1718920000	D.44 D.44	SP M6 10 S2 SP M6 10 S2	0935110000 0935110000	C.27 C.28	SP M6 20 S2 SP M6 20 S2	0935130000 0935130000	C.53 C.54
		3.70						-:			

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SP M6 20 S2	0935130000	C.55	TBF 60/37/18 7035	9502820000	C.174	TPSDHA KTB 70X70M3 S2 R	1279320000	C.44	TS35X7.5 ST KTB4538 VER	8000006713	C.25
SP M6 20 S2	0935130000	C.56	TBF 60/37/21 TRSP	9502860000	C.174	TPSDHA KTB 70X70M3 S2 R	1279320000	C.44	TS35X7.5 ST KTB4848 HOR	8000006725	C.26
SP M6 20 S2	0935130000	C.57	TBF 60/37/21 TRSP	9502860000	C.174	TPSDHA KTB 70X70M3 S2 R	1279320000	C.46	TS35X7.5 ST KTB4848 HOR	8000006725	C.27
SP M6 20 S2	0935130000	C.58	TBF 60/60/18 7035	9502830000	C.168 C.174	TPSDHA KTB 70X70M3 S2 R	1279320000 8000037603	C.47 C.178	TS35X7.5 ST KTB4848 VER TS35X7.5 ST KTB4848 VER	8000006714	C.26 C.27
SP M6 20 S2 SP M6 20 S2	0935130000 0935130000	C.59 C.60	TBF 60/60/18 7035 TBF 60/60/21 TRSP	9502830000 9502870000	C.174	TS 35x105_MPC_12 TS 35x105_MPC_12	8000037603	C.178	TS35X7.5 ST KTB5535 HOR	8000006714 8000006726	C.27
SP M6 20 S2	0935130000	C.61	TBF 60/60/21 TRSP	9502870000	C.174	TS 35x105_MPC_12	8000037603	C.181	TS35X7.5 ST KTB5535 HOR	8000006726	C.29
SP M6 20 S2 SP M6 30 MSZN	0935130000 3896300000	C.62 C.52	TPSD FIXING SET KTB TPSD FIXING SET KTB	1252190000 1252190000	C.15 C.16	TS15 114 Klippon K21 CSS TS15 114 Klippon K21 CSS	1910020000 1910020000	C.102 C.116	TS35X7.5 ST KTB5535 VER TS35X7.5 ST KTB5535 VER	8000006715 8000006715	C.28 C.29
SP M6 30 MSZN	3896300000	C.52	TPSD FIXING SET KTB	1252190000	C.10	TS15 147 Klippon POK3 CSS	1928080000	C.110	TS35X7.5 ST KTB6245 HOR	8000006727	C.30
SP M6 30 MSZN	3896300000	C.54	TPSD FIXING SET KTB	1252190000	C.18	TS15 147 Klippon POK3 CSS	1928080000	C.154	TS35X7.5 ST KTB6245 HOR	8000006727	C.31
SP M6 30 MSZN SP M6 30 MSZN	3896300000 3896300000	C.55 C.56	TPSD FIXING SET KTB TPSD FIXING SET KTB	1252190000 1252190000	C.19 C.20	TS15 155 Klippon K3 CSS TS15 155 Klippon K3 CSS	1910030000 1910030000	C.103 C.116	TS35X7.5 ST KTB6245 VER TS35X7.5 ST KTB6245 VER	8000006716 8000006716	C.30 C.31
SP M6 30 MSZN	3896300000	C.57	TPSD FIXING SET KTB	1252190000	C.21	TS15 164 Klippon K31 CSS	1910040000	C.110	TS35X7.5 ST KTB7650 HOR	8000006728	C.32
SP M6 30 MSZN	3896300000	C.58	TPSD FIXING SET KTB	1252190000	C.22	TS15 164 Klippon K31 CSS	1910040000	C.116	TS35X7.5 ST KTB7650 HOR	8000006728	C.33
SP M6 30 MSZN SP M6 30 MSZN	3896300000 3896300000	C.59 C.60	TPSD FIXING SET KTB TPSD FIXING SET KTB	1252190000 1252190000	C.23 C.24	TS15 60 KLippon K1 CSS TS15 60 KLippon K1 CSS	1909980000 1909980000	C.99 C.116	TS35X7.5 ST KTB7650 VER TS35X7.5 ST KTB7650 VER	8000006717 8000006717	C.32 C.33
SP M6 30 MSZN	3896300000	C.61	TPSD FIXING SET KTB	1252190000	C.25	TS15 64 Klippon K11	1909990000	C.100	TS35X7.5 ST KTB9161 HOR	8000006729	C.34
SP M6 30 MSZN	3896300000	C.62	TPSD FIXING SET KTB	1252190000	C.26	TS15 64 Klippon K11	1909990000	C.116	TS35X7.5 ST KTB9161 HOR	8000006729	C.35
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.15 C.16	TPSD FIXING SET KTB TPSD FIXING SET KTB	1252190000 1252190000	C.27 C.28	TS15 68 Klippon POK1 CSS TS15 68 Klippon POK1 CSS	1928060000 1928060000	C.150 C.152	TS35X7.5 ST KTB9161 VER TS35X7.5 ST KTB9161 VER	8000006718 8000006718	C.34 C.35
SP M6 30 S2	0935140000	C.17	TPSD FIXING SET KTB	1252190000	C.29	TS15 90 KLippon K2 CSS	1910010000	C.101	TS35X7.5 ST KTB9874 HOR	8000006730	C.36
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.18 C.19	TPSD FIXING SET KTB TPSD FIXING SET KTB	1252190000 1252190000	C.30 C.31	TS15 90 KLippon K2 CSS TS15 98 Klippon POK2 CSS	1910010000 1928070000	C.116 C.150	TS35X7.5 ST KTB9874 VER TS35X7.5 ST MPC1725 HOR	8000006719 8000037601	C.36 C.182
SP M6 30 S2	0935140000	C.20	TPSD FIXING SET KTB	1252190000	C.32	TS15 98 Klippon POK2 CSS	1928070000	C.150	TS35X7.5 ST MPC1725 HOR	8000037601	C.183
SP M6 30 S2	0935140000	C.21	TPSD FIXING SET KTB	1252190000	C.33	TS15X5 ST FPC 20 VER	8000037604	C.185	TS35X7.5 ST MPC1725 VER	8000037600	C.182
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.22 C.23	TPSD FIXING SET KTB TPSD FIXING SET KTB	1252190000 1252190000	C.34 C.35	TS15X5 ST FPC 20 VER TS15X5 ST MPC0712 VER	8000037604 8000037599	C.186 C.178	TS35X7.5 ST MPC1725 VER TS35X7.5 ST POK 1222	8000037600 8000037568	C.183 C.138
SP M6 30 S2	0935140000	C.24	TPSD FIXING SET KTB	1252190000	C.36	TS15X5 ST MPC1217 VER	8000037598	C.178	TS35X7.5 ST POK 1626	8000037308	C.130
SP M6 30 S2	0935140000	C.25	TPSDHA KTB 100X25 S2 2R	1257640000	C.16	TS15X5 ST MPC1217 VER	8000037598	C.179	TS35X7.5 ST POK 1636	8000003910	C.141
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.26 C.27	TPSDHA KTB 100X25 S2 2R TPSDHA KTB 100X25 S2 2R	1257640000 1257640000	C.17 C.18	TS15X5 ST MPC1217 VER TS15X5 ST POK 0808	8000037598 8000003889	C.180 C.132	TS35X7.5 ST POK 1656 TS35X7.5 ST POK 2525	8000003911 8000003912	C.142 C.143
SP M6 30 S2	0935140000	C.28	TPSDHA KTB 100X25 S2 2R	1257640000	C.19	TS15X5 ST POK 0811	8000003890	C.132	TS35X7.5 ST POK 2525	8000003912	C.143
SP M6 30 S2	0935140000	C.29	TPSDHA KTB 100X25 S2 2R	1257640000	C.20	TS15X5 ST POK 0811	8000003890	C.137	TS35X7.5 ST POK 2560	8000003914	C.147
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.30 C.31	TPSDHA KTB 100X25 S2 2R TPSDHA KTB 100X25 S2 2R	1257640000 1257640000	C.21 C.22	TS15X5 ST POK 0816 TS15X5 ST POK 0819	8000003891 8000003892	C.134 C.135	TS35X7.5 ST POK 4040 TS35X7.5 ST POK 4040	8000003913 8000003913	C.145 C.146
SP M6 30 S2	0935140000	C.32	TPSDHA KTB 100X25 S2 2R	1257640000	C.23	TS15X5 ST POK 0823	8000032382	C.136	TS35X7.5 ST POK 4040	8000003913	C.148
SP M6 30 S2	0935140000	C.33	TPSDHA KTB 100X25 S2 2R	1257640000	C.24	TS35 105 Klippon K41/POK4	1910070000	C.107	TS35X7.5 ST STB 1.1 STB 2	8683740000	C.68
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.34 C.35	TPSDHA KTB 100X25 S2 2R TPSDHA KTB 100X25 S2 2R	1257640000 1257640000	C.25 C.26	TS35 105 Klippon K41/POK4 TS35 105 Klippon K41/POK4	1910070000 1910070000	C.116 C.150	TS35X7.5 ST STB 1.1 STB 2 TS35X7.5 ST STB 1.1 STB 2	8683740000 8683740000	C.69 C.70
SP M6 30 S2	0935140000	C.36	TPSDHA KTB 100X25 S2 2R	1257640000	C.27	TS35 105 Klippon K41/POK4	1910070000	C.155	TS35X7.5 ST STB 2.1 STB 3	1567660000	C.71
SP M6 30 S2	0935140000	C.52	TPSDHA KTB 100X25 S2 2R	1257640000	C.28	TS35 64 Klippon K4K11	1910060000	C.106	TS35X7.5 ST STB 2.1 STB 3	1567660000	C.72
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.53 C.54	TPSDHA KTB 100X25 S2 2R TPSDHA KTB 100X25 S2 2R	1257640000 1257640000	C.29 C.30	TS35 64 Klippon K4K11 TS35 MPC 1717 VER	1910060000 8000037605	C.116 C.179	TS35X7.5 ST STB 4 STB 6 TS35X7.5 ST STB 4 STB 6	8563410000 8563410000	C.73 C.74
SP M6 30 S2	0935140000	C.55	TPSDHA KTB 100X25 S2 2R	1257640000	C.31	TS35 MPC 1717 VER	8000037605	C.180	TS35X7.5 ST STB 4 STB 6	8563410000	C.75
SP M6 30 S2	0935140000	C.56 C.57	TPSDHA KTB 100X25 S2 2R TPSDHA KTB 100X25 S2 2R	1257640000 1257640000	C.32 C.33	TS35 MPC 1717 VER	8000037605	C.181 C.110	TS35X7.5 ST STB 5	8803610000	C.73 C.74
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.57	TPSDHA KTB 100X25 S2 2R	1257640000	C.34	TS35/140 Klippon K52 POK51 TS35/140 Klippon K52 POK51	1910100000 1910100000	C.116	TS35X7.5 ST STB 5 TS35X7.5 ST STB 5	8803610000 8803610000	C.74
SP M6 30 S2	0935140000	C.59	TPSDHA KTB 100X25 S2 2R	1257640000	C.35	TS35/140 Klippon K52 POK51	1910100000	C.150			
SP M6 30 S2 SP M6 30 S2	0935140000 0935140000	C.60 C.61	TPSDHA KTB 100X25 S2 2R TPSDHA KTB 100X25 S2 2R	1257640000 1257640000	C.36 C.45	TS35/140 Klippon K52 POK51 TS35/148 KLIPPON K5 CSS	1910100000 1910080000	C.156 C.108	V		
SP M6 30 S2	0935140000	C.62	TPSDHA KTB 100X25 S2 2R	1257640000	C.46	TS35/148 KLIPPON K5 CSS	1910080000	C.116	VG 11-K68	1568990000	D.6
STB 1 EXIA	8000028394	C.76	TPSDHA KTB 100X25 S2 2R	1257640000	C.47	TS35/172 KLIPPON K6 CSS	1910110000	C.111	VG 11-K68 SKS	1720490000	D.7
STB 1 EXIA STB 2 Exe	8000028394 8000028395	C.78 C.76	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.16 C.17	TS35/203 KLIPPON K51POK5 TS35/243 KLIPPON K61POK6	1910090000 1910120000	C.109 C.112	VG 11-MS68 VG 11-SS 68 KB 5-10	1569080000 1009760000	D.8 D.13
STB 2 Exe	8000028395	C.79	TPSDHA KTB 130X50 S2 R	1283450000	C.18	TS35/260 KLIPPON K71 CSS	1910140000	C.114	VG 13,5-MS68	1569090000	D.8
STB 3 Exe	8000028396	C.76	TPSDHA KTB 130X50 S2 R	1283450000	C.19	TS35/324 KLIPPON K7 CSS	1910130000	C.113	VG 13.5-K68	1569000000	D.6
STB 3 Exe STB 4 Exe	8000028396 8000028397	C.80 C.76	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.20 C.21	TS35X7.5 ST FPC 20 HOR TS35X7.5 ST FPC 20 VER	8000037557 8000037558	C.185 C.185	VG 13.5-K68 SKS VG 16-K68	1720500000 1569010000	D.7 D.6
STB 4 Exe	8000028397	C.81	TPSDHA KTB 130X50 S2 R	1283450000	C.22	TS35X7.5 ST FPC 20 VER	8000037558	C.186	VG 16-K68 SKS	1720510000	D.7
SZS M16 SZS M20	1736300000 1736310000	D.52 D.52	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.23 C.24	TS35X7.5 ST FPC 30 HOR TS35X7.5 ST FPC 30 VER	8000037559 8000037561	C.185 C.187	VG 16-MS68 VG 16-SS 68 KB 10-14	1569100000 1009780000	D.8 D.13
SZS M25	1736320000	D.52	TPSDHA KTB 130X50 S2 R	1283450000	C.25	TS35X7.5 ST FPC 40 HOR	8000037560	C.186	VG 21-K68	1569020000	D.13
SZS M32	1736330000	D.52	TPSDHA KTB 130X50 S2 R	1283450000	C.26	TS35X7.5 ST FPC 40 HOR	8000037560	C.187	VG 21-K68 SKS	1720520000	D.7
SZS M40 SZS M50	1736340000 1736350000	D.52 D.52	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.27 C.28	TS35X7.5 ST FPC 40 VER TS35X7.5 ST FPC 60 HOR	8000037562 8000037563	C.187 C.187	VG 21-MS68 VG 21-SS 68 KB 13-18	1569110000 1009790000	D.8 D.13
SZS M63	1736360000	D.52	TPSDHA KTB 130X50 S2 R	1283450000	C.29	TS35X7.5 ST K52	8000003908	C.139	VG 29-K68	1569030000	D.6
_			TPSDHA KTB 130X50 S2 R	1283450000	C.30	TS35X7.5 ST KEBI 30 VER	8000037556	C.52	VG 29-MS68	1569120000	D.8
1			TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.31 C.32	TS35X7.5 ST KEBI 30 VER TS35X7.5 ST KEBI 30 VER	8000037556 8000037556	C.53 C.54	VG 29-SS 68 KB 18-25 VG 36-K68	1009800000 1569040000	D.13 D.6
TBF 19/15/14 7035	0360100000	C.168	TPSDHA KTB 130X50 S2 R	1283450000	C.33	TS35X7.5 ST KEBI 40 VER	8000037555	C.55	VG 36-MS68	1569130000	D.8
TBF 19/15/14 7035 TBF 19/15/14 TRSP	0360100000 0500500000	C.170 C.168	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000	C.34	TS35X7.5 ST KEBI 40 VER TS35X7.5 ST KEBI 40 VER	8000037555	C.56	VG 36-SS 68 KB 22-32 VG 42-K68	1009810000 1569050000	D.13 D.6
TBF 19/15/14 TRSP	0500500000	C.100	TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.35 C.36	TS35X7.5 ST KEBI 50 VER	8000037555 8000037554	C.57 C.58	VG 42-MS68	1569140000	D.8
