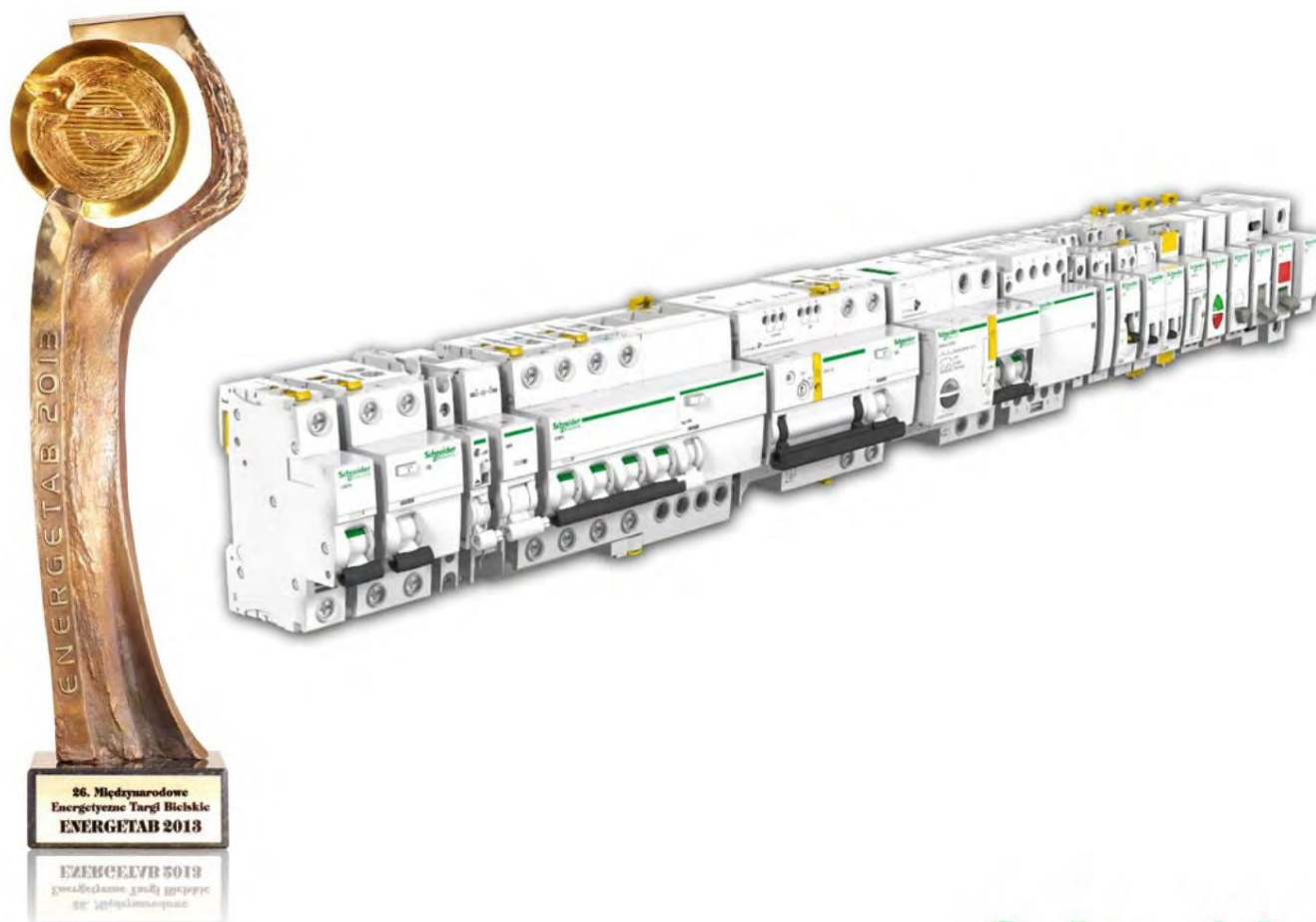


Acti 9

The efficiency you deserve

Catalog of references selected for the distribution
of Acti 9 modular equipment
2014



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Circuit breakers iC60N

Rated short-circuit breaking capacity: 6 kA according to IEC/EN60898-1 50 kA (0.5–4 A); 10 kA (6–63 A) according to IEC/EN60947-2



Extended service life is ensured by:

- overvoltage resistance taking into account difficult industrial conditions (degree of pollution, rated impulse withstand voltage, rated insulation voltage),
- high current limiting capacity (see limiting characteristics),
- quick closing independent of the speed of operating the drive lever.

Remote signaling, open/closed/tripped via optional auxiliary contacts.
Power supply from the top or bottom.

Alternating current (AC) 50/60 Hz						
Breaking current limit (I _{cu}) according to IEC/EN 60947-2						Usable breaking current (I _{cs})
Switching voltage (U _e)						
Phase/phase (2P, 3P, 4P)		12 do 133ÿV	220 do 240ÿV	380 do 415ÿV	440 V	
Phase/Neutral (1P, 1P+N, 3P+N)		12 do 60ÿV	100 do 133ÿV	220 do 240ÿV	-	
Rated current (I _n)	0,5 do 4ÿA	50 kA	50 kA	50 kA	25 kA	100% I _{cu}
	6 do 63ÿA	36 kA	20 kA	10 kA	6 kA	75% I _{cu}
Breaking current (I _{cn}) according to IEC/EN 60898-1						
Switching voltage (U _e)						
Phase/phase		400 V				
Phase/Neutral		230 V				
Rated current (I _n)	0,5 do 63ÿA 6000ÿA					

Direct current (DC)						
Breaking current limit (I _{cu}) according to IEC/EN 60947-2						Usable breaking current (I _{cs})
Switching voltage (U _e)						
Between +/-		12 do 72ÿV	100 do 133ÿV		220 do 250ÿV	
Number of fields		1P	2P	3P	4P	
Rated current (I _n)	1 do 63ÿA	6 kA	6 kA	6 kA	6 kA	100% I _{cu}


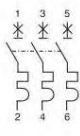




iC60N circuit breakers

Rated short-circuit breaking capacity:
6 kA wg IEC/EN60898-1
50 kA (0.5–4 A); 10 kA (6–63 A) according to IEC/EN60947-2


iC60N circuit breakers								
	Rated current (In)	B Characteristics		C characteristics		D characteristics		
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.	
1P (module width 1 x 18 mm)  	0,5yA	-	-	iC60N-C0.5	A9F04170 iC60N-D0.5	-	A9F05170	
	1yA	iC60N-B1	A9F03101	iC60N-C1	A9F04101	iC60N-D1	A9F05101	
	2yA	iC60N-B2	A9F03102 iC60N-C2	-	A9F04102 iC60N-D2	-	A9F05102	
	3yA	-	-	iC60N-C3	A9F04103 iC60N-D3	-	A9F05103	
	4yA	iC60N-B4	A9F03104 iC60N-C4	-	A9F04104 iC60N-D4	-	A9F05104	
	6yA	iC60N-B6	A9F03106 iC60N-C6	-	A9F04106 iC60N-D6	-	A9F05106	
	10yA	iC60N-B10	A9F03110 iC60N-C10	-	A9F04110 iC60N-D10	-	A9F05110	
	13yA	iC60N-B13	A9F03113 iC60N-C13	-	A9F04113 iC60N-D13	-	A9F05113	
	16yA	iC60N-B16	A9F03116 iC60N-C16	-	A9F04116 iC60N-D16	-	A9F05116	
	20yA	iC60N-B20	A9F03120 iC60N-C20	-	A9F04120 iC60N-D20	-	A9F05120	
	25yA	iC60N-B25	A9F03125 iC60N-C25	-	A9F04125 iC60N-D25	-	A9F05125	
	32yA	iC60N-B32	A9F03132 iC60N-C32	-	A9F04132 iC60N-D32	-	A9F05132	
	40yA	iC60N-B40	A9F03140 iC60N-C40	-	A9F04140 iC60N-D40	-	A9F05140	
	50yA	iC60N-B50	A9F03150 iC60N-C50	-	A9F04150 iC60N-D50	-	A9F05150	
	63yA	iC60N-B63	A9F03163 iC60N-C63	-	A9F04163 iC60N-D63	-	A9F05163	
	1P+N (module width 2 x 18 mm)  	0,5yA	-	-	iC60N-C0,5-1N A9F04670	-	-	-
		1yA	-	-	iC60N-C1-1N	A9F04601	-	-
2yA		-	-	iC60N-C2-1N	A9F04602	-	-	
3yA		-	-	iC60N-C3-1N	A9F04603	-	-	
4yA		-	-	iC60N-C4-1N	A9F04604	-	-	
6yA		iC60N-B6-1N A9F03606	iC60N-C6-1N A9F04606	-	-	-	-	
10yA		iC60N-B10-1N A9F03610	iC60N-C10-1N A9F04610	-	-	-	-	
13yA		iC60N-B13-1N A9F03613	iC60N-C13-1N A9F04613	-	-	-	-	
16yA		iC60N-B16-1N A9F03616	iC60N-C16-1N A9F04616	-	-	-	-	
20yA		iC60N-B20-1N A9F03620	iC60N-C20-1N A9F04620	-	-	-	-	
25yA		iC60N-B25-1N A9F03625	iC60N-C25-1N A9F04625	-	-	-	-	
32yA		iC60N-B32-1N A9F03632	iC60N-C32-1N A9F04632	-	-	-	-	
40yA		iC60N-B40-1N A9F03640	iC60N-C40-1N A9F04640	-	-	-	-	
50yA	iC60N-B50-1N A9F03650	iC60N-C50-1N A9F04650	-	-	-	-		
63yA	iC60N-B63-1N A9F03663	iC60N-C63-1N A9F04663	-	-	-	-		
2P (module width 2 x 18 mm)  	0,5yA	-	-	iC60N-C0,5-2 A9F04270	iC60N-D0,5-2 A9F05270	-	-	
	1yA	-	-	iC60N-C1-2	A9F04201	iC60N-D1-2	A9F05201	
	2yA	iC60N-B2-2	A9F03202 iC60N-C2-2	-	A9F04202 iC60N-D2-2	-	A9F05202	
	3yA	-	-	iC60N-C3-2	A9F04203 iC60N-D3-2	-	A9F05203	
	4yA	iC60N-B4-2	A9F03204 iC60N-C4-2	-	A9F04204 iC60N-D4-2	-	A9F05204	
	6yA	iC60N-B6-2	A9F03206 iC60N-C6-2	-	A9F04206 iC60N-D6-2	-	A9F05206	
	10yA	iC60N-B10-2	A9F03210 iC60N-C10-2	-	A9F04210 iC60N-D10-2	-	A9F05210	
	13yA	iC60N-B13-2	A9F03213 iC60N-C13-2	-	A9F04213 iC60N-D13-2	-	A9F05213	
	16yA	iC60N-B16-2	A9F03216 iC60N-C16-2	-	A9F04216 iC60N-D16-2	-	A9F05216	
	20yA	iC60N-B20-2	A9F03220 iC60N-C20-2	-	A9F04220 iC60N-D20-2	-	A9F05220	
	25yA	iC60N-B25-2	A9F03225 iC60N-C25-2	-	A9F04225 iC60N-D25-2	-	A9F05225	
	32yA	iC60N-B32-2	A9F03232 iC60N-C32-2	-	A9F04232 iC60N-D32-2	-	A9F05232	
	40yA	iC60N-B40-2	A9F03240 iC60N-C40-2	-	A9F04240 iC60N-D40-2	-	A9F05240	
50yA	iC60N-B50-2	A9F03250 iC60N-C50-2	-	A9F04250 iC60N-D50-2	-	A9F05250		
63yA	iC60N-B63-2	A9F03263 iC60N-C63-2	-	A9F04263 iC60N-D63-2	-	A9F05263		

iC60N circuit breakers





Rated short-circuit breaking capacity:
6 kA wg IEC/EN60898-1
50 kA (0.5–4 A); 10 kA (6–63 A) according to IEC/EN60947-2


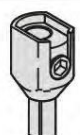


iC60N circuit breakers							
	Rated current (In)	B Characteristics		C characteristics		D characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
3P (module width 3 x 18 mm)  	0,5yA	-	-	iC60N-C0,5-3 A9F04370	iC60N-D0,5-3 A9F05370	-	-
	1yA	-	-	iC60N-C1-3	A9F04301	iC60N-D1-3	A9F05301
	2yA	iC60N-B2-3	A9F03302	iC60N-C2-3	A9F04302	iC60N-D2-3	A9F05302
	3yA	-	-	iC60N-C3-3	A9F04303	iC60N-D3-3	A9F05303
	4yA	-	-	iC60N-C4-3	A9F04304	iC60N-D4-3	A9F05304
	6yA	iC60N-B6-3	A9F03306	iC60N-C6-3	A9F04306	iC60N-D6-3	A9F05306
	10yA	iC60N-B10-3	A9F03310	iC60N-C10-3	A9F04310	iC60N-D10-3	A9F05310
	13yA	iC60N-B13-3	A9F03313	iC60N-C13-3	A9F04313	iC60N-D13-3	A9F05313
	16yA	iC60N-B16-3	A9F03316	iC60N-C16-3	A9F04316	iC60N-D16-3	A9F05316
	20yA	iC60N-B20-3	A9F03320	iC60N-C20-3	A9F04320	iC60N-D20-3	A9F05320
	25yA	iC60N-B25-3	A9F03325	iC60N-C25-3	A9F04325	iC60N-D25-3	A9F05325
	32yA	iC60N-B32-3	A9F03332	iC60N-C32-3	A9F04332	iC60N-D32-3	A9F05332
	40yA	iC60N-B40-3	A9F03340	iC60N-C40-3	A9F04340	iC60N-D40-3	A9F05340
	50yA	iC60N-B50-3	A9F03350	iC60N-C50-3	A9F04350	iC60N-D50-3	A9F05350
	63yA	iC60N-B63-3	A9F03363	iC60N-C63-3	A9F04363	iC60N-D63-3	A9F05363
3P+N (module width 4 x 18 mm)  	0,5yA	-	-	iC60N-C0,5-3N A9F04770	-	-	-
	1yA	-	-	iC60N-C1-3N	A9F04701	-	-
	2yA	-	-	iC60N-C2-3N	A9F04702	-	-
	3yA	-	-	iC60N-C3-3N	A9F04703	-	-
	4yA	-	-	iC60N-C4-3N	A9F04704	-	-
	6yA	iC60N-B6-3N A9F03706	iC60N-C6-3N	A9F04706	-	-	-
	10yA	iC60N-B10-3N A9F03710	iC60N-C10-3N	A9F04710	-	-	-
	13yA	iC60N-B13-3N A9F03713	iC60N-C13-3N	A9F04713	-	-	-
	16yA	iC60N-B16-3N A9F03716	iC60N-C16-3N	A9F04716	-	-	-
	20yA	iC60N-B20-3N A9F03720	iC60N-C20-3N	A9F04720	-	-	-
	25yA	iC60N-B25-3N A9F03725	iC60N-C25-3N	A9F04725	-	-	-
	32yA	iC60N-B32-3N A9F03732	iC60N-C32-3N	A9F04732	-	-	-
	40yA	iC60N-B40-3N A9F03740	iC60N-C40-3N	A9F04740	-	-	-
	50yA	iC60N-B50-3N A9F03750	iC60N-C50-3N	A9F04750	-	-	-
	63yA	iC60N-B63-3N A9F03763	iC60N-C63-3N	A9F04763	-	-	-
4P (module width 4 x 18 mm)  	0,5yA	-	-	iC60N-C0,5-4 A9F04470	iC60N-D0,5-4 A9F05470	-	-
	1yA	-	-	iC60N-C1-4	A9F04401	iC60N-D1-4	A9F05401
	2yA	-	-	iC60N-C2-4	A9F04402	iC60N-D2-4	A9F05402
	3yA	-	-	iC60N-C3-4	A9F04403	iC60N-D3-4	A9F05403
	4yA	-	-	iC60N-C4-4	A9F04404	iC60N-D4-4	A9F05404
	6yA	iC60N-B6-4	A9F03406	iC60N-C6-4	A9F04406	iC60N-D6-4	A9F05406
	10yA	iC60N-B10-4	A9F03410	iC60N-C10-4 A9F04410	iC60N-D10-4	-	A9F05410
	13yA	iC60N-B13-4	A9F03413	iC60N-C13-4 A9F04413	iC60N-D13-4	-	A9F05413
	16yA	iC60N-B16-4	A9F03416	iC60N-C16-4 A9F04416	iC60N-D16-4	-	A9F05416
	20yA	iC60N-B20-4	A9F03420	iC60N-C20-4 A9F04420	iC60N-D20-4	-	A9F05420
	25yA	iC60N-B25-4	A9F03425	iC60N-C25-4 A9F04425	iC60N-D25-4	-	A9F05425
	32yA	iC60N-B32-4	A9F03432	iC60N-C32-4 A9F04432	iC60N-D32-4	-	A9F05432
	40yA	iC60N-B40-4	A9F03440	iC60N-C40-4 A9F04440	iC60N-D40-4	-	A9F05440
	50yA	iC60N-B50-4	A9F03450	iC60N-C50-4 A9F04450	iC60N-D50-4	-	A9F05450
	63yA	iC60N-B63-4	A9F03463	iC60N-C63-4 A9F04463	iC60N-D63-4	-	A9F05463

Auxiliary accessories for iC60N










Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	1	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	1	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	1	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9A26946 A9A26947 A9A26948




Auxiliary accessories for iC60N

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC 0,5		A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC 0,5		A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24V DC	0,5	A9A26897








Connection accessories					
	Name				Nr ref.
	Distribloc distribution blocks	Exits to the top Exits to the bottom			04040 04041
	Al clamp 50 mm ²				27060
	Screw connection for ring terminals				27053
	Multi-wire terminal				19091

Auxiliary accessories for iC60N

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 –			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 –		A9XPH224 A9XPH257	
	3P	L1L2L3...	-	A9XPH312 –		A9XPH324 A9XPH357	
	4P	NL1L2L3...	-	A9XPH412 –		A9XPH424 A9XPH457	
	3 (N+P)	NL1NL2NL3... –		A9XPH512 A9XPH518 A9XPH524 A9XPH557			
	Aux+1P	AuxL1...	-	-	-	-	A9XAH157
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+3P	AuxL1L2L3... –					A9XAH357
	Aux+4P	AuxNL1L2L3... –					A9XAH457

Accessories			
	Name		Nr ref.
			
		2P	A9XPE210
		3P	A9XPE310
		4P	A9XPE410
	Tooth guard		A9XPT920
	Connection terminal	Single	A9XPCM04
		Double	A9XPCD04

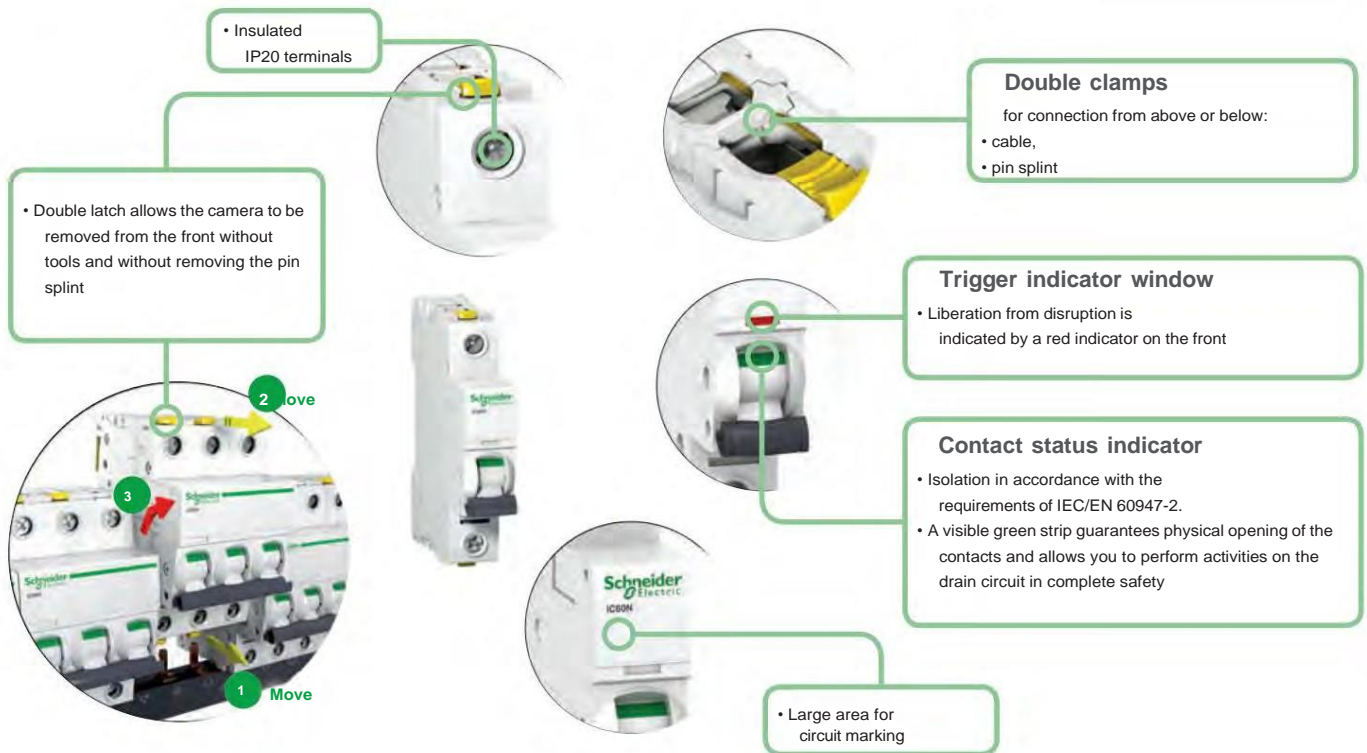
Auxiliary accessories for iC60N

Mounting accessories		
	Name	Nr ref.
	Sealable covers for upper and lower terminals 1P (2 pieces) Sealable covers for upper and lower terminals 2P (2 pieces)	A9A26975 A9A26976
	Interpole partition (10 pieces)	27001
	Screw cover (20 pieces)	A9A26981
	9 mm spacer	A9A27062
	Padlock device (10 pieces)	A9A26970
	Plug-in base	A9A27003
	Rotary drive: with black knob with red knob drive assembly without knob	A9A27005 A9A27006 A9A27008

Notes

Circuit breakers iC60H

Rated short-circuit breaking capacity:
10 kA wg IEC/EN60898-1
70 kA (0.5–4 A); 15 kA (6–63 A) according to IEC/EN60947-2




Extended service life is ensured by: • overvoltage resistance taking into account difficult industrial conditions (degree of pollution, rated impulse withstand voltage, rated insulation voltage), • high current limiting capacity (see limiting characteristics), • quick closing independent of the speed of operating the drive lever.
Remote signaling, open/closed/tripped via optional auxiliary contacts.
Power supply from the top or bottom.

Alternating current (AC) 50/60 Hz						
Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)
Phase/phase (2P, 3P, 4P)	Switching voltage (Ue)					
	12 do 133yV	220 do 240yV	380 do 415yV	440 V		
Phase/Neutral (1P, 1P+N, 3P+N)				-		
Rated current (In)	0,5 do 4yA	70 kA	70 kA	70 kA	50 kA	100% Icu
	6 do 40yA	42 kA	30 kA	15 kA	10 kA	50% Icu
	50/63yA	42 kA	-	15 kA	10 kA	50% Icu
Breaking current (Icn) according to IEC/EN 60898-1						
Switching voltage (Ue)						
Phase/phase	400 V					
Phase/Neutral	230 V					
Rated current (In)	0,5 do 63yA 10 000yA					

Direct current (DC)						
Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)
Between +/-	Switching voltage (Ue)					
	12 do 72yV	100 do 133yV		220 do 250yV		
Number of fields	1P	2P	3P	4P		
Rated current (In)	1 do 63yA	10 kA	10 kA	10 kA	10 kA	100% Icu

iC60H circuit breakers


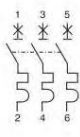

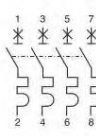
Rated short-circuit breaking capacity:
 10 kA wg IEC/EN60898-1
 70 kA (0.5–4 A); 15 kA (6–63 A) according to IEC/EN60947-2

iC60H circuit breakers							
	Rated current (In)	B Characteristics		C characteristics		D characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
1P (module width 1 x 18 mm)  	0,5yA	-	-	iC60H-C0.5	A9F07170 iC60H-D0.5	-	A9F08170
	1yA	-	-	iC60H-C1	A9F07101 iC60H-D1	-	A9F08101
	2yA	-	-	iC60H-C2	A9F07102 iC60H-D2	-	A9F08102
	3yA	-	-	iC60H-C3	A9F07103 iC60H-D3	-	A9F08103
	4yA	-	-	iC60H-C4	A9F07104 iC60H-D4	-	A9F08104
	6yA	iC60H-B6	A9F06106 iC60H-C6	-	A9F07106 iC60H-D6	-	A9F08106
	10yA	iC60H-B10	A9F06110 iC60H-C10	-	A9F07110 iC60H-D10	-	A9F08110
	13yA	iC60H-B13	A9F06113 iC60H-C13	-	A9F07113 iC60H-D13	-	A9F08113
	16yA	iC60H-B16	A9F06116 iC60H-C16	-	A9F07116 iC60H-D16	-	A9F08116
	20yA	iC60H-B20	A9F06120 iC60H-C20	-	A9F07120 iC60H-D20	-	A9F08120
	25yA	iC60H-B25	A9F06125 iC60H-C25	-	A9F07125 iC60H-D25	-	A9F08125
	32yA	iC60H-B32	A9F06132 iC60H-C32	-	A9F07132 iC60H-D32	-	A9F08132
	40yA	iC60H-B40	A9F06140 iC60H-C40	-	A9F07140 iC60H-D40	-	A9F08140
	50yA	iC60H-B50	A9F06150 iC60H-C50	-	A9F07150 iC60H-D50	-	A9F08150
	63yA	iC60H-B63	A9F06163 iC60H-C63	-	A9F07163 iC60H-D63	-	A9F08163
	1P+N (module width 2 x 18 mm)  	0,5yA	-	-	iC60H-C0,5-1N A9F07670	-	-
1yA		-	-	iC60H-C1-1N	A9F07601	-	-
2yA		-	-	iC60H-C2-1N	A9F07602	-	-
3yA		-	-	iC60H-C3-1N	A9F07603	-	-
4yA		-	-	iC60H-C4-1N	A9F07604	-	-
6yA		iC60H-B6-1N A9F06606	iC60H-C6-1N A9F07606	-	-	-	-
10yA		iC60H-B10-1N A9F06610	iC60H-C10-1N A9F07610	-	-	-	-
13yA		iC60H-B13-1N A9F06613	iC60H-C13-1N A9F07613	-	-	-	-
16yA		iC60H-B16-1N A9F06616	iC60H-C16-1N A9F07616	-	-	-	-
20yA		iC60H-B20-1N A9F06620	iC60H-C20-1N A9F07620	-	-	-	-
25yA		iC60H-B25-1N A9F06625	iC60H-C25-1N A9F07625	-	-	-	-
32yA		iC60H-B32-1N A9F06632	iC60H-C32-1N A9F07632	-	-	-	-
40yA		iC60H-B40-1N A9F06640	iC60H-C40-1N A9F07640	-	-	-	-
50yA		iC60H-B50-1N A9F06650	iC60H-C50-1N A9F07650	-	-	-	-
63yA		iC60H-B63-1N A9F06663	iC60H-C63-1N A9F07663	-	-	-	-
2P (module width 2 x 18 mm)  		0,5yA	-	-	iC60H-C0,5-2 A9F07270	iC60H-D0,5-2 A9F08270	-
	1yA	-	-	iC60H-C1-2	A9F07201	iC60H-D1-2	A9F08201
	2yA	-	-	iC60H-C2-2	A9F07202	iC60H-D2-2	A9F08202
	3yA	-	-	iC60H-C3-2	A9F07203	iC60H-D3-2	A9F08203
	4yA	-	-	iC60H-C4-2	A9F07204	iC60H-D4-2	A9F08204
	6yA	iC60H-B6-2	A9F06206 iC60H-C6-2	-	A9F07206 iC60H-D6-2	-	A9F08206
	10yA	iC60H-B10-2	A9F06210 iC60H-C10-2	-	A9F07210 iC60H-D10-2	-	A9F08210
	13yA	iC60H-B13-2	A9F06213 iC60H-C13-2	-	A9F07213 iC60H-D13-2	-	A9F08213
	16yA	iC60H-B16-2	A9F06216 iC60H-C16-2	-	A9F07216 iC60H-D16-2	-	A9F08216
	20yA	iC60H-B20-2	A9F06220 iC60H-C20-2	-	A9F07220 iC60H-D20-2	-	A9F08220
	25yA	iC60H-B25-2	A9F06225 iC60H-C25-2	-	A9F07225 iC60H-D25-2	-	A9F08225
	32yA	iC60H-B32-2	A9F06232 iC60H-C32-2	-	A9F07232 iC60H-D32-2	-	A9F08232
	40yA	iC60H-B40-2	A9F06240 iC60H-C40-2	-	A9F07240 iC60H-D40-2	-	A9F08240
	50yA	iC60H-B50-2	A9F06250 iC60H-C50-2	-	A9F07250 iC60H-D50-2	-	A9F08250
	63yA	iC60H-B63-2	A9F06263 iC60H-C63-2	-	A9F07263 iC60H-D63-2	-	A9F08263