TBF 30/19/18 7035	0360200000	C.168	TPSDHA KTB 130X50 S2 R	1283450000	C.45	TS35X7.5 ST KEBI 50 VER	8000037554	C.59	VG 48-K68	1718770000	D.6
TBF 30/19/18 7035 TBF 30/19/18 TRSP	0360200000 0500600000	C.170 C.168	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	1283450000 1283450000	C.46 C.47	TS35X7.5 ST KEBI 60 VER TS35X7.5 ST KEBI 60 VER	8000037553 8000037553	C.60 C.61	VG 48-MS68 VG 7-K68	1718790000 1568970000	D.8 D.6
TBF 30/19/18 TRSP	0500600000	C.170	TPSDHA KTB 70X70M3 S2 R	1279320000	C.15	TS35X7.5 ST KEBI 80 VER	8000037552	C.62	VG 7-K68 SKS	1720470000	D.7
TBF 30/30/18 7035	0360300000	C.168	TPSDHA KTB 70X70M3 S2 R	1279320000	C.16	TS35X7.5 ST KTB2215 HOR	8000006720	C.15	VG 7-MS68	1569060000	D.8
TBF 30/30/18 7035 TBF 30/30/18 TRSP	0360300000 0500700000	C.171 C.168	TPSDHA KTB 70X70M3 S2 R TPSDHA KTB 70X70M3 S2 R	1279320000 1279320000	C.17 C.18	TS35X7.5 ST KTB2215 VER TS35X7.5 ST KTB2626 VER	8000006708 8000006709	C.15 C.16	VG 7-SS 68 KB 3-6.5 VG 9-K68	1009740000 1568980000	D.13 D.6
TBF 30/30/18 TRSP	0500700000	C.171	TPSDHA KTB 70X70M3 S2 R	1279320000	C.19	TS35X7.5 ST KTB2626 VER	8000006709	C.17	VG 9-K68 SKS	1720480000	D.7
TBF 37/30/18 7035	0360400000	C.168	TPSDHA KTB 70X70M3 S2 R	1279320000	C.20	TS35X7.5 ST KTB3030 HOR	8000006722	C.18	VG 9-MS68	1569070000	D.8
TBF 37/30/18 7035 TBF 37/30/18 TRSP	0360400000 0500800000	C.171 C.168	TPSDHA KTB 70X70M3 S2 R TPSDHA KTB 70X70M3 S2 R	1279320000 1279320000	C.21 C.22	TS35X7.5 ST KTB3030 HOR TS35X7.5 ST KTB3030 VER	8000006722 8000006710	C.19 C.18	VG 9-SS 68 KB 4-8 VG H M20 MS	1009750000 1921720000	D.13 D.10
TBF 37/30/18 TRSP	0500800000	C.171	TPSDHA KTB 70X70M3 S2 R	1279320000	C.23	TS35X7.5 ST KTB3030 VER	8000006710	C.19	VG H M25 MS	1921740000	D.10
TBF 49/30/18 7035	9502800000	C.168	TPSDHA KTB 70X70M3 S2 R	1279320000	C.24	TS35X7.5 ST KTB3526 HOR	8000006721	C.16	VG H M32 MS	1921760000	D.10
TBF 49/30/18 7035 TBF 49/30/21 TRSP	9502800000 9502840000	C.172 C.168	TPSDHA KTB 70X70M3 S2 R TPSDHA KTB 70X70M3 S2 R	1279320000 1279320000	C.25 C.26	TS35X7.5 ST KTB3526 HOR TS35X7.5 ST KTB3526 HOR	8000006721 8000006721	C.17 C.20	VG H M40 MS VG M12 - MS 68	1921770000 1772200000	D.10 D.8
TBF 49/30/21 TRSP	9502840000	C.172	TPSDHA KTB 70X70M3 S2 R	1279320000	C.27	TS35X7.5 ST KTB3526 HOR	8000006721	C.21	VG M12 EMV-4 MS 3-6.5	2435070000	D.11
TBF 56/30/18 7035	9502810000	C.168 C.172	TPSDHA KTB 70X70M3 S2 R	1279320000	C.28	TS35X7.5 ST KTB3526 VER	8000006711	C.20	VG M12 EXE 4-6,5 CR7J G4	2721930000	D.38 D.39
TBF 56/30/18 7035 TBF 56/30/21 TRSP	9502810000 9502850000	C.172	TPSDHA KTB 70X70M3 S2 R TPSDHA KTB 70X70M3 S2 R	1279320000 1279320000	C.29 C.30	TS35X7.5 ST KTB3526 VER TS35X7.5 ST KTB4030 HOR	8000006711 8000006723	C.21 C.22	VG M12 EXE 4-6,5 SI7J G4 VG M12 EXI 4-6,5 CR7J G4	2722070000 2722210000	D.39 D.38
TBF 56/30/21 TRSP	9502850000	C.172	TPSDHA KTB 70X70M3 S2 R	1279320000	C.31	TS35X7.5 ST KTB4030 HOR	8000006723	C.23	VG M12 EXI 4-6,5 SI7J G4	2722350000	D.39
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TBF 60/30/21 TRSP	0500900000	C.173	TPSDHA KTB 70X70M3 S2 R	1279320000	C.35	TS35X7.5 ST KTB4538 HOR	8000006724	C.25	VG M16 - MS 68	1772210000	D.8
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0342500000	KLIPPON K6	C.94	0642600000	FKSC M6X8 D9/SW3	C.44	0935110000	SP M6 10 S2	C.31	0935140000	SP M6 30 S2
0342500000	KLIPPON K6	C.111	0642600000	FKSC M6X8 D9/SW3	C.45	0935110000	SP M6 10 S2	C.32	0935140000	SP M6 30 S2
0342600000	KLIPPON K7	C.94	0642600000	FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	C.46	0935110000	SP M6 10 S2	C.33	0935140000	SP M6 30 S2
0342600000	KLIPPON K7	C.113	0642600000 0642600000	FKSC M6X8 D9/SW3	C.47 C.132	0935110000 0935110000	SP M6 10 S2 SP M6 10 S2	C.34 C.35	0935140000 0935140000	SP M6 30 S2 SP M6 30 S2
กวรกก	00000		0642600000	FKSC M6X8 D9/SW3	C.133	0935110000	SP M6 10 S2	C.36	0935140000	SP M6 30 S2
			0642600000	FKSC M6X8 D9/SW3	C.134	0935110000	SP M6 10 S2	C.52	0935140000	SP M6 30 S2
0360100000	TBF 19/15/14 7035	C.168	0642600000 0642600000	FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	C.135 C.136	0935110000 0935110000	SP M6 10 S2 SP M6 10 S2	C.53 C.54	0935140000 0935140000	SP M6 30 S2 SP M6 30 S2
0360100000 0360200000	TBF 19/15/14 7035 TBF 30/19/18 7035	C.170 C.168	0642600000	FKSC M6X8 D9/SW3	C.130	0935110000	SP M6 10 S2	C.54	0935140000	SP M6 30 S2
0360200000	TBF 30/19/18 7035	C.170	0642600000	FKSC M6X8 D9/SW3	C.138	0935110000	SP M6 10 S2	C.56	0935140000	SP M6 30 S2
0360300000	TBF 30/30/18 7035	C.168	0642600000	FKSC M6X8 D9/SW3	C.139	0935110000	SP M6 10 S2	C.57	0935140000	SP M6 30 S2
0360300000	TBF 30/30/18 7035	C.171	0642600000 0642600000	FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	C.140 C.141	0935110000 0935110000	SP M6 10 S2 SP M6 10 S2	C.58 C.59	0935140000 0935140000	SP M6 30 S2 SP M6 30 S2
0360400000 0360400000	TBF 37/30/18 7035 TBF 37/30/18 7035	C.168 C.171	0642600000	FKSC M6X8 D9/SW3	C.141	0935110000	SP M6 10 S2	C.60	0935140000	SP M6 30 S2
0360500000	TBF 60/30/18 7035	C.168	0642600000	FKSC M6X8 D9/SW3	C.143	0935110000	SP M6 10 S2	C.61	0935140000	SP M6 30 S2
0360500000	TBF 60/30/18 7035	C.173	0642600000	FKSC M6X8 D9/SW3	C.144	0935110000	SP M6 10 S2	C.62	0935140000	SP M6 30 S2
0360800000	MFTBF	C.170	0642600000 0642600000	FKSC M6X8 D9/SW3 FKSC M6X8 D9/SW3	C.145 C.146	0935120000 0935120000	SP M6 15 S2 SP M6 15 S2	C.15 C.16	40000	00000
0360800000	MFTBF MFTBF	C.171 C.172	0642600000	FKSC M6X8 D9/SW3	C.140	0935120000	SP M6 15 S2	C.10	10000	00000
0360800000	MFTBF	C.173	0642600000	FKSC M6X8 D9/SW3	C.148	0935120000	SP M6 15 S2	C.18	1002690000	KLIPPON STB 1 SS
0360800000	MFTBF	C.174				0935120000	SP M6 15 S2	C.19	1002690000	KLIPPON STB 1 SS
0.4000	00000		08900	00000		0935120000 0935120000	SP M6 15 S2 SP M6 15 S2	C.20 C.21	1002690000	KLIPPON STB 1 SS KLIPPON STB 5 SS
U43UU	100000		0899750000	KSWF M20	D.48	0935120000	SP M6 15 S2	C.22	1002700000	KLIPPON STB 5 SS
0433500000	SFNS5 VKMU M5 SW15	C.68	0899770000	KSWF M25	D.48	0935120000	SP M6 15 S2	C.23	1002710000	KLIPPON STB 4 SS
0433500000	SFNS5 VKMU M5 SW15	C.69	0899780000	KSWN M40	D.47	0935120000	SP M6 15 S2	C.24	1002710000	KLIPPON STB 4 SS
0433500000	SFNS5 VKMU M5 SW15 SFNS5 VKMU M5 SW15	C.70 C.71	00000	00000		0935120000 0935120000	SP M6 15 S2 SP M6 15 S2	C.25 C.26	1002710000	KLIPPON STB 4 SS KLIPPON STB 3 SS
0433500000	SFNS5 VKMU M5 SW15	C.71	UUUUU	00000		0935120000	SP M6 15 S2	C.27	1002720000	KLIPPON STB 3 SS
0433500000	SFNS5 VKMU M5 SW15	C.73	0900660000	KSWN M50	D.47	0935120000	SP M6 15 S2	C.28	1002720000	KLIPPON STB 3 SS
0433500000	SFNS5 VKMU M5 SW15	C.74	00000	00000		0935120000 0935120000	SP M6 15 S2	C.29	1002730000 1002730000	KLIPPON STB 2.1 SS
0433500000	SFNS5 VKMU M5 SW15	C.75	09300	00000		0935120000	SP M6 15 S2 SP M6 15 S2	C.30 C.31	1002740000	KLIPPON STB 2.1 SS KLIPPON STB 2 SS
UEUUU	00000		0930001221	KDSU M20 BS 0 NI 1 G16	D.26	0935120000	SP M6 15 S2	C.32	1002740000	KLIPPON STB 2 SS
			0930001221	KDSU M20 BS 0 NI 1 G16	D.28	0935120000	SP M6 15 S2	C.33	1002740000	KLIPPON STB 2 SS
0500500000 0500500000	TBF 19/15/14 TRSP	C.168	0930001222 0930001222	KDSU M20 BS 0 NI 2 G16 KDSU M20 BS 0 NI 2 G16	D.26 D.28	0935120000 0935120000	SP M6 15 S2 SP M6 15 S2	C.34 C.35	1002750000	KLIPPON STB 1.1 SS KLIPPON STB 1.1 SS
0500600000	TBF 19/15/14 TRSP TBF 30/19/18 TRSP	C.170 C.168	0930001222	KDSU M20 BS 0 NI 1 G20S	D.26	0935120000	SP M6 15 S2	C.36	1002750000	KLIPPON STB 6 SS
0500600000	TBF 30/19/18 TRSP	C.170	0930011223	KDSU M20 BS 0 NI 1 G20S	D.28	0935120000	SP M6 15 S2	C.52	1002760000	KLIPPON STB 6 SS
0500700000	TBF 30/30/18 TRSP	C.168	0930011224	KDSU M20 BS 0 NI 2 G20S	D.26	0935120000	SP M6 15 S2	C.53	1009740000	VG 7-SS 68 KB 3-6.5
0500700000 0500800000	TBF 30/30/18 TRSP TBF 37/30/18 TRSP	C.171 C.168	0930011224 0930021221	KDSU M20 BS 0 NI 2 G20S KDSU M20 BS 0 NI 1 G20	D.28 D.26	0935120000 0935120000	SP M6 15 S2 SP M6 15 S2	C.54 C.55	1009750000 1009760000	VG 9-SS 68 KB 4-8 VG 11-SS 68 KB 5-10
0500800000	TBF 37/30/18 TRSP	C.171	0930021221	KDSU M20 BS 0 NI 1 G20	D.28	0935120000	SP M6 15 S2	C.56	1009780000	VG 16-SS 68 KB 10-14
0500900000	TBF 60/30/21 TRSP	C.168	0930021222	KDSU M20 BS 0 NI 2 G20	D.28	0935120000	SP M6 15 S2	C.57	1009790000	VG 21-SS 68 KB 13-18
0500900000	TBF 60/30/21 TRSP	C.173	0930031221	KDSU M25 BS 0 NI 1 G25	D.28	0935120000	SP M6 15 S2	C.58	1009800000	VG 29-SS 68 KB 18-25
0501100000 0501160000	VP 29-MS65 VP 29-K54	D.54 D.53	0930031222 0930041221	KDSU M25 BS 0 NI 2 G25 KDSU M32 BS 0 NI 1 G32	D.28 D.28	0935120000 0935120000	SP M6 15 S2 SP M6 15 S2	C.59 C.60	1009810000	VG 36-SS 68 KB 22-32 VGM12-SS 68 KB 3-6.5
0501200000	VP 36-MS65	D.53	0930041222	KDSU M32 BS 0 NI 2 G32	D.28	0935120000	SP M6 15 S2	C.61	1009850000	VGM16-SS 68 KB 4-8
0501260000	VP 36-K54	D.53	0930051222	KDSU M40 BS 0 NI 2 G40	D.28	0935120000	SP M6 15 S2	C.62	1009860000	VGM20-SS 68 KB 6-12
0501300000	VP 42-MS65	D.54	0930061224	KDSU M50 BS 0 NI 2 G50S	D.28	0935130000	SP M6 20 S2	C.15	1009870000	VGM25-SS 68 KB 10-14
0501360000	VP 42-K54	D.53	0930091222 0930481222	KDSU M63 BS 0 NI 2 G63 KSG M20 BS 0 NI 2 G16	D.28 D.34	0935130000 0935130000	SP M6 20 S2 SP M6 20 S2	C.16 C.17	1009880000	VGM32-SS 68 KB 13-18 VGM40-SS 68 KB 18-25
UESON	חחחחח		0930491224	KSG M20 BS 0 NI 2 G20S	D.34	0935130000	SP M6 20 S2	C.17	1009900000	VGM50-SS 68 KB 22-32
	00000		0930501222	KSG M20 BS 0 NI 2 G20	D.34	0935130000	SP M6 20 S2	C.19	1009910000	VGM63-SS 68 KB 34-44
0521600000	VP 7-MS65	D.54	0930511222	KSG M25 BS 0 NI 2 G25	D.34	0935130000	SP M6 20 S2	C.20	46455	00000
05700	00000		0930521222 0930531222	KSG M32 BS 0 NI 2 G32 KSG M40 BS 0 NI 2 G40	D.34 D.34	0935130000 0935130000	SP M6 20 S2 SP M6 20 S2	C.21 C.22	10100	00000
U5/UU	100000		0930640001	SKMU M16 MS SC	D.34 D.43	0935130000	SP M6 20 S2	C.23	1010100000	WPE 4
0573200000	KLIPPON KO	C.94	0930640002	SKMU M20 MS SC	D.43	0935130000	SP M6 20 S2	C.24	1010100000	WPE 4
0573200000	KLIPPON KO	C.96	0930640003	SKMU M25 MS SC	D.43	0935130000	SP M6 20 S2	C.25	1010100000	WPE 4
0573300000 0573300000	KLIPPON K11 KLIPPON K11	C.94 C.100	0930640004 0930640005	SKMU M32 MS SC SKMU M40 MS SC	D.43 D.43	0935130000 0935130000	SP M6 20 S2 SP M6 20 S2	C.26 C.27	1010100000	WPE 4
0573300000	KLIPPON K11	C.100	0930640006	SKMU M50 MS SC	D.43	0935130000	SP M6 20 S2	C.28	10200	00000
0573400000	KLIPPON K21	C.94	0930640007	SKMU M63 MS SC	D.43	0935130000	SP M6 20 S2	C.29		
0573400000	KLIPPON K21	C.102	0930640008	SKMU M75 MS SC	D.43	0935130000	SP M6 20 S2	C.30	1020100000	WDU 4
0573400000	KLIPPON K21	C.116	0930700001	KSP L24 S	D.50	0935130000	SP M6 20 S2	C.31	1020100000	WDU 4

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SP M6 20 S2 SP M6 20 S2

SP M6 20 S2

D.50 D.50

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KLIPPON K21 KLIPPON K31

KLIPPON K31

C.94 C.102 C.116 C.94

C.104

0930700001 0930700002 0930700003

KSP L30 S

KSP L38 S

Order No.	Туре	Page	Order No.	Туре	Page	Order No.	Туре	Page	Order No.	Туре
1020100000	WDU 4	C.81	1076710000	KSWF M40	D.48	1191600000	KTB QLL S2 SLS	C.54	1194580000	KTB MH 221513 S4E3
1020180000	WDU 4 BL	C.44	1076720000	KSWF M50	D.48	1191600000	KTB QLL S2 SLS	C.55	1194590000	KTB MH 221513 S4E4
1020180000	WDU 4 BL	C.45	1076730000	KSWF M63	D.48	1191600000	KTB QLL S2 SLS	C.56	1194590000	KTB MH 221513 S4E4
1020180000	WDU 4 BL	C.78	1076740000	KSWF M75	D.48	1191600000	KTB QLL S2 SLS	C.57	1194600000	KTB MH 262615 S4E0
1024970000	KLIPPON STB 1 MS HT	C.66	1076750000	KSP EL46	D.51	1191600000	KTB QLL S2 SLS	C.58	1194600000	KTB MH 262615 S4E0
1024970000	KLIPPON STB 1 MS HT	C.68	1076760000	KSP EL55	D.51	1191600000	KTB QLL S2 SLS	C.59	1194610000	KTB MH 262615 S4E1
1024980000	KLIPPON STB 1.1 MS HT	C.66	1076770000	KSP EL65	D.51	1191600000	KTB QLL S2 SLS	C.60	1194610000	KTB MH 262615 S4E1
024980000	KLIPPON STB 1.1 MS HT	C.69	1076780000	KSP EL80	D.51	1191600000	KTB QLL S2 SLS	C.61	1194610000	KTB MH 262615 S4E1
024990000	KLIPPON STB 2 MS HT	C.66	1076790000	KSP EL90	D.51	1191600000	KTB QLL S2 SLS	C.62	1194620000	KTB MH 262615 S4E2
024990000	KLIPPON STB 2 MS HT KLIPPON STB 2.1 MS HT	C.70	40000	00000		1192690000	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	C.15	1194620000	KTB MH 262615 S4E2 KTB MH 262615 S4E3
025010000	KLIPPON STB 2.1 MS HT	C.66 C.71	10800	00000		1192690000 1192690000	PEBZ M10 KTB S4 SET	C.16 C.17	1194630000 1194630000	KTB MH 262615 S4E3
025020000	KLIPPON STB 3 MS HT	C.66	1083280000	KDSU M20 BN 0 NI 1 G16	D.27	1192690000	PEBZ M10 KTB S4 SET	C.17	1194640000	KTB MH 262615 S4E4
1025020000	KLIPPON STB 3 MS HT	C.72	1083290000	KDSU M20 BN 0 NI 1 G20S	D.27	1192690000	PEBZ M10 KTB S4 SET	C.19	1194640000	KTB MH 262615 S4E4
025030000	KLIPPON STB 4 MS HT	C.66	1083320000	KDSU M20 BN 0 NI 1 G20	D.27	1192690000	PEBZ M10 KTB S4 SET	C.20	1194650000	KTB MH 262620 S4E0
025030000	KLIPPON STB 4 MS HT	C.73	1083330000	KDSU M25 BN 0 NI 1 G25	D.27	1192690000	PEBZ M10 KTB S4 SET	C.21	1194650000	KTB MH 262620 S4E0
1025040000	KLIPPON STB 5 MS HT	C.66	1083340000	KDSU M32 BN 0 NI 1 G32	D.27	1192690000	PEBZ M10 KTB S4 SET	C.22	1194660000	KTB MH 262620 S4E1
1025040000	KLIPPON STB 5 MS HT	C.74	1083350000	KDSU M40 BN 0 NI 1 G40	D.27	1192690000	PEBZ M10 KTB S4 SET	C.23	1194660000	KTB MH 262620 S4E1
1025050000	KLIPPON STB 6 MS HT	C.66	1083360000	KDSU M50 BN 0 NI 1 G50S	D.27	1192690000	PEBZ M10 KTB S4 SET	C.24	1194670000	KTB MH 262620 S4E2
025050000	KLIPPON STB 6 MS HT	C.75	1083370000	KDSU M50 BN 0 NI 1 G50	D.27	1192690000	PEBZ M10 KTB S4 SET	C.25	1194670000	KTB MH 262620 S4E2
			1083380000	KDSU M63 BN 0 NI 1 G63S	D.27	1192690000	PEBZ M10 KTB S4 SET	C.26	1194680000	KTB MH 262620 S4E3
10500	00000		1083390000	KDSU M63 BN 0 NI 1 G63	D.27	1192690000	PEBZ M10 KTB S4 SET	C.27	1194680000	KTB MH 262620 S4E3
	00000		1083400000	KDSU M75 BN 0 NI 1 G75S	D.27	1192690000	PEBZ M10 KTB S4 SET	C.28	1194690000	KTB MH 262620 S4E4
1058810000	KLIPPON STB 1 SS E	C.66	1083410000	KDSU M75 BN 0 NI 2 G75S	D.27	1192690000	PEBZ M10 KTB S4 SET	C.29	1194690000	KTB MH 262620 S4E4
1058810000	KLIPPON STB 1 SS E	C.68	1083420000	KDSU M75 BN 0 NI 1 G75	D.27	1192690000	PEBZ M10 KTB S4 SET	C.30	1194700000	KTB MH 303015 S4E0
058820000	KLIPPON STB 1.1 SS E	C.66	1083430000	KDSU M75 BN 0 NI 2 G75	D.27	1192690000	PEBZ M10 KTB S4 SET	C.31	1194700000	KTB MH 303015 S4E0
1058820000	KLIPPON STB 1.1 SS E	C.69				1192690000	PEBZ M10 KTB S4 SET	C.32	1194710000	KTB MH 303015 S4E1
058830000	KLIPPON STB 2 SS E	C.66	11300	00000		1192690000	PEBZ M10 KTB S4 SET	C.33	1194710000	KTB MH 303015 S4E1
058830000	KLIPPON STB 2 SS E	C.70				1192690000	PEBZ M10 KTB S4 SET	C.34	1194720000	KTB MH 303015 S4E2
058840000	KLIPPON STB 2.1 SS E	C.66	1135910000	KDSX M20 BS 0 NI 1 G16	D.32	1192690000	PEBZ M10 KTB S4 SET	C.35	1194720000	KTB MH 303015 S4E2
058840000	KLIPPON STB 2.1 SS E	C.71	1135920000	KDSX M20 BS 0 NI 2 G16	D.32	1192690000	PEBZ M10 KTB S4 SET	C.36	1194730000	KTB MH 303015 S4E3
1058850000 1058850000	KLIPPON STB 3 SS E KLIPPON STB 3 SS E	C.66 C.72	1135930000 1135940000	KDSX M20 BS 0 NI 1 G20S KDSX M20 BS 0 NI 2 G20S	D.32 D.32	1192690000	PEBZ M10 KTB S4 SET PEBZ M10 KTB S4 SET	C.44 C.45	1194730000 1194740000	KTB MH 303015 S4E3 KTB MH 303015 S4E4
1058860000	KLIPPON STB 4 SS E	C.66	1135950000	KDSX M20 BS 0 NI 1 G20	D.32	1192690000 1192690000	PEBZ M10 KTB S4 SET	C.46	1194740000	KTB MH 303015 S4E4
1058860000	KLIPPON STB 4 SS E	C.73	1135960000	KDSX M20 BS 0 NI 2 G20	D.32	1192690000	PEBZ M10 KTB S4 SET	C.47	1194750000	KTB MH 303020 S4E0
1058870000	KLIPPON STB 6 SS E	C.66	1135970000	KDSX M25 BS 0 NI 1 G25	D.32	1192790000	KSP L114 S	D.50	1194750000	KTB MH 303020 S4E0
1058870000	KLIPPON STB 6 SS E	C.75	1135980000	KDSX M25 BS 0 NI 2 G25	D.32	1193570000	VGM25-SS68 11-20 BG	D.14	1194760000	KTB MH 303020 S4E1
058880000	KLIPPON STB 5 SS E	C.66	1135990000	KDSX M32 BS 0 NI 1 G32	D.32	1193580000	VGM32-SS68 15-25 BG	D.14	1194760000	KTB MH 303020 S4E1
058880000	KLIPPON STB 5 SS E	C.74	1136000000	KDSX M32 BS 0 NI 2 G32	D.32	1193590000	VGM40-SS68 20-32 BG	D.14	1194770000	KTB MH 303020 S4E2
			1136010000	KDSX M40 BS 0 NI 1 G40	D.32	1193600000	VGM25-MS68 11-20 BG	D.9	1194770000	KTB MH 303020 S4E2
10700	00000		1136020000	KDSX M40 BS 0 NI 2 G40	D.32	1193610000	VGM32-MS68 15-25 BG	D.9	1194780000	KTB MH 303020 S4E3
10/00	00000		1136030000	KDSX M50 BS 0 NI 1 G50S	D.32	1193620000	VGM40-MS68 20-32 BG	D.9	1194780000	KTB MH 303020 S4E3
1074660000	KDSW M20 BN L NI 1 G16	D.31	1136040000	KDSX M50 BS 0 NI 2 G50S	D.32	1193810000	KTB MOPL 2215 S2N	C.15	1194790000	KTB MH 303020 S4E4
074690000	KDSW M20 BN L NI 2 G16	D.31	1136050000	KDSX M50 BS 0 NI 1 G50	D.32	1193810000	KTB MOPL 2215 S2N	C.44	1194790000	KTB MH 303020 S4E4
074720000	KDSW M20 BN L NI 1 G20S	D.31	1136060000	KDSX M50 BS 0 NI 2 G50	D.32	1193820000	KTB MOPL 2626 S2N	C.16	1194800000	KTB MH 352615 S4E0
1074740000	KDSW M20 BN L NI 2 G20S	D.31	1136070000	KDSX M63 BS 0 NI 1 G63S	D.32	1193820000	KTB MOPL 2626 S2N	C.17	1194800000	KTB MH 352615 S4E0
1074760000	KDSW M20 BN L NI 1 G20	D.31	1136080000	KDSX M63 BS 0 NI 2 G63S	D.32	1193820000	KTB MOPL 2626 S2N	C.45	1194810000	KTB MH 352615 S4E1
1074780000	KDSW M20 BN L NI 2 G20	D.31	1136090000	KDSX M63 BS 0 NI 1 G63	D.32	1193830000	KTB MOPL 3030 S2N	C.18	1194810000	KTB MH 352615 S4E1
074810000	KDSW M25 BN L NI 1 G25	D.31	1136110000	KDSX M63 BS 0 NI 2 G63	D.32	1193830000	KTB MOPL 3030 S2N	C.19	1194820000	KTB MH 352615 S4E2
074830000	KDSW M25 BN L NI 2 G25	D.31	1136120000	KDSX M75 BS 0 NI 1 G75S	D.32	1193830000	KTB MOPL 3030 S2N	C.46	1194820000	KTB MH 352615 S4E2
074850000	KDSW M32 BN L NI 1 G32	D.31	1136130000	KDSX M75 BS 0 NI 2 G75S	D.32	1193840000	KTB MOPL 3526 S2N	C.20	1194830000	KTB MH 352615 S4E3
074860000	KDSW M32 BN L NI 2 G32	D.31	1136140000	KDSX M75 BS 0 NI 1 G75	D.32	1193840000	KTB MOPL 3526 S2N	C.21	1194830000	KTB MH 352615 S4E3
074870000	KDSW M40 BN L NI 1 G40	D.31	1136150000	KDSX M75 BS 0 NI 2 G75	D.32	1193850000	KTB MOPL 4030 S2N	C.22	1194840000	KTB MH 352615 S4E4
074880000	KDSW M40 BN L NI 2 G40	D.31	1136410000	KDSW M20 BS 0 NI 1 G16	D.30	1193850000	KTB MOPL 4030 S2N	C.23	1194840000	KTB MH 352615 S4E4
1074890000	KDSW M50 BN L NI 1 G50S	D.31	1136420000	KDSW M20 BS 0 NI 2 G16	D.30	1193860000	KTB MOPL 4538 S2N	C.24	1194850000	KTB MH 352620 S4E0
074910000	KDSW M50 BN L NI 2 G50S	D.31	1136430000	KDSW M20 BS 0 NI 1 G20S	D.30	1193860000	KTB MOPL 4538 S2N	C.25	1194850000	KTB MH 352620 S4E0
074920000	KDSW M50 BN L NI 1 G50	D.31 D.31	1136440000	KDSW M20 BS 0 NI 2 G20S	D.30 D.30	1193870000	KTB MOPL 4848 S2N	C.26 C.27	1194860000	KTB MH 352620 S4E1
074930000	KDSW M50 BN L NI 2 G50	D.31	1136450000	KDSW M20 BS 0 NI 1 G20	D.30	1193870000	KTB MOPL 4848 S2N	C.47	1194860000	KTB MH 352620 S4E1
074940000	KDSW M63 BN L NI 1 G63S	D.31	1136460000	KDSW M20 BS 0 NI 2 G20	D.3U	1193870000	KTB MOPL 4848 S2N	C 20	1194870000	KTB MH 352620 S4E2