iC60H circuit breakers

Rated short-circuit breaking capacity:
 10 kA wg IEC/EN60898-1
 70 kA (0.5–4 A); 15 kA (6–63 A) according to IEC/EN60947-2





iC60H circuit breakers


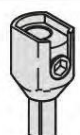


	Rated current (In)	B Characteristics		C characteristics		D characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
3P (module width 3 x 18 mm)  	0,5yA	-	-	iC60H-C0,5-3 A9F07370	iC60H-D0,5-3 A9F08370	-	-
	1yA	-	-	iC60H-C1-3	A9F07301	iC60H-D1-3	A9F08301
	2yA	-	-	iC60H-C2-3	A9F07302	iC60H-D2-3	A9F08302
	3yA	-	-	iC60H-C3-3	A9F07303	iC60H-D3-3	A9F08303
	4yA	-	-	iC60H-C4-3	A9F07304	iC60H-D4-3	A9F08304
	6yA	iC60H-B6-3	A9F06306	iC60H-C6-3	A9F07306	iC60H-D6-3	A9F08306
	10yA	iC60H-B10-3	A9F06310	iC60H-C10-3	A9F07310	iC60H-D10-3	A9F08310
	13yA	iC60H-B13-3	A9F06313	iC60H-C13-3	A9F07313	iC60H-D13-3	A9F08313
	16yA	iC60H-B16-3	A9F06316	iC60H-C16-3	A9F07316	iC60H-D16-3	A9F08316
	20yA	iC60H-B20-3	A9F06320	iC60H-C20-3	A9F07320	iC60H-D20-3	A9F08320
	25yA	iC60H-B25-3	A9F06325	iC60H-C25-3	A9F07325	iC60H-D25-3	A9F08325
	32yA	iC60H-B32-3	A9F06332	iC60H-C32-3	A9F07332	iC60H-D32-3	A9F08332
	40yA	iC60H-B40-3	A9F06340	iC60H-C40-3	A9F07340	iC60H-D40-3	A9F08340
	50yA	iC60H-B50-3	A9F06350	iC60H-C50-3	A9F07350	iC60H-D50-3	A9F08350
	63yA	iC60H-B63-3	A9F06363	iC60H-C63-3	A9F07363	iC60H-D63-3	A9F08363
4P (module width 4 x 18 mm)  	0,5yA	-	-	iC60H-C0,5-4 A9F07470	iC60H-D0,5-4 A9F08470	-	-
	1yA	-	-	iC60H-C1-4	A9F07401	iC60H-D1-4	A9F08401
	2yA	-	-	iC60H-C2-4	A9F07402	iC60H-D2-4	A9F08402
	3yA	-	-	iC60H-C3-4	A9F07403	iC60H-D3-4	A9F08403
	4yA	-	-	iC60H-C4-4	A9F07404	iC60H-D4-4	A9F08404
	6yA	iC60H-B6-4	A9F06406	iC60H-C6-4	A9F07406	iC60H-D6-4	A9F08406
	10yA	iC60H-B10-4	A9F06410	iC60H-C10-4 A9F07410	iC60H-D10-4	-	A9F08410
	13yA	iC60H-B13-4	A9F06413	iC60H-C13-4 A9F07413	iC60H-D13-4	-	A9F08413
	16yA	iC60H-B16-4	A9F06416	iC60H-C16-4 A9F07416	iC60H-D16-4	-	A9F08416
	20yA	iC60H-B20-4	A9F06420	iC60H-C20-4 A9F07420	iC60H-D20-4	-	A9F08420
	25yA	iC60H-B25-4	A9F06425	iC60H-C25-4 A9F07425	iC60H-D25-4	-	A9F08425
	32yA	iC60H-B32-4	A9F06432	iC60H-C32-4 A9F07432	iC60H-D32-4	-	A9F08432
	40yA	iC60H-B40-4	A9F06440	iC60H-C40-4 A9F07440	iC60H-D40-4	-	A9F08440
	50yA	iC60H-B50-4	A9F06450	iC60H-C50-4 A9F07450	iC60H-D50-4	-	A9F08450
	63yA	iC60H-B63-4	A9F06463	iC60H-C63-4 A9F07463	iC60H-D63-4	-	A9F08463

Auxiliary accessories for iC60H










Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	1	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	1	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	1	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9A26946 A9A26947 A9A26948




Auxiliary accessories for iC60H

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC 0,5		A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC 0,5		A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24V DC	0,5	A9A26897








Connection accessories					
	Name				Nr ref.
	Distribloc distribution blocks	Exits to the top Exits to the bottom			04040 04041
	Al clamp 50 mm ²				27060
	Screw connection for ring terminals				27053
	Multi-wire terminal				19091

Auxiliary accessories for iC60H

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 –			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 –		A9XPH224 A9XPH257	
	3P	L1L2L3...	-	A9XPH312 –		A9XPH324 A9XPH357	
	4P	NL1L2L3...	-	A9XPH412 –		A9XPH424 A9XPH457	
	3 (N+P)	NL1NL2NL3... –		A9XPH512 A9XPH518 A9XPH524 A9XPH557			
	Aux+1P	AuxL1...	-	-	-	-	A9XAH157
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+3P	AuxL1L2L3... –					A9XAH357
	Aux+4P	AuxNL1L2L3... –					A9XAH457

Accessories			
	Name		Nr ref.
	Side cover	1P	A9XPE110
		2P	A9XPE210
		3P	A9XPE310
		4P	A9XPE410
	Tooth guard		A9XPT920
	Connection terminal	Single	A9XPCM04
		Double	A9XPCD04

Auxiliary accessories for iC60H

Mounting accessories		
	Name	Nr ref.
	Sealable covers for upper and lower terminals 1P (2 pieces) Sealable covers for upper and lower terminals 2P (2 pieces)	A9A26975 A9A26976
	Interpole partition (10 pieces)	27001
	Screw cover (20 pieces)	A9A26981
	9 mm spacer	A9A27062
	Padlock device (10 pieces)	A9A26970
	Plug-in base	A9A27003
	Rotary drive: with black knob with red knob drive assembly without knob	A9A27005 A9A27006 A9A27008

Notes

Circuit breakers iC60L

Rated short-circuit breaking capacity:
 15 kA wg IEC/EN60898-1 do 40 A
 100 kA (0.5–4 A); 25 kA (6–25 A)
 20 kA (32/40 A) ; 15 kA (50/63 A) wg IEC/EN60947-2



Extended service life is ensured by: • overvoltage resistance taking into account difficult industrial conditions (degree of pollution, rated impulse withstand voltage, rated insulation voltage), • high current limiting capacity (see limiting characteristics), • quick closing independent of the speed of operating the drive lever.
 Remote signaling, open/closed/tripped via optional auxiliary contacts.
 Power supply from the top or bottom.




Alternating current (AC) 50/60 Hz						
Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)
Switching voltage (Ue)						
Phase/phase (2P, 3P, 4P)		12 do 133V	220 do 240V	380 do 415V	440 V	
Phase/Neutral (1P)						
Rated current (In)	0,5 do 4A	100 kA	100 kA	100 kA	70 kA	100% Icu
	6 do 25A	70 kA	-	25 kA	20 kA	50% Icu*
	32/40A	70 kA	-	20 kA	15 kA	50% Icu
	50/63A	70 kA	-	15 kA	10 kA	50% Icu
Breaking current (Icn) according to IEC/EN 60898-1						
Switching voltage (Ue)						
Phase/phase		400 V				
Phase/Neutral		230 V				
Rated current (In)		0,5 do 40A 15 000A				

Direct current (DC)							
Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)	
Switching voltage (Ue)							
Between +/-		12 do 48V	72 V	100 do 144V	220 do 250V		
Number of fields		1P	2P	3P	4P		
Rated current (In)		1 do 63A	25 kA	15 kA	15 kA	15 kA	100% Icu

iC60L miniature circuit breakers


Rated short-circuit breaking capacity:
 15 kA wg IEC/EN60898-1 do 40 A
 100 kA (0.5–4 A); 25 kA (6–25 A)
 20 kA (32/40 A) ; 15 kA (50/63 A) wg IEC/EN60947-2

iC60L circuit breakers







	Current i know (In)	B Characteristics		C characteristics		D characteristics		Z characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
1P (mod. 1 x 18 mm)									
	0,5yA	iC60L-B0,5	A9F93170	iC60L-C0,5	A9F94170	iC60L-K0,5	A9F95170	iC60L-Z0,5	A9F92170
	1yA	iC60L-B1	A9F93101	iC60L-C1	A9F94101	iC60L-K1	A9F95101	iC60L-Z1	A9F92101
	1,6yA	-	-	-	-	iC60L-K1.6	A9F95172	iC60L-Z1,6	A9F92172
	2yA	iC60L-B2	A9F93102	iC60L-C2	A9F94102	iC60L-K2	A9F95102	iC60L-Z2	A9F92102
	3yA	iC60L-B3	A9F93103	iC60L-C3	A9F94103	iC60L-K3	A9F95103	iC60L-Z3	A9F92103
	4yA	iC60L-B4	A9F93104	iC60L-C4	A9F94104	iC60L-K4	A9F95104	iC60L-Z4	A9F92104
	6yA	iC60L-B6	A9F93106	iC60L-C6	A9F94106	iC60L-K6	A9F95106	iC60L-Z6	A9F92106
	10yA	iC60L-B10	A9F93110	iC60L-C10	A9F94110	iC60L-K10	A9F95110	iC60L-Z10	A9F92110
	16yA	iC60L-B16	A9F93116	iC60L-C16	A9F94116	iC60L-K16	A9F95116	iC60L-Z16	A9F92116
	20yA	iC60L-B20	A9F93120	iC60L-C20	A9F94120	iC60L-K20	A9F95120	iC60L-Z20	A9F92120
	25yA	iC60L-B25	A9F93125	iC60L-C25	A9F94125	iC60L-K25	A9F95125	iC60L-Z25	A9F92125
	32yA	iC60L-B32	A9F93132	iC60L-C32	A9F94132	iC60L-K32	A9F95132	iC60L-Z32	A9F92132
	40yA	iC60L-B40	A9F93140	iC60L-C40	A9F94140	iC60L-K40	A9F95140	iC60L-Z40	A9F92140
	50yA	iC60L-B50	A9F93150	iC60L-C50	A9F94150	iC60L-K50	A9F95150	iC60L-Z50	A9F92150
63yA	iC60L-B63	A9F93163	iC60L-C63	A9F94163	iC60L-K63	A9F95163	iC60L-Z63	A9F92163	
2P (reg. mod. 2 x 18 mm)									
	0,5yA	iC60L-B0,5-2	A9F93270	iC60L-C0,5-2	A9F94270	iC60L-K0,5-2	A9F95270	iC60L-Z0,5-2	A9F92270
	1yA	iC60L-B1-2	A9F93201	iC60L-C1-2	A9F94201	iC60L-K1-2	A9F95201	iC60L-Z1-2	A9F92201
	1,6yA	-	-	-	-	iC60L-K1,6-2	A9F95272	iC60L-Z1,6-2	A9F92272
	2yA	iC60L-B2-2	A9F93202	iC60L-C2-2	A9F94202	iC60L-K2-2	A9F95202	iC60L-Z2-2	A9F92202
	3yA	iC60L-B3-2	A9F93203	iC60L-C3-2	A9F94203	iC60L-K3-2	A9F95203	iC60L-Z3-2	A9F92203
	4yA	iC60L-B4-2	A9F93204	iC60L-C4-2	A9F94204	iC60L-K4-2	A9F95204	iC60L-Z4-2	A9F92204
	6yA	iC60L-B6-2	A9F93206	iC60L-C6-2	A9F94206	iC60L-K6-2	A9F95206	iC60L-Z6-2	A9F92206
	10yA	iC60L-B10-2	A9F93210	iC60L-C10-2	A9F94210	iC60L-K10-2	A9F95210	iC60L-Z10-2	A9F92210
	16yA	iC60L-B16-2	A9F93216	iC60L-C16-2	A9F94216	iC60L-K16-2	A9F95216	iC60L-Z16-2	A9F92216
	20yA	iC60L-B20-2	A9F93220	iC60L-C20-2	A9F94220	iC60L-K20-2	A9F95220	iC60L-Z20-2	A9F92220
	25yA	iC60L-B25-2	A9F93225	iC60L-C25-2	A9F94225	iC60L-K25-2	A9F95225	iC60L-Z25-2	A9F92225
	32yA	iC60L-B32-2	A9F93232	iC60L-C32-2	A9F94232	iC60L-K32-2	A9F95232	iC60L-Z32-2	A9F92232
	40yA	iC60L-B40-2	A9F93240	iC60L-C40-2	A9F94240	iC60L-K40-2	A9F95240	iC60L-Z40-2	A9F92240
	50yA	iC60L-B50-2	A9F93250	iC60L-C50-2	A9F94250	iC60L-K50-2	A9F95250	iC60L-Z50-2	A9F92250
63yA	iC60L-B63-2	A9F93263	iC60L-C63-2	A9F94263	iC60L-K63-2	A9F95263	iC60L-Z63-2	A9F92263	
3P (mod. 3 x 18 mm)									
	0,5yA	iC60L-B0,5-3	A9F93370	iC60L-C0,5-3	A9F94370	iC60L-K0,5-3	A9F95370	iC60L-Z0,5-3	A9F92370
	1yA	iC60L-B1-3	A9F93301	iC60L-C1-3	A9F94301	iC60L-K1-3	A9F95301	iC60L-Z1-3	A9F92301
	1,6yA	-	-	-	-	iC60L-K1,6-3	A9F95372	iC60L-Z1,6-3	A9F92372
	2yA	iC60L-B2-3	A9F93302	iC60L-C2-3	A9F94302	iC60L-K2-3	A9F95302	iC60L-Z2-3	A9F92302
	3yA	iC60L-B3-3	A9F93303	iC60L-C3-3	A9F94303	iC60L-K3-3	A9F95303	iC60L-Z3-3	A9F92303
	4yA	iC60L-B4-3	A9F93304	iC60L-C4-3	A9F94304	iC60L-K4-3	A9F95304	iC60L-Z4-3	A9F92304
	6yA	iC60L-B6-3	A9F93306	iC60L-C6-3	A9F94306	iC60L-K6-3	A9F95306	iC60L-Z6-3	A9F92306
	10yA	iC60L-B10-3	A9F93310	iC60L-C10-3	A9F94310	iC60L-K10-3	A9F95310	iC60L-Z10-3	A9F92310
	16yA	iC60L-B16-3	A9F93316	iC60L-C16-3	A9F94316	iC60L-K16-3	A9F95316	iC60L-Z16-3	A9F92316
	20yA	iC60L-B20-3	A9F93320	iC60L-C20-3	A9F94320	iC60L-K20-3	A9F95320	iC60L-Z20-3	A9F92320
	25yA	iC60L-B25-3	A9F93325	iC60L-C25-3	A9F94325	iC60L-K25-3	A9F95325	iC60L-Z25-3	A9F92325
	32yA	iC60L-B32-3	A9F93332	iC60L-C32-3	A9F94332	iC60L-K32-3	A9F95332	iC60L-Z32-3	A9F92332
	40yA	iC60L-B40-3	A9F93340	iC60L-C40-3	A9F94340	iC60L-K40-3	A9F95340	iC60L-Z40-3	A9F92340
	50yA	iC60L-B50-3	A9F93350	iC60L-C50-3	A9F94350	iC60L-K50-3	A9F95350	iC60L-Z50-3	A9F92350
63yA	iC60L-B63-3	A9F93363	iC60L-C63-3	A9F94363	iC60L-K63-3	A9F95363	iC60L-Z63-3	A9F92363	

iC60L miniature circuit breakers





Rated short-circuit breaking capacity:
 15 kA wg IEC/EN60898-1 do 40 A
 100 kA (0.5–4 A); 25 kA (6–25 A)
 20 kA (32/40 A) ; 15 kA (50/63 A) wg IEC/EN60947-2


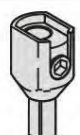


iC60L circuit breakers									
	Current i know (In)	B Characteristics		C characteristics		D characteristics		Z characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
4P (module width 4 x 18 mm) 	0,5yA	iC60L-B0,5-4	A9F93470	iC60L-C0,5-4	A9F94470	iC60L-K0,5-4	A9F95470	iC60L-Z0,5-4	A9F92470
	1yA	iC60L-B1-4	A9F93401	iC60L-C1-4	A9F94401	iC60L-K1-4	A9F95401	iC60L-Z1-4	A9F92401
	1,6yA	-	-	-	-	iC60L-K1,6-4	A9F95472	iC60L-Z1,6-4	A9F92472
	2yA	iC60L-B2-4	A9F93402	iC60L-C2-4	A9F94402	iC60L-K2-4	A9F95402	iC60L-Z2-4	A9F92402
	3yA	iC60L-B3-4	A9F93403	iC60L-C3-4	A9F94403	iC60L-K3-4	A9F95403	iC60L-Z3-4	A9F92403
	4yA	iC60L-B4-4	A9F93404	iC60L-C4-4	A9F94404	iC60L-K4-4	A9F95404	iC60L-Z4-4	A9F92404
	6yA	iC60L-B6-4	A9F93406	iC60L-C6-4	A9F94406	iC60L-K6-4	A9F95406	iC60L-Z6-4	A9F92406
	10yA	iC60L-B10-4	A9F93410	iC60L-C10-4	A9F94410	iC60L-K10-4	A9F95410	iC60L-Z10-4	A9F92410
	16yA	iC60L-B16-4	A9F93416	iC60L-C16-4	A9F94416	iC60L-K16-4	A9F95416	iC60L-Z16-4	A9F92416
	20yA	iC60L-B20-4	A9F93420	iC60L-C20-4	A9F94420	iC60L-K20-4	A9F95420	iC60L-Z20-4	A9F92420
	25yA	iC60L-B25-4	A9F93425	iC60L-C25-4	A9F94425	iC60L-K25-4	A9F95425	iC60L-Z25-4	A9F92425
	32yA	iC60L-B32-4	A9F93432	iC60L-C32-4	A9F94432	iC60L-K32-4	A9F95432	iC60L-Z32-4	A9F92432
	40yA	iC60L-B40-4	A9F93440	iC60L-C40-4	A9F94440	iC60L-K40-4	A9F95440	iC60L-Z40-4	A9F92440
	50yA	iC60L-B50-4	A9F93450	iC60L-C50-4	A9F94450	iC60L-K50-4	A9F95450	iC60L-Z50-4	A9F92450
	63yA	iC60L-B63-4	A9F93463	iC60L-C63-4	A9F94463	iC60L-K63-4	A9F95463	iC60L-Z63-4	A9F92463

Auxiliary accessories for iC60L









Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	1	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	1	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	1	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9A26946 A9A26947 A9A26948




Auxiliary accessories for iC60L

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC 0,5		A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC 0,5		A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24V DC	0,5	A9A26897








Connection accessories					
	Name				Nr ref.
	Distribloc distribution blocks	Exits to the top Exits to the bottom			04040 04041
	Al clamp 50 mm ²				27060
	Screw connection for ring terminals				27053
	Multi-wire terminal				19091

Auxiliary accessories for iC60L

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 –			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 –		A9XPH224 A9XPH257	
	3P	L1L2L3...	-	A9XPH312 –		A9XPH324 A9XPH357	
	4P	NL1L2L3...	-	A9XPH412 –		A9XPH424 A9XPH457	
	3 (N+P)	NL1NL2NL3... –		A9XPH512 A9XPH518 A9XPH524 A9XPH557			
	Aux+1P	AuxL1...	-	-	-	-	A9XAH157
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+3P	AuxL1L2L3... –	-	-	-	-	A9XAH357
	Aux+4P	AuxNL1L2L3... –	-	-	-	-	A9XAH457

Accessories			
	Name		Nr ref.
	Side cover	1P	A9XPE110
		2P	A9XPE210
		3P	A9XPE310
		4P	A9XPE410
	Tooth guard		A9XPT920
	Connection terminal	Single	A9XPCM04
		Double	A9XPCD04

Auxiliary accessories for iC60L

Mounting accessories		
	Name	Nr ref.
	Sealable covers for upper and lower terminals 1P (2 pieces) Sealable covers for upper and lower terminals 2P (2 pieces)	A9A26975 A9A26976
	Interpole partition (10 pieces)	27001
	Screw cover (20 pieces)	A9A26981
	9 mm spacer	A9A27062
	Padlock device (10 pieces)	A9A26970
	Plug-in base	A9A27003
	Rotary drive: with black knob with red knob drive assembly without knob	A9A27005 A9A27006 A9A27008

Notes

Circuit breakers

K60N

Rated short-circuit breaking capacity: 6 kA
according to IEC/EN60898-1

• Serrated clamps prevent cables from sliding out - increased clamping force

• Quick closing independent of the speed of operating the drive lever

Connections

- from the bottom with a fork rail
- from the bottom or top with cables








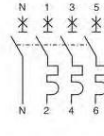
Padlock locking device

K60N 50/60 Hz circuit breakers			
Breaking current (I _{cn}) according to IEC/EN 60898-1			Usable breaking current (I _{cs})
		Voltage (V)	
Phase/phase		400 V	
Phase/Neutral		230 V	
Rated current (I _n)	2 do 40yA	6000yA	100% I _{cu}

Circuit breakers





K60N

Rated short-circuit breaking capacity:
6 kA wg IEC/EN60898-1

K60N circuit breakers						
	Current i know (In)	B Characteristics		C characteristics		
		Type	Nr ref.	Type	Nr ref.	
1P (module width 1 x 18 mm)  	2yA	-	-	K60N-C2	A9K02102	
	4yA	-	-	K60N-C4	A9K02104	
	6yA	K60N-B6	A9K01106	K60N-C6	A9K02106	
	10yA	K60N-B10	A9K01110	K60N-C10	A9K02110	
	13yA	K60N-B13	A9K01113	K60N-C13	A9K02113	
	16yA	K60N-B16	A9K01116	K60N-C16	A9K02116	
	20yA	K60N-B20	A9K01120	K60N-C20	A9K02120	
	25yA	K60N-B25	A9K01125	K60N-C25	A9K02125	
	32yA	K60N-B32	A9K01132	K60N-C32	A9K02132	
	40yA	K60N-B40	A9K01140	K60N-C40	A9K02140	
	1P+N (module width 2 x 18 mm)  	2yA	-	-	-	-
		4yA	-	-	-	-
6yA		-	-	-	-	
10yA		-	-	-	-	
13yA		K60N-B13-1N	A9K01613	K60N-C13-1N	A9K02613	
16yA		K60N-B16-1N	A9K01616	K60N-C16-1N	A9K02616	
20yA		-	-	-	-	
25yA		-	-	-	-	
32yA		-	-	-	-	
40yA		-	-	-	-	
3P (module width 3 x 18 mm)  	2yA	-	-	-	-	
	4yA	-	-	-	-	
	6yA	K60N-B6-3	A9K01306	K60N-C6-3	A9K02306	
	10yA	K60N-B10-3	A9K01310	K60N-C10-3	A9K02310	
	13yA	-	-	K60N-C13-3	A9K02313	
	16yA	K60N-B16-3	A9K01316	K60N-C16-3	A9K02316	
	20yA	K60N-B20-3	A9K01320	K60N-C20-3	A9K02320	
	25yA	K60N-B25-3	A9K01325	K60N-C25-3	A9K02325	
	32yA	K60N-B32-3	A9K01332	K60N-C32-3	A9K02332	
	40yA	K60N-B40-3	A9K01340	K60N-C40-3	A9K02340	
3P+N (module width 4 x 18 mm)  	2yA	-	-	-	-	
	4yA	-	-	-	-	
	6yA	-	-	-	-	
	10yA	-	-	-	-	
	13yA	-	-	K60N-C13-3N	A9K02713	
	16yA	-	-	K60N-C16-3N	A9K02716	
	20yA	-	-	-	-	
	25yA	-	-	-	-	
	32yA	-	-	-	-	
	40yA	-	-	-	-	

Auxiliary accessories for K60N

Accessories		
	Name	Nr ref.
	Padlock device – padlocking of the circuit breaker in the open or closed state.	26970

Connection rails			
	Type	Module width 18 mm	Nr ref.
1P 	L1	12	R9XFH112
		18	R9XFH118
		57	R9XFH157
2P 	L1L2	12	R9XFH212
		18	R9XFH218
		57	R9XFH257
3P 	L1L2L3	12	R9XFH312
		18	R9XFH318
		57	R9XFH357
4P 	L1L2L3L4	12	R9XFH412
		18	R9XFH418
		57	R9XFH457

Notes

Circuit breakers

C120N

Rated short-circuit breaking capacity:
 10 kA wg IEC/EN60898-1
 10 kA (63–125 A) wg IEC/EN60947-2



Extended service life is ensured by:

- high overvoltage resistance: product adapted to work in heavy industry (degree of pollution, rated surge withstand voltage, rated insulation voltage),
- high current limiting capacity (see limiting characteristics),
- quick closing independent of the speed of operating the drive lever.

Remote signaling, open/closed/tripped via auxiliary contacts (option).
 Power supply from the top or bottom.

Alternating current (AC) 50/60 Hz

Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)
Type	Voltage (V)					
1P	130 V	220 do 240ÿV	380 do 415ÿV	440 V		
Rated current (In)	63 do 125 A 20 kA	10 kA	3 kA*	-	-	75% Icu
2P, 3P, 4P	130 V	220 do 240ÿV	380 do 415ÿV	440 V		
	63 do 125ÿA –	20 kA	10 kA	6 kA	-	75% Icu
Breaking current (Icn) according to IEC/EN 60898-1						
Type	Voltage (V)					
1P, 2P, 3P, 4P	230 do 400ÿV					
Rated current (In)	63 do 125ÿA 10 000ÿA					75% Icu

*Single pole breaking current in a TT grid system with insulated neutral (double fault).








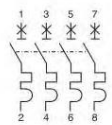
Direct current (DC)

Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)
Type	Voltage (V)					
1P	24/48 V	125 V	250 V			
Rated current (In)	63 do 125 A 10 kA	10 kA	-	-	-	100% Icu
2P (series)	24/48 V	125 V	250 V			
	63 do 125ÿA –	-	10 kA	-	-	100% Icu




Circuit breakers

C120N


Rated short-circuit breaking capacity:
 10 kA wg IEC/EN60898-1
 10 kA (63–125 A) wg IEC/EN60947-2

C120N circuit breakers					
	Rated current (In)	B Characteristics		C characteristics	
		Type	Nr ref.	Type	Nr ref.
1P (module width 1.5 x 18 mm)  	63yA	C120N-B63	A9N18340	C120N-C63	A9N18356
	80yA	C120N-B80	A9N18341	C120N-C80	A9N18357
	100yA	C120N-B100	A9N18342	C120N-C100	A9N18358
	125yA	C120N-B125	A9N18343	C120N-C125	A9N18359
2P (module width 3 x 18 mm)  	63yA	C120N-B63-2	A9N18344	C120N-C63-2	A9N18360
	80yA	C120N-B80-2	A9N18345	C120N-C80-2	A9N18361
	100yA	C120N-B100-2	A9N18346	C120N-C100-2	A9N18362
	125yA	C120N-B125-2	A9N18347	C120N-C125-2	A9N18363
3P (module width 4.5 x 18 mm)  	63yA	C120N-B63-3	A9N18348	C120N-C63-3	A9N18364
	80yA	C120N-B80-3	A9N18349	C120N-C80-3	A9N18365
	100yA	C120N-B100-3	A9N18350	C120N-C100-3	A9N18367
	125yA	C120N-B125-3	A9N18351	C120N-C125-3	A9N18369
4P (module width 6 x 18 mm)  	63yA	C120N-B63-4	A9N18352	C120N-C63-4	A9N18371
	80yA	C120N-B80-4	A9N18353	C120N-C80-4	A9N18372
	100yA	C120N-B100-4	A9N18354	C120N-C100-4	A9N18374
	125yA	C120N-B125-4	A9N18355	C120N-C125-4	A9N18376


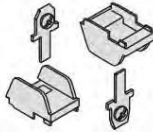








Auxiliary accessories for C120N

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Voltage release	MSU	230 V AC	1	A9N26500
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948








Auxiliary accessories for C120N

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Fault signaling contacts	SD	24...415 V AC 24...130V DC	0,5	A9N26927
	Dual contacts open/closed and fault indication	OF+SD24	24V DC	0,5	A9N26899
	Auxiliary contacts open/closed OF		24...415 V AC 24...130 V DC	0,5	A9N26924
	Dual contacts open/closed or fault indication	OF+SD/OF	24...415 V AC 24...130 V DC	0,5	A9N26929

Auxiliary accessories for C120N

Connection accessories			
	Name		Nr ref.
	Clamp for connection at the rear		18528
	Al clamp 50 mm2		27060
	Screw connection for ring terminals		27053
	Multi-wire terminal (4 pieces)		19091
	Multi-wire terminal (3 pieces)		19096
	Connection rails	1P, 16 27 mm modules	14811
		2P, 16 27 mm modules	14812
		3P, 15 27 mm modules	14813
		4P, 16 27 mm modules	14814
	Tooth guard	1P, 2P, 3P, 4P	14818

Auxiliary accessories for C120N

Mounting accessories		
	Name	Nr ref.
	9 mm spacer	A9N27062
	Terminal cover 1P (2 pieces for inlet/outlet terminals) 18526	
	Interpole partition (10 pieces)	27001
	Clamping screw cover (2 pieces 4P divisible)	18527
	Padlock device (4 pieces)	27145
	Plug-in base (γ 63 A)	26997
	Extended drive knob	27047
	Fixed knob	27048
	Drive mechanism	27046

Circuit breakers

C120H

Rated short-circuit breaking capacity:
 15 kA wg IEC/EN60898-1
 15 kA (63–125 A) wg IEC/EN60947-2



Extended service life is ensured by:

- high overvoltage resistance: product adapted to work in heavy industry (degree of pollution, rated surge withstand voltage, rated insulation voltage),
- high current limiting capacity (see limiting characteristics),
- quick closing independent of the speed of operating the drive lever.

Remote signaling, open/closed/tripped via auxiliary contacts (option).
 Power supply from the top or bottom.

Alternating current (AC) 50/60 Hz							
Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)	
Type	Voltage (V)						
1P		130 V	220 do 240ÿV	380 do 415ÿV	440 V		
Rated current (In)	63 do 125 A 30 kA		15 kA	4.5 kA*	-	50% Icu	
2P, 3P, 4P		130 V	220 do 240ÿV	380 do 415ÿV	440 V		
	63 do 125ÿA –		30 kA	15 kA	10 kA	50% Icu	
Breaking current (Icn) according to IEC/EN 60898-1							
Type	Voltage (V)						
1P, 2P, 3P, 4P		230 do 400ÿV					
Rated current (In)	63 do 125ÿA 15 000ÿA					50% Icu	






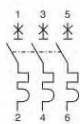

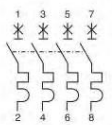
*Single pole breaking current in a TT grid system with insulated neutral (double fault).

Direct current (DC)						
Breaking current limit (Icu) according to IEC/EN 60947-2						Usable breaking current (Ics)
Type	Voltage (V)					
1P		24/48 V	125 V	250 V		
Rated current (In)	63 do 125 A 15 kA		15 kA	-		100% Icu
2P (series)		24/48 V	125 V	250 V		
	63 do 125ÿA –			15 kA		100% Icu







Circuit breakers

C120H

Rated short-circuit breaking capacity:
 15 kA wg IEC/EN60898-1
 15 kA (63–125 A) wg IEC/EN60947-2

C120H circuit breakers							
	Rated current (In)	B Characteristics		C characteristics		D characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
1P (module width 1.5 x 18 mm)  	63yA	C120H-B63	A9N18401 C120H-C63		A9N18445 C120H-D63		A9N18489
	80yA	C120H-B80	A9N18402 C120H-C80		A9N18446 C120H-D80		A9N18490
	100yA	C120H-B100	A9N18403 C120H-C100		A9N18447 C120H-D100		A9N18491
	125yA	C120H-B125	A9N18404 C120H-C125		A9N18448 C120H-D125		A9N18492
2P (module width 3 x 18 mm)  	63yA	C120H-B63-2	A9N18412 C120H-C63-2	A9N18456 C120H-D63-2	A9N18500		
	80yA	C120H-B80-2	A9N18413 C120H-C80-2	A9N18457 C120H-D80-2	A9N18501		
	100yA	C120H-B100-2	A9N18414 C120H-C100-2	A9N18458 C120H-D100-2	A9N18502		
	125yA	C120H-B125-2	A9N18415 C120H-C125-2	A9N18459 C120H-D125-2	A9N18503		
3P (module width 4.5 x 18 mm)  	63yA	C120H-B63-3	A9N18423 C120H-C63-3	A9N18467 C120H-D63-3	A9N18511		
	80yA	C120H-B80-3	A9N18424 C120H-C80-3	A9N18468 C120H-D80-3	A9N18512		
	100yA	C120H-B100-3	A9N18425 C120H-C100-3	A9N18469 C120H-D100-3	A9N18513		
	125yA	C120H-B125-3	A9N18426 C120H-C125-3	A9N18470 C120H-D125-3	A9N18514		
4P (module width 6 x 18 mm)  	63yA	C120H-B63-4	A9N18434 C120H-C63-4	A9N18478 C120H-D63-4	A9N18522		
	80yA	C120H-B80-4	A9N18435 C120H-C80-4	A9N18479 C120H-D80-4	A9N18523		
	100yA	C120H-B100-4	A9N18436 C120H-C100-4	A9N18480 C120H-D100-4	A9N18524		
	125yA	C120H-B125-4	A9N18437 C120H-C125-4	A9N18481 C120H-D125-4	A9N18525		


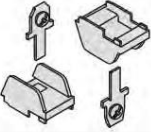








Auxiliary accessories for C120H

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Voltage release	MSU	230 V AC	1	A9N26500
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948








Auxiliary accessories for C120H

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Fault signaling contacts	SD	24...415 V AC 24...130V DC	0,5	A9N26927
	Dual contacts open/closed and fault indication	OF+SD24	24V DC	0,5	A9N26899
	Auxiliary contacts open/closed OF		24...415 V AC 24...130 V DC	0,5	A9N26924
	Dual contacts open/closed or fault indication	OF+SD/OF	24...415 V AC 24...130 V DC	0,5	A9N26929

Auxiliary accessories for C120H

Connection accessories			
	Name		Nr ref.
	Clamp for connection at the rear		18528
	Al clamp 50 mm2		27060
	Screw connection for ring terminals		27053
	Multi-wire terminal (4 pieces)		19091
	Multi-wire terminal (3 pieces)		19096
	Connection rails	1P, 16 27 mm modules	14811
		2P, 16 27 mm modules	14812
		3P, 15 27 mm modules	14813
		4P, 16 27 mm modules	14814
	Tooth guard	1P, 2P, 3P, 4P	14818

Auxiliary accessories for C120H

Mounting accessories		
	Name	Nr ref.
	9 mm spacer	A9N27062
	Terminal cover 1P (2 pieces for inlet/outlet terminals) 18526	
	Interpole partition (10 pieces)	27001
	Clamping screw cover (2 pieces 4P divisible)	18527
	Padlock device (4 pieces)	27145
	Plug-in base (γ 63 A)	26997
	Extended drive knob	27047
	Fixed knob	27048
	Drive mechanism	27046

Circuit breakers NG125N

Rated short-circuit breaking capacity: 25 kA (10–125 A) according to IEC/EN60947-2

Cable attachment:

- serrated socket
- deep socket
- hexagonal tightening
Allen key (NG125 80 A)

Voltage taps:

- power supply for auxiliary circuits
- measurements
- emergency shutdown
- remote signaling

1P, 2P

- locking with a padlock in position O or I, manual control is disabled, tripping is possible

Button to test the correct operation of the release mechanism

3P, 4P

- built-in padlock device

Unlocking the mount:

- metal lock

Three-position hand drive lever

- ON
- tripping after disturbance
- open

Impact and vibration resistance:

- high-strength housing
- IK 05

Circuit breaker trip indicator

Contact status indicator:

- isolating disconnection in accordance with the requirements of the IEC/EN 60947-2 standard
- a visible green strip guarantees physical opening of the contacts and allows you to make changes activities in the drain circuit in complete safety

Power supply from the top or bottom

Extended service life is ensured by:

- high overvoltage resistance,
- high current limiting capacity,
- quick closing independent of the speed of operating the drive lever.

Alternating current (AC) 50/60 Hz

Type	Breaking current limit (Icu) according to IEC/EN 60947-2						Operating breaking current (Ics)
	Voltage (Ue)						
Phase/phase (2P, 3P, 3P+N, 4P)	-	-	220 do 240ÿV –	-	380 to 415 V 440 V 500 V	-	20 kA 10 kA 75% Icu
Phase/Neutral (1P)	110 do 130ÿV	220 do 240ÿV –	-	380 do 415ÿV –	-	-	
Rated current (In) 10 to 125 A 50 kA	-	25 kA	50 kA	6 kA*	25 kA	-	

*Single pole breaking current in a TT grid system with insulated neutral (double fault).

Circuit breakers

NG125N

Rated short-circuit breaking capacity:
25 kA (10–125 A) wg IEC/EN60947-2

Direct current (DC)							
Breaking current limit (Icu) according to IEC/EN 60947-2						Operating breaking current (Ics)	
Type	Voltage (Ue)				250 V		500 V
Phase/phase (2P, 3P, 3P+N, 4P)	-	-	-	-			
Phase/Neutral (1P)	-	-	-	-			
Number of poles	1P	1P	2P	4P			
Rated current (In)	10 do 125yA	25 kA	25 kA	25 kA	25 kA	100% Icu	

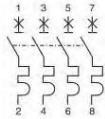
NG125N circuit breakers							
	Rated current (In)	B Characteristics		C characteristics		D characteristics	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
1P (module width 1.5 x 18 mm) 	10yA	-	-	NG125N-C10	18610 -	-	-
	16yA	-	-	NG125N-C16	18611 -	-	-
	20yA	-	-	NG125N-C20	18612 -	-	-
	25yA	-	-	NG125N-C25	18613 -	-	-
	32yA	-	-	NG125N-C32	18614 -	-	-
	40yA	-	-	NG125N-C40	18615 -	-	-
	50yA	-	-	NG125N-C50	18616 -	-	-
	63yA	-	-	NG125N-C63	18617 -	-	-
2P (module width 3 x 18 mm) 	10yA	-	-	NG125N-C10-2	18621 -	-	-
	16yA	-	-	NG125N-C16-2	18622 -	-	-
	20yA	-	-	NG125N-C20-2	18623 -	-	-
	25yA	-	-	NG125N-C25-2	18624 -	-	-
	32yA	-	-	NG125N-C32-2	18625 -	-	-
	40yA	-	-	NG125N-C40-2	18626 -	-	-
	50yA	-	-	NG125N-C50-2	18627 -	-	-
	63yA	-	-	NG125N-C63-2	18628 -	-	-
3P (module width 4.5 x 18 mm) 	10yA	-	-	NG125N-C10-3	18632 -	-	-
	16yA	-	-	NG125N-C16-3	18633 -	-	-
	20yA	-	-	NG125N-C20-3	18634 -	-	-
	25yA	-	-	NG125N-C25-3	18635 -	-	-
	32yA	-	-	NG125N-C32-3	18636 -	-	-
	40yA	-	-	NG125N-C40-3	18637 -	-	-
	50yA	-	-	NG125N-C50-3	18638 -	-	-
	63yA	-	-	NG125N-C63-3	18639 -	-	-
	80yA	NG125N-B80-3	18663	NG125N-C80-3	18640	NG125N-D80-3	18669
	100yA	NG125N-B100-3 18664	NG125N-C100-3 18642	NG125N-D100-3 18670			
125yA	NG125N-B125-3 18665	NG125N-C125-3 18644	NG125N-D125-3 18671				
3P+N (module width 6 x 18 mm) 	80yA	-	-	NG125N-C80-3N 18646 -	-	-	-
	100yA	-	-	NG125N-C100-3N 18647 -	-	-	-
	125yA	-	-	NG125N-C125-3N 18648 -	-	-	-

Circuit breakers




NG125N

Rated short-circuit breaking capacity:
25 kA (10–125 A) wg IEC/EN60947-2

NG125N circuit breakers							
Rated current (In)	B Characteristics		C characteristics		D characteristics		
	Type	Nr ref.	Type	Nr ref.	Type	Nr ref.	
4P (module width 6 x 18 mm)							
10yA	-	-	NG125N-C10-4 18649	-	-	-	
16yA	-	-	NG125N-C16-4 18650	-	-	-	
20yA	-	-	NG125N-C20-4 18651	-	-	-	
25yA	-	-	NG125N-C25-4 18652	-	-	-	
32yA	-	-	NG125N-C32-4 18653	-	-	-	
40yA	-	-	NG125N-C40-4 18654	-	-	-	
50yA	-	-	NG125N-C50-4 18655	-	-	-	
63yA	-	-	NG125N-C63-4 18656	-	-	-	
80yA	NG125N-B80-4 18666	-	NG125N-C80-4 18658	-	NG125N-D80-4 18672	-	
100yA	NG125N-B100-4 18667	-	NG125N-C100-4 18660	-	NG125N-D100-4 18673	-	
125yA	NG125N-B125-4 18668	-	NG125N-C125-4 18662	-	NG125N-D125-4 18674	-	



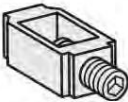
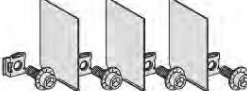

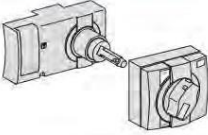
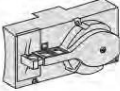




Auxiliary accessories for NG125N

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	230...240 V AC	1	19067
			48 V AC	1	19069
			48V DC	1	19070
	Undervoltage release independent of supply voltage	MNx	220...240 V AC	2	19061
	Growth trigger	MX+OF	230...415 V AC 110...130 V DC 1		19064
			48...130 V AC 48 V DC	1	19065
			24 V AC 24 V DC	1	19066
			12 V AC 12 V DC	1	19063

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	auxiliary contacts	OF+OF	220...240 V AC	0,5	19071
	Fault signaling contacts	OF+SD	220...240 V AC	0,5	19072

Auxiliary accessories for NG125N

Joining		
	Name	Nr ref.
	Multi-wire terminal (4 pieces)	19091
	Multi-wire terminal (3 pieces)	19096
	Al clamp 70 mm3	19095
	Screw connection for ring terminals	19093
	Connection for small ring terminals	19094
Installing		
	Name	Nr ref.
	Standard extended rotary drive, black	19088
	Safe extended rotary drive	19089
	Standard direct rotary drive	19092
	Extended safety red knob and yellow front cover	19097
	White drive lever	19099
	Padlock locking device	19090

Auxiliary accessories for NG125N

Security

	Name		Nr ref.
	Clamping screw cover (10 pieces)	1P	19084
		2P	19085
		3P	19086
		4P	19087
	Switch terminal cover (1 top/1 bottom set) 1P		19080
		2P	19081
		3P	19082
		4P	19083
	RCD terminal cover (Set 1 upper/1 lower)	2P 63yA	19074
		3P 63A	19075
		3P adapted 63 A, 3P 125 A	19077
		4P 63yA	19076
		4P adapted 63 A, 4P 125 A	19078

Connection rails

	Name		Nr ref.
	Connection rails	1P, 16 27 mm modules	14811
		2P, 16 27 mm modules	14812
		3P, 15 27 mm modules	14813
		4P, 16 27 mm modules	14814
	Tooth guard	1P, 2P, 3P, 4P	14818

Circuit breakers

NG125H

Rated short-circuit breaking capacity:

36 kA (10–80 A) according to IEC/EN60947-2

Cable attachment:

- serrated socket
- deep socket
- hexagonal tightening
Allen key (NG125 80 A)

Voltage taps:

- power supply for auxiliary circuits
- measurements
- emergency shutdown
- remote signaling

1P, 2P

- locking with a padlock in position O or I, manual control is disabled, tripping is possible

Button to test the correct operation of the release mechanism

3P, 4P

- built-in padlock device

Unlocking the mount:

- metal lock

Three-position hand drive lever

- ON
- tripping after disturbance
- open

Impact and vibration resistance:

- high-strength housing
- IK 05

Circuit breaker trip indicator

Contact status indicator:

- isolating disconnection in accordance with the requirements of the IEC/EN 60947-2 standard
- a visible green strip guarantees physical opening of the contacts and allows you to make changes activities in the drain circuit in complete safety

Power supply from the top or bottom

Extended service life is ensured by:

- high overvoltage resistance,
- high current limiting capacity,
- quick closing independent of the speed of operating the drive lever.

Alternating current (AC) 50/60 Hz

Type	Breaking current limit (I _{cu}) according to IEC/EN 60947-2						Operating breaking current (I _{cs})
	Voltage (U _e)						
Phase/phase (2P, 3P, 4P)	-	-	220 do 240ÿV –	-	380 to 415 V 440 V 500 V	-	70 kA
Phase/Neutral (1P)	110 do 130ÿV	220 do 240ÿV –	-	380 do 415ÿV –	-	-	
Rated current (I _n) 10 to 80 A	70 kA	36 kA	70 kA	9 kA*	36 kA	30 kA 12 kA 75% I _{cu}	

*Single pole breaking current in a TT grid system with insulated neutral (double fault).

Circuit breakers




NG125H



Rated short-circuit breaking capacity: 36 kA (10–80 A) according to IEC/EN60947-2

Direct current (DC)						
Breaking current limit (Icu) according to IEC/EN 60947-2						Operating breaking current (Ics)
Type	Voltage (Ue)					
Phase/phase (2P,3P,3P+N,4P)	-	-	250 V	500 V	-	
Phase/Neutral (1P)	60 V	125 V	-	-	-	
Number of poles	1P	1P	2P	4P		
Rated current (In)	10 do 80yA	36 kA	36 kA	36 kA	36 kA	100% Icu

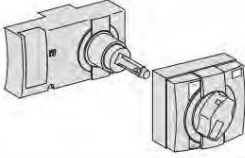
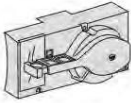

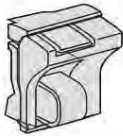
NG125H circuit breakers			
Type	Rated current (In)	C characteristics	
		Type	Nr ref.
1P (module width 1.5 x 18 mm) 	10yA	NG125H-C10	18705
	16yA	NG125H-C16	18706
	20yA	NG125H-C20	18707
	25yA	NG125H-C25	18708
	32yA	NG125H-C32	18709
	40yA	NG125H-C40	18710
	50yA	NG125H-C50	18711
	63yA	NG125H-C63	18712
2P (module width 3 x 18 mm) 	10yA	NG125H-C10-2	18714
	16yA	NG125H-C16-2	18715
	20yA	NG125H-C20-2	18716
	25yA	NG125H-C25-2	18717
	32yA	NG125H-C32-2	18718
	40yA	NG125H-C40-2	18719
	50yA	NG125H-C50-2	18720
	63yA	NG125H-C63-2	18721
3P (module width 4.5 x 18 mm) 	10yA	NG125H-C10-3	18723
	16yA	NG125H-C16-3	18724
	20yA	NG125H-C20-3	18725
	25yA	NG125H-C25-3	18726
	32yA	NG125H-C32-3	18727
	40yA	NG125H-C40-3	18728
	50yA	NG125H-C50-3	18729
	63yA	NG125H-C63-3	18730
4P (module width 6 x 18 mm) 	10yA	NG125H-C10-4	18732
	16yA	NG125H-C16-4	18733
	20yA	NG125H-C20-4	18734
	25yA	NG125H-C25-4	18735
	32yA	NG125H-C32-4	18736
	40yA	NG125H-C40-4	18737
	50yA	NG125H-C50-4	18738
	63yA	NG125H-C63-4	18739
80yA	NG125H-C80-4	18740	



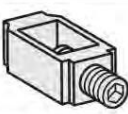
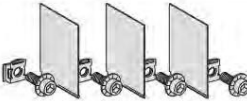

Auxiliary accessories for NG125H

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	230...240 V AC	1	19067
			48 V AC	1	19069
			48V DC	1	19070
	Undervoltage release independent of supply voltage	MNx	220...240 V AC	2	19061
	Growth trigger	MX+OF	230...415 V AC 110...130 V DC 1		19064
			48...130 V AC 48 V DC	1	19065
			24 V AC 24 V DC	1	19066
			12 V AC 12 V DC	1	19063

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	auxiliary contacts	OF+OF	220...240 V AC	0,5	19071
	Fault signaling contacts	OF+SD	220...240 V AC	0,5	19072

Auxiliary accessories for NG125H

Installing		
	Name	Nr ref.
	Standard extended rotary drive, black	19088
	Safe extended rotary drive	19089
	Standard direct rotary drive	19092
	Extended safety red knob and yellow front cover	19097
	White drive lever	19099
	Padlock locking device	19090

Joining		
	Name	Nr ref.
	Multi-wire terminal (4 pieces)	19091
	Multi-wire terminal (3 pieces)	19096
	Al clamp 70 mm3	19095
	Screw connection for ring terminals	19093
	Connection for small ring terminals	19094

Auxiliary accessories for NG125H

Security

	Name		Nr ref.
	Clamping screw cover (10 pieces)	1P	19084
		2P	19085
		3P	19086
		4P	19087
	Switch terminal cover (1 top/1 bottom set) 1P		19080
		2P	19081
		3P	19082
		4P	19083
	RCD terminal cover (Set 1 upper/1 lower)	2P 63ÿA	19074
		3P 63A	19075
		3P adapted 63 A, 3P 125 A	19077
		4P 63ÿA	19076
		4P adapted 63 A, 4P 125 A	19078

Connection rails

	Name		Nr ref.
	Connection rails	1P, 16 27 mm modules	14811
		2P, 16 27 mm modules	14812
		3P, 15 27 mm modules	14813
		4P, 16 27 mm modules	14814
	Tooth guard	1P, 2P, 3P, 4P	14818

Notes

Circuit breakers NG125L

Rated short-circuit breaking capacity: 50 kA (10–80 A) according to IEC/EN60947-2

Cable attachment:

- serrated socket
- deep socket
- hexagonal tightening
Allen key (NG125 80 A)

Voltage taps:

- power supply for auxiliary circuits
- measurements
- emergency shutdown
- remote signaling

1P, 2P

- locking with a padlock in position O or I, manual control is disabled, tripping is possible

Button to test the correct operation of the release mechanism

3P, 4P

- built-in padlock device

Unlocking the mount:

- metal lock

Three-position hand drive lever

- ON
- tripping after disturbance
- open

Impact and vibration resistance:

- high-strength housing
- IK 05

Circuit breaker trip indicator

Contact status indicator:

- isolating disconnection in accordance with the requirements of the IEC/EN 60947-2 standard
- a visible green strip guarantees physical opening of the contacts and allows you to make changes activities in the drain circuit in complete safety

Power supply from the top or bottom

Extended service life is ensured by:

- high overvoltage resistance,
- high current limiting capacity,
- quick closing independent of the speed of operating the drive lever.

Alternating current (AC) 50/60 Hz

Type	Breaking current limit (Icu) according to IEC/EN 60947-2						Operating breaking current (Ics)
	Voltage (Ue)						
Phase/phase (2P, 3P, 4P)	-	-	220 do 240ÿV –	-	380 to 415 V 440 V 500 V	-	
Phase/Neutral (1P)	110 do 130ÿV 220 do 240ÿV –	-	-	380 do 415ÿV –	-	-	
Rated current (In) 10 to 80 A	100 kA	50 kA	100 kA	12.5 kA*	50 kA	40 kA 15 kA 75% Icu	

*Single pole breaking current in a TT grid system with insulated neutral (double fault).