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1076640000	KSWN M25	D.47
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1137080000	KDSU M75 BS 0 NI 1 G75	D.28
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195270000	KTB MH 553520 S4E2 KTB MH 553520 S4E2	C.12 C.29	1195880000 1195890000	KTB FS 303020 S4E3 KTB FS 303020 S4E4	C.40 C.40	1199970000 1199980000	KTB QL 262620 S4E2 KTB QL 262620 S4E3	C.38	1201010000 1201020000	KTB QL 987420 S4E1 KTB QL 987420 S4E2	C.38
1195280000	KTB MH 553520 S4E3	C.12	1195900000	KTB FS 352615 S4E0	C.40	1199990000	KTB QL 262620 S4E4	C.38	1201030000	KTB QL 987420 S4E3	C.38
1195280000	KTB MH 553520 S4E3	C.29	1195910000	KTB FS 352615 S4E1	C.40				1201040000	KTB QL 987420 S4E4	C.38
195290000 195290000	KTB MH 553520 S4E4 KTB MH 553520 S4E4	C.12 C.29	1195920000 1195930000	KTB FS 352615 S4E2 KTB FS 352615 S4E3	C.40 C.40	12000	00000		1205890000	VGM40/1-MS68 20-32 BG VGM40/1-SS68 20-32 BG	D.9 D.14
1195300000	KTB MH 624515 S4E0	C.12	1195940000	KTB FS 352615 S4E4	C.40	1200010000	KTB QL 303015 S4E0	C.38	1203320000	VdIVI+0/ 1-0300 20-02 Dd	D.14
1195300000	KTB MH 624515 S4E0	C.30	1195950000	KTB FS 352620 S4E0	C.40	1200020000	KTB QL 303015 S4E1	C.38	12100	00000	
1195310000 1195310000	KTB MH 624515 S4E1 KTB MH 624515 S4E1	C.12 C.30	1195960000 1195970000	KTB FS 352620 S4E1 KTB FS 352620 S4E2	C.40 C.40	1200030000 1200040000	KTB QL 303015 S4E2 KTB QL 303015 S4E3	C.38	1210890000	VP M16 EXE MS	C.152
1195320000	KTB MH 624515 S4E2	C.12	1195980000	KTB FS 352620 S4E3	C.40	1200050000	KTB QL 303015 S4E4	C.38	1210890000	VP M16 EXE MS	D.56
1195320000	KTB MH 624515 S4E2	C.30	1195990000	KTB FS 352620 S4E4	C.40	1200060000	KTB QL 303020 S4E0	C.38	1210900000	VP M20 EXE MS	C.153
1195330000 1195330000	KTB MH 624515 S4E3 KTB MH 624515 S4E3	C.12 C.30	1196000000 1196010000	KTB FS 403015 S4E0 KTB FS 403015 S4E1	C.40 C.40	1200070000	KTB QL 303020 S4E1 KTB QL 303020 S4E1	C.38 C.46	1210900000 1210900000	VP M20 EXE MS VP M20 EXE MS	C.154 C.155
1195340000	KTB MH 624515 S4E4	C.12	1196020000	KTB FS 403015 S4E2	C.40	1200070000	KTB QL 303020 S4E2	C.38	1210900000	VP M20 EXE MS	D.56
1195340000	KTB MH 624515 S4E4	C.30	1196030000	KTB FS 403015 S4E3	C.40	1200090000	KTB QL 303020 S4E3	C.38	1210910000	VP M25 EXE MS	D.56
1195350000 1195350000	KTB MH 624520 S4E0	C.12 C.31	1196040000 1196050000	KTB FS 403015 S4E4	C.40 C.40	1200100000	KTB QL 303020 S4E4	C.38	1210920000	VP M32 EXE MS VP M40 EXE MS	D.56
1195360000	KTB MH 624520 S4E0 KTB MH 624520 S4E1	C.12	1196060000	KTB FS 403020 S4E0 KTB FS 403020 S4E1	C.40	1200110000	KTB QL 352615 S4E0 KTB QL 352615 S4E1	C.38	1210930000 1210940000	VP M50 EXE MS	D.56
1195360000	KTB MH 624520 S4E1	C.31	1196070000	KTB FS 403020 S4E2	C.40	1200130000	KTB QL 352615 S4E2	C.38	1210950000	VP M63 EXE MS	D.56
1195370000 1195370000	KTB MH 624520 S4E2 KTB MH 624520 S4E2	C.12 C.31	1196080000 1196090000	KTB FS 403020 S4E3 KTB FS 403020 S4E4	C.40 C.40	1200140000 1200150000	KTB QL 352615 S4E3 KTB QL 352615 S4E4	C.38	40500	00000	
1195380000	KTB MH 624520 S4E3	C.12	1196100000	KTB FS 453815 S4E0	C.40	1200160000	KTB QL 352620 S4E0	C.38	12500	00000	
1195380000	KTB MH 624520 S4E3	C.31	1196110000	KTB FS 453815 S4E1	C.40	1200170000	KTB QL 352620 S4E1	C.38	1252190000	TPSD FIXING SET KTB	C.15
1195390000 1195390000	KTB MH 624520 S4E4 KTB MH 624520 S4E4	C.12 C.31	1196120000 1196130000	KTB FS 453815 S4E2 KTB FS 453815 S4E3	C.40 C.40	1200180000	KTB QL 352620 S4E2	C.38	1252190000	TPSD FIXING SET KTB	C.16
195400000	KTB MH 765015 S4E0	C.12	1196140000	KTB FS 453815 S4E4		1200130000	KTB QL 352620 S4E3	L 20	12521annnn		P 17
195400000	KTB MH 765015 S4E0				C.40	1200210000	KTB QL 352620 S4E4	C.38	1252190000 1252190000	TPSD FIXING SET KTB TPSD FIXING SET KTB	C.17 C.18
195410000		C.32	1196150000	KTB FS 453820 S4E0	C.40	1200220000	KTB QL 403015 S4E0	C.38 C.38	1252190000 1252190000	TPSD FIXING SET KTB TPSD FIXING SET KTB	C.18 C.19
	KTB MH 765015 S4E1	C.32 C.12	1196160000	KTB FS 453820 S4E0 KTB FS 453820 S4E1	C.40 C.40	1200220000 1200230000	KTB QL 403015 S4E0 KTB QL 403015 S4E1	C.38 C.38 C.38	1252190000 1252190000 1252190000	TPSD FIXING SET KTB TPSD FIXING SET KTB TPSD FIXING SET KTB	C.18 C.19 C.20
195410000 195420000		C.32		KTB FS 453820 S4E0	C.40	1200220000	KTB QL 403015 S4E0	C.38 C.38	1252190000 1252190000	TPSD FIXING SET KTB TPSD FIXING SET KTB	C.18 C.19 C.20 C.21
195410000 195420000 195420000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2	C.32 C.12 C.32 C.12 C.32	1196160000 1196170000 1196180000 1196190000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E3 KTB FS 453820 S4E4	C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200260000	KTB OL 403015 S4E0 KTB OL 403015 S4E1 KTB OL 403015 S4E2 KTB OL 403015 S4E3 KTB OL 403015 S4E4	C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.19 C.20 C.21 C.22 C.23
195410000 195420000 195420000 195430000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E3	C.32 C.12 C.32 C.12 C.32 C.12	1196160000 1196170000 1196180000 1196190000 1196200000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E3 KTB FS 453820 S4E4 KTB FS 458820 S4E4	C.40 C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200260000 1200270000	KTB OL 403015 S4E0 KTB OL 403015 S4E1 KTB OL 403015 S4E2 KTB OL 403015 S4E3 KTB OL 403015 S4E4 KTB OL 403020 S4E0	C.38 C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.19 C.20 C.21 C.22 C.23
195410000 195420000 195420000 195430000 195430000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2	C.32 C.12 C.32 C.12 C.32	1196160000 1196170000 1196180000 1196190000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E3 KTB FS 453820 S4E4	C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200260000	KTB OL 403015 S4E0 KTB OL 403015 S4E1 KTB OL 403015 S4E2 KTB OL 403015 S4E3 KTB OL 403015 S4E4	C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.19 C.20 C.21 C.22 C.23 C.24 C.25
195410000 195420000 195420000 195430000 195430000 195440000 195440000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E4 KTB MH 765015 S4E4	C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12 C.32	1196160000 1196170000 1196180000 1196190000 1196200000 1196210000 1196220000 1196230000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E2 KTB FS 453820 S4E4 KTB FS 453820 S4E4 KTB FS 454815 S4E0 KTB FS 484815 S4E1 KTB FS 484815 S4E1 KTB FS 484815 S4E2	C.40 C.40 C.40 C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200260000 1200270000 1200280000 1200290000 1200310000	KTB 0.1 403015 S4E0 KTB 0.1 403015 S4E1 KTB 0.1 403015 S4E2 KTB 0.1 403015 S4E2 KTB 0.1 403015 S4E4 KTB 0.1 403015 S4E4 KTB 0.1 403020 S4E0 KTB 0.1 403020 S4E1 KTB 0.1 403020 S4E2 KTB 0.1 403020 S4E2	C.38 C.38 C.38 C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.20 C.21 C.22 C.23 C.24 C.28 C.26 C.26
195410000 195420000 195420000 195430000 195430000 195440000 195440000 195450000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765015 S4E4	C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12	1196160000 1196170000 1196180000 1196190000 1196200000 1196210000 1196220000 1196230000 1196240000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E3 KTB FS 453820 S4E3 KTB FS 453820 S4E4 KTB FS 448415 S4E0 KTB FS 484815 S4E1 KTB FS 484815 S4E2 KTB FS 484815 S4E2 KTB FS 484815 S4E3 KTB FS 484815 S4E3	C.40 C.40 C.40 C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200260000 1200270000 1200280000 1200290000 1200310000 1200320000	KTB 0L 403015 S4E0 KTB 0L 403015 S4E1 KTB 0L 403015 S4E2 KTB 0L 403015 S4E3 KTB 0L 403015 S4E3 KTB 0L 403015 S4E4 KTB 0L 403015 S4E4 KTB 0L 403020 S4E1 KTB 0L 403020 S4E1 KTB 0L 403020 S4E2 KTB 0L 403020 S4E3 KTB 0L 403020 S4E3	C38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.20 C.22 C.22 C.22 C.24 C.25 C.25 C.26 C.26 C.26 C.27 C.27 C.27 C.28 C.26 C.27 C.27 C.27 C.28
195410000 195420000 195420000 195430000 195430000 195440000 195440000 195450000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E4 KTB MH 765015 S4E4	C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12 C.32	1196160000 1196170000 1196180000 1196190000 1196200000 1196210000 1196220000 1196230000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E2 KTB FS 453820 S4E4 KTB FS 453820 S4E4 KTB FS 454815 S4E0 KTB FS 484815 S4E1 KTB FS 484815 S4E1 KTB FS 484815 S4E2	C.40 C.40 C.40 C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200260000 1200270000 1200280000 1200290000 1200310000	KTB 0.1 403015 S4E0 KTB 0.1 403015 S4E1 KTB 0.1 403015 S4E2 KTB 0.1 403015 S4E2 KTB 0.1 403015 S4E4 KTB 0.1 403015 S4E4 KTB 0.1 403020 S4E0 KTB 0.1 403020 S4E1 KTB 0.1 403020 S4E2 KTB 0.1 403020 S4E2	C.38 C.38 C.38 C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.21 C.22 C.22 C.22 C.22 C.24 C.25 C.25 C.26 C.26 C.27 C.27 C.28 C.28 C.28 C.28 C.28 C.28
195410000 195420000 195420000 195430000 195430000 195440000 195440000 195450000 195460000 195460000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765020 S4E0 KTB MH 765020 S4E0 KTB MH 765020 S4E0 KTB MH 765020 S4E1 KTB MH 765020 S4E1	C.32 C.12 C.33 C.12 C.33 C.12 C.33	1196160000 1196170000 1196180000 1196180000 1196200000 1196200000 1196220000 1196240000 1196240000 1196260000 1196270000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E3 KTB FS 453820 S4E3 KTB FS 453820 S4E4 KTB FS 453820 S4E4 KTB FS 464815 S4E1 KTB FS 464815 S4E1 KTB FS 464815 S4E2 KTB FS 464815 S4E2 KTB FS 464820 S4E2 KTB FS 464820 S4E1 KTB FS 464820 S4E1	C.40 C.40 C.40 C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200250000 1200250000 1200250000 1200270000 1200270000 1200320000 1200320000 1200320000 1200330000 1200350000 1200350000	KTB 01.403015 S4E0 KTB 01.403015 S4E1 KTB 01.403015 S4E2 KTB 01.403015 S4E3 KTB 01.403015 S4E3 KTB 01.403015 S4E4 KTB 01.403015 S4E4 KTB 01.403020 S4E0 KTB 01.403020 S4E1 KTB 01.403020 S4E2 KTB 01.403020 S4E2 KTB 01.403020 S4E4	C.38 C.38 C.38 C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.19 C.20 C.21 C.22 C.23 C.24 C.25 C.26 C.26 C.26 C.26 C.27 C.26 C.27 C.27 C.27 C.28 C.28 C.29 C.29 C.29 C.29 C.29 C.29 C.29 C.29
195410000 195420000 195420000 195430000 195430000 195440000 195440000 195450000 195460000 195460000 195460000	KTB MH 765015 S4E1 KTB MH 765015 S4E1 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E2 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E3 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765015 S4E4 KTB MH 765020 S4E0 KTB MH 765020 S4E0 KTB MH 765020 S4E1 KTB MH 765020 S4E1 KTB MH 765020 S4E2	C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12 C.32 C.12 C.33 C.12 C.33 C.12 C.33 C.12	1196160000 1196170000 1196180000 1196190000 119620000 119620000 1196220000 1196240000 1196250000 1196250000 1196260000 1196280000 1196280000	KTB FS 453820 S4E0 KTB FS 453820 S4E1 KTB FS 453820 S4E2 KTB FS 453820 S4E3 KTB FS 453820 S4E3 KTB FS 453820 S4E4 KTB FS 453820 S4E4 KTB FS 484815 S4E0 KTB FS 484815 S4E2 KTB FS 484815 S4E2 KTB FS 484815 S4E3 KTB FS 484815 S4E4 KTB FS 484815 S4E2 KTB FS 484818 S4E3 KTB FS 484818 S4E3 KTB FS 484820 S4E2 KTB FS 484820 S4E0 KTB FS 484820 S4E2 KTB FS 484820 S4E2	C.40 C.40 C.40 C.40 C.40 C.40 C.40 C.40	1200220000 1200230000 1200240000 1200250000 1200250000 1200270000 1200280000 1200280000 1200310000 1200330000 1200340000 1200340000 1200350000	KTB 0.1 403015 S4E0 KTB 0.1 403015 S4E1 KTB 0.1 403015 S4E3 KTB 0.1 403015 S4E3 KTB 0.1 403015 S4E3 KTB 0.1 403015 S4E4 KTB 0.1 403015 S4E4 KTB 0.1 403020 S4E0 KTB 0.1 403020 S4E2 KTB 0.1 403020 S4E2 KTB 0.1 403020 S4E3 KTB 0.1 403020 S4E4 KTB 0.1 403020 S4E4 KTB 0.1 453815 S4E0 KTB 0.1 453815 S4E0 KTB 0.1 453815 S4E2 KTB 0.1 453815 S4E2	C.38 C.38 C.38 C.38 C.38 C.38 C.38 C.38	1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000 1252190000	TPSD FIXING SET KTB	C.18 C.19 C.20 C.20 C.20 C.20 C.20 C.20 C.20 C.20
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1283450000 1283450000	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	C.20
1283450000	TPSDHA KTB 130X50 S2 R	C.22
1283450000	TPSDHA KTB 130X50 S2 R	C.23
1283450000	TPSDHA KTB 130X50 S2 R	C.24
1283450000	TPSDHA KTB 130X50 S2 R	C.25
1283450000	TPSDHA KTB 130X50 S2 R	C.26
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1283450000	TPSDHA KTB 130X50 S2 R	C.30
1283450000	TPSDHA KTB 130X50 S2 R	C.31
1283450000	TPSDHA KTB 130X50 S2 R	C.32
1283450000	TPSDHA KTB 130X50 S2 R	C.33
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1283450000 1283450000	TPSDHA KTB 130X50 S2 R TPSDHA KTB 130X50 S2 R	C.35
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1305850000	KLIPPON POK 082306	C.130