Circuit breakers




NG125L

Rated short-circuit breaking capacity: 50 kA (10–80 A) according to IEC/EN60947-2

Direct current (DC)						
Breaking current limit (Icu) according to IEC/EN 60947-2						Operating breaking current (Ics)
Type	Voltage (Ue)					
Phase/phase (2P, 3P, 3P+N, 4P)	-	-	250 V	500 V		
Phase/Neutral (1P)	60 V	125 V	-	-		
Number of poles		1P	1P	2P	4P	
Rated current (In)	10 do 80yA	50 kA	50 kA	50 kA	50 kA	100% Icu

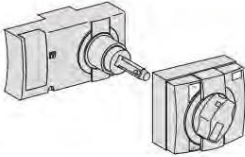
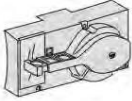

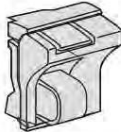
NG125L circuit breakers			
Type	Rated current (In)	B Characteristics	
		Type	Nr ref.
1P (module width 1.5 x 18 mm) 	10yA	NG125L-B10	18741
	16yA	NG125L-B16	18742
	20yA	NG125L-B20	18743
	25yA	NG125L-B25	18744
	32yA	NG125L-B32	18745
	40yA	NG125L-B40	18746
	50yA	NG125L-B50	18747
	63yA	NG125L-B63	18748
	80yA	NG125L-B80	18749
2P (module width 3 x 18 mm) 	10yA	NG125L-B10-2	18750
	16yA	NG125L-B16-2	18751
	20yA	NG125L-B20-2	18752
	25yA	NG125L-B25-2	18753
	32yA	NG125L-B32-2	18754
	40yA	NG125L-B40-2	18755
	50yA	NG125L-B50-2	18756
	63yA	NG125L-B63-2	18757
	80yA	NG125L-B80-2	18758
3P (module width 4.5 x 18 mm) 	10yA	NG125L-B10-3	18759
	16yA	NG125L-B16-3	18760
	20yA	NG125L-B20-3	18761
	25yA	NG125L-B25-3	18762
	32yA	NG125L-B32-3	18763
	40yA	NG125L-B40-3	18764
	50yA	NG125L-B50-3	18765
	63yA	NG125L-B63-3	18766
	80yA	NG125L-B80-3	18767
4P (module width 6 x 18 mm) 	10yA	NG125L-B10-4	18768
	16yA	NG125L-B16-4	18769
	20yA	NG125L-B20-4	18770
	25yA	NG125L-B25-4	18771
	32yA	NG125L-B32-4	18772
	40yA	NG125L-B40-4	18773
	50yA	NG125L-B50-4	18774
	63yA	NG125L-B63-4	18775
	80yA	NG125L-B80-4	18776



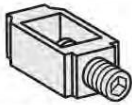
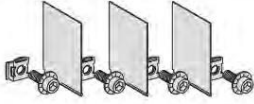

Auxiliary accessories for NG125L

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	230...240 V AC	1	19067
			48 V AC	1	19069
			48V DC	1	19070
	Undervoltage release independent of supply voltage	MNx	220...240 V AC	2	19061
	Growth trigger	MX+OF	230...415 V AC 110...130 V DC 1		19064
			48...130 V AC 48 V DC	1	19065
			24 V AC 24 V DC	1	19066
			12 V AC 12 V DC	1	19063

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	auxiliary contacts	OF+OF	220...240 V AC	0,5	19071
	Fault signaling contacts	OF+SD	220...240 V AC	0,5	19072

Auxiliary accessories for NG125L

Installing		
	Name	Nr ref.
	Standard extended rotary drive, black	19088
	Safe extended rotary drive	19089
	Standard direct rotary drive	19092
	Extended safety red knob and yellow front cover	19097
	White drive lever	19099
	Padlock locking device	19090

Joining		
	Name	Nr ref.
	Multi-wire terminal (4 pieces)	19091
	Multi-wire terminal (3 pieces)	19096
	Al clamp 70 mm3	19095
	Screw connection for ring terminals	19093
	Connection for small ring terminals	19094

Auxiliary accessories for NG125L

Security

	Name		Nr ref.
	Clamping screw cover (10 pieces)	1P	19084
		2P	19085
		3P	19086
		4P	19087
	Switch terminal cover (1 top/1 bottom set) 1P		19080
		2P	19081
		3P	19082
		4P	19083
	RCD terminal cover (Set 1 upper/1 lower)	2P 63yA	19074
		3P 63A	19075
		3P adapted 63 A, 3P 125 A	19077
		4P 63yA	19076
		4P adapted 63 A, 4P 125 A	19078

Connection rails

	Name		Nr ref.
	Connection rails	1P, 16 27 mm modules	14811
		2P, 16 27 mm modules	14812
		3P, 15 27 mm modules	14813
		4P, 16 27 mm modules	14814
	Tooth guard	1P, 2P, 3P, 4P	14818

Notes

DC circuit breakers C60H-DC

Rated short-circuit breaking capacity: 10 kA (0.5–63 A) according to IEC/EN60947-2



C60H-DC circuit breakers are used in DC circuits (industrial control and automation, transport, renewable energy...).


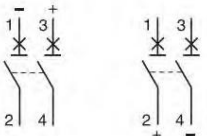

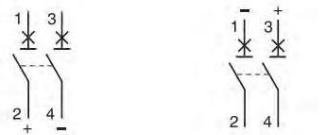
They fulfill the following functions:

- short circuit and overload protection of the circuit
- control and isolation disconnection





Alternating current (AC) 50/60 Hz							
Breaking current limit (Icu) according to IEC/EN 60947-2							Usable breaking current (Ics)
Type	Voltage (V)						
1P		110 V	220 V	250 V	440 V	500 V	
Rated current (In)	0.5 do 63 A 20 kA		10 kA	6 kA	-	-	75% Icu
2P (series)		110 V	220 V	250 V	440 V	500 V	
	0,5 do 63yA –		20 kA	20 kA	10 kA	6 kA	75% Icu

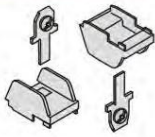



DC circuit breakers C60H-DC

Rated short-circuit breaking capacity: 10 kA (0.5–63 A) according to IEC/EN60947-2




C60H-DC circuit breakers			
	Rated current (In)	Type	Nr ref.
1P (module width 1 x 18 mm)   Power supply from top or bottom, taking into account polarity	0,5yA	C60H-DC-C0,5	A9N61500
	1yA	C60H-DC-C1	A9N61501
	2yA	C60H-DC-C2	A9N61502
	3yA	C60H-DC-C3	A9N61503
	4yA	C60H-DC-C4	A9N61504
	5yA	C60H-DC-C5	A9N61505
	6yA	C60H-DC-C6	A9N61506
	10yA	C60H-DC-C10	A9N61508
	13yA	C60H-DC-C13	A9N61509
	15yA	C60H-DC-C15	A9N61510
	16yA	C60H-DC-C16	A9N61511
	20yA	C60H-DC-C20	A9N61512
	25yA	C60H-DC-C25	A9N61513
	30yA	C60H-DC-C30	A9N61514
	32yA	C60H-DC-C32	A9N61515
	40yA	C60H-DC-C40	A9N61517
	50yA	C60H-DC-C50	A9N61518
	63yA	C60H-DC-C63	A9N61519
	2P (module width 2 x 18 mm)   Power supply from the bottom Power supply from the top	0,5yA	C60H-DC-C0,5-2
1yA		C60H-DC-C1-2	A9N61521
2yA		C60H-DC-C2-2	A9N61522
3yA		C60H-DC-C3-2	A9N61523
4yA		C60H-DC-C4-2	A9N61524
5yA		C60H-DC-C5-2	A9N61525
6yA		C60H-DC-C6-2	A9N61526
10yA		C60H-DC-C10-2	A9N61528
13yA		C60H-DC-C13-2	A9N61529
15yA		C60H-DC-C15-2	A9N61530
16yA		C60H-DC-C16-2	A9N61531
20yA		C60H-DC-C20-2	A9N61532
25yA		C60H-DC-C25-2	A9N61533
30yA		C60H-DC-C30-2	A9N61534
32yA		C60H-DC-C32-2	A9N61535
40yA		C60H-DC-C40-2	A9N61537
50yA		C60H-DC-C50-2	A9N61538
63yA		C60H-DC-C63-2	A9N61539



Auxiliary accessories for C60H-DC




Installing		
	Name	Nr ref.
	Screw cover	26981
	Terminal cover 1P	26975
	2P terminal cover	26976
	Interpolar septum	27001
	9 mm spacer	A9N27062

Installation		
	Name	Nr ref.
	Al clamp 50 mm2	27060
	Screw connection for ring terminals	27053
	Padlock device (lock in "open" state)	26970
	Extended drive knob	27047
	Fixed knob	27048
	Drive mechanism	27046
	Plug-in base	26996

Auxiliary accessories for C60H-DC

Joining				
	Name			Nr ref.
	Multi-wire clamp	4 pieces		19091
		3 pieces		19096
	Set of screw connections for terminals meshed Ø 5 mm (inlet/outlet)			17400




Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 –			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 –		A9XPH224 A9XPH257	

Accessories				
	Name			Nr ref.
	Side cover	1P		A9XPE110
		2P		A9XPE210
	Tooth guard			A9XPT920
	Connection terminal	Single		A9XPCM04
		Double		A9XPCD04

Auxiliary accessories for C60H-DC

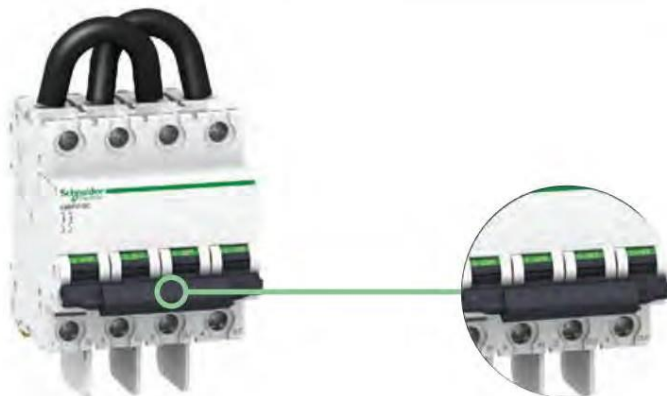
Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948

Auxiliary accessories for C60H-DC

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Fault signaling contacts	SD	24...415 V AC 24...130V DC	0,5	A9N26927
	Dual contacts open/closed and fault indication	OF+SD24	24V DC	0,5	A9N26899
	Auxiliary contacts open/closed OF		24...415 V AC 24...130 V DC	0,5	A9N26924
	Dual contacts open/closed or fault indication	OF+SD/OF	24...415 V AC 24...130 V DC	0,5	A9N26929

C60PV-DC DC circuit breakers for photovoltaic installations

Rated short-circuit
breaking capacity:
1,5 kA (1–25 A) wg IEC/EN60947-2



C60PV-DC is a DC switch designed for multi-panel photovoltaic installations. The C60PV-DC circuit breaker in combination with the switches in the junction box (e.g. C60NA-DC) should be installed at the end of each PV panel.

The switch disconnects the PV panel and protects it from reverse fault current (see diagram).

The switch can be padlocked in the "off" state to guarantee safety when removing the inverter (see support accessories for C60PV-DC).

If the fault current may flow in the opposite direction than in normal operation, the C60PV-DC circuit breaker can detect and protect against current flow in both directions.

The C60PV-DC circuit breaker is not polarity sensitive: the (+) and (–) wires can be swapped without risk.


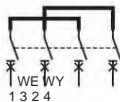
The C60PV-DC circuit breaker is supplied with three pole dividers increasing the insulating distance between two adjacent connections.





Basic information

Switching voltage (Ue)	800V DC
Rated insulation voltage (Ui)	1000V DC
Breaking current (Icu)	1.5 kA
Rated impulse withstand voltage (Uimp)	6kV
Joining	Entrance and exit from the top

C60PV-DC DC circuit breakers for photovoltaic installations

Rated short-circuit
breaking capacity:
1,5 kA (1–25 A) wg IEC/EN60947-2








C60PV-DC circuit breakers			
2P  (module width 4 x 18 mm) 	Rated current (In)	B Characteristics	
		Type	Nr ref.
	1yA	C60PV-DC-C1	A9N61653
	2yA	C60PV-DC-C2	A9N61654
	3yA	C60PV-DC-C3	A9N61655
	5yA	C60PV-DC-C5	A9N61656
	8yA	C60PV-DC-C8	A9N61657
	10yA	C60PV-DC-C10	A9N61650
	13yA	C60PV-DC-C13	A9N61658
	15yA	C60PV-DC-C15	A9N61659
	16yA	C60PV-DC-C16	A9N61651
	20yA	C60PV-DC-C20	A9N61652
	25yA	C60PV-DC-C25	A9N61660

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed OF		240...415 V AC, 24...130 V DC 0,5		A9N26924
	Fault signaling contacts	SD	240...415 V AC, 24...130 V DC 0,5		A9N26927
	Dual contacts open/closed or fault indication	OF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9N26929
	Dual contacts open/closed and fault indication	OF+SD24	24yV DC	0,5	A9N26897

Auxiliary accessories for C60PV-DC

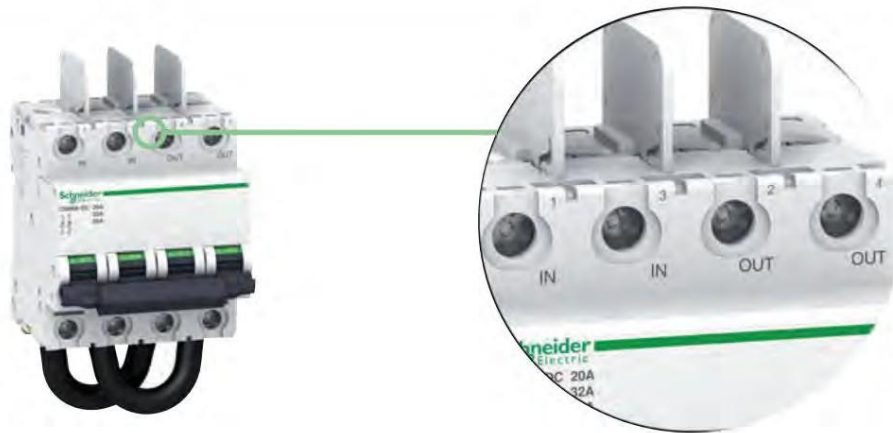
Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Voltage release	MSU	230 V AC	1	A9N26500
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948

Auxiliary accessories for C60PV-DC

Mounting accessories		
	Name	Nr ref.
	Al clamp 50 mm2	27060
	Screw connection for ring terminals	27053
	Multi-wire terminal	4 pieces 3 pieces
		19091 19096
Additional equipment		
	Name	Nr ref.
	Interpolar septum	27001
	Screw cover	26981
	Locking with a padlock (lock in the "open" position)	26970
	Spacer	27062

C60NA-DC DC switch for photovoltaic installations

Rated short-circuit
breaking capacity:
50kA wg IEC/EN60947-3



The C60NA-DC switch is designed for disconnection and control in photovoltaic installations with a V_{oc} voltage of up to 650 V DC. The C60NA-DC disconnecter in combination with a protective device (e.g. C60PV-DC) should be installed in a junction box (see diagram).

The disconnecter disconnects the PV panel in the junction box from the other panels, enabling panel maintenance and its protection (e.g. C60PV-DC or fuses).

The switch can be padlocked in the open state to guarantee operational safety.

In the event of a disturbance, current may flow in the opposite direction than during normal operation.

The C60NA-DC switch can switch with current flowing in both directions.

The C60NA-DC switch is not polarity sensitive: the (+) and (-) wires can be swapped without risk.






The C60NA-DC disconnecter is:

- compatible with C60 auxiliary equipment (MN, MX, OF, SD),
- supplied with three interpole partitions increasing the insulating distance between the two neighboring connections.





Basic information	
Switching voltage (Ue)	20A: 650V DC
	30A: 500V DC
	40A: 400V DC
	50A: 300V DC
Rated insulation voltage (Ui)	1000V DC
Switching current (Ie)	50kA
Rated impulse withstand voltage (Ump)	6kV
Joining	Entrance and exit from the top
Number of poles	2P
Number of modules 18 mm 4	
Schemes	
Norms	IEC 60947-3 EN 60947-3
Nr ref.	A9N61690
Joining	Entrance and exit from the top




Additional data			
Rated current (A)	Voltage drop (mV)	Impedance (m Ω)	Power loss (IN)
20kA	100	5,02	2
30kA	151	5,02	4,53
40kA	201	5,02	8,04
60kA	251	5,02	12,55

Auxiliary accessories for C60NA-DC





Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948

Auxiliary accessories for C60NA-DC

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Fault signaling contacts	SD	24...415 V AC 24...130V DC	0,5	A9N26927
	Dual contacts open/closed and fault indication	OF+SD24	24V DC	0,5	A9N26899
	Auxiliary contacts open/closed OF		24...415 V AC 24...130 V DC	0,5	A9N26924
	Dual contacts open/closed or fault indication	OF+SD/OF	24...415 V AC 24...130 V DC	0,5	A9N26929

Mounting accessories					
	Name				Nr ref.
	Al clamp 50 mm2				27060
	Screw connection for ring terminals				27053
	Multi-wire terminal		4 pieces 3 pieces		19091 19096

Auxiliary accessories for C60NA-DC

Additional equipment		
	Name	Nr ref.
	Interpolar septum	27001
	Screw cover	26981
	Locking with a padlock (lock in the "open" position)	26970
	Spacer	27062

SW60-DC DC switch for photovoltaic installations

Rated short-circuit
breaking capacity:
50kA wg IEC/EN60947-3



The SW60-DC switch is designed for disconnection and control in photovoltaic installations with a Voc voltage of up to 1000 V DC.

The SW60-DC disconnecter combined with a protective device (e.g. C60PV-DC) should be installed between the PV panels and the inverter (see diagram).

The disconnect switch disconnects the PV panel allowing safe maintenance of the inverter.

The switch can be padlocked in the open state to guarantee safety when replacing the inverter (see support accessories for SW60-DC).

The SW60-DC switch is polarity sensitive: the correct connection of the (+) and (-) cables must be observed.

The SW60-DC switch can be remotely triggered by the supplied MN or MX releases and is:

- compatible with the OF auxiliary equipment of C60 circuit breakers,
- supplied with three interpole partitions increasing the insulating distance between the two neighboring connections.






Basic information

Switching voltage (Ue)	1000V DC
Rated insulation voltage (Ui)	1000V DC
Switching current (Ie)	50kA
Rated impulse withstand voltage (Ump)	6kV
Joining	Entrance and exit from the top
Number of poles	2P
Number of modules 18 mm 4	
Schemes	
Norms	IEC 60947-3 EN 60947-3
Nr ref.	A9N61699





Additional data



Rated current (A)	Voltage drop (mV)	Impedance (mΩ)	Power loss (IN)
50kA	251	5,02	12,54

Auxiliary accessories for SW60-DC





Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948

Auxiliary accessories for SW60-DC

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Fault signaling contacts	SD	24...415 V AC 24...130V DC	0,5	A9N26927
	Dual contacts open/closed and fault indication	OF+SD24	24V DC	0,5	A9N26899
	Auxiliary contacts open/closed OF		24...415 V AC 24...130 V DC	0,5	A9N26924
	Dual contacts open/closed or fault indication	OF+SD/OF	24...415 V AC 24...130 V DC	0,5	A9N26929

Mounting accessories					
	Name				Nr ref.
	Al clamp 50 mm2				27060
	Screw connection for ring terminals				27053
	Multi-wire terminal		4 pieces 3 pieces		19091 19096

Auxiliary accessories for SW60-DC

Additional equipment		
	Name	Nr ref.
	Interpolar septum	27001
	Screw cover	26981
	Locking with a padlock (lock in the "open" position)	26970
	Spacer	27062



P25M circuit breakers protect single-phase and three-phase motors with manual local control.

Switches perform the following functions:

- isolating disconnection
- manual or remote control
- short-circuit protection (magnetic)
- overload (thermal) protection.

Breaking current according to IEC 60-947-2

Rated current (A)	Voltage (V)										
	230...240		400...415		440		500		690		
	Icu [kA]	Ics [%]	Icu [kA]	Ics [%]	Icu [kA]	Ics [%]	Icu [kA]	Ics [%]	Icu [kA]	Ics [%]	
0,16 do 1,6	Unlimited										
2,5	Unlimited									3	75
4	Unlimited									3	75
6,3	Unlimited				50	100	50	100	3	75	
10	Unlimited				15	100	10	100	3	75	
14	Unlimited		15	50	8	50	6	75	3	75	
18	Unlimited		15	50	8	50	6	75	3	75	
23	50	100	15	40	6	50	4	75	3	75	
25	50	100	15	40	6	50	4	75	3	75	

The limiter increases the breaking current to 100 kA at 415 V.


P25 switches



	Engine data						P25 switches			
	Standardized power [kW] of three-phase 50/60 Hz motors in the AC3 category						Rated current In [A]	Setting up	Module width 18 mm	Nr ref.
	Voltage V AC									
	230	400	415	440	500	690				
0,16								0,1-0,16	2,5	21100
0,25								0,16-0,25	2,5	21101
-							0,4	0,25-0,4	2,5	21102
-						0,37	0,63	0,4-0,63	2,5	21103
-				0,37	0,37	0,55	1	0,63-1	2,5	21104
-		0,37		0,55	0,75	1,1	1,6	1-1,6	2,5	21105
0,37	0,75	1,1	1,1	1,1	1,1	1,5	2,5	1,6-2,5	2,5	21106
0,75	1,5	1,5	1,5	2,2	3	4	4	2,5-4	2,5	21107
1,1	2,2	2,2	3	3,7	4	6,3	6,3	4-6,3	2,5	21108
2,2	4	4	4	5,5	7,5	10	10	6-10	2,5	21109
3	5,5	5,5	7,5	9	11	14	14	9-14	2,5	21110
4	7,5	9	9	10	15	18	18	13-18	2,5	21111
5,5	9	11	11	11	18,5	23	23	17-23	2,5	21112
5,5	11	11	11	15	22	25	25	20-25	2,5	21113



3P



Auxiliary accessories for P25M

Stop			
	Rated current I _n [A]	Module width 18 mm	Nr ref.
3P 	63	2,5	21115

Triggers					
	Name and function	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 380...415 V AC	1	21127 21128
	– emergency shutdown with a normally open button – triggered by a cooperating device				
	Growth trigger	MX	220...240 V AC 380...415 V AC	1	21129 21130
	Emergency stop with normally closed button – ensuring the safety of machine power circuits by preventing unexpected restarts				
	– triggering the circuit breaker with which it is connected when the supply voltage decreases (between 70% and 35% U _n) – preventing the device circuit from closing until the power supply returns				

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Status signaling contacts	O+F F+F	240...415 V AC, 24...130 V DC 0,5		21117 21116
	Status and trip signaling contacts F+SD.F				
		O+SD.F F+SD.O O+SD.O	24V DC	0,5	21118 21119 21120 21121

"O": normally open contact
 "F": normally closed contact
 SD: contact indicating the status of the combined device in the event of an electrical disturbance
 SD.F: fault indication with closed contact
 SD.O: fault indication with open contact

iC60LMA instantaneous circuit breakers

Rated short-circuit breaking capacity:
 20 kA (1,6–16 A)
 A) 15 kA (25–40 A) wg IEC/EN60947-2





- iC60L circuit breakers with MA characteristics perform the following functions:
- circuit short circuit protection,
 - isolating disconnection in accordance with the requirements of the IEC/EN 60947-2 standard,
 - fault indication with a red indicator on the front of the switch,
 - combined with motor overload protection.




Alternating current (AC) 50/60 Hz				
Breaking current limit (Icu) according to IEC/EN 60947-2				Usable breaking current (Ics)
Voltage (Ue)				
Phase/phase (2P, 3P)	220 do 240V	380 do 415V	440 V	
Rated current (In)	1,6 do 16 A 40 kA	20 kA	15 kA	50% Icu
	25 do 40 A 30 kA	15 kA	10 kA	50% Icu

iC60LMA instantaneous circuit breakers





Rated short-circuit breaking capacity:
 20 kA (1,6–16
 A) 15 kA (25–40 A) wg IEC/EN60947-2


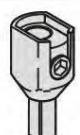


iC60LMA circuit breakers			
	Rated current (In)	Characteristics of MA	
		Type	Nr ref.
2P (module width 2 x 18 mm) 	1,6ÿA	iC60L-MA1.6-2	A9F90272
	2,5ÿA	iC60L-MA2,5-2	A9F90273
	4ÿA	iC60L-MA4-2	A9F90204
	6,3ÿA	iC60L-MA6,3-2	A9F90276
	10ÿA	iC60L-MA10-2	A9F90210
	12,5ÿA	iC60L-MA12,5-2	A9F90282
	16ÿA	iC60L-MA16-2	A9F90216
	25ÿA	iC60L-MA25-2	A9F90225
	40ÿA	iC60L-MA40-2	A9F90240
	3P (module width 3 x 18 mm) 	1,6ÿA	iC60L-MA1.6-3
2,5ÿA		iC60L-MA2,5-3	A9F90373
4ÿA		iC60L-MA4-3	A9F90304
6,3ÿA		iC60L-MA6,3-3	A9F90376
10ÿA		iC60L-MA10-3	A9F90310
12,5ÿA		iC60L-MA12,5-3	A9F90382
16ÿA		iC60L-MA16-3	A9F90316
25ÿA		iC60L-MA25-3	A9F90325
40ÿA		iC60L-MA40-3	A9F90340

Auxiliary accessories for iC60LMA










Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	1	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	1	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	1	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9A26946 A9A26947 A9A26948




Auxiliary accessories for iC60LMA

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC 0,5		A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC 0,5		A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24V DC	0,5	A9A26897








Connection accessories					
	Name				Nr ref.
	Distribloc distribution blocks	Exits to the top Exits to the bottom			04040 04041
	Al clamp 50 mm ²				27060
	Screw connection for ring terminals				27053
	Multi-wire terminal				19091

Auxiliary accessories for iC60LMA

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 –			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 –		A9XPH224 A9XPH257	
	3P	L1L2L3...	-	A9XPH312 –		A9XPH324 A9XPH357	
	4P	NL1L2L3...	-	A9XPH412 –		A9XPH424 A9XPH457	
	3 (N+P)	NL1NL2NL3... –		A9XPH512 A9XPH518 A9XPH524 A9XPH557			
	Aux+1P	AuxL1...	-	-	-	-	A9XAH157
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+3P	AuxL1L2L3... –					A9XAH357
	Aux+4P	AuxNL1L2L3... –					A9XAH457

Accessories			
	Name		Nr ref.
	Side cover	1P	A9XPE110
		2P	A9XPE210
		3P	A9XPE310
		4P	A9XPE410
	Tooth guard		A9XPT920
	Connection terminal	Single	A9XPCM04
		Double	A9XPCD04

Auxiliary accessories for iC60LMA

Mounting accessories		
	Name	Nr ref.
	Sealable covers for upper and lower terminals 1P (2 pieces) Sealable covers for upper and lower terminals 2P (2 pieces)	A9A26975 A9A26976
	Interpole partition (10 pieces)	27001
	Screw cover (20 pieces)	A9A26981
	9 mm spacer	A9A27062
	Padlock device (10 pieces)	A9A26970
	Plug-in base	A9A27003
	Rotary drive: with black knob with red knob drive assembly without knob	A9A27005 A9A27006 A9A27008

Switches NG125LMA

Rated short-circuit breaking capacity: 50 kA (4–80 A) according to IEC/EN60947-2

Cable attachment:

- serrated socket
- deep socket
- hexagonal tightening
Allen key (NG125 80 A)

Voltage taps:

- power supply for auxiliary circuits
- measurements
- emergency shutdown
- remote signaling

3P, 4P

- built-in padlock device

Button to test the correct operation of the mechanism liberating

1P, 2P

- locking with a padlock in position O or I, manual control is disabled, tripping is possible

Unlocking the mount:

- metal lock

Three-position hand drive lever

- ON
- tripping after disturbance
- open

Impact and vibration resistance:

- high-strength housing
- IK 05

Circuit breaker trip indicator

Contact status indicator:

- isolating disconnection in accordance with the requirements of the IEC/EN 60947-2 standard
- a visible green strip guarantees physical opening of the contacts and allows you to make changes activities in the drain circuit in complete safety

Power supply from the top or bottom

Extended service life is ensured by:



- high overvoltage resistance,
- high current limiting capacity,
- quick closing independent of the speed of operating the drive lever.

Alternating current (AC) 50/60 Hz




Breaking current limit (Icu) according to IEC/EN 60947-2						
Type	Voltage (Ue)					Operating breaking current (Ics)
Phase/phase (2P, 3P)	220 do 240V	380 do 415V	440 V	500 V		
Rated current (In) (triggers)	4 do 80A	100 kA	50 kA	40 kA	15 kA	75% Icu

Switches NG125LMA

Rated short-circuit breaking capacity: 50 kA (4–80 A) according to IEC/EN60947-2


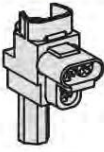
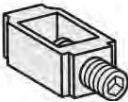
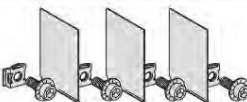

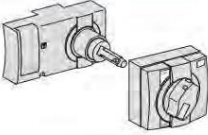
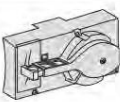


NG125LMA circuit breakers			
	Rated current (In)	Characteristics of MA	
		Type	Nr ref.
2P (module width 3 x 18 mm) 	4yA	NG125LMA-MA4-2	18868
	6,3yA	NG125LMA-MA6,3-2	18869
	10yA	NG125LMA-MA10-2	18870
	12,5yA	NG125LMA-MA12,5-2	18871
	16yA	NG125LMA-MA16-2	18872
	25yA	NG125LMA-MA25-2	18873
	40yA	NG125LMA-MA40-2	18874
	63yA	NG125LMA-MA63-2	18875
	80yA	NG125LMA-MA80-2	18876
	3P (module width 4.5 x 18 mm) 	4yA	NG125LMA-MA4-3
6,3yA		NG125LMA-MA6,3-3	18880
10yA		NG125LMA-MA10-3	18881
12,5yA		NG125LMA-MA12,5-3	18882
16yA		NG125LMA-MA16-3	18883
25yA		NG125LMA-MA25-3	18884
40yA		NG125LMA-MA40-3	18885
63yA		NG125LMA-MA63-3	18886
80yA		NG125LMA-MA80-3	18887

Auxiliary accessories for NG125LMA

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	230...240 V AC	1	19067
			48 V AC	1	19069
			48V DC	1	19070
	Undervoltage release independent of supply voltage	MNx	220...240 V AC	2	19061
	Growth trigger	MX+OF	230...415 V AC 110...130 V DC 1		19064
			48...130 V AC 48 V DC	1	19065
			24 V AC 24 V DC	1	19066
			12 V AC 12 V DC	1	19063

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	auxiliary contacts	OF+OF	220...240 V AC	0,5	19071
	Fault signaling contacts	OF+SD	220...240 V AC	0,5	19072

Auxiliary accessories for NG125LMA

Joining		
	Name	Nr ref.
	Multi-wire terminal (4 pieces)	19091
	Multi-wire terminal (3 pieces)	19096
	Al clamp 70 mm3	19095
	Screw connection for ring terminals	19093
	Connection for small ring terminals	19094
Installing		
	Name	Nr ref.
	Standard extended rotary drive, black	19088
	Safe extended rotary drive	19089
	Standard direct rotary drive	19092
	Extended safety red knob and yellow front cover	19097
	White drive lever	19099
	Padlock locking device	19090

Auxiliary accessories for NG125LMA

Security

	Name		Nr ref.	
	Clamping screw cover (10 pieces)	1P	19084	
		2P	19085	
		3P	19086	
		4P	19087	
	Switch terminal cover (set 1 upper/1 lower) 1P		19080	
		2P	19081	
		3P	19082	
		4P	19083	
		RCD terminal cover (set 1 upper/1 lower)	2P 63yA	19074
			3P 63A	19075
			3P adapted 63 A, 3P 125 A	19077
4P 63yA	19076			
	4P adapted 63 A, 4P 125 A	19078		

Connection rails

	Name		Nr ref.
	Connection rails	1P, 16 27 mm modules	14811
		2P, 16 27 mm modules	14812
		3P, 15 27 mm modules	14813
		4P, 16 27 mm modules	14814
	Tooth guard	1P, 2P, 3P, 4P	14818

Notes

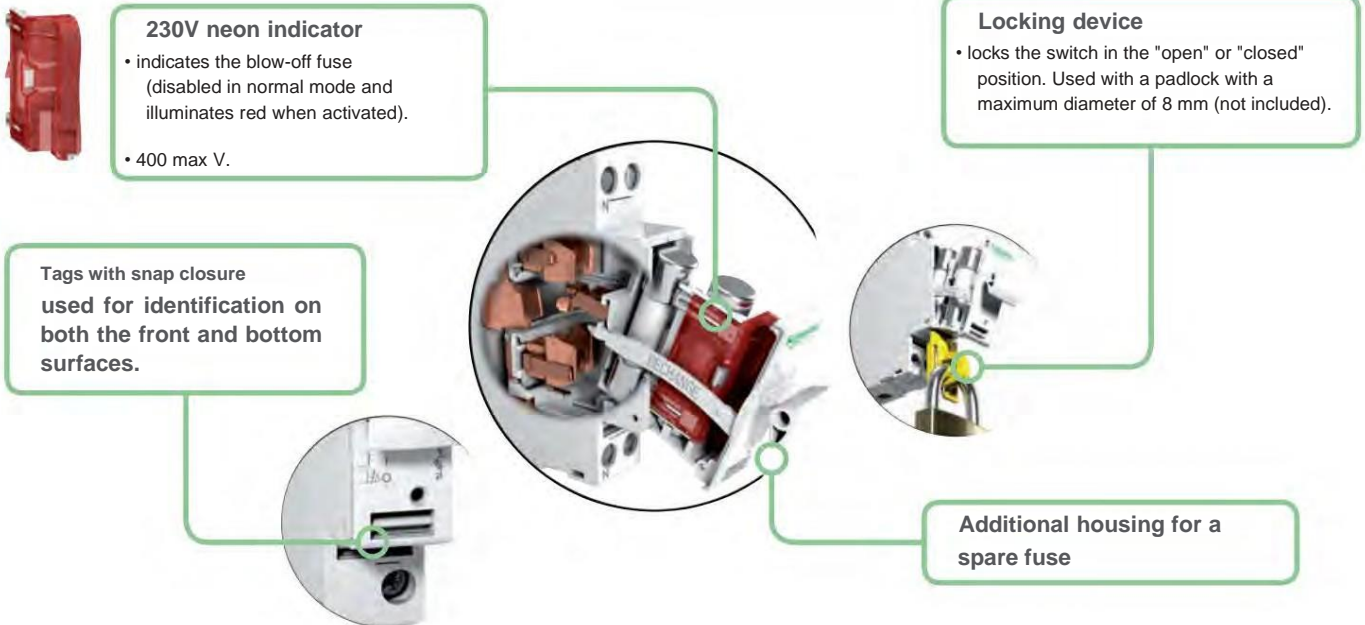
Fuse bases STI

IEC EN 60947-3

Fuse inserts

NF C 60-200, NF C 63-210, IEC 60269-1/2

Short-circuit strength of the fuse base: 8 kA



- The disconnect fuse base is used as overload and short-circuit protection.
- It is used in industrial installations requiring high breaking capacity.
- Functions as an isolating switch but must not be used as a disconnecter.
- It can be equipped with a light indicating that the insert has burned out.
- Disconnection is ensured in all poles of the 2P, 3P and 3P+N bases in the factory setting.
- The gG general purpose fuse is used as overload and short circuit protection. It is used to protect loads with high instantaneous current (motors, primary side of transformers, etc.).

Basic information

Rated insulation voltage (Ui)	690 V
Degree of pollution	3

Specific information

Level of security	Just the base	IP20
	Base in modular cover	IP40 Class II insulation
Working temperature	-20°C do +60°C	
Storage temperature	-40°C do +80°C	
Insulating disconnection with signaling of effective disconnection (by tilting the fuse holder)	Swiveling fuse holder	
	Additional space for spare fuses	
Insert burnout indication (option)	By illuminating the warning light after burnout	

Equipped with aM or gG (gL-gI) fuse inserts without striker, with or without fuse blown indicator:

Fuse type		Ith	Pmax 1)
8,5 x 31ÿmm	aM	10ÿA	3 W
	gG	20ÿA	3 W
10,3 x 38ÿmm	aM	25ÿA	3.5 W
	gG	32ÿA	3.5 W

1) Pmax: maximum power dissipated in the fuse link.

Individual data STI 1P+N and 3P+N

Disconnecting the phase and neutral pole in a 1P base (1 18 mm module):

- Opening the phase pole forces the opening of the neutral pole.
- The phase pole opens before the neutral pole opens and closes after the neutral pole closes.







Fuse bases STI

IEC EN 60947-3

Fuse inserts





NF C 60-200, NF C 63-210, IEC 60269-1/2





Short-circuit strength of the fuse base: 8 kA

	Fuse insert				Fuse base						
	Rating current	Voltage of birthmarks. (Ue)	Short-circuit current (Isc)		Nr ref.		1P	1P+N*	2P	3P	3P+N*
			aM	gG	aM	gG					
							 	 	 		
8,5 x 31,5mm 2ÿA	400 V AC 20	kA 20 kA	DF2BA0200	DF2BN0200	A9N15635	A9N15645	A9N15650	A9N15655			A9N15657
4ÿA	400 V AC 20	kA 20 kA	DF2BA0400	DF2BN0400							
6ÿA	400 V AC 20	kA 20 kA	DF2BA0600	DF2BN0600							
8ÿA	400 V AC 20	kA 20 kA	DF2BA0800	DF2BN0800							
10ÿA	400 V AC 20	kA 20 kA	DF2BA1000	DF2BN1000							
10,3 x 38ÿmm 2ÿA	500V AC 120	kA 120 kA	DF2CA02	DF2CN02	A9N15636	A9N15646	A9N15651	A9N15656			A9N15658
4ÿA	500 V AC 120	kA 120 kA	DF2CA04	DF2CN04							
6ÿA	500 V AC 120	kA 120 kA	DF2CA06	DF2CN06							
10ÿA	500 V AC 120	kA 120 kA	DF2CA10	DF2CN10							
16ÿA	500 V AC 120	kA 120 kA	DF2CA16	DF2CN16							
20ÿA	500 V AC 120	kA 120 kA	DF2CA20	DF2CN20							
25ÿA	400 V AC 120	kA 120 kA	DF2CA25	DF2CN25							
32ÿA	400V AC 120	kA 120 kA	DF2CA32	DF2CN32							

* The base is supplied with a jumper in the neutral pole.

Auxiliary accessories for STI

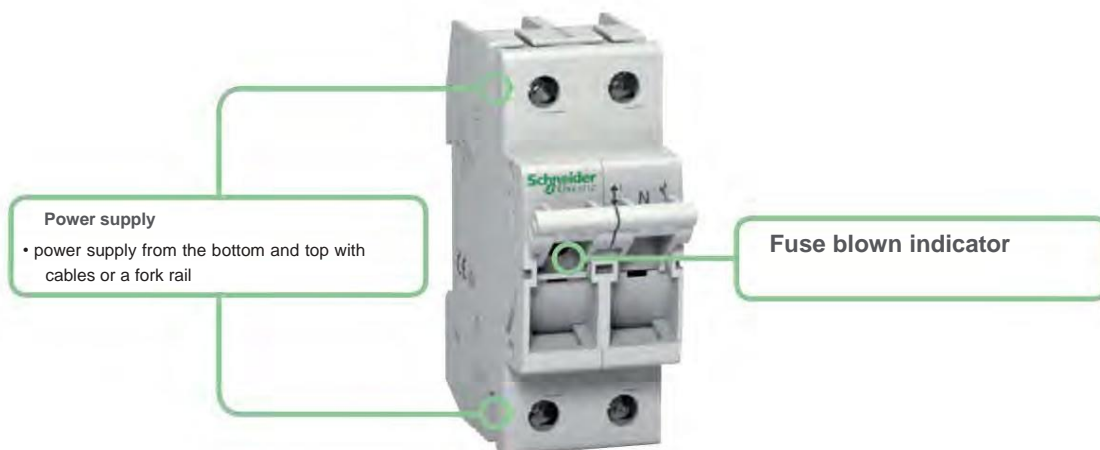
Accessories			Nr ref.
	Name		
	Screw clamp for ring terminal		27053
	Neon signal lamp		15668
	Device lock		15669
	Connection terminal (4 pcs)		A9XPCM04
	Set of rail ends (40 pcs.)	1P, 2P	A9XPE110
		3P	A9XPE310
		4P	A9XPE410
	Set of covers for unused drains - tooth cover (40 pcs.)		A9XPT920

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 -			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 -		A9XPH224 A9XPH257	
	3P	L1L2L3...	-	A9XPH312 -		A9XPH324 A9XPH357	
	4P	NL1L2L3...	-	A9XPH412 -		A9XPH424 A9XPH457	

Notes

D02 fuse switches

IEC/EN60947-1, IEC/EN 60947-3, IEC 60269-1, IEC 60269-3, VDE 0660-100, VDE 0660-107



Switch disconnectors with D0 fuses provide protection against overloads and short circuits.

- For use in the service and industrial sectors.

D02: Calibration insert

- Allows you to fit fuse inserts from 20 A to 50 A.

Basic information


Rated voltage (Ue)	230/400V AC 110V DC (2P)	
Frequency (Hz)	45–62Hz	
Breaking capacity (Isc)	AC	50 kA
	DC	8 kA
Rated insulation voltage (Ui)	400 V	
Rated impulse withstand voltage (Uimp)	6000 V	
Use category (IEC 60947-3)	400 V AC	AC-22A (63 A) AC-23A (35 A)
	110V DC (2P)	DC-22B (63A)
	48V DC (1P)	DC-22A (63A)
Durability (OC)	Electric	1500 cycles
	Mechanical	8500 cycles

Specific information

Level of security	The device itself	IP20
	Device in a modular housing	IP40
Working temperature	–5°C do +40°C	
Storage temperature	–25°C do +55°C	


D02 fuse switches

IEC/EN60947-1, IEC/EN 60947-3, IEC 60269-1, IEC 60269-3, VDE 0660-100, VDE 0660-107

D02 fuse switches (supplied without fuses)				
	Rated current (In)	Type	Module width 18 mm	Nr ref.
	1P			
	63yA	D02-63-1	1,5	MGN02163
	1P+N			
	63yA	D02-63-1N	3	MGN02663
	2P			
	63yA	D02-63-2	3	MGN02263
3P				
63yA	D02-63-3	4,5	MGN02363	
3P+N				
63yA	D02-63-3N	6	MGN02763	

Accessories for D02 disconnectors

D02 indicators enabling limiting the fuse link range from 20 A to 50 A

Calibration inserts (set of 15)			
	Range	Color	Nr ref.
	20yA	Blue	MGN09120
	25yA	Yellow	MGN09125
	32-35-40yA	Black	MGN09135
	50yA	White	MGN09150

SBI



- SBI fuse bases provide overload and short-circuit protection.
- They are used in industrial construction where high breaking capacity is required.
- They provide a safe isolating break but must not be used as a disconnect switch.
- They are equipped with a light indicating that the fuse has blown.
- They can accommodate aM or gG (gL-gl) fuse inserts without a striker.

The basic function of fuses (gG fuses) is overload and short-circuit protection.

Fuses for motor circuits (AM fuses) only provide short-circuit protection.

They are used to protect circuits with high instantaneous currents (motors, primary sides of transformers, etc.).

Basic information

Insulation voltage (Ui)	690 V
Usage category	AC20B insulation, switching the drawer, cannot work under load

Specific information



















Level of security	The device itself	IP20
	Devices in a housing	IP40
Working temperature	-20°C do +60°C	
Use temperature	-40°C do +80°C	
Exhaust fuse signaling	By indicator light (neon)	

Operating frequency: 50/60 Hz

Maximum permissible features of fuse inserts:

Fuse type		Ith	Pmax 1)
14 x 51ÿmm	aM	50ÿA	3 W
	gG	50ÿA	5 W
22 x 58ÿmm	aM	125ÿA	9.5W
	gG	100ÿA	9.5W

1) Pmax: maximum power dissipated in the fuse link.

Fuse insert					Fuse base					
I know the current	Voltage of birthmarks. (Ue)	Short-circuit current (Isc)	Ref. no. insoles		N	1P	1P+N*	2P	3P	3P+N*
		aM gG aM		gG						
14 x 51mm	10yA 690yV AC –	80 kA –		DF2EN10	MGN15708	MGN15707	MGN15709	MGN15710	MGN15711	MGN15712
	16 A 690 V AC –	80 kA –		DF2EN16	Reg. mode. wed. mode. wed. mode. wed. mode.				wed. mode.	wed. mode.
	25 A 690 V AC 120 kA –		DF2EA25		1,5 x 18ymm	1,5 x 18ymm	3 x 18ymm	3 x 18ymm	4,5 x 18ymm	6 x 18ymm
	32 A 500 V AC 120 kA	120 kA	DF2EA32	DF2EN32						
	40 A 500 V AC 120 kA	120 kA	DF2EA40	DF2EN40						
	50 A 400 V AC 120 kA –			DF2EA50						
22 x 58mm	32yA 690yV AC –	80 kA –		DF2FN32	MGN15714	MGN15713	MGN15715	MGN15716	MGN15717	MGN15718
	40 A 690 V AC 80 kA	80 kA	DF2FA40	DF2FN40	Reg. mode. wed. mode. wed. mode. wed. mode.				wed. mode.	wed. mode.
	50 A 690 V AC 80 kA	80 kA	DF2FA50	DF2FN50	2 x 18 mm 2 x 18 mm				4 x 18 mm	4 x 18 mm
	63 A 690 V AC 80 kA	80 kA	DF2FA63	DF2FN63					6 x 18ymm	8 x 18ymm
	80 A 690 V AC 80 kA	80 kA	DF2FA80	DF2FN80						
	100 A 500 V AC 120 kA –			DF2FA100						

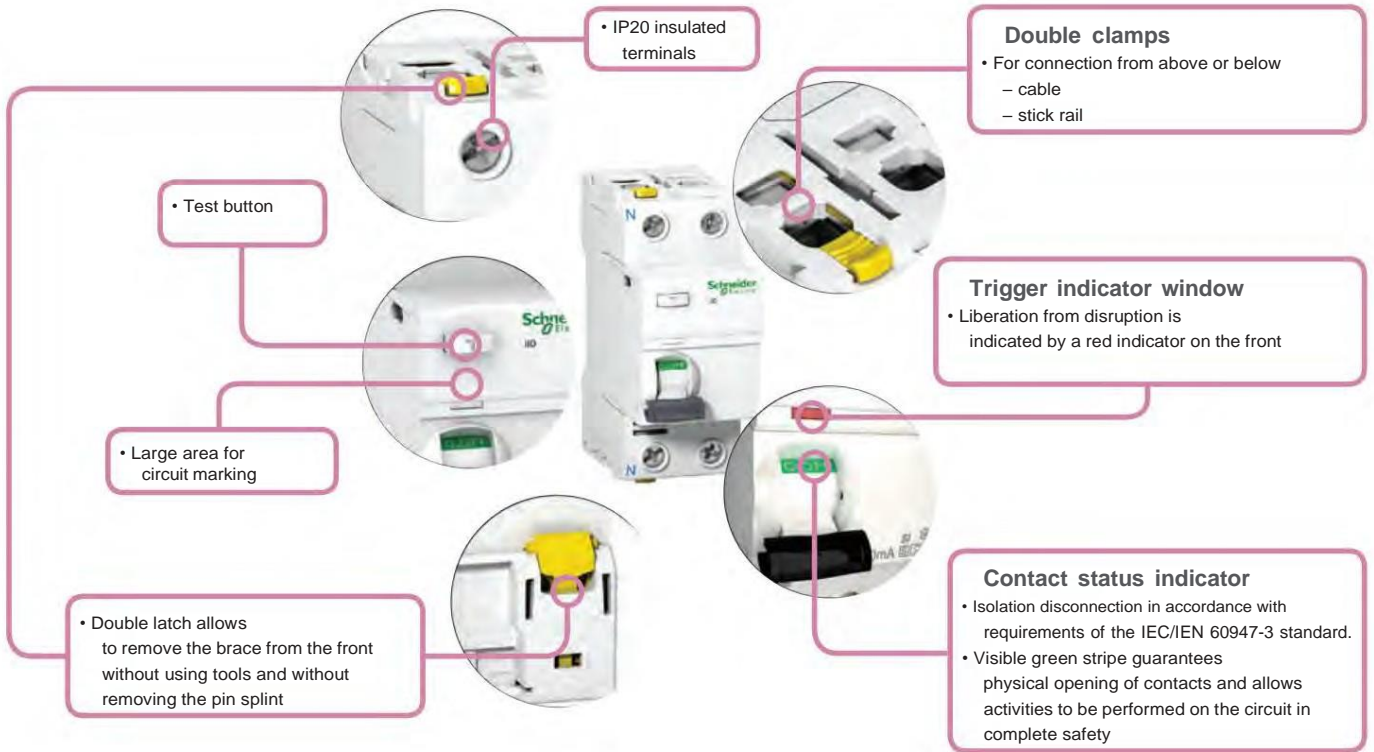
Note: Replacing the fuse insert in Pragma and Prisma switchboards is only possible after removing the cover.

*The neutral pole is equipped with a pipe connector.

Withdrawn reference Multi 9	Replacement for Acti 9	Withdrawn reference Multi 9	Replacement for Acti 9
aM		gG	
15762	DF2EA25	15787	DF2EN10
15763	DF2EA32	15788	DF2EN16
15764	DF2EA40	15791	DF2EN32
15765	DF2EA50	15792	DF2EN40
15751	DF2FA40	15794	DF2FN32
15752	DF2FA50	15795	DF2FN40
15753	DF2FA63	15796	DF2FN50
15754	DF2FA80	15797	DF2FN63
15755	DF2FA100	15798	DF2FN80

Note: The Multi 9 series references were packed in 10 pieces, replacements are ordered individually.

iID residual current circuit breakers with double terminals



iID residual current circuit breakers with double sleeve terminals provide:

- protection against direct contact shock (\ddot{y} 30 mA),
- protection against electric shock due to indirect contact (\ddot{y} 100 mA),
- protection of the installation against the possibility of fire (300 mA or 500 mA).

SI type circuit breakers provide a higher level of protection against electrical disturbances in polluted and corrosive environments.

Basic information			
According to IEC/EN 60947-2			
Rated insulation voltage (Ui)		500 V	
Degree of pollution		3	
Rated impulse withstand voltage (Uimp)		6 kV	
According to IEC/EN 61008-1			
Making and breaking current (Im/I _m)		1500ÿA	
Surge current withstand without tripping (8/20 ÿs)	Type AC and A (not selective S) <input checked="" type="checkbox"/>	250ÿA	
	Type AC, A (selective S) <input type="checkbox"/>	3 kA	
	Type SI	3 kA	
Rated conditional breaking current (Inc/I _{nc})	With iC60N/H/L switch	Equal to the breaking current iC60	
	With fuses	10 000ÿA	
Additional data			
Level of security	The device itself	IP20	
	Device in a modular housing	IP40 Class II insulation	
Durability (OC)	Electric (AC1)	16 do 63ÿA	15,000 cycles
		80 do 100ÿA	10,000 cycles
	Mechanical		20,000 cycles
Working temperature	AC type	-5°C do +60°C	
	Type A and SI	-25°C do +60°C	
Storage temperature		-40°C do +85°C	

iID residual current circuit breakers with double terminals

iID circuit breakers types AC, A and SI							
Sensitivity	I know the current. (In)	AC type		Type A		Type SI	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
2P (module width 2 x 18 mm) 10 mA	16yA	-	-	ID-A10-16-2	A9Z20225	-	-
	25yA	iID-AC10-25-2	A9Z10225	iID-A10-25-2	A9Z20225	iID-SI10-25-2	A9Z30225
30 mA	25yA	ID-AC30-25-2	A9Z11225	iID-A30-25-2	A9Z21225	iID-SI30-25-2	A9Z31225
	40yA	ID-AC30-40-2	A9Z11240	iID-A30-40-2	A9Z21240	iID-SI30-40-2	A9Z31240
	63yA	ID-AC30-63-2	A9Z11263	iID-A30-63-2	A9Z21263	iID-SI30-63-2	A9Z31263
	80yA	ID-AC30-80-2	A9Z11280	iID-A30-80-2	A9Z21280	iID-SI30-80-2	A9Z31280
	100yA	iID-AC30-100-2	A9Z11291	iID-A30-100-2	A9Z21291	-	-
30 mA type G 40 A	63yA	iID-AC30G-40-2	A9Z76240	-	-	-	-
	63yA	iID-AC30G-63-2	A9Z76263	-	-	-	-
	100yA	-	-	-	-	ID-SI30-100-2	A9Z31291
100 mA	40yA	iID-AC100-40-2	A9Z12240	iID-A100-40-2	A9Z22240	iID-SI100-40-2	A9Z32240
	63yA	iID-AC100-63-2	A9Z12263	iID-A100-63-2	A9Z22263	iID-SI100-63-2	A9Z32263
	80yA	iID-AC100-80-2	A9Z12280	iID-A100-80-2	A9Z22280	iID-SI100-80-2	A9Z32280
	100yA	iID-AC100-100-2	A9Z12291	iID-A100-100-2	A9Z22291	iID-SI100-100-2	A9Z32291
100 mA type G 40 A	63yA	iID-AC100G-40-2	A9Z77240	-	-	-	-
	63yA	iID-AC100G-63-2	A9Z77263	-	-	-	-
300 mA	25yA	iID-AC300-25-2	A9Z14225	iID-A300-25-2	A9Z24225	-	-
	40yA	iID-AC300-40-2	A9Z14240	iID-A300-40-2	A9Z24240	-	-
	63yA	iID-AC300-63-2	A9Z14263	iID-A300-63-2	A9Z24263	-	-
	80yA	iID-AC300-80-2	A9Z14280	iID-A300-80-2	A9Z24280	-	-
	100yA	iID-AC300-100-2	A9Z14291	iID-A300-100-2	A9Z24291	-	-
300mA S □	40yA	iID-AC300S-40-2	A9Z15240	iID-A300S-40-2	A9Z25240	iID-SI300S-40-2	A9Z35240
	63yA	iID-AC300S-63-2	A9Z15263	iID-A300S-63-2	A9Z25263	iID-SI300S-63-2	A9Z35263
	80yA	iID-AC300S-80-2	A9Z15280	iID-A300S-80-2	A9Z25280	iID-SI300S-80-2	A9Z35280
	100yA	iID-AC300S-100-2	A9Z15291	iID-A300S-100-2	A9Z25291	iID-SI300S-100-2	A9Z35291