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1205070000	KLIPPON POK 082306	C.136
1303070000	KLIPPON POK 121209	C.130
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1310340000	KEBI-KTBI MOPL 4040 S2N	C.57
1310350000	KEBI-KTBI MOPL 5040 S2N	C.58
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1310420000	KEBI-KTBI MOPL 4030 MSZN	C.55
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1477780000	KSPMH M32 BSC	D.5
1477790000	KSPMH M40 BSC	D.5
1477800000	KSPMH M50 BSC	D.5
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1477870000	KSPMH M25 SSC	C.8
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1537110000	KLIPPON CS POK 121209-4	C.163
1537120000	KLIPPON CS POK 121209-4	C.164
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1580360000 1580360000	HG K+POK HG K+POK	C.102 C.104	1736230000 1736240000	GWDR M16-NP GWDR M20-NP	D.46 D.46	1772490000 1772500000	SKMU M40 - K GR SKMU M50 - K GR	D.40 D.40	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.143 C.144
1580360000	HG K+POK	C.104	1736250000	GWDR M25-NP	D.46	1772510000	SKMU M63 - K GR	D.40	1868550000	DAE M12 SS	C.145
1580360000 1580360000	HG K+POK HG K+POK	C.107 C.108	1736260000 1736270000	GWDR M32-NP GWDR M40-NP	D.46 D.46	1776700000 1776710000	VG M12-K68 SKS VG M16-K68 SKS	D.7 D.7	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.146 C.147
1580360000	HG K+POK	C.108	1736280000	GWDR M50-NP	D.46	1776720000	VG M20-K68 SKS 10-14	D.7	1868550000	DAE M12 SS	C.147
1580360000	HG K+POK	C.110	1736290000	GWDR M63-NP	D.46	1776730000	VG M25-K68 SKS	D.7	1868550000	DAE M12 SS	C.170
1580360000 1580360000	HG K+POK HG K+POK	C.111 C.112	1736300000 1736310000	SZS M16 SZS M20	D.52 D.52	1776900000 1776910000	VP M25 K54 VP M20 K54	D.53 D.53	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.171 C.172
1580360000	HG K+POK	C.113	1736320000	SZS M25	D.52	1776920000	VP M16 K54	D.53	1868550000	DAE M12 SS	C.173
1580360000	HG K+POK	C.114	1736330000 1736340000	SZS M32 SZS M40	D.52 D.52	1776930000 1776940000	VP M12 K54 VP M32 K54	D.53 D.53	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.174 C.178
16500	00000		1736350000	SZS M50	D.52	1776950000	VP M40 K54	D.53	1868550000	DAE M12 SS	C.179
1656390000	KV 11-M	D.10	1736360000 1736480000	SZS M63 EA-RING MS/M 16	D.52 D.49	1776960000 1776970000	VP M50 K54 VP M63 K54	D.53 D.53	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.180 C.181
1656400000	KV 13-M	D.10	1736490000	EA-RING MS/M 20	D.49	1777610000	SKMU EMV M12	D.44	1868550000	DAE M12 SS	C.182
1656410000 1656420000	KV 16-M KV 21-M	D.10 D.10	1736500000 1736510000	EA-RING MS/M 25 EA-RING MS/M 32	D.49 D.49	1777620000 1777630000	SKMU EMV M16 SKMU EMV M20	D.44 D.44	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.183 C.185
1656430000	KV 29-M	D.10	1736520000	EA-RING MS/M 40	D.49	1777640000	SKMU EMV M25	D.44	1868550000	DAE M12 SS	C.186
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16900	UUUUU		1736550000	EA-RING MS/M 75	D.49	1777670000	SKMU EMV M50	D.44	1868560000	DAE M12 PA SHORT	D.59
1694070000 1694080000	SKMU PG7-MS SKMU PG9-MS	D.42 D.42	1736570000 1736580000	KSP L24 KSP L30	D.51 D.51	1777680000 1777690000	SKMU EMV M63 SKMU EMV PG 48	D.44 D.44	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.52 C.53
1694090000	SKMU PG11-MS	D.42	1736590000	KSP L38	D.51	1777700000	SKMU EMV PG 42	D.44 D.44	1868570000	DAE M12 PA LONG	C.54
1694100000 1694110000	SKMU PG13,5-MS SKMU PG16-MS	D.42 D.42	1736600000 1736610000	KSP L46 KSP L55	D.51 D.51	1777710000 1777720000	SKMU EMV PG 36 VP M12-MS65	D.44 D.54	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.55 C.56
1697440000	SKMU PG7-K GR	D.42 D.40	1736620000	KSP L65	D.51	1777730000	VP M16-MS65	D.54 D.54	1868570000	DAE M12 PA LONG	C.57
1697450000	SKMU PG9-K GR	D.40	1736630000	KSP L80	D.51	1777740000	VP M20-MS65	D.54	1868570000	DAE M12 PA LONG	C.58
1697460000 1697470000	SKMU PG11-K GR SKMU PG 13,5-K GR	D.40 D.40	1736640000 1736670000	KSP L90 KSP EL30	D.51 D.51	1777750000 1777760000	VP M25-MS65 VP M32-MS65	D.54 D.54	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.59 C.60
1697480000	SKMU PG16-K GR	D.40	1736680000	KSP EL38	D.51	1777770000	VP M40-MS65	D.54	1868570000	DAE M12 PA LONG	C.61
1698220000 1698230000	SKMU PG21-K GR SKMU PG29-K GR	D.40 D.40	1736920000 1736930000	SKMU M16 K SW SKMU M20 K SW	D.41 C.79	1777780000 1777790000	VP M50-MS65 VP M63-MS65	D.54 D.54	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.62 C.68
1698240000	SKMU PG36-K GR	D.40	1736930000	SKMU M20 K SW	C.80	1777920000	GWDR M12-P0	D.45	1868570000	DAE M12 PA LONG	C.69
1698250000	SKMU PG42-K GR	D.40	1736930000 1736940000	SKMU M20 K SW SKMU M25 K SW	D.41 C.81	1777930000 1777940000	GWDR M16-P0 GWDR M20-P0	D.45 D.45	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.70 C.71
17100	በበበበበ		1736940000	SKMU M25 K SW	D.41	1777950000	GWDR M25-P0	D.45	1868570000	DAE M12 PA LONG	C.72
1718770000	VG 48-K68	D.6	1736950000 1736960000	SKMU M32 K SW SKMU M40 K SW	D.41 D.41	1777960000 1777970000	GWDR M32-P0 GWDR M40-P0	D.45 D.45	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.73 C.74
1718790000	VG 48-MS68	D.8	1736970000	SKMU M50 K SW	D.41	1777980000	GWDR M50-P0	D.45	1868570000	DAE M12 PA LONG	C.75
1718900000 1718910000	SKMU EMV PG7 SKMU EMV PG9	D.44 D.44	1736980000 1736990000	SKMU M63 K SW SKMU M16 MS	D.41 C.44	1777990000 1778860000	GWDR M63-P0 VG M20-K68 SKS 6-12	D.45 D.7	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.96 C.97
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1718930000 1718940000	SKMU EMV PG13,5 SKMU EMV PG16	D.44 D.44	1736990000 1737000000	SKMU M16 MS SKMU M20 MS	D.42 C.44	18000	00000		1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.99 C.100
1718950000	SKMU EMV PG21	D.44	1737000000	SKMU M20 MS	C.45	1806540000	SKMU M12 K SW	D.41	1868570000	DAE M12 PA LONG	C.100
1718960000 1719090000	SKMU EMV PG29 SKMU PG48-K GR	D.44 D.40	1737000000	SKMU M20 MS SKMU M20 MS	C.46 C.47	40000	0000		1868570000	DAE M12 PA LONG	C.102 C.103
1719100000	SKMU PG7-K SW	D.40 D.41	1737000000 1737000000	SKMU M20 MS	C.47	18600	UUUUU		1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.103
1719110000	SKMU PG9-K SW	D.41	1737000000	SKMU M20 MS	C.80	1868550000	DAE M12 SS	C.52	1868570000	DAE M12 PA LONG	C.105
1719120000 1719130000	SKMU PG11-K SW SKMU PG13,5-K SW	D.41 D.41	1737000000 1737010000	SKMU M20 MS SKMU M25 MS	D.42 C.47	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.53 C.54	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.106 C.107
1719140000	SKMU PG16-K SW	D.41	1737010000	SKMU M25 MS	C.81	1868550000	DAE M12 SS	C.55	1868570000	DAE M12 PA LONG	C.108
1719150000 1719160000	SKMU PG21-K SW SKMU PG29-K SW	D.41 D.41	1737010000 1737020000	SKMU M25 MS SKMU M32 MS	D.42 C.45	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.56 C.57	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.109 C.110
1719170000	SKMU PG36-K SW	D.41	1737020000	SKMU M32 MS	C.46	1868550000	DAE M12 SS	C.58	1868570000	DAE M12 PA LONG	C.111
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1719200000	SKMU PG21-MS	D.42	1737030000	SKMU M40 MS	D.42	1868550000	DAE M12 SS	C.61	1868570000	DAE M12 PA LONG	C.114
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1719230000	SKMU PG42-MS	D.42	1737060000	SKMU M75 MS	D.42	1868550000	DAE M12 SS	C.69	1868570000	DAE M12 PA LONG	C.134
1719240000 1719250000	SKMU PG48-MS VP 7-K54	D.42 D.53	1737070000 1737080000	VP M16-EXE SW VP M20-EXE SW	D.55 D.55	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.70 C.71	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.135 C.136
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1719270000	VP 48-MS65	D.54	1737100000	VP M32-EXE SW	D.55	1868550000	DAE M12 SS	C.73	1868570000	DAE M12 PA LONG	C.138
1719440000 1719450000	GWDR PG7-PO GWDR PG9-PO	D.45 D.45	1737110000 1737120000	VP M40-EXE SW VP M50-EXE SW	D.55 D.55	1868550000 1868550000	DAE M12 SS DAE M12 SS	C.74 C.75	1868570000 1868570000	DAE M12 PA LONG DAE M12 PA LONG	C.139 C.140
1719460000	GWDR PG11-P0	D.45	1737130000	VP M63-EXE SW	D.55	1868550000	DAE M12 SS	C.96	1868570000	DAE M12 PA LONG	C.141
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1719490000	GWDR PG21-P0	D.45	1737560000	ADAP EX M20-M16	C.155	1868550000	DAE M12 SS	C.99	1868570000	DAE M12 PA LONG	C.144
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1939710000	KLIPPON K7 VMQ	C.94
1939710000	KLIPPON K7 VMQ	C.113
1939730000	KLIPPON K71 VMQ	C.94
1939730000	KLIPPON K71 VMQ	C.114
1939760000 1939760000	KLIPPON KO VMQ KLIPPON KO VMQ	C.94 C.91
1000700000	NEI I UN NU VIVIU	6.81