Type G – short delay






iID residual current circuit breakers with double terminals

iID circuit breakers types AC, A and SI									
	Sensitivity	I know the current (In)	AC type		Type A		Type SI		
			Type	Nr ref.	Type	Nr ref.	Type	Nr ref.	
4P (module width 4 x 18 mm) 30 mA 	30 mA	type G	25yA iID-AC30-25-4	A9Z11425 iID-A30-25-4	A9Z21425 iID-SI30-25-4	A9Z31425			
			40yA iID-AC30-40-4	A9Z11440 iID-A30-40-4	A9Z21440 iID-SI30-40-4	A9Z31440			
			63yA iID-AC30-63-4	A9Z11463 iID-A30-63-4	A9Z21463 iID-SI30-63-4	A9Z31463			
			80yA iID-AC30-80-4	A9Z11480 iID-A30-80-4	A9Z21480 iID-SI30-80-4	A9Z31480			
			100yA iID-AC30-100-4	A9Z11491 iID-A30-100-4	A9Z21491 iID-SI30-100-4	A9Z31491			
			80yA iID-AC30G-80-4	A9Z76480 iID-A30G-80-4	A9Z86480	-			
			100yA iID-AC30G-100-4	A9Z76491 iID-A30G-100-4	A9Z86491	-			
			100 mA	40yA iID-AC100-40-4	A9Z12440 iID-A100-40-4	A9Z22440	-		
				63yA iID-AC100-63-4	A9Z12463 iID-A100-63-4	A9Z22463	-		
				80yA iID-AC100-80-4	A9Z12480 iID-A100-80-4	A9Z22480	-		
				100yA iID-AC100-100-4	A9Z12491 iID-A100-100-4	A9Z22491	-		
				80A iID-AC100G-80-4	A9Z77480	-	-		
	100yA iID-AC100G-100-4	A9Z77491		-	-				
	300 mA	type G	25yA iID-AC300-25-4	A9Z14425 iID-A300-25-4	A9Z24425	-			
			40yA iID-AC300-40-4	A9Z14440 iID-A300-40-4	A9Z24440	-			
			63yA iID-AC300-63-4	A9Z14463 iID-A300-63-4	A9Z24463	-			
			80yA iID-AC300-80-4	A9Z14480 iID-A300-80-4	A9Z24480	-			
			100yA iID-AC300-100-4	A9Z14491 iID-A300-100-4	A9Z24491	-			
			300yA iID-AC300S-40-4	A9Z15440 iID-A300S-40-4	A9Z25440 iID-SI300S-40-4	A9Z35440			
		type G	63yA iID-AC300S-63-4	A9Z15463 iID-A300S-63-4	A9Z25463 iID-SI300S-63-4	A9Z35463			
			80yA iID-AC300S-80-4	A9Z15480 iID-A300S-80-4	A9Z25480 iID-SI300S-80-4	A9Z35480			
			100yA iID-AC300S-100-4	A9Z15491 iID-A300S-100-4	A9Z25491 iID-SI300S-100-4	A9Z35491			
			25yA	-	iID-A500-25-4	A9Z26425	-		
			40yA	-	iID-A500-40-4	A9Z26440	-		
63yA			-	iID-A500-63-4	A9Z26463	-			
4P type THV (module width 4 x 18 mm) 30 mA 	30 mA	type G	40yA iID-AC30-40-4THV A9Z71440 iID-A30-40-4THV A9Z81440	-					
			63yA iID-AC30-63-4THV A9Z71463 iID-A30-63-4THV A9Z81463	-					
			40yA iID-AC30G-40-4THV A9Z78440 iID-A30G-40-4THV A9Z88440	-					
			63yA iID-AC30G-63-4THV A9Z78463 iID-A30G-63-4THV A9Z88463	-					
			40yA iID-AC100-40-4THV A9Z72440 iID-A100-40-4THV A9Z82440	-					
			63yA iID-AC100-63-4THV A9Z72463 iID-A100-63-4THV A9Z82463	-					
	100 mA	type G	40yA iID-AC100S-40-4THV A9Z73440 iID-A100S-40-4THV A9Z83440 iID-SI100S-40-4THV A9Z93440						
			63yA iID-AC100S-63-4THV A9Z73463 iID-A100S-63-4THV A9Z83463 iID-SI100S-63-4THV A9Z93463						
			40yA iID-AC100G-40-4THV A9Z79440 iID-A100G-40-4THV A9Z89440	-					
			63yA iID-AC100G-63-4THV A9Z79463 iID-A100G-63-4THV A9Z89463	-					
			40yA iID-AC300-40-4THV A9Z74440	-					
			63yA iID-AC300-63-4THV A9Z74463	-					
300yA	type G	40yA iID-AC300S-40-4THV A9Z75440	-			iID-SI100G-40-4THV A9Z95440			
		63yA iID-AC300S-63-4THV A9Z75463	-			iID-SI100G-63-4THV A9Z95463			





Type G – short delay





iLD residual current circuit breakers with double terminals

IEC/EN 61008-1





Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	,	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	,	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	,	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	,	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	,	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	,	A9A26946 A9A26947 A9A26948




Auxiliary accessories for iID

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC 0,5		A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC 0,5		A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24V DC	0,5	A9A26897








Connection accessories					
	Name	Nr ref.			
	Distribloc distribution blocks Exits to the top Exits to the bottom	04040 04041			
	Al clamp 50 mm ²	27060			
	Screw connection for ring terminals	27053			
	Multi-wire terminal	19091			

Auxiliary accessories for iID

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	2P	L1L2...	-	A9XPH212 –	-	-	A9XPH224 A9XPH257
	4P	NL1L2L3...	-	A9XPH412 –	-	-	A9XPH424 A9XPH457
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+4P	AuxNL1L2L3... –	-	-	-	-	A9XAH457

Accessories			
	Name		Nr ref.
	Side cover	1P	A9XPE110
		2P	A9XPE210
		3P	A9XPE310
		4P	A9XPE410
	Tooth guard		A9XPT920
	Connection terminal	Single	A9XPCM04
		Double	A9XPCD04

Auxiliary accessories for iID

Mounting accessories		
	Name	Nr ref.
	Sealable covers for upper and lower terminals 2P (2 pieces)	A9A26976
	Interpole partition (10 pieces)	27001
	Screw cover (20 pieces)	A9A26981
	9 mm spacer	A9A27062
	Padlock device (10 pieces)	A9A26970
	Plug-in base	A9A27003
	Rotary drive: with black knob with red knob drive assembly without knob	A9A27005 A9A27006 A9A27008

Notes

Residual current circuit breakers

ID 125ÿA

Types AC, A and SI
 Rated residual current 30–500 mA
 IEC/EN 61008-1
 VDE 0664



The status of the ID switch is indicated by a three-position lever and an indicator on the front panel

- Closed – green indicator
- Triggered after disturbance (green indicator)
- Open (green indicator)

ID 125 A residual current circuit breakers provide:

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (\ddot{y} 100 mA),
- protection of the installation against the possibility of fire (300 mA or 500 mA).

SI type circuit breakers provide a higher level of protection against electrical noise and in contaminated and corrosive environments.

Auxiliary contacts OFsp


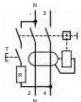

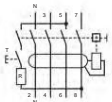
– Electrical signaling: OFsp auxiliary contacts, mounted on the left side of the breaker, with double changeover contacts, signal the "open" or "closed" state of the ID 125 A breaker.


Basic information		
Wg IEC60947		
Rated insulation voltage (Ui)		400 V
Degree of pollution		3
Rated impulse withstand voltage (Uimp)		4 kV
According to IEC/EN 61008-1		
Making and breaking current (Im/lÿm)		1250ÿA
Surge current withstand without tripping (8/20 ÿs)	Type AC and A (not selective S) <input type="checkbox"/>	250ÿA
	Type AC, A (selective S) <input type="checkbox"/>	3 kA
	Type SI	3 kA
Rated conditional breaking current (Inc/lÿc) With FU fuse 125A gG		10 000ÿA
Additional data		
Level of security	The device itself	IP20 IP40 with screw cover
	Device in a modular housing IP40 Class II insulation	
Durability (OC)	Electric	> 2000 cycles
	Mechanical	> 5000 cycles
Working temperature		–25°C do +40°C
Storage temperature		–40°C do +85°C

Residual current circuit breakers

ID 125yA

Types AC, A and SI
 Rated residual current 30–500 mA
 IEC/EN 61008-1
 VDE 0664

ID 125 A circuit breakers type AC, A and SI								
	Sensitivity	I know the current. (In)	AC type		Type A		Type SI	
			Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
2P (module width 2 x 18 mm)  	30 mA	125yA ID	125A-AC30-2	16966	ID125A-A30-2	16970	ID125A-SI30-2	16972
	300 mA	125yA ID	125A-AC300-2	16967	ID125A-A300-2	16971	ID125A-SI300-2	16973
4P (module width 4 x 18 mm)  	30 mA	125yA ID	125A-AC30-4	16905	ID125A-A30-4	16924	ID125A-SI30-4	16920
	100 mA	125A ID	125A-AC100-4	16906	-	-	-	-
	300 mA	125yA ID	125A-AC300-4	16907	ID125A-A300-4	16926	ID125A-SI300-4	16921
	300mA S <input type="checkbox"/>	125yA -	-	-	ID125A-A300S-4	16925	-	-
	500 mA	125yA ID	125A-AC500-4	16908	ID125A-A500-4	16927	-	-

Signaling					
	Contacts	Type	Tension	Module width 18 mm	Nr ref.
	1yA	OFsp	110yV DC	0,5	16940
	6yA		230 V AC (AC15)		

Accessories			
	Name	Module width 18 mm	Nr ref.
	Screw cover (10 pcs) for 2P inlet or outlet		16938
	Screw cover (10 pcs) for 4P inlet or outlet		16939

Residual current circuit breakers

ID typ B

Type B
 Rated residual current 30–500 mA
 IEC/EN 61008-1
 VDE 0664

The status of the ID switch is indicated by a three-position lever and an indicator on the front panel

- Closed (red indicator)
- Triggered (green indicator)
- Open (green indicator)



ID 125 A residual current circuit breakers provide:

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (\dot{y} 300 mA),
- protection of the installation against the possibility of fire (300 mA or 500 mA).

Type B

ID type B residual current circuit breakers provide:

Protection in the event of continuous fault current in a three-phase network, generated by:

- speed controllers and regulators,
- battery charging devices and converters,
- backup power devices.

These circuit breakers guarantee protection against fault currents:

- differential alternating sinusoidal (AC type),
- differential constant pulsating (type A).

The circuit breakers can be used in all cases defined in the IEC 60364 and EN 50178 standards.

Schneider Electric guarantees that ID type B switches work properly in combination with speed controllers manufactured by Schneider Electric.

Auxiliary contacts OFsp

Electrical signaling: OFsp auxiliary contacts, mounted on the left side of the breaker and having double changeover contacts, signal the "open" or "closed" state of the ID 125 A breaker.

Basic information		
Wg IEC60947		
Rated insulation voltage (Ui)		400 V
Degree of pollution		3
Rated impulse withstand voltage (Uimp)		4 kV
According to IEC/EN 61008-1		
Making and breaking current (Im/Iym)	25/40yA	500yA
	63/80yA	800yA
	125yA	1250yA
Surge current withstand without tripping (8/20 ys)	Non-selective S <input type="checkbox"/>	250yA
	Selective S <input type="checkbox"/>	3 kA
Rated conditional breaking current (Inc/Iyc)	25/40 A with FU 80A gG fuse	10 000yA
	63 A with FU 100A gG fuse	10 000yA
	80/125 A with fuse FU 125A gG 10,000 A	
Additional data		
Level of security	The device itself	IP20, IP40 with screw cover
	Device in a modular housing	IP40 Class II insulation
Durability (OC)	Electric	> 2000 cycles
	Mechanical	> 5000 cycles
Working temperature		-25°C do +40°C
Storage temperature		-40°C do +85°C

Residual current circuit breakers

IDÿtyp B

Type B
Rated residual current 30–500 mA
IEC/EN 61008-1
VDE 0664

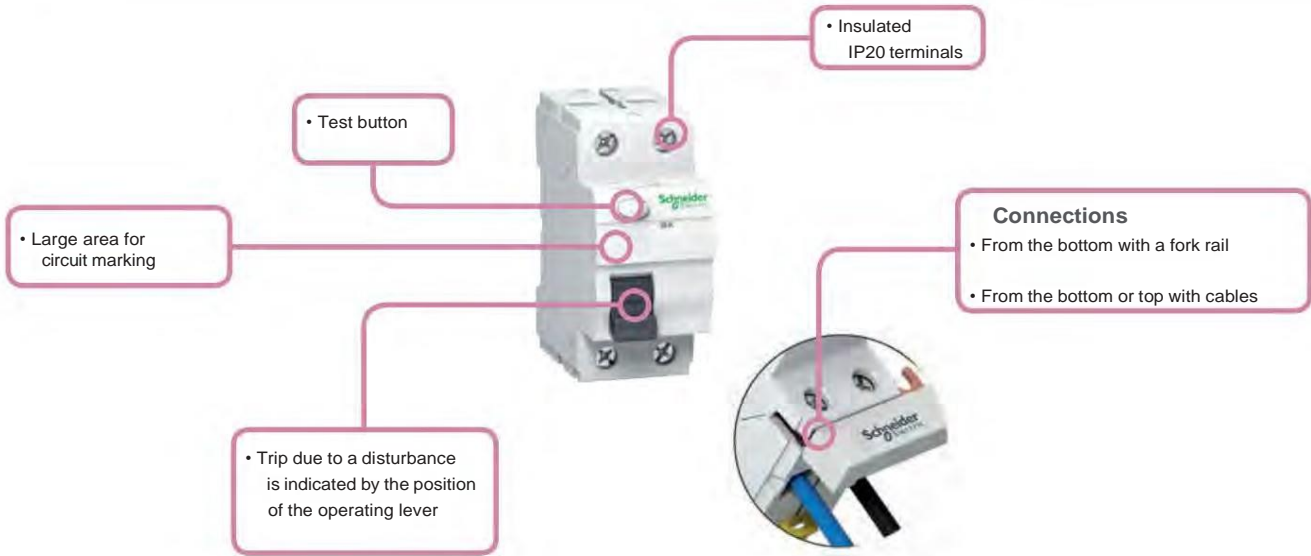
ID type B circuit breakers				
	Sensitivity	Rated current (In)	Type	Nr ref.
4P (module width 4 x 18 mm) 30 mA 	300 mA	25ÿA	ID-B30-25-4	16750
		40ÿA	ID-B30-40-4	16752
		63ÿA	ID-B30-63-4	16756
		80ÿA	ID-B30-80-4	16760
		125ÿA	ID-B30-125-4	16763
		25ÿA	ID-B300-25-4	16751
		40ÿA	ID-B300-40-4	16753
		63ÿA	ID-B300-63-4	16757
		80ÿA	ID-B300-80-4	16761
		125ÿA	ID-B300-125-4	16764
	300mA S □	40ÿA	ID-B300S-40-4	16754
		63ÿA	ID-B300S-63-4	16758
		80ÿA	ID-B300S-80-4	16762
		125ÿA	ID-B300S-125-4	16765
	500 mA	40ÿA	ID-B500-40-4	16755
		63ÿA	ID-B500-63-4	16759
		125ÿA	ID-B500-125-4	16766

Signaling					
	Contacts	Type	Tension	Module width 18 mm	Nr ref.
	1ÿA	OFsp	110ÿV DC	0,5	16940
	6ÿA		230 V AC (AC15)		

Accessories			
	Name	Module width 18 mm	Nr ref.
	Screw cover (10 pcs) for 4P inlet or outlet		16939

ID K residual current circuit breakers

Type A and
AC, rated residual current 30 and 300 mA
IEC/EN 61008-1



Residual current circuit breakers dedicated to the residential and commercial construction market provide:

- protection against direct contact shock (≥ 30 mA),
- protection against electric shock due to indirect contact (300 mA),
- protection of the installation against the possibility of fire (300 mA).

Basic information







Rated insulation voltage (U _i)	440 V	
Degree of pollution	2	
Rated impulse withstand voltage (U _{imp})	4 kV	
Making and breaking current (I _m /I _{ym})	500yA	
Rated conditional breaking current (I _{nc} /I _{yc})	With circuit breaker	6000yA
	With fuse	4500yA





Additional data

Level of security	The device itself	IP20
	Device in a modular housing	IP40 Class II insulation
Durability (OC)	Electric	2000 cycles (AC1)
	Mechanical	5000 cycles
Working temperature	AC type	-5°C do +40°C
	Type A	-25°C do +40°C
Storage temperature		-30°C do +40°C

ID K residual current circuit breakers

Type A and
AC, rated residual current 30 and 300 mA
IEC/EN 61008-1

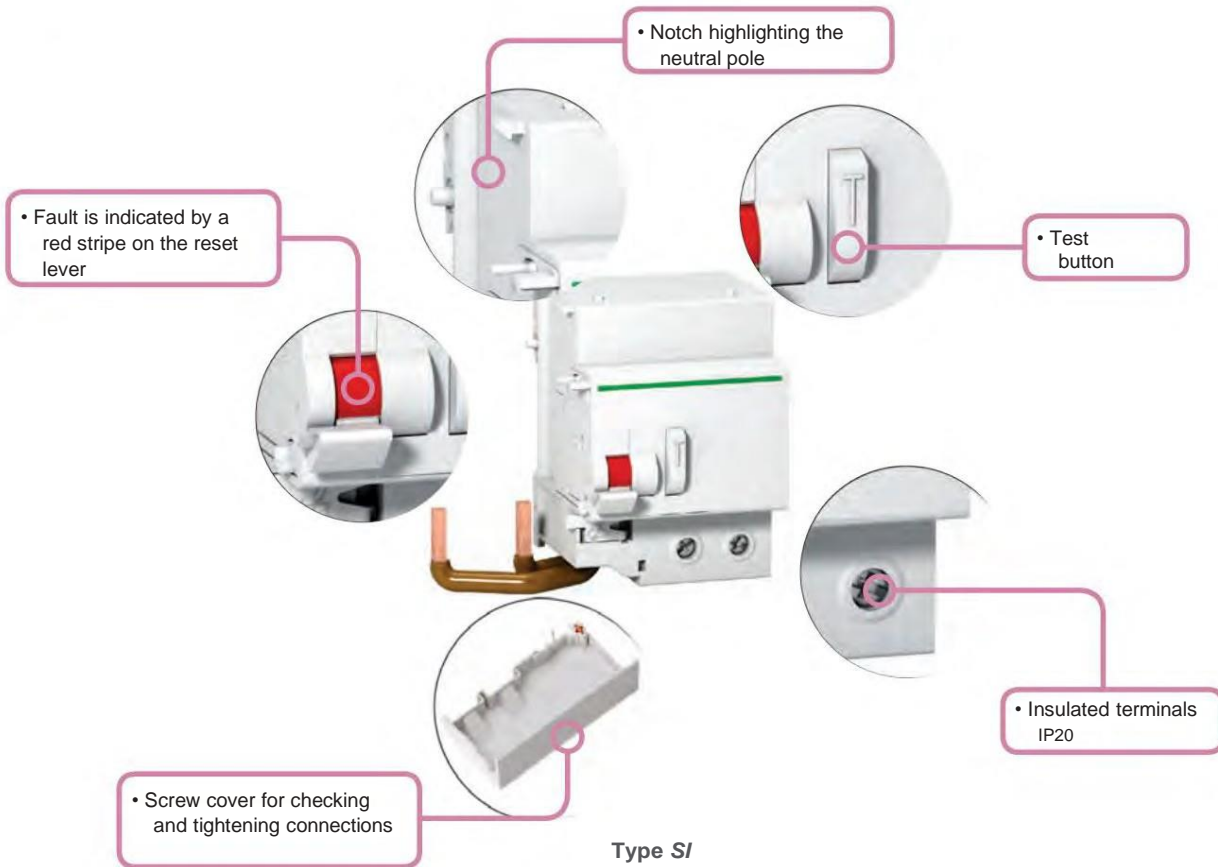
ID K switches							
	Rated current (In)	Type AC 30 mA			Type A 30 mA		
		Type	Module width 18 mm	Nr ref.	Type	Module width 18 mm	Nr ref.
2P  	25yA	IDK-AC30-25-2 2		A9Z05225 IDK-A30-25-2	2	A9Z01225	
	40yA	IDK-AC30-40-2 2		A9Z05240 IDK-A30-40-2	2	A9Z01240	
4P  	25yA	IDK-AC30-25-4 4		A9Z05425 IDK-A30-25-4	4	A9Z01425	
	40yA	IDK-AC30-40-4 4		A9Z05440 IDK-A30-40-4	4	A9Z01440	
	63yA	IDK-AC30-63-4 4		A9Z05463 IDK-A30-63-4	4	A9Z01463	
	Rated current (In)	Type AC 300 mA			Type A 300 mA		
		Type	Module width 18 mm	Nr ref.	Type	Module width 18 mm	Nr ref.
4P  	40yA	IDK-AC300-40-4 4		A9Z06440 IDK-A300-40-4 4		A9Z04440	
	63yA	IDK-AC300-63-4 4		A9Z06463 IDK-A300-63-4 4		A9Z04463	

Connecting rails for ID K			
	Type	Module width 18 mm	Nr ref.
	L1	12	R9XFH112
		18	R9XFH118
		57	R9XFH157
	L1L2	12	R9XFH212
		18	R9XFH218
		57	R9XFH257
	L1L2L3	12	R9XFH312
		18	R9XFH318
		57	R9XFH357
	L1L2L3L4	12	R9XFH412
		18	R9XFH418
		57	R9XFH457

Residual current blocks

Vigi C120

Types AC, A and SI
Rated residual current 30–1000 mA
EN 61 009



Type SI

SI type circuit breakers provide a higher level of protection against electrical noise and in contaminated and corrosive environments.

Vigi C120 residual current blocks combined with the C120 circuit breaker perform the following functions:

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (\ddot{y} 300 mA),
- protection of the installation against the possibility of fire (300 mA to 1000 mA).

Vigi C120 residual current blocks combined with the C120 circuit breaker perform the following functions:

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (\ddot{y} 300 mA),
- protection of the installation against the possibility of fire (300 mA to 1000 mA).

Special features of the SI type:

- They are adapted to operate in an environment where:
 - high probability of unintentional releases: frequent lightning, system IT, presence of electronic ballasts, frequency converters, switchboards with interference filters, computer systems, etc.
- Dimmers:
 - Occurrence of harmonics or attenuation of high frequencies.
 - Occurrence of direct current components: diodes, diode bridges, switched power supply, etc.
- They are protected against unintentional tripping due to transient overvoltages (lightning, network switching operations, etc.).

Residual current blocks

Vigi C120

Types AC, A and SI
 Rated residual current 30–1000 mA
 EN 61009

Basic information

According to IEC 60947-2

Rated insulation voltage (Ui)	500 V AC
Degree of pollution	3
Rated impulse withstand voltage (Uimp)	6 kV

Wg EN 61009

Surge current withstand without tripping (8/20 μ s)	Types AC and A (not selective S) □	250 μ A
	Types AC and A (selective S) □	3 kA
	Type SI (non-selective S) □	3 kA
	Type SI (selective S) □	5 kA

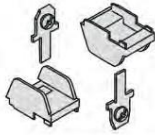


Additional data




Level of security	The device itself	IP20
	Device in a modular housing	IP40 Class II insulation
Working temperature	AC type	–5°C do +60°C
	Type A and SI	–25°C do +60°C
Storage temperature		–40°C do +85°C

Bloki Vigi C120

	Sensitivity	AC type		Type A		Type SI	
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
2P (module width 3.5 x 18 mm) 	30 mA	VIGIC120-AC30-2	A9N18563	VIGIC120-A30-2	A9N18572	VIGIC120-SI30-2	A9N18591
	300 mA	VIGIC120-AC300-2 A9N18564	VIGIC120-A300-2	A9N18573	VIGIC120-SI300-2 A9N18592		
	500 mA	VIGIC120-AC500-2 A9N18565	VIGIC120-A500-2	A9N18574	–		
	300 μ A S \square G	VIGIC120-AC300S-2 A9N18544	–	–		VIGIC120-SI300S-2 A9N18556	
	1000 μ A S \square G	VIGIC120-AC1000S-2 A9N18545	–	–	–	VIGIC120-SI1000S-2 A9N18557	
3P (module width 5 x 18 mm) 	30 mA	VIGIC120-AC30-3	A9N18566	VIGIC120-A30-3	A9N18575	VIGIC120-SI30-3	A9N18594
	300 mA	VIGIC120-AC300-3 A9N18567	VIGIC120-A300-3	A9N18576	VIGIC120-SI300-3 A9N18595		
	500 mA	VIGIC120-AC500-3 A9N18568	VIGIC120-A500-3	A9N18577	–		
	300 μ A S \square G	VIGIC120-AC300S-3 A9N18546	–	–	–	VIGIC120-SI300S-3 A9N18558	
	1000 μ A S \square G	VIGIC120-AC1000S-3 A9N18547	–	–	–	VIGIC120-SI1000S-3 A9N18559	
4P (module width 5 x 18 mm) 	30 mA	VIGIC120-AC30-4	A9N18569	VIGIC120-A30-4	A9N18578	VIGIC120-SI30-4	A9N18597
	300 mA	VIGIC120-AC300-4 A9N18570	VIGIC120-A300-4	A9N18579	VIGIC120-SI300-4 A9N18599		
	500 mA	VIGIC120-AC500-4 A9N18571	VIGIC120-A500-4	A9N18580	VIGIC120-SI500-4 A9N18599		
	300 μ A S \square G	VIGIC120-AC300S-4 A9N18548	VIGIC120-A300S-4 A9N18587	VIGIC120-SI300S-4 A9N18560			
	500 μ A S \square	–	–	VIGIC120-A500S-4 A9N18588	–		
	1000 μ A S \square G	VIGIC120-AC1000S-4 A9N18549	VIGIC120-A1000S-4 A9N18589	VIGIC120-SI1000S-4 A9N18561			

Auxiliary accessories for Vigi C120

Connection accessories		
	Name	Nr ref.
	AI clamp 50 mm2	27060
	Multi-wire terminal (4 pieces)	19091
	Multi-wire terminal (3 pieces)	19096

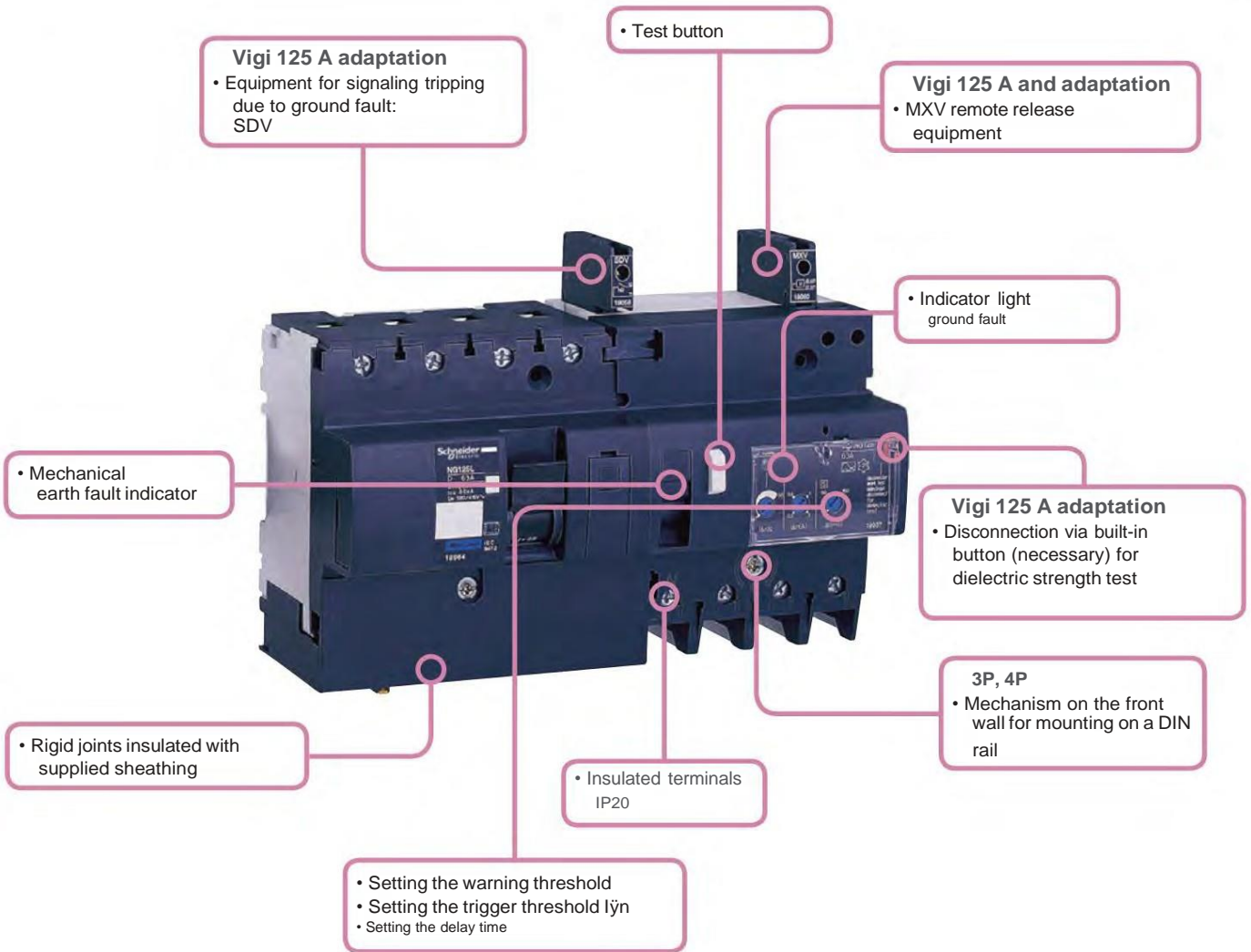
Mounting accessories		
	Name	Nr ref.
	9 mm spacer	A9N27062
	Padlock device (4 pieces)	27145
	Extended drive knob	27047
	Fixed knob	27048
	Drive mechanism	27046

Notes

Residual current blocks

Vigil NG125

Types AC, A and SI
 Rated residual current 30–3000 mA
 IEC/EN 61947-2



Type SI

SI devices are designed to operate in an environment where:

- High probability of unintentional releases: frequent lightning, IT system, presence of ballasts electronics, frequency converters, switchboards with interference filters, computer systems, etc.
- Dimmers:
 - occurrence of harmonics or attenuation of high frequencies
 - presence of direct current components: diodes, diode bridges, switched power supply, etc.
- They are protected against unintentional tripping caused by transient overvoltages (lightning, network switching operations, etc.).