2022050000	KTB MOPL 2215 MSZN H	C.15
2022060000	KTB MOPL 2626 MSZN H	C.16
2022060000	KTB MOPL 2626 MSZN H	C.17
2022190000	KTB MOPL 3030 MSZN H	C.18
2022190000	KTB MOPL 3030 MSZN H	C.19
2022310000	KTB MOPL 3526 MSZN H	C.20
2022310000	KTB MOPL 3526 MSZN H	C.21
2022420000	KTB MOPL 4030 MSZN H	C.22
2022420000	KTB MOPL 4030 MSZN H	C.23
2022590000	KTB MOPL 4538 MSZN H	C.24
2022590000	KTB MOPL 4538 MSZN H	C.25
2022610000	KTB MOPL 4848 MSZN H	C.26
2022610000	KTB MOPL 4848 MSZN H	C.27
2022650000	KTB MOPL 5535 MSZN H	C.28
2022650000	KTB MOPL 5535 MSZN H	C.29
2022670000	KTB MOPL 6245 MSZN H	C.30
2022670000	KTB MOPL 6245 MSZN H	C.31
2022680000	KTB MOPL 7650 MSZN H	C.32
2022680000	KTB MOPL 7650 MSZN H	C.33
2022740000	KTB MOPL 9161 MSZN H	C.34
2022740000	KTB MOPL 9161 MSZN H	C.35
2022760000	KTB MOPL 9874 MSZN H	C.36

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2022770000	KTB GP 221513 AB S4 PE	C.1
2022900000	KTB GP 221513 CD S4 PE	C.1
2022930000	KTB GP 262615 AB S4 PE	C.1
2023090000	KTB GP 262615 CD S4 PE	C.1
2023100000	KTB GP 262620 AB S4 PE	C.1
2023110000	KTB GP 262620 CD S4 PE	C.1
2023120000	KTB GP 303015 AB S4 PE	C.1
2023130000	KTB GP 303015 CD S4 PE	C.1
2023140000	KTB GP 303020 AB S4 PE	C.1
2023150000	KTB GP 303020 CD S4 PE	C.1
2023160000	KTB GP 352615 AB S4 PE	C.2
2023210000	KTB GP 352615 DC S4 PE	C.2
2023230000	KTB GP 352620 AB S4 PE	C.2
2023280000	KTB GP 352620 CD S4 PE	C.2
2023320000	KTB GP 403015 AB S4 PE	C.2
2023330000	KTB GP 403015 CD S4 PE	C.2
2023450000	KTB GP 403020 AB S4 PE	C.2
2023480000	KTB GP 403020 CD S4 PE	C.2
2023490000	KTB GP 453815 AB S4 PE	C.2
2023500000	KTB GP 453815 CD S4 PE	C.2
2023510000	KTB GP 453820 AB S4 PE	C.2
2023520000	KTB GP 453820 CD S4 PE	C.2
2023530000	KTB GP 484815 AB S4 PE	C.2
2023540000	KTB GP 484815 CD S4 PE	C.2
2023580000	KTB GP 484820 AB S4 PE	C.2
2023620000	KTB GP 484820 CD S4 PE	C.2
2023660000	KTB GP 553515 AB S4 PE	C.2
2023670000	KTB GP 553515 CD S4 PE	C.2
2023740000	KTB GP 553520 AB S4 PE	C.2
2023790000	KTB GP 553520 CD S4 PE	C.2
2023820000	KTB GP 624515 AB S4 PE	C.3
2023870000	KTB GP 624515 CD S4 PE	C.3
2023880000	KTB GP 624520 AB S4 PE	C.3
2023930000	KTB GP 624520 CD S4 PE	C.3
2024040000	KTB GP 765015 AB S4 PE	C.3
2024090000	KTB GP 765015 CD S4 PE	C.3
2024100000	KTB GP 765020 AB S4 PE	C.3
2024140000	KTB GP 765020 CD S4 PE	C.3
2024150000	KTB GP 916115 AB S4 PE	C.3
2024300000	KTB GP 916115 CD S4 PE	C.3
2024470000	KTB GP 916120 AB S4 PE	C.3
2024490000	KTB GP 916120 CD S4 PE	C.3
2024560000	KTB GP 987420 AB S4 PE	C.3
2024590000	KTB GP 987420 CD S4 PE	C.3

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2066710000	VP M12 EX SI 7J	D.5
2066720000	VP M16 EX SI 7J	C.15
2066720000	VP M16 EX SI 7J	D.5
2066730000	VP M20 EX SI 7J	C.15
2066730000	VP M20 EX SI 7J	C.15
2066730000	VP M20 EX SI 7J	C.15
2066730000	VP M20 EX SI 7J	C.15
2066730000	VP M20 EX SI 7J	D.5
2066740000	VP M25 EX SI 7J	D.5
2066750000	VP M32 EX SI 7J	D.5
2066760000	VP M40 EX SI 7J	D.5
2066770000	VP M50 EX SI 7J	D.5
2066940000	VP M63 EX SI 7J	D.5

2435070000	VG M12 EMV-4 MS 3-6.5	D.1
2435140000	VG M16 EMV-4 MS 5-10	D.1
2435150000	VG M20 EMV-4 MS 6-12	D.1
2435160000	VG M20 EMV-4 MS 8-14	D.1
2435170000	VG M25 EMV-4 MS 10-18	D.1
2435180000	VG M32 EMV-4 MS 16-25	D.1
2435190000	VG M40 EMV-4 MS 22-32	D.1
2435200000	VG M50 EMV-4 MS 30-38	D.1
2435210000	VG M63 FMV-4 MS 34-44	D.1

2470690000	KEBI QL 302015 S2B0	C.50
2470690000	KEBI QL 302015 S2B0	C.52
2470700000	KEBI QL 303015 S2B0	C.50
2470700000	KEBI QL 303015 S2B0	C.53
2470710000	KEBI QL 303022 S2B0	C.50
2470710000	KEBI QL 303022 S2B0	C.54
2470720000	KEBI QL 403015 S2B0	C.50
2470720000	KEBI QL 403015 S2B0	C.55
2470730000	KEBI QL 403022 S2B0	C.50
2470730000	KEBI QL 403022 S2B0	C.56
2470740000	KEBI QL 404022 S2B0	C.50
2470740000	KEBI QL 404022 S2B0	C.57
2470750000	KEBI QL 504022 S2B0	C.50
2470750000	KEBI QL 504022 S2B0	C.58
2470760000	KEBI QL 505022 S2B0	C.50
2470760000	KEBI QL 505022 S2B0	C.59
2470770000	KEBI QL 604022 S2B0	C.50
2470770000	KEBI QL 604022 S2B0	C.60
2470780000	KEBI QL 606022 S2B0	C.50
2470780000	KEBI QL 606022 S2B0	C.61
2470790000	KEBI QL 806022 S2B0	C.50
2470790000	KEBI QL 806022 S2B0	C.62
2470800000	KEBI QL 302015 S2B1	C.50
2470800000	KEBI QL 302015 S2B1	C.52

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2470810000	KEBI QL 303015 S2B1	C.50
2470810000	KEBI QL 303015 S2B1	C.53
2470820000	KEBI QL 303022 S2B1	C.50
2470820000	KEBI QL 303022 S2B1	C.54
2470830000	KEBI QL 403015 S2B1	C.50
2470830000	KEBI QL 403015 S2B1	C.55
2470840000	KEBI QL 403022 S2B1	C.50
2470840000	KEBI QL 403022 S2B1	C.56
2470850000	KEBI QL 404022 S2B1	C.50
2470850000	KEBI QL 404022 S2B1	C.57
2470860000	KEBI QL 504022 S2B1	C.50
2470860000	KEBI QL 504022 S2B1	C.58
2470870000	KEBI QL 505022 S2B1	C.50
2470870000	KEBI QL 505022 S2B1	C.59
2470880000	KEBI QL 604022 S2B1	C.50
2470880000	KEBI QL 604022 S2B1	C.60
2470890000	KEBI QL 606022 S2B1	C.50
2470890000	KEBI QL 606022 S2B1	C.61
2470900000	KEBI QL 806022 S2B1	C.50
2470900000	KEBI QL 806022 S2B1	C.62
2473930000	KLIPPON QL KEY	C.52
2473930000	KLIPPON QL KEY	C.53
2473930000	KLIPPON QL KEY	C.54
2473930000	KLIPPON QL KEY	C.55
2473930000	KLIPPON QL KEY	C.56
2473930000	KLIPPON QL KEY	C.57
2473930000	KLIPPON QL KEY	C.58
2473930000	KLIPPON QL KEY	C.59
2473930000	KLIPPON QL KEY	C.60
2473930000	KLIPPON QL KEY	C.61
2473930000	KLIPPON QL KEY	C.62
2475490000	PECD WIRE 6/200/D6 SET	C.44
2475490000	PECD WIRE 6/200/D6 SET	C.45
2475490000	PECD WIRE 6/200/D6 SET	C.46
2475490000	PECD WIRE 6/200/D6 SET	C.47
2475490000	PECD WIRE 6/200/D6 SET	C.78
2475490000	PECD WIRE 6/200/D6 SET	C.79
2475490000	PECD WIRE 6/200/D6 SET	C.80
2475490000	PECD WIRE 6/200/D6 SET	C.81

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2519520000	KLIPPON BDX M20 B	C.4
2519520000	KLIPPON BDX M20 B	C.4
2519520000	KLIPPON BDX M20 B	C.4
2519520000	KLIPPON BDX M20 B	C.4
2519520000	KLIPPON BDX M20 B	C.7
2519520000	KLIPPON BDX M20 B	C.7
2519520000	KLIPPON BDX M20 B	C.8
2519520000	KLIPPON BDX M20 B	C.8
2519520000	KLIPPON BDX M20 B	D.6
2519550000	KLIPPON BDX M20 S	C.4
2519550000	KLIPPON BDX M20 S	C.4
2519550000	KLIPPON BDX M20 S	C.4
2519550000	KLIPPON BDX M20 S	C.4
2519550000	KLIPPON BDX M20 S	C.6
2519550000	KLIPPON BDX M20 S	C.6
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.7
2519550000	KLIPPON BDX M20 S	C.8
2519550000	KLIPPON BDX M20 S	C.8
2519550000	KLIPPON BDX M20 S	D.6
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.13
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14:
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	C.14
2519570000	KLIPPON BDX M20X15 S	D.6
2519590000	KLIPPON BDX M25 S	D.6

2583350000	CABTITE BSE SML GY	E.4
2583360000	CABTITE SE 1.5-2 SML GY	E.4
2583380000	CABTITE SE 2-3 SML GY	E.4
2583400000	CABTITE SE 3-4 SML GY	E.4
2583440000	CABTITE SE 4-5 SML GY	E.4
2583450000	CABTITE SE 5-6 SML GY	E.4
2583460000	CABTITE SE 6-7 SML GY	E.4
2583470000	CABTITE FR 16/8 BK	E.(
2583480000	CABTITE FR 10/6 BK	E.!