Vigi NG125 residual current blocks combined with the NG125 circuit breaker fulfill the following functions:

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (300 mA),
- protection of the installation against the possibility of fire (300 mA).

Vigi NG125 residual current blocks combined with the NG125 circuit breaker fulfill the following functions:

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (\dot{y} 300 mA),
- protection of the installation against the possibility of fire (300 mA or 500 mA).

Residual current blocks

Vigil NG125

Types AC, A and SI
 Rated residual current 30–3000 mA
 IEC/EN 61947-2

Special features of the SI type:

- They are adapted to operate in an environment where: high probability occurs unintentional releases: frequent lightning discharges, IT system, presence of electronic ballasts, frequency converters, switchboards with interference filters, computer systems, etc.

Dimmers:

- Occurrence of harmonics or attenuation of high frequencies.
- Occurrence of direct current components: diodes, diode bridges, switched power supply, etc.
- They are protected against unintentional tripping due to transient overvoltages (lightning, network switching operations, etc.).

Basic information

According to IEC/EN 60947-2

Rated insulation voltage (Ui)	690 V
Degree of pollution	3
Rated impulse withstand voltage (Uimp)	8 kV

According to IEC/EN 61009-1

Surge current withstand without tripping (8/20 μ s)	Selective or R	5 kA
	Immediate	3 kA

Additional data

Level of security	The device itself	IP20
	Device in a modular housing	IP40
Working temperature	AC type	–5°C do +60°C
	Type A and SI	–25°C do +60°C
Storage temperature		–40°C do +85°C

Additional data

Vigi 125 A and adaptation

Plug-in auxiliary equipment	MXV	Remote triggering
	SDV	Signaling or tripping on ground fault

Vigs adjustable

Adjustable sensitivity (I _{Δn})		300, 500, 1000, 3000 mA
Trigger time	Immediate	
	Selective	60 μ ms
	Delayed	150 μ ms

Residual current signaling for 3P and 4P 300...3000 I/S/R (warning)		On the front panel there is an LED diode
		Remotely via a potential-free normally open contact 250 V-1 A (low level)
		Sensitivity adjustable with a potentiometer in the range from 10% to 50% I _{Δn}
Disconnection necessary for dielectric strength test		Built-in button

NG125+ Vigil NG125 combination

	Vigi NG125 63 A	Vigi NG125 125 A
NG125 \dot{y} 63 \dot{y} A	-	NO
NG125 80...125 \dot{y} A*	NO	-

(*) Vigil residual current blocks are not used for 2P circuit breakers with a rated current of 80 A.

Residual current blocks

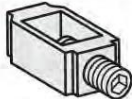
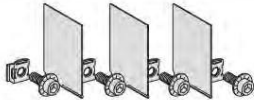

Vigi NG125

Types AC, A and SI
 Rated residual current 30–3000 mA
 IEC/EN 61947-2



Bloki Vigi NG125								
	Sensitivity	I know the current (In)	AC type		Type A		Type SI	
			Type	Nr ref.	Type	Nr ref.	Type	Nr ref.
2P (module width 2.5 x 18 mm) 	30 mA	63 A VIG	NG125-AC30-63-2 19000	VIGING125-A30-63-2		19010	-	-
	300 mA	63 A VIG	NG125-AC300-63-2 19001	VIGING125-A300-63-2		19012	-	-
	300mA S <input type="checkbox"/>	63yA -	-	-	VIGING125-A300S-63-2 19030	-	-	-
	1000 mA S <input type="checkbox"/>	63yA -	-	-	VIGING125-A1000S-63-2 19031	-	-	-
3P (module width 3.5 x 18 mm) 	30 mA	63 A VIG	NG125-AC30-63-3 19002	VIGING125-A30-63-3		19013	-	-
	300 mA	63 A VIG	NG125-AC300-63-3 19003	VIGING125-A300-63-3		19014	-	-
	300 mA	63yA -	-	-	VIGING125-A300S-63-3 19032	-	-	-
	1000 mA	63yA -	-	-	VIGING125-A1000S-63-3 19033	-	-	-
	300...3000 I/S/R 63yA -	-	-	-	VIGING125-AI/S/R-63-3 19036	-	-	-
4P (module width 3 x 18 mm) 	30 mA	125yA -	-	-	VIGING125-A30-125-3	19039	VIGING125-SI30-125-3	19100
	300...1000 I/S	125yA -	-	-	VIGING125-AI/S-125-3	19044	-	-
	300...3000 I/S/R 125yA -	-	-	-	VIGING125-AI/S/R-125-3 19047	VIGING125-SII/S/R-125-3 19106	-	-



Auxiliary accessories for Vigil NG125

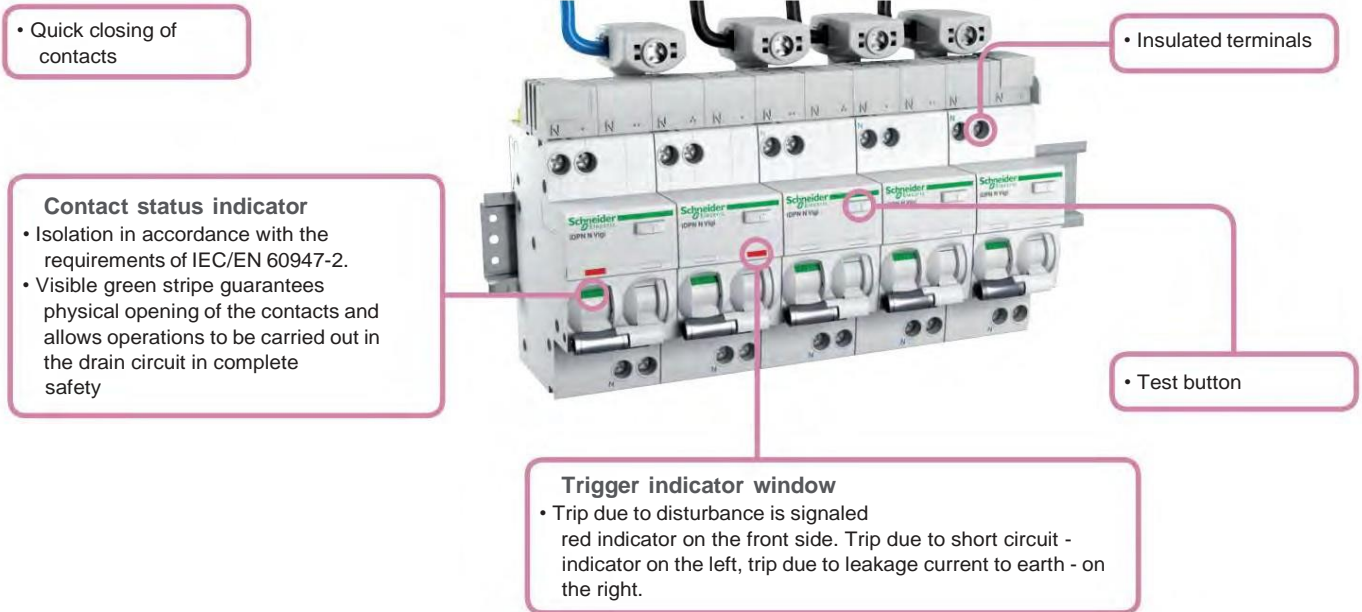
Joining		
	Name	Nr ref.
	Al clamp 70 mm3	19095
	Screw connection for ring terminals	19093
	Connection for small ring terminals	19094

Security		
	Name	Nr ref.
	RCD terminal cover (set 1 upper/1 lower)	2P 63yA 19074
		3P 63A 19075
		3P adapted 63 A, 3P 125 A 19077
		4P 63yA 19076
		4P adapted 63 A, 4P 125 A 19078

Triggers						
	Name	Type	Tension	Number of contacts	Module width 18 mm	Nr ref.
	Growth trigger	MXV	110...240 V AC 110 V DC –			19060
	Vigi fault signaling contacts	SDV	250 V AC 250 V AC	1NO		19058
				1NC		19059

iDPN Vigi miniature circuit breakers with residual current device

Types AC, A and SI
Rated residual current 10–300 mA
IEC/EN 61009



iDPN Vigi overcurrent circuit breakers with residual current element provide full protection of the receiving circuit (in case of overcurrent and insulation damage):

- protection against direct contact shock (\dot{y} 30 mA),
- protection against electric shock due to indirect contact (300 mA),
- protection of the installation against the possibility of fire (300 mA).

SI devices have been developed to operate networks with optimal security and continuity of operation in installations:

- extreme weather conditions,
- receivers generating harmonics,
- transient overcurrents.

iDPN Vigi miniature circuit breakers with residual current device

Types AC, A and SI
 Rated residual current 10–300 mA
 IEC/EN 61009

Basic information			
Wg IEC60947			
		iDPN N Vigi	iDPN H Vigi
Rated insulation voltage (Ui)		440 V AC	
Degree of pollution		3	
Rated impulse withstand voltage (Uimp)		4 kV	
Gauge temperature		30°C	
Magnetic trigger	B Characteristics	Between 3 and 5 In	
	C characteristics	Between 5 and 10 In	
According to IEC/EN 61008-1			
Restriction class		1	
Rated breaking current (Icn)		6000ÿA	10 000ÿA
Rated residual making and breaking current (Iÿm)		6000ÿA	10 000ÿA
Withstand current 8/20 ÿs	AC type	250ÿA	250ÿA
	Type A	250ÿA	250ÿA
	Type SI	3 kA	3 kA
Additional data			
Instantaneous residual current protection		10, 30, 100, 300 mA	30, 300 mA
Degree of protection (IEC 60529)	The device itself	IP20	
	Device in an IP40 modular housing		
Durability (OC)	Electric	ÿ 20ÿA	20,000 cycles
		ÿ 25ÿA	10,000 cycles
	Mechanical	20,000 cycles	
Overvoltage category (IEC 60364)		III	
Working temperature	AC type	–5°C do +60°C	
	Type A and SI	–25°C do +60°C	
Storage temperature		–40°C do +85°C	
Tropicalization (IEC 60068-1)		T2 (relative humidity 95% at 55°C)	

iDPN Vigi miniature circuit breakers with residual current device

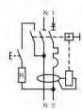
Types AC, A and SI
Rated residual current 10–300 mA
IEC/EN 61009

iDPN N Vigi B characteristics

Sensitivity	I know the current. (In)	AC type		Type A	
		Type	Nr ref.	Type	Nr ref.
10 mA	10yA	-	-	iDPNNVigi-A10-B10-1N	A9D08610
	16yA	-	-	iDPNNVigi-A10-B16-1N	A9D08616
	4yA	iDPNNVigi-AC30-B4-1N	A9D55604	iDPNNVigi-A30-B4-1N	A9D56604
	6yA	iDPNNVigi-AC30-B6-1N	A9D55606	iDPNNVigi-A30-B6-1N	A9D56606
	10yA	iDPNNVigi-AC30-B10-1N	A9D55610	iDPNNVigi-A30-B10-1N	A9D56610
	13yA	-	-	iDPNNVigi-A30-B13-1N	A9D56613
	16yA	iDPNNVigi-AC30-B16-1N	A9D55616	iDPNNVigi-A30-B16-1N	A9D56616
	20yA	iDPNNVigi-AC30-B20-1N	A9D55620	iDPNNVigi-A30-B20-1N	A9D56620
	25yA	iDPNNVigi-AC30-B25-1N	A9D55625	iDPNNVigi-A30-B25-1N	A9D56625
	32yA	iDPNNVigi-AC30-B32-1N	A9D55632	iDPNNVigi-A30-B32-1N	A9D56632
30 mA	4yA	-	-	iDPNNVigi-A100-B4-1N	A9D60604
	6yA	-	-	iDPNNVigi-A100-B6-1N	A9D60606
	10yA	-	-	iDPNNVigi-A100-B10-1N	A9D60610
	13yA	-	-	iDPNNVigi-A100-B13-1N	A9D60613
	16yA	-	-	iDPNNVigi-A100-B16-1N	A9D60616
	20yA	-	-	iDPNNVigi-A100-B20-1N	A9D60620
	25yA	-	-	iDPNNVigi-A100-B25-1N	A9D60625
	32yA	-	-	iDPNNVigi-A100-B32-1N	A9D60632
	40yA	-	-	iDPNNVigi-A100-B40-1N	A9D60640
	4yA	iDPNNVigi-AC300-B4-1N	A9D68604	iDPNNVigi-A300-B4-1N	A9D69604
6yA	iDPNNVigi-AC300-B6-1N	A9D68606	iDPNNVigi-A300-B6-1N	A9D69606	
10yA	iDPNNVigi-AC300-B10-1N	A9D68610	iDPNNVigi-A300-B10-1N	A9D69610	
13yA	-	-	iDPNNVigi-A300-B13-1N	A9D69613	
16yA	iDPNNVigi-AC300-B16-1N	A9D68616	iDPNNVigi-A300-B16-1N	A9D69616	
20yA	iDPNNVigi-AC300-B20-1N	A9D68620	iDPNNVigi-A300-B20-1N	A9D69620	
25yA	iDPNNVigi-AC300-B25-1N	A9D68625	iDPNNVigi-A300-B25-1N	A9D69625	
32yA	iDPNNVigi-AC300-B32-1N	A9D68632	iDPNNVigi-A300-B32-1N	A9D69632	
40yA	iDPNNVigi-AC300-B40-1N	A9D68640	iDPNNVigi-A300-B40-1N	A9D69640	

1P+N

(module width
2 x 18 mm)

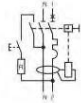


iDPN Vigi miniature circuit breakers with residual current device

Types AC, A and SI
 Rated residual current 10–300 mA
 IEC/EN 61009


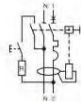
iDPN N Vigi C characteristics


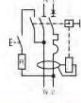
Sensitivity	I know the current (In)	AC type		Type A		Type SI		
		Type	Nr ref.	Type	Nr ref.	Type	Nr ref.	
1P+N (module width 2 x 18 mm)	10 mA	10yA –	-	-	iDPNNVigi-A10-C10-1N A9D02610	-	iDPNNVigi-A10-C16-1N A9D02616	
		16yA –	-	-	-	-	-	
	30 mA	6yA	iDPNNVigi-AC30-C6-1N A9D31606	iDPNNVigi-A30-C6-1N A9D32606	iDPNNVigi-SI30-C6-1N A9D33606	-	-	-
		10yA	iDPNNVigi-AC30-C10-1N A9D31610	iDPNNVigi-A30-C10-1N A9D32610	iDPNNVigi-SI30-C10-1N A9D33610	-	-	-
		13yA –	-	-	iDPNNVigi-SI30-C13-1N A9D32613	iDPNNVigi-SI30-C13-1N A9D33613	-	-
		16yA	iDPNNVigi-AC30-C16-1N A9D31616	iDPNNVigi-A30-C16-1N A9D32616	iDPNNVigi-SI30-C16-1N A9D33616	-	-	-
		20yA	iDPNNVigi-AC30-C20-1N A9D31620	iDPNNVigi-A30-C20-1N A9D32620	iDPNNVigi-SI30-C20-1N A9D33620	-	-	-
		25 A	iDPNNVigi-AC30-C25-1N A9D31625	iDPNNVigi-A30-C25-1N A9D32625	iDPNNVigi-SI30-C25-1N A9D33625	-	-	-
		32 A	iDPNNVigi-AC30-C32-1N A9D31632	iDPNNVigi-A30-C32-1N A9D32632	iDPNNVigi-SI30-C32-1N A9D33632	-	-	-
		40yA	iDPNNVigi-AC30-C40-1N A9D31640	iDPNNVigi-A30-C40-1N A9D32640	iDPNNVigi-SI30-C40-1N A9D33640	-	-	-
	100 mA	6yA	-	-	iDPNNVigi-A100-C6-1N A9D52606	iDPNNVigi-SI100-C6-1N A9D53606	-	-
		10yA –	-	-	iDPNNVigi-A100-C10-1N A9D52610	iDPNNVigi-SI100-C10-1N A9D53610	-	-
13yA –		-	-	iDPNNVigi-A100-C13-1N A9D52613	iDPNNVigi-SI100-C13-1N A9D53613	-	-	
16yA –		-	-	iDPNNVigi-A100-C16-1N A9D52616	iDPNNVigi-SI100-C16-1N A9D53616	-	-	
20yA –		-	-	iDPNNVigi-A100-C20-1N A9D52620	iDPNNVigi-SI100-SI20-1N A9D53620	-	-	
25yA –		-	-	iDPNNVigi-A100-C25-1N A9D52625	iDPNNVigi-SI100-SI25-1N A9D53625	-	-	
32yA –		-	-	iDPNNVigi-A100-C32-1N A9D52632	iDPNNVigi-SI100-SI32-1N A9D53632	-	-	
40yA –		-	-	iDPNNVigi-A100-C40-1N A9D52640	iDPNNVigi-SI100-C40-1N A9D53640	-	-	
300 mA	6yA	iDPNNVigi-AC300-C6-1N A9D41606	iDPNNVigi-A300-C6-1N A9D42606	iDPNNVigi-A300-SI6-1N A9D43606	-	-	-	
	10yA	iDPNNVigi-AC300-C10-1N A9D41610	iDPNNVigi-A300-C10-1N A9D42610	iDPNNVigi-A300-SI10-1N A9D43610	-	-	-	
	13yA –	-	-	iDPNNVigi-A300-C13-1N A9D42613	iDPNNVigi-SI300-C13-1N A9D43613	-	-	
	16yA	iDPNNVigi-AC300-C16-1N A9D41616	iDPNNVigi-A300-C16-1N A9D42616	iDPNNVigi-A300-SI16-1N A9D43616	-	-	-	
	20yA	iDPNNVigi-AC300-C20-1N A9D41620	iDPNNVigi-A300-C20-1N A9D42620	iDPNNVigi-A300-SI20-1N A9D43620	-	-	-	
	25yA	iDPNNVigi-AC300-C25-1N A9D41625	iDPNNVigi-A300-C25-1N A9D42625	iDPNNVigi-SI300-C25-1N A9D43625	-	-	-	
32yA	iDPNNVigi-AC300-C32-1N A9D41632	iDPNNVigi-A300-C32-1N A9D42632	iDPNNVigi-SI300-C32-1N A9D43632	-	-	-		
40yA	iDPNNVigi-AC300-C40-1N A9D41640	iDPNNVigi-A300-C40-1N A9D42640	iDPNNVigi-SI300-C40-1N A9D43640	-	-	-		









iDPN Vigì miniature circuit breakers with residual current device

Types AC, A and SI
 Rated residual current 10–300 mA
 IEC/EN 61009





iDPN H Vigì B characteristics				
	Sensitivity	I know the current. (I _n)	Type A	
			Type	Nr ref.
1P+N (module width 2 x 18 mm)  	30 mA	6ÿA	iDPNHVigì-A30-B6-1N	A9D07606
		10ÿA	iDPNHVigì-A30-B10-1N	A9D07610
		16ÿA	iDPNHVigì-A30-B16-1N	A9D07616
		20ÿA	iDPNHVigì-A30-B20-1N	A9D07620
		25ÿA	iDPNHVigì-A30-B25-1N	A9D07625
		32ÿA	iDPNHVigì-A30-B32-1N	A9D07632

iDPN H Vigì characteristics C						
	Sensitivity	I know the current. (I _n)	Type A		Type SI	
			Type	Nr ref.	Type	Nr ref.
1P+N (module width 2 x 18 mm)  	30 mA	6ÿA	iDPNHVigì-A30-C6-1N	A9D37606	iDPNHVigì-SI30-C6-1N	A9D38606
		10ÿA	iDPNHVigì-A30-C10-1N	A9D37610	iDPNHVigì-SI30-C10-1N	A9D38610
		16ÿA	iDPNHVigì-A30-C16-1N	A9D37616	iDPNHVigì-SI30-C16-1N	A9D38616
		20ÿA	iDPNHVigì-A30-C20-1N	A9D37620	iDPNHVigì-SI30-C20-1N	A9D38620
		25ÿA	iDPNHVigì-A30-C25-1N	A9D37625	iDPNHVigì-SI30-C25-1N	A9D38625
		32ÿA	iDPNHVigì-A30-C32-1N	A9D37632	iDPNHVigì-SI30-C32-1N	A9D38632
	300 mA	6ÿA	iDPNHVigì-A300-C6-1N	A9D47606	iDPNHVigì-A300-SI6-1N	A9D48606
		10ÿA	iDPNHVigì-A300-C10-1N	A9D47610	iDPNHVigì-A300-SI10-1N	A9D48610
		16ÿA	iDPNHVigì-A300-C16-1N	A9D47616	iDPNHVigì-A300-SI16-1N	A9D48616
		20ÿA	iDPNHVigì-A300-C20-1N	A9D47620	iDPNHVigì-A300-SI20-1N	A9D48620
		25ÿA	iDPNHVigì-A300-C25-1N	A9D47625	iDPNHVigì-A300-SI25-1N	A9D48625
		32ÿA	iDPNHVigì-A300-C32-1N	A9D47632	iDPNHVigì-A300-SI32-1N	A9D48632



Auxiliary accessories for iDPN Vigi

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	1	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	1	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	1	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9A26946 A9A26947 A9A26948



Auxiliary accessories for iDPN Vigi

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC 0,5		A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC 0,5		A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC 0,5		A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24V DC	0,5	A9A26897

Auxiliary accessories for iDPN Vigi

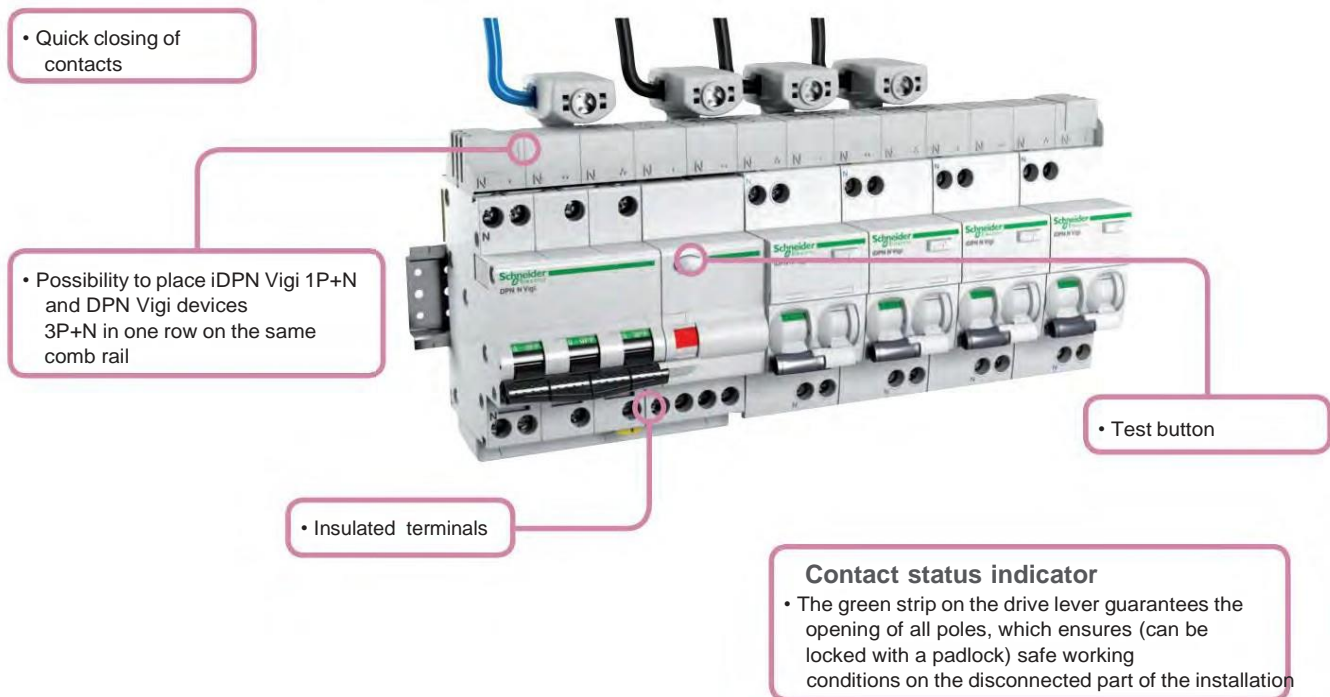
Stick splints				
The pin rail is supplied with 4 caps and 1 pin cover	Number of poles	Module width 18 mm		Nr ref.
		Post splint Tooth cover		
	1P + N	12	3	21501
		24	6	21503
	3P+N	12	3	21505
		24	6	21507
Pin rail without caps				
	1P + N	48	-	21089
	3P+N	48	-	21093

Connection accessories		
	Name	Nr ref.
	Screw connection for ring terminals	27053

Mounting accessories		
	Name	Nr ref.
	9 mm spacer	A9A27062
	Padlock device (10 pieces)	A9A26970

Overcurrent circuit breakers with residual current element DPN N Vigi

Types AC, A and SI
Rated residual current 30–300 mA
IEC/EN 61009-1



DPN N Vigi overcurrent circuit breakers with residual current element provide full protection of the receiving circuit (in case of overcurrent and insulation damage):

- protection against direct contact shock (30 mA),
- protection against electric shock due to indirect contact (300 mA),
- protection of the installation against the possibility of fire (300 mA).

SI devices have been developed to operate networks with optimal security and continuity of operation in installations:

- extreme weather conditions,
- receivers generating harmonics,
- transient overcurrents.