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2583490000	CABTITE FR 4-1 BK	E.5	2584690000	CABTITE SE 6-7 SML BK	E.4	2722260000	VG M20 EXI 11-14 CR7J G4	D.38	8000003889	TS15X5 ST POK 0808	C.132
2583500000 2583510000	CABTITE CSE 7-24 LRG BK CABTITE CSE 2-11 SML BK	E.4 E.4	2584710000 2584730000	CABTITE SE 5-6 SML BK CABTITE SE 3-4 SML BK	E.4 E.4	2722270000 2722280000	VG M25 EXI 12-17 CR7J G4 VG M25 EXI 14-18 CR7J G4	D.38 D.38	8000003890 8000003890	TS15X5 ST POK 0811 TS15X5 ST POK 0811	C.133 C.137
2583520000	CABTITE SE 2/ASI SML BK	E.4	2584760000	CABTITE SE 2-3 SML BK	E.4	2722290000	VG M32 EXI 16-21 CR7J G4	D.38	8000003891	TS15X5 ST POK 0816	C.134
2583530000 2583540000	CABTITE SE 1/ASI SML BK CABTITE SE 2/8 SML BK	E.4 E.4	2584780000 2584790000	CABTITE SE 1.5-2 SML BK CABTITE BSE SML BK	E.4 E.4	2722300000 2722310000	VG M32 EXI 19-25 CR7J G4 VG M40 EXI 20-28 CR7J G4	D.38 D.38	8000003892 8000003908	TS15X5 ST POK 0819 TS35X7.5 ST K52	C.135 C.139
2583550000	CABTITE SE 2/7 SML BK	E.4	2584800000	CABTITE SE 2/ASI SML GY	E.4	2722320000	VG M40 EXI 23-32 CR7J G4	D.38	8000003909	TS35X7.5 ST POK 1626	C.140
2583560000 2583580000	CABTITE SE 4/4-5 SML BK CABTITE SE 4/3-4 SML BK	E.4 E.4	2584810000 2584820000	CABTITE SE 1/ASI SML GY CABTITE SE 2/8 SML GY	E.4 E.4	2722330000 2722340000	VG M50 EXI 31-38 CR7J G4 VG M63 EXI 35-44 CR7J G4	D.38 D.38	8000003910 8000003911	TS35X7.5 ST POK 1636 TS35X7.5 ST POK 1656	C.141 C.142
2583590000	CABTITE SE 4/2-3 SML BK	E.4	2584830000	CABTITE SE 2/7 SML GY	E.4	2722350000	VG M12 EXI 4-6,5 SI7J G4	D.39	8000003912	TS35X7.5 ST POK 2525	C.143
2583610000 2583620000	CABTITE SE 2/5-6 SML BK CABTITE SE 2/4-5 SML BK	E.4 E.4	2584840000 2584860000	CABTITE SE 4/4-5 SML GY CABTITE SE 4/3-4 SML GY	E.4 E.4	2722360000 2722370000	VG M16 EXI 5-8 SI7J G4 VG M16 EXI 6-10 SI7J G4	D.39 D.39	8000003912 8000003913	TS35X7.5 ST POK 2525 TS35X7.5 ST POK 4040	C.144 C.145
2583630000	CABTITE SE 32-33 LRG BK	E.4	2584870000	CABTITE SE 4/2-3 SML GY	E.4	2722380000	VG M20 EXI 7-12 SI7J G4	D.39	8000003913	TS35X7.5 ST POK 4040	C.146
2583640000 2583650000	CABTITE SE 31-32 LRG BK CABTITE SE 30-31 LRG BK	E.4 E.4	2584890000 2584900000	CABTITE SE 2/5-6 SML GY CABTITE SE 2/4-5 SML GY	E.4 E.4	2722390000 2722400000	VG M20 EXI 7-13 SI7J G4 VG M20 EXI 11-14 SI7J G4	D.39 D.39	8000003913 8000003914	TS35X7.5 ST POK 4040 TS35X7.5 ST POK 2560	C.148 C.147
2583660000	CABTITE SE 29-30 LRG BK	E.4	2584910000	CABTITE SE 33-34 LRG GY	E.4	2722410000	VG M25 EXI 12-17 SI7J G4	D.39	8000004129	MOPL SET BK4 S	C.116
2583670000 2583680000	CABTITE SE 28-29 LRG BK CABTITE SE 27-28 LRG BK	E.4 E.4	2584920000	CABTITE SE 32-33 LRG GY	E.4	2722420000 2722430000	VG M25 EXI 14-18 SI7J G4 VG M32 EXI 16-21 SI7J G4	D.39 D.39	8000004130 8000004132	KL SET 5Z2.5 S MOPL SET BK6 S	C.116 C.116
2583690000	CABTITE SE 26-27 LRG BK	E.4	25900	በበበበበ		2722440000	VG M32 EXI 19-25 SI7J G4	D.39	8000004133	KL SET 14Z2.5 S	C.116
2583700000 2583710000	CABTITE SE 25-26 LRG BK CABTITE SE 24-25 LRG BK	E.4 E.4	2595510000	CABTITE SE 33-34 LRG BK	E.4	2722450000 2722460000	VG M40 EXI 20-28 SI7J G4 VG M40 EXI 23-32 SI7J G4	D.39 D.39	8000004134 8000004135	KL SET 13A4 S MOPL SET BK12 S	C.116 C.116
2583720000	CABTITE FR 24/10 BK SET	E.6	2595520000	CABTITE SE 34-35 LRG BK	E.4	2722470000	VG M50 EXI 31-38 SI7J G4	D.39	8000004136	KL SET 24Z2.5 S	C.116
2583730000 2583740000	CABTITE SE 23-24 LRG BK CABTITE FR 16/8 BK SET	E.4 E.6	2595530000	CABTITE SE 34-35 LRG GY	E.4	2722480000	VG M63 EXI 35-44 SI7J G4	D.39	8000004137 8000004138	KL SET 21A4 S KL SET 5W4 S	C.116 C.116
2583750000	CABTITE SE 22-23 LRG BK	E.4	26300	በበበበበ		30100	nnnn		8000004139	KL SET 4Z4 S	C.116
2583760000 2583770000	CABTITE FR 10/6 BK SET CABTITE SE 21-22 LRG BK	E.5 E.4	2635120000	CABTITE SC M5X25 SET		3018950000	MP TBF 30/19	C.170	8000004140 8000004142	KL SET 18W4 S KL SET 32W4 S	C.116 C.116
2583780000	CABTITE SE 21-22 LNG BK	E.4 E.5	2635120000	CABTITE SC M5X25 SET	E.5 E.6	3010930000	INIP IBF 3U/ IS	U.17U	8000004142	KL SET 32W4 S	C.116
2583790000	CABTITE SE 20-21 LRG BK	E.4	2637360000	CABTITE TOOL ATSE PA	E.5	30700	00000		8000004142	KL SET 32W4 S	C.156
2583800000 2583810000	CABTITE FR 24/10 BK CABTITE SE 19-20 LRG BK	E.6 E.4	2637360000	CABTITE TOOL ATSE PA	E.6	3073000000	MOPL K11 STAHL	C.100	8000004143 8000004143	KL SET 38Z2.5 S KL SET 38Z2.5 S	C.116 C.150
2583830000	CABTITE SE 18-19 LRG BK	E.4	26500	00000		3073020000	MOPL K21 STAHL	C.102	8000004143	KL SET 38Z2.5 S	C.156
2583840000 2583850000	CABTITE SE 17-18 LRG BK CABTITE SE 16-17 LRG BK	E.4 E.4	2652280000	CABTITE SE 3/5-6 SML BK	E.4	3073040000 3073050000	MOPL K31 STAHL MOPL K32 STAHL	C.104 C.105	8000004144 8000004144	KL SET 6A4 S KL SET 6A4 S	C.150 C.152
2583860000	CABTITE SE 15-16 LRG BK	E.4	2652290000	CABTITE SE 3/5-6 SML GY	E.4	3073060000	MOPL K4 STAHL	C.106	8000004145	KL SET 10A4 S	C.150
2583880000 2583890000	CABTITE SE 14-15 LRG BK CABTITE CR 24/10 EMV	E.4 E.8	2652300000 2652310000	CABTITE BP 2MM PA CABTITE BP 3MM PA	E.8 E.8	3073070000 3073080000	MOPL K41 STAHL MOPL K5 STAHL	C.107 C.108	8000004145 8000004146	KL SET 10A4 S KL SET 18A4 S	C.153 C.150
2583900000	CABTITE BSE LRG BK	E.4	2652320000	CABTITE BP 4MM PA	E.8	3073090000	MOPL K51 STAHL	C.109	8000004146	KL SET 18A4 S	C.154
2583910000 2583930000	CABTITE CR 16/8 EMV CABTITE CR 10/6 EMV	E.8 E.8	2652330000 2652340000	CABTITE BP 5MM PA CABTITE BP 6MM PA	E.8 E.8	3073100000 3073110000	MOPL K52 STAHL MOPL K6 STAHL	C.110 C.111	8000004147 8000004148	KLIPPON K1 1,5M16AB CSS KLIPPON K1 1M2OAB CSS	C.116 C.116
2583950000	CABTITE CR 4/1 EMV	E.8	2652350000	CABTITE BP 7MM PA	E.8	3073120000	MOPL K61 STAHL	C.112	8000004149	KLIPPON K11 2M16AB CSS	C.116
2583960000 2583980000	CABTITE SE 15-16 SML BK CABTITE SE 14-15 SML BK	E.4 E.4	2652360000 2652370000	CABTITE BP 8MM PA CABTITE BP 9MM PA	E.8	3073130000 3073140000	MOPL K7 STAHL MOPL K71 STAHL	C.113 C.114	8000004150 8000004151	KLIPPON K11 2M20AB CSS KLIPPON K2 2M20AB CSS	C.116 C.116
2584000000	CABTITE SE 13-14 SML BK	E.4	2652380000	CABTITE BP 10MM PA	E.8	3073140000	WOFER/ISTANL	6.114	8000004151	KLIPPON K21 3M16AB CSS	C.116
2584010000	CARTITE LNS M63 BK	E.7 E.4	2652400000	CABTITE BP 12MM PA	E.8	38900	00000		8000004153	KLIPPON K3 4M20AB CSS	C.116 C.116
2584020000 2584030000	CABTITE SE 12-13 SML BK CABTITE LNS M50 BK	E.4 E.7	2652410000 2652420000	CABTITE BP 13MM PA CABTITE BP 14MM PA	E.8	3896100000	SP M6 15 MSZN	C.52	8000004154 8000004155	KLIPPON K31 4M20AB CSS KLIPPON K4 2M20AB CSS	C.116
2584040000	CABTITE SE 11-12 SML BK	E.4	2652430000	CABTITE BP 17MM PA	E.8	3896100000	SP M6 15 MSZN	C.53	8000004158	KLIPPON K5 4M20AB CSS	C.116
2584050000 2584060000	CABTITE LNS M40 BK CABTITE SE 10-11 SML BK	E.7 E.4	2652440000 2652450000	CABTITE BP 20MM PA CABTITE BP 21MM PA	E.8 E.8	3896100000 3896100000	SP M6 15 MSZN SP M6 15 MSZN	C.54 C.55	8000004160 8000004160	KLIPPON POK1 2M16AB CSS KLIPPON POK1 2M16AB CSS	C.150 C.152
2584070000	CABTITE LNS M32 BK	E.7	2652460000	CABTITE BP 25MM PA	E.8	3896100000	SP M6 15 MSZN	C.56	8000004161	KLIPPON POK2 2M20AB CSS	C.150
2584080000 2584090000	CABTITE SE 9-10 SML BK CABTITE LNS M25 BK	E.4 E.7	2652470000 2652480000	CABTITE BP 28MM PA CABTITE BP 35MM PA	E.8 E.8	3896100000 3896100000	SP M6 15 MSZN SP M6 15 MSZN	C.57 C.58	8000004161 8000004162	KLIPPON POK2 2M20AB CSS KLIPPON POK3 4M20AB CSS	C.153 C.150
2584110000	CABTITE LNS M20 BK	E.7				3896100000	SP M6 15 MSZN	C.59	8000004162	KLIPPON POK3 4M20AB CSS	C.154
2584120000 2584130000	CABTITE CGS M63 BK CABTITE CGS M50 BK	E.7	27200	00000		3896100000 3896100000	SP M6 15 MSZN SP M6 15 MSZN	C.60 C.61	8000004164 8000004164	KLIPPON POK51 4M20ABCSS KLIPPON POK51 4M20ABCSS	C.150 C.156
2584150000	CABTITE CGS M40 BK	E.7	2721930000	VG M12 EXE 4-6,5 CR7J G4	D.38	3896100000	SP M6 15 MSZN	C.62	8000004184	KLIPPON KO1 1M16AB CSS	C.116
2584160000 2584180000	CABTITE CGS M32 BK CABTITE CGS M25 BK	E.7 E.7	2721940000 2721950000	VG M16 EXE 5-8 CR7J G4 VG M16 EXE 6-10 CR7J G4	D.38 D.38	3896200000 3896200000	SP M6 20 MSZN SP M6 20 MSZN	C.52 C.53	8000004202 8000004203	KLIPPON K1 M16BCSS EX KLIPPON K1 M20BCSS EX	C.116 C.116
2584200000	CABTITE CGS M20 BK	E.7	2721960000	VG M20 EXE 7-12 CR7J G4	D.38	3896200000	SP M6 20 MSZN	C.54	8000004204	KLIPPON K11 M16ZCSS EX	C.116
2584210000 2584220000	CABTITE FRL 24/10 BK CABTITE FRL 16/8 BK	E.6 E.6	2721970000 2721980000	VG M20 EXE 7-13 CR7J G4 VG M20 EXE 11-14 CR7J G4	D.38 D.38	3896200000 3896200000	SP M6 20 MSZN SP M6 20 MSZN	C.55 C.56	8000004207 8000004208	KLIPPON K11 M16ACSS EX KLIPPON K11 M2OZCSS EX	C.116 C.116
2584240000	CABTITE FRL 10/6 BK	E.5	2721990000	VG M25 EXE 12-17 CR7J G4	D.38	3896200000	SP M6 20 MSZN	C.57	8000004209	KLIPPON K11 M20ACSS EX	C.116
2584260000 2584270000	CABTITE FRL 4-1 BK CABTITE GI H BK	E.5 E.7	2722000000 2722010000	VG M25 EXE 14-18 CR7J G4 VG M32 EXE 16-21 CR7J G4	D.38	3896200000 3896200000	SP M6 20 MSZN SP M6 20 MSZN	C.58 C.59	8000004210 8000004211	KLIPPON K2 M20BCSS EX KLIPPON K21 M16ZCSS EX	C.116 C.116
2584290000	CABTITE GI X BK	E.7	2722010000	VG M32 EXE 19-25 CR7J G4	D.38	3896200000	SP M6 20 MSZN	C.60	8000004211	KLIPPON K21 M16ACSS EX	C.116
2584300000	CABTITE GLIPK	E.7 E.7	2722030000	VG M40 EXE 20-28 CR7J G4	D.38	3896200000 3896200000	SP M6 20 MSZN SP M6 20 MSZN	C.61 C.62	8000004213	KLIPPON K3 M20BCSS EX	C.116
2584320000 2584330000	CABTITE GI I BK CABTITE SE 8-9 SML BK	E.7	2722040000 2722050000	VG M40 EXE 23-32 CR7J G4 VG M50 EXE 31-38 CR7J G4	D.38 D.38	3896300000	SP M6 30 MSZN	C.52	8000004214 8000004218	KLIPPON K31 M20ZCSS EX KLIPPON K5 4M20WCSS EX	C.116 C.116
2584340000	CABTITE SE 31-32 LRG GY	E.4	2722060000	VG M63 EXE 35-44 CR7J G4	D.38	3896300000	SP M6 30 MSZN	C.53	8000004219	KLIPPON K5 4M20ZCSS EX	C.116
2584350000 2584360000	CABTITE SE 28-29 LRG GY CABTITE SE 30-31 LRG GY	E.4 E.4	2722070000 2722080000	VG M12 EXE 4-6,5 SI7J G4 VG M16 EXE 5-8 SI7J G4	D.39 C.152	3896300000 3896300000	SP M6 30 MSZN SP M6 30 MSZN	C.54 C.55	8000004220 8000004221	KLIPPON K52 M20WCSS EX KLIPPON K52 M20ZCSS EX	C.116 C.116
2584370000	CABTITE SE 27-28 LRG GY	E.4	2722080000	VG M16 EXE 5-8 SI7J G4	D.39	3896300000	SP M6 30 MSZN	C.56	8000004222	KLIPPON POK1 M16BCSS EX	C.150
2584380000 2584390000	CABTITE SE 29-30 LRG GY CABTITE SE 26-27 LRG GY	E.4 E.4	2722090000 2722090000	VG M16 EXE 6-10 SI7J G4 VG M16 EXE 6-10 SI7J G4	C.152 D.39	3896300000 3896300000	SP M6 30 MSZN SP M6 30 MSZN	C.57 C.58	8000004222 8000004223	KLIPPON POK1 M16BCSS EX KLIPPON POK1 M16ACSS EX	C.152 C.150
2584400000	CABTITE SE 25-26 LRG GY	E.4	2722100000	VG M20 EXE 7-12 SI7J G4	D.39	3896300000	SP M6 30 MSZN	C.59	8000004223	KLIPPON POK1 M16ACSS EX	C.152
2584410000 2584420000	CABTITE SE 24-25 LRG GY CABTITE SE 23-24 LRG GY	E.4 E.4	2722110000 2722110000	VG M20 EXE 7-13 SI7J G4 VG M20 EXE 7-13 SI7J G4	C.153 C.154	3896300000 3896300000	SP M6 30 MSZN SP M6 30 MSZN	C.60 C.61	8000004224 8000004224	KLIPPON POK2 M20BCSS EX KLIPPON POK2 M20BCSS EX	C.150 C.153
2584430000	CABTITE SE 22-23 LRG GY	E.4	2722110000	VG M20 EXE 7-13 SI7J G4	C.155	3896300000	SP M6 30 MSZN	C.62	8000004225	KLIPPON POK2 M20ACSS EX	C.150
2584440000 2584450000	CABTITE SE 21-22 LRG GY CABTITE SE 20-21 LRG GY	E.4 E.4	2722110000 2722110000	VG M20 EXE 7-13 SI7J G4 VG M20 EXE 7-13 SI7J G4	C.156 D.39	70000	00000		8000004225 8000004226	KLIPPON POK2 M20ACSS EX KLIPPON POK3 M20BCSS EX	C.153 C.150
2584460000	CABTITE SE 19-20 LRG GY	E.4	2722120000	VG M20 EXE 11-14 SI7J G4	C.153				8000004226	KLIPPON POK3 M20BCSS EX	C.154
2584470000 2584480000	CABTITE SE 18-19 LRG GY CABTITE SE 17-18 LRG GY	E.4 E.4	2722120000 2722120000	VG M20 EXE 11-14 SI7J G4 VG M20 EXE 11-14 SI7J G4	C.154 C.155	7906080000	BK 4/E	C.116	8000004228 8000004228	KLIPPON POK3 M20ACSS EX KLIPPON POK3 M20ACSS EX	C.150 C.154
2584490000	CABTITE SE 16-17 LRG GY	E.4	2722120000	VG M20 EXE 11-14 SI7J G4	C.156	ጸበበበበ	00000		8000004229	KLIPPON POK51 M20WCSS E	C.150
2584500000 2584510000	CABTITE SE 15-16 LRG GY CABTITE SE 14-15 LRG GY	E.4 E.4	2722120000 2722130000	VG M20 EXE 11-14 SI7J G4 VG M25 EXE 12-17 SI7J G4	D.39 D.39	8000003444	KL SET 12W4 S	C.116	8000004229 8000004230	KLIPPON POK51 M20WCSS E KLIPPON POK51 M20ZCSS E	C.156 C.150
2584520000	CABTITE BSE LRG GY	E.4	2722140000	VG M25 EXE 14-18 SI7J G4	D.39	8000003444	KL SET 12W4 S	C.150	8000004230	KLIPPON POK51 M20ZCSS E	C.156
2584550000 2584560000	CABTITE SE 15-16 SML GY CABTITE SE 14-15 SML GY	E.4 E.4	2722150000 2722160000	VG M32 EXE 16-21 SI7J G4 VG M32 EXE 19-25 SI7J G4	D.39 D.39	8000003444 8000003446	KL SET 12W4 S KLIPPON K41 2M25AB CSS	C.155 C.116	8000004365 8000004365	KL SET KLIPPON POK1 BK4 KL SET KLIPPON POK1 BK4	C.150 C.152
2584560000	CABTITE SE 13-14 SML GY	E.4	2722170000	VG M32 EXE 19-25 517J G4 VG M40 EXE 20-28 S17J G4	D.39	8000003446	KLIPPON K41 3M20AB CSS	C.116	8000004366	KL SET KLIPPON POK 2 BK6	C.152
2584590000	CABTITE SE 12-13 SML GY	E.4	2722180000	VG M40 EXE 23-32 SI7J G4	D.39	8000003448	KLIPPON POK4 3M20AB CSS	C.150	8000004366	KL SET KLIPPON POK2 BK6	C.153
2584600000 2584610000	CABTITE SE 11-12 SML GY CABTITE SE 10-11 SML GY	E.4 E.4	2722190000 2722200000	VG M50 EXE 31-38 SI7J G4 VG M63 EXE 35-44 SI7J G4	D.39 D.39	8000003448 8000003589	KLIPPON POK4 3M20AB CSS KLIPPON K41 M25WCSS EX	C.155 C.116	8000004367 8000004367	KL SET KLIPPON POK3BK12 KL SET KLIPPON POK3BK12	C.150 C.154
2584630000	CABTITE SE 9-10 SML GY	E.4	2722210000	VG M12 EXI 4-6,5 CR7J G4	D.38	8000003591	KLIPPON K41 M20WCSS EX	C.116	8000004497	MOPL K3 BKVARIO SET	C.116
2584650000 2584660000	CABTITE SE 8-9 SML GY CABTITE SE 7-8 SML GY	E.4 E.4	2722220000 2722230000	VG M16 EXI 5-8 CR7J G4 VG M16 EXI 6-10 CR7J G4	D.38 D.38	8000003593 8000003593	KLIPPON POK4 M20WCSS EX KLIPPON POK4 M20WCSS EX	C.150 C.155	8000006708 8000006709	TS35X7.5 ST KTB2215 VER TS35X7.5 ST KTB2626 VER	C.15 C.16
2584670000	CABTITE SE 7-8 SML BK	E.4	2722240000	VG M20 EXI 7-12 CR7J G4	D.38	8000003594	KLIPPON POK4 M20ZCSS EX	C.150	8000006709	TS35X7.5 ST KTB2626 VER	C.17
2584680000	CABTITE SE 4-5 SML BK	E.4	2722250000	VG M20 EXI 7-13 CR7J G4	D.38	8000003594	KLIPPON POK4 M20ZCSS EX	C.155	8000006710	TS35X7.5 ST KTB3030 VER	C.18



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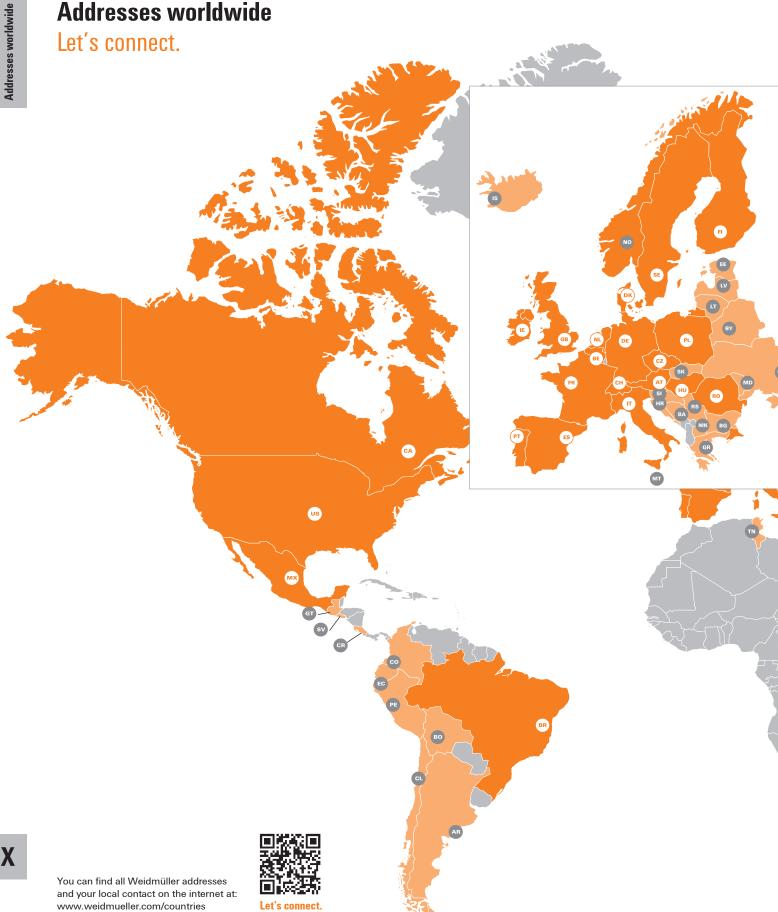
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9529120000	KLIPPON K1 RAL7001	C.94
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9529170000	KLIPPON K31 RAL7001	C.104
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9529180000	KLIPPON K32 RAL7001	C.105
9529190000	KLIPPON K4 RAL7001	C.94
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9529200000	KLIPPON K41 RAL7001	C.107
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9529210000	KLIPPON K5 RAL7001	C.108
9529220000	KLIPPON K51 RAL7001	C.94
9529220000	KLIPPON K51 RAL7001	C.109
9529230000	KLIPPON K52 RAL7001	C.94
9529230000	KLIPPON K52 RAL7001	C.110
9529240000	KLIPPON K6 RAL7001	C.94
9529240000	KLIPPON K6 RAL7001	C.111
9529250000	KLIPPON K61 RAL7001	C.94
9529250000	KLIPPON K61 RAL7001	C.112
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9529260000	KLIPPON K7 RAL7001	C.113
9529270000	KLIPPON K71 RAL7001	C.94
9529270000	KLIPPON K71 RAL7001	C.114

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9535170000	MPC 07/12/07 7035	C.178
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9535180000	MPC 07/12/07 TRSP	C.178
9535190000	MPC 07/12/10 7035	C.170
9535200000	MPC 07/12/10 TRSP	C.17
9535210000	MPC 07/12/12 7035	C.17
9535210000	MPC 07/12/12 7035	C.178
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9535220000	MPC 07/12/12 TRSP	C.178
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9535230000	MPC 12/12/07 7035	C.17
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9535240000	MPC 12/12/07 TRSP	C.17
9535250000	MPC 12/12/10 7035	C.17
9535260000	MPC 12/12/10 TRSP	C.170
9535270000	MPC 12/12/12 7035	C.170
9535280000	MPC 12/12/12 TRSP	C.17
9535290000	MPC 12/17/07 7035	C.170
9535290000	MPC 12/17/07 7035	C.179
9535300000	MPC 12/17/07 TRSP	C.17
9535300000	MPC 12/17/07 TRSP	C.179
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9535310000	MPC 12/17/10 7035	C.18
9535320000	MPC 12/17/10 TRSP	C.170
9535320000	MPC 12/17/10 TRSP	C.18
9535330000	MPC 12/17/12 7035	C.17
9535330000	MPC 12/17/12 7035	C.18
9535340000	MPC 12/17/12 TRSP	C.17
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