Overcurrent circuit breakers with residual current element DPN N Vigi

Types AC, A and SI
Rated residual current 30–300 mA
IEC/EN 61009-1

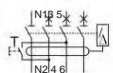
Basic information			
Wg IEC60947			
Rated insulation voltage (Ui)	440 V AC		
Degree of pollution	3		
Rated impulse withstand voltage (Uimp)	4 kV		
Gauge temperature	30°C		
Magnetic trigger	B Characteristics	Between 3 and 5 In	
	C characteristics	Between 5 and 10 In	
Wg EN 61009			
Restriction class	3		
Rated breaking current (Icn)	6000ÿA		
Rated residual making and breaking current (Iÿm)	6000ÿA		
Withstand current 8/20 ÿs	AC type	250ÿA	
	Type A	250ÿA	
	Type SI	-	
Additional data			
Instantaneous residual current protection	30, 300 mA		
Degree of protection (IEC 60529)	The device itself	IP20	
	Device in a modular housing	IP40	
Durability (OC)	Electric	ÿ 20ÿA	20,000 cycles
		ÿ 25ÿA	10,000 cycles
	Mechanical	20,000 cycles	
Overvoltage category (IEC 60364)	III		
Working temperature	AC type	-5°C do +60°C	
	Type A and SI	-25°C do +60°C	
Storage temperature	-40°C do +70°C		
Tropicalization (IEC 60068-1)	T2 (relative humidity 95% at 55°C)		

Overcurrent circuit breakers with residual current element DPN N Vigi

Types AC, A and SI
Rated residual current 30–300 mA
IEC/EN 61009-1

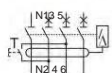
DPN N Vigi B characteristics

	Sensitivity	I know the current. (In)	AC type		Type A		
			Type	Nr ref.	Type	Nr ref.	
3P+N (module width 5 x 18 mm)	30 mA						
			6yA	DPNNVigi-AC30-B6-3N	A9D55706	DPNNVigi-A30-B6-3N	A9D56706
			10yA	DPNNVigi-AC30-B10-3N	A9D55710	DPNNVigi-A30-B10-3N	A9D56710
			13yA	-	-	DPNNVigi-A30-B13-3N	A9D56713
			16yA	DPNNVigi-AC30-B16-3N	A9D55716	DPNNVigi-A30-B16-3N	A9D56716
			20yA	DPNNVigi-AC30-B20-3N	A9D55720	DPNNVigi-A30-B20-3N	A9D56720
			25yA	DPNNVigi-AC30-B25-3N	A9D55725	DPNNVigi-A30-B25-3N	A9D56725
			32yA	DPNNVigi-AC30-B32-3N	A9D55732	DPNNVigi-A30-B32-3N	A9D56732
		40yA	DPNNVigi-AC30-B40-3N	A9D55740	DPNNVigi-A30-B40-3N	A9D56740	



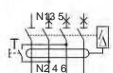
DPN N Vigi characteristic C

	Sensitivity	I know the current. (In)	AC type		Type A		
			Type	Nr ref.	Type	Nr ref.	
3P+N (module width 5 x 18 mm)	30 mA						
			6yA	DPNNVigi-AC30-C6-3N	A9D31706	DPNNVigi-A30-C6-3N	A9D32706
			10yA	DPNNVigi-AC30-C10-3N	A9D31710	DPNNVigi-A30-C10-3N	A9D32710
			13yA	-	-	DPNNVigi-A30-C13-3N	A9D32713
			16yA	DPNNVigi-AC30-C16-3N	A9D31716	DPNNVigi-A30-C16-3N	A9D32716
			20yA	DPNNVigi-AC30-C20-3N	A9D31720	DPNNVigi-A30-C20-3N	A9D32720
			25yA	DPNNVigi-AC30-C25-3N	A9D31725	DPNNVigi-A30-C25-3N	A9D32725
			32yA	DPNNVigi-AC30-C32-3N	A9D31732	DPNNVigi-A30-C32-3N	A9D32732
	40yA		DPNNVigi-AC30-C40-3N	A9D31740	DPNNVigi-A30-C40-3N	A9D32740	
	300 mA		10yA	DPNNVigi-AC300-C10-3N	A9D41710	DPNNVigi-A300-C10-3N	A9D42710
			16yA	DPNNVigi-AC300-C16-3N	A9D41716	DPNNVigi-A300-C16-3N	A9D42716
			20yA	DPNNVigi-AC300-C20-3N	A9D41720	DPNNVigi-A300-C20-3N	A9D42720
			25yA	DPNNVigi-AC300-C25-3N	A9D41725	DPNNVigi-A300-C25-3N	A9D42725
			32yA	DPNNVigi-AC300-C32-3N	A9D41732	DPNNVigi-A300-C32-3N	A9D42732
			40yA	DPNNVigi-AC300-C40-3N	A9D41740	DPNNVigi-A300-C40-3N	A9D42740









DPN N Vigi characteristic C





	Sensitivity	I know the current. (In)	Type SI		
			Type	Nr ref.	
3P+N (module width 5 x 18 mm)	30 mA				
			10yA	DPNNVigi-SI30-C10-3N	A9D33710
			13yA	DPNNVigi-SI30-C13-3N	A9D33713
			16yA	DPNNVigi-SI30-C16-3N	A9D33716
			20yA	DPNNVigi-SI30-C20-3N	A9D33720
			25yA	DPNNVigi-SI30-C25-3N	A9D33725
			32yA	DPNNVigi-SI30-C32-3N	A9D33732
	40yA	DPNNVigi-SI30-C40-3N	A9D33740		



Auxiliary accessories for DPN N Vigi

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	MN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9N26960 A9N26961 A9N26959
	Time-delayed undervoltage release	MNs	220...240 V AC	1	A9N26963
	Undervoltage release independent of supply voltage	MNx	220...240 V AC 280...415 V AC	1	A9N26969 A9N26971
	Voltage release	MSU	230 V AC	1	A9N26500
	Growth trigger	MX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC 12...25 V DC	1	A9N26476 A9N26477 A9N26478
	Shunt release with built-in open/closed contact	MX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC 12...24 V DC	1	A9N26946 A9N26947 A9N26948


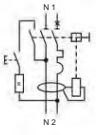

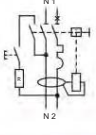
Auxiliary accessories for DPN N Vigi

Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Fault signaling contacts	SD	24...415 V AC 24...130V DC	0,5	A9N26927
	Dual contacts open/closed and fault indication	OF+SD24	24V DC	0,5	A9N26899
	Auxiliary contacts open/closed OF		24...415 V AC 24...130 V DC	0,5	A9N26924
	Dual contacts open/closed or fault indication	OF+SD/OF	24...415 V AC 24...130 V DC	0,5	A9N26929

Notes

Residual current circuit breakers with overcurrent element DPN Vigi K

Short-circuit strength: 6 kA
according to IEC 61009-1

Vigi K DPN switches					
Type A 30 mA	I know the current. (In)	B Characteristics		C characteristics	
		Type	Nr ref.	Type	Nr ref.
1P+N (module width 2 x 18 mm)  		20yA DPNVIGIK-A30-B10-1N	A9D23610	DPNVIGIK-A30-C10-1N	A9D21610
		16yA DPNVIGIK-A30-B16-1N	A9D23616	DPNVIGIK-A30-C16-1N	A9D21616
		20yA DPNVIGIK-A30-B20-1N	A9D23620	DPNVIGIK-A30-C20-1N	A9D21620
Type AC 30 mA		B Characteristics		C characteristics	
1P+N (module width 2 x 18 mm)  		20yA DPNVIGIK-AC30-B10-1N	A9D22610	DPNVIGIK-AC30-C10-1N	A9D20610
		16yA DPNVIGIK-AC30-B16-1N	A9D22616	DPNVIGIK-AC30-C16-1N	A9D20616
		20yA DPNVIGIK-AC30-B20-1N	A9D22620	DPNVIGIK-AC30-C20-1N	A9D20620

Connection rails for DPN Vigi K(1P)



K60N, SW, ID K and DPN Vigi K devices can be connected in one row using a comb rail. Only the neutral track to DPN Vigi K is connected via a cable.

Connecting rails for DPN Vigi K(1P)

	Type	Module width 18mm	Nr ref.
1P 	L1	12	R9XFH112
		18	R9XFH118
		57	R9XFH157

Surge arresters Type 1 (class B)

IEC 61643-1
PN-EN 61643-11 Type 1



Type 1/Class B

PRD1 Master

- execution 1P, 1P+N, 3P, 3P+N
- impulse current $I_{imp} = 25 \text{ kA}$
- voltage protection level $U_p = 1.5 \text{ kV}$
- **blow-off spark gap technology**
- **replaceable cartridges**
- fault indication: indicator,
remote signaling: contact 1 A/250 V AC

PRF1 Master


- execution of 1P
- impulse current $I_{imp} = 50 \text{ kA}$
- voltage protection level $U_p = 1.5 \text{ kV}$
- **blow-off spark gap technology**

The Type 1 surge arrester is recommended for electrical installations in service facilities and industrial buildings protected by a lightning protection system with vertical lightning rods or a grid of lightning rods. It protects electrical installations against the effects of direct lightning strikes. It is used to conduct lightning current when it hits an object directly, flowing from the earth electrode to the installation wires. It must be installed downstream of a supply-side disconnecting device, such as a fuse or circuit breaker, whose breaking capacity must be at least equal to the maximum expected short-circuit current at the point of installation.

Technical data			PRF1 Master	PRD1 Master
Working frequency			50/60 Hz	50 Hz
Level of security	Front panel		IP40	IP40
	Clamps		IP20	IP20
	Udary		IK05	IK05
Response time (8/20 μ s)			$\leq 1 \mu$ s	$\leq 100 \text{ ns}$
Damage indicator			-	White: correct operation
	Remote signaling –		-	Red: damage 1 A/250 V AC 0.2A/125VDC
Connection via sleeve terminals	Rigid cable		10...50 mm ²	10...50 mm ²
	Flexible cable 10...35 mm ²			10...35 mm ²
Working temperature			-40°C do +85°C	-25°C do +60°C
Norms	Type 1		IEC 61643-1 T1 <input type="checkbox"/> PN-EN 61643-11 Type 1	IEC 61643-1 T1 <input type="checkbox"/> PN-EN 61643-11 Type 1
Certificate			KEMAKEUR, CE	THIS

Type 1 surge arresters (class B)

IEC 61643-1
PN-EN 61643-11 Type 1

PRF1-MASTER								
	Type	Network type	Number of poles/width of modules 18 mm	Impulse current Iimp (10/350) N/PE[kA]	Current leakage I _{max} (8/20)/rated discharge current I _n (8/20) [kA]	Rated voltage [UN]	Maximum allowable operating voltage U _c [V]	Nr ref.
 	PRF1-MASTER-T1-1P	IT a neutral point single	1P/2	50/35	-/50	230	440	16630
 	2 x PRF1-MASTER-T1-1P IT a	neutral point single	2P/4	50/35	-/50	230	440	2 x 16630
 	3 x PRF1-MASTER-T1-1P IT a	neutral point single	3P/6	50/35	-/50	230	440	3 x 16630
 	4 x PRF1-MASTER-T1-1P IT a	neutral point single	4P/8	50/35	-/50	230	440	4 x 16630


a Version without indicator.


Surge arresters Type 1 (class B)

IEC 61643-1
PN-EN 61643-11 Type 1

PRD1-MASTER								
	Type	Network type	Number of poles/width of modules 18 mm	Pulse current Iimp (10/350) [kA]	Current leakage I _{max} (8/20)/rated discharge current I _n (8/20) [kA]	Rated voltage [V]	Max. permissible operating voltage U _c [IN]	Nr. ref.
	PRD1-MASTER-T1-1P	TN-C, IT	1P/2	25	-/25	230	350	16360
	PRD1-MASTER-T1-1P+N TT, TN-S		1P+N/4	25	-/25	230/400	350	16361
	2xPRD1-MASTER-T1-1P TN-C, IT, IT 2P/4			25	-/25	230	350	2 x 16360
	PRD1-MASTER-T1-3P	TN-C, IT	3P/6	25	-/25	230	350	16362
	PRD1-MASTER-T1-3P+N TT, TN-S 3P+N/8			25	-/25	230/400	350	16363
	4xPRD1-MASTER-T1-1P TN-C, IT, IT 4P/8			25	-/25	230	350	4 x 16360

Auxiliary accessories for Type 1 surge arresters

Replacement cartridges for PRD1 Master			
	Used for surge arrester:	Phase (Type 1)	Neutral wire
		Nr ref.	Nr ref.
	PRD1 Master 1P	16314	-
	PRD1 Master 1P+N	16314	16317
	PRD1 Master 3P	3 x 16314	-
	PRD1 Master 3P+N	3 x 16314	16317

Accessories for PRF1 Master			
	Type	Number of poles	Nr ref.
	4P connection bus	4	16643
	6P connection rail	6	16644
	8P connection rail	8	16645
	Flexible cable, 200 mm long		16646

Surge arresters Type 1+2 (class B+C)

IEC 61643-1
PN-EN 61643-11 Type 1 and Type 2



Type 1+2/class B+C

iPRF1 Master

- 1P+N, 3P, 3P+N execution
- impulse current $I_{imp} = 12.5 \text{ kA}$
- maximum discharge current $I_{max} = 50 \text{ kA}$
- voltage protection level $U_p = 1.5 \text{ kV}$
- **varistor technology**
- fault indication: indicator,
remote signaling: contact 1 A/250 V AC



PRF1 Master

- execution 1P, 1P+N, 3P, 3P+N
- impulse current $I_{imp} = 25 \text{ kA}$
- maximum discharge current $I_{max} = 40 \text{ kA}$
- voltage protection level $U_p = 1.5 \text{ kV}$
- **exhaustless spark gap and varistor technology**
- **replaceable cartridges**
- fault indication: indicator,
remote signaling: contact 1 A/250 V AC




The Type 1 surge arrester is recommended for electrical installations in service facilities and industrial buildings protected by a lightning protection system with vertical lightning rods or a grid of lightning rods. It protects electrical installations against the effects of direct lightning strikes. It is used to conduct lightning current when it hits an object directly, flowing from the earth electrode to the installation wires. It must be installed downstream of a disconnecting device on the supply side, such as a fuse or circuit breaker, whose breaking capacity must be at least equal to the maximum expected short-circuit current at the point of installation.

The iPRF1 12.5r PRD1 25 surge arresters also provide Type 2 protection and protect electrical installations by more accurately limiting atmospheric surge waves.

Technical data			
		iPRF1 12.5r	PRD1 25r
Working frequency		50 Hz	50 Hz
Level of security	Front panel	IP40	IP40
	Clamps	IP20	IP20
	Udary	IK05	IK05
Response time (8/20 μ s)		\bar{y} 25 ns	\bar{y} 25 ns
Damage indicator		Green: correct operation Red: damage	White: correct operation Red: damage
	Remote signaling 1 A/250 V AC		1 A/250 V AC 0.2A/125VDC
Connection via sleeve terminals	Rigid cable	10...35 mm ²	2.5...35 mm ²
	Flexible cable 10...25 mm ²		2.5...25 mm ²
Working temperature		-25°C do +60°C	-25°C do +60°C
Norms	Type 1	IEC 61643-1 T1 PN-EN 61643-11 Type 1	IEC 61643-1 T1 PN-EN 61643-11 Type 1
	Type 2	IEC 61643-1 T2 PN-EN 61643-11 Type 2	IEC 61643-1 T2 PN-EN 61643-11 Type 2
Certificate		THIS	KEMAKEUR, CE

Surge arresters Type 1+2 (class B+C)

IEC 61643-1
PN-EN 61643-11 Type 1 and Type 2


iPRF1 12.5r								
	Type	Network type	Number of poles/ module width 18 mm	Pulse current Iimp (10/350) N/PE [kA]	Discharge current I _{max} (8/20)/ rated discharge current I _n (8/20) [kA]	Rated voltage [V]	Max. permissible operating voltage U _c [V]	Nr ref.
	iPRF1-12.5R-T1+2-1P+N-12.5/50 TT, TN-S 1P+N/2			12,5/50	50/25	230	350	A9L16632
	iPRF1-12.5R-T1+2-3P-12.5	TN-C, IT 3P/4		12,5	50/25	230/400	350	A9L16633
	iPRF1-12.5R-T1+2-3P+N-12.5/50 TT, TN-S 3P+N/4			12,5/50	50/25	230/400	350	A9L16634

Surge arresters Type 1+2 (class B+C)

IEC 61643-1
PN-EN 61643-11 Type 1 and Type 2

PRD1 25r								
	Type	Network type	Number of poles/ module width 18 mm	Pulse current Iimp (10/350) [kA]	Discharge current I _{max} (8/20)/ rated discharge current I _n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U _c [V]	Nr ref.
 	PRD1-25R-T1+2-1P	TN-C, IT 1P/2		25	40/25	230	350	16329
 	PRD1-25R-T1+2-1P+N TT, TN-S 1P+N/4			25/100 N/PE 40/25		230/400 350		16330
 	2xPRD1-25R-T1+2-1P IT		2P/4	25	40/25	230	350	2 x 16329
 	PRD1-25R-T1+2-1P	TN-C, IT 3P/6		25	40/25	230	350	16331
 	PRD1-25R-T1+2-3P+N TT, TN-S 3P+N/8			25/100 N/PE 40/25		230/400 350		16332
 	4xPRD1-25R-T1+2-1P IT		4P/8	25	40/252	230	350	4 x 16329

Auxiliary accessories for Type 1+2 surge arresters

Replacement inserts for PRD1 25 years				
	Used for surge arrester:	Phase (Type 1) Nr ref.	Phase (Type 2) Nr ref.	Neutral wire Nr ref.
	PRD1 25r 1P	16315	16315	-
	PRD1 25r 1P+N	16315	16315	16317
	PRD1 25r 3P	3 x 16315	3 x 16315	-
	PRD1 25r 3P+N	3 x 16315	3 x 16315	16317

Surge arresters Type 2 (class C)

IEC 61643-1
EN 61643-11 Type 2

Type 2/Class C

iPF

Each surge protector has a specific scope of application:

- entry protection (Type 2):
 - iPF65(r) is recommended for high risk levels (highly exposed area),
 - iPF40(r) is recommended for medium risk levels,
 - iPF20(r) is recommended for low risk levels.

iPF surge arresters marked "r" are equipped with signaling that allows remote notification of the need to replace the insert.






The iPF multi-pole one-piece surge arresters are suitable for earthing systems: TT, TN-S, TN-C.

Basic information		
Working frequency	50/60 Hz	
Rated voltage (Ue)	230/400 V AC	
Continuous operating current (Ic)	< 1 mA	
Response time	< 25 ns	
Damage indicator: mechanical	Green	Action
	Red	Broken
Remote indication of damage status	Via NO, NC contact 250 V/0.25 A	
Additional data		
Working temperature	–25°C do +60°C	
Type of connection terminals	Sleeve terminals, 2.5 to 35 mm ²	
Norms	IEC 61643-1 T ₂ in EN 61643-11 Type 2	

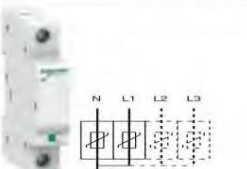
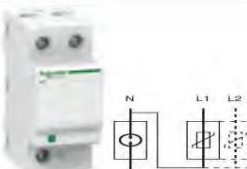
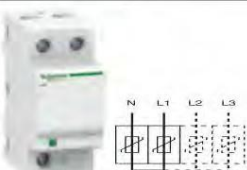
Type 2 surge arresters (class C)

IEC 61643-1
EN 61643-11 Type 2

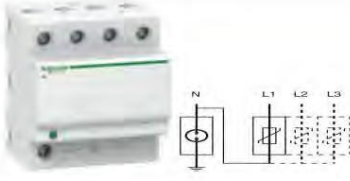
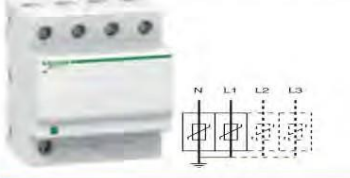
iPF Type 2 (Class C)									
Image	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]			Nr ref.
						CM*	DM*		
						THE	NEITHER	L/N	
	iPF65-T2-1P	TT & TN	1P/2	65/20	230	340			A9L15683
	iPF65-T2-1P+N	TT & TN-S 1P+N/4		65/20	230		260	340	A9L15684
	iPF65-T2-2P	TN-C	2P/4	65/20	230	340	340		A9L15584
	iPF65-T2-3P	TN-C	3P/8	65/20	230/400	340			A9L15581
	iPF65R-T2-3P+N	TT & TN-S 3P+N/8		65/20	230/400		260	340	A9L15685
	iPF65-T2-3P+N	TT & TN-S 3P+N/8		65/20	230/400		360	340	A9L15586
	iPF65R-T2-4P	TN-C	4P/8	65/20	230/400	340	340		A9L15585
	iPF40-T2-1P	TT & TN	1P/3	40/15	230	340			A9L15686
	iPF40-T2-1P+N	TT & TN-S 1P+N/4		40/15	230		260	340	A9L15687

Surge arresters Type 2 (class C)

IEC 61643-1
EN 61643-11 Type 2

iPF Type 2 (Class C)								
	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]		Nr ref.
						CM* L/EN/EL/N	DM*	
	iPF40-T2-2P	TN-C	2P/4	40/15	230	340	340	A9L15587
	iPF40-T2-3P	TN-C	3P/8	40/15	230/400	340		A9L15582
	iPF40R-T2-3P+N TT & TN-S 3P+N/8			40/15	230/400	260	340	A9L15690
	iPF40-T2-3P+N TT & TN-S 3P+N/8			40/15	230/400	260	340	A9L15688
	iPF40R-T2-4P	TN-C	4P/8	40/15	230/400	340	340	A9L15590
	iPF40-T2-4P	TN-C	4P/8	40/15	230/400	340	340	A9L15588
	iPF20-T2-1P	TT & TN	1P/2	20/5	230	340		A9L15691
	iPF20-T2-1P+N TT & TN-S 1P+N/4			20/5	230	260	340	A9L15692
	iPF20-T2-2P	TN-C	2P/4	20/5	230	340	340	A9L15592
	iPF20-T2-3P	TN-C	3P/8	20/5	230/400	340		A9L15597

Type 2 surge arresters (class C)

iPF Type 2 (Class C)									
	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]			Nr ref.
						CM*		DM*	
						THE	NEITHER	L/N	
	iPF20-T2-3P+N TT & TN-S 3P+N/8		20/5	20/5	230/400	260	340		A9L15693
	iPF20-T2-4P	TN-C	4P/8	20/5	230/400	340	340		A9L15593

* CM: common mode (phase to ground and neutral to ground)

DM: differential mode (phase to neutral)

† Uoc: combined impulse, voltage: 10 kV.

Type 2 surge arresters (class C)



Type 2/Class C

iPRD

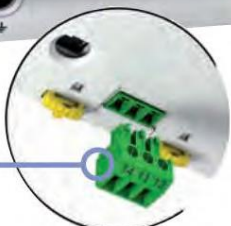


• Insulated IP20 terminals

Cartridge damage indicator

- Mechanical:
- white – works,
- red – the system must be replaced.

• Communication with Acti 9 Smartlink



Possibility of combining iPRD with additional protection - an overcurrent switch

TT/TN-S

Power supply via cables from the top.



Surge arrester iPRD 3P+N + iC60N 3P+N

Reversible base

- The base of the surge arrester can be reversed to allow easy access of the phase/neutral/ground conductors from the top or bottom as required.

TT/TN-S

Power supply from the bottom, pin rail at the top.



Surge arrester iPRD 3P+N + iC60N 3P+N

TNC-S

Power supply from the top.
Connection with a pin rail from the bottom.



Surge arrester 4P + iC60N 4P

TT/TN-S

Power supply from the bottom, pin rail at the top.



Surge arrester 4P + iC60N 4P


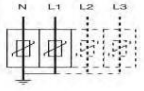

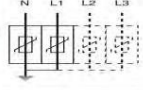

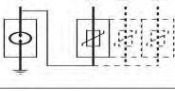

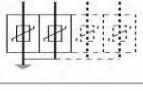

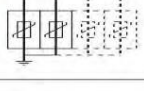

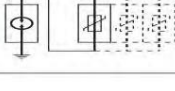



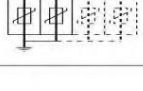
Surge arresters Type 2 (class C)

IEC 61643-1
EN 61643-11 Type 2

IPRD Type 2 (Class C)									
Image	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]			Nr ref.
						CM* THE	NEITHER	DM* L/N	
	IPRD65R-T2-1P-IT IT		1P/2	65/20	230	460	-	-	A9L16555
	IPRD65R-T2-1P TT & TN		1P/2	65/20	-	340	-	-	A9L65101
	IPRD65R-T2-1P+N TT & TN-S 1P+N/4			65/20	-	260	340	-	A9L65501
	IPRD65R-T2-2P TN-C		2P/4	65/20	-	340	340	-	A9L65201
	IPRD65R-T2-3P-IT IT		3P/6	65/20	230/400 460	-	-	-	A9L16558
	IPRD65R-T2-3P TN-C		3P/6	65/20	-	340	-	-	A9L65301
	IPRD65R-T2-3P+N TT & TN-S 3P+N/8			65/20	-	260	340	-	A9L65601
	IPRD65R-T2-4P TN-C		4P/8	65/20	-	340	340	-	A9L65401
	IPRD40R-T2-1P TT & TN		1P/2	40/15	230	340	-	-	A9L40101
	IPRD40-T2-1P	TT & TN	1P/2	40/15	-	340	-	-	A9L40100
	IPRD40R-T2-1P+N TT & TN-S 1P+N/4			40/15	-	260	340	-	A9L40501
	IPRD40-T2-1P+N TT & TN-S 1P+N/4			40/15	-	260	340	-	A9L40500

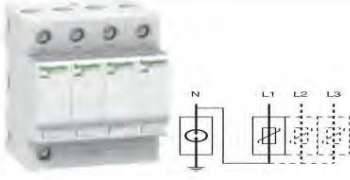
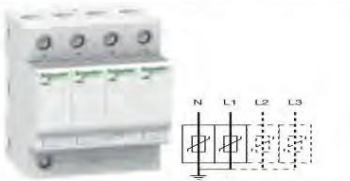
Surge arresters Type 2 (class C)

IEC 61643-1
EN 61643-11 Type 2

IPRD Type 2 (Class C)									
	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]			Nr ref.
						THE	CM* NEITHER	DM* L/N	
 	IPRD40R-T2-2P TN-C		2P/4	40/15	-	340	340	-	A9L40201
	IPRD40-T2-2P	TN-C	2P/4	40/15	-	340	340	-	A9L40200
 	IPRD40R-T2-3P TN-C		3P/6	40/15	230/400 340	-	-	-	A9L40301
	IPRD40-T2-3P	TN-C	3P/6	40/15	-	340	-	-	A9L40300
	IPRD40R-T2-3P-IT IT		3P/6	40/15	-	460	-	-	A9L16563
 	IPRD40R-T2-3P+N TT & TN-S 3P/6			40/15	-	-	260	340	A9L40601
	IPRD40-T2-3P+N TT & TN-S 3P/6			40/15	-	-	260	340	A9L40600
 	IPRD40R-T2-4P	IT	4P/8	40/15	-	460	460	-	A9L16597
	IPRD40R-T2-4P TN-C		4P/8	40/15	-	340	340	-	A9L40401
	IPRD40-T2-4P	TN-C	4P/8	40/15	-	340	340	-	A9L40400
 	IPRD20-T2-1P	TT & TN	1P/2	20/5	230	340	-	-	A9L20100
 	IPRD20R-T2-1P+N TT & TN-S 1P+N/4			20/5	-	-	260	340	A9L20501
	IPRD20-T2-1P+N TT & TN-S 1P+N/4			20/5	-	-	260	340	A9L20500
 	IPRD20-T2-2P	TN-C	2P/4	20/5	-	340	340	-	A9L20200
 	IPRD20-T2-3P	TN-C	3P/6	20/5	230/400 340	-	-	-	A9L20300
	IPRD20R-T2-3P	IT	3P/6	20/5	-	460	-	-	A9L16573

Surge arresters Type 2 (class C)


IEC 61643-1
EN 61643-11 Type 2

iPRD Type 2 (Class C)									
	Type	Network type	Number of poles/module width 18 mm	Discharge current I _{max} (8/20)/ rated discharge current I _n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U _c [V]			Nr. ref.
						CM* THE	NEITHER	DM* L/N	
	iPRD20R-T2-3P+N TT & TN-S 3P+N/8			20/5	-	-	260	340	A9L20601
	iPRD20-T2-3P+N TT & TN-S 3P+N/8			20/5	-	-	260	340	A9L20600
	iPRD20R-T2-4P	IT	4P/8	20/5	-	460	460	-	A9L16599
	iPRD20-T2-4P	TN-C	4P/8	20/5	-	340	340	-	A9L20400

* CM: common mode (phase to ground and neutral to ground)

DM: differential mode (phase to neutral)

[†] U_{oc}: combined impulse, voltage: 10 kV.

Accessories			
Spare cartridges			
	Type	Spare cartridges for:	Nr. ref.
	C 65-340	iPRD65r	A9L65102
	C 40-340	iPRD40, iPRD40r	A9L40102
	C 20-340	iPRD20, iPRD20r	A9L20102
	C neutral	All	A9L00002

Surge arresters Type 2+3 (class C+D)

IEC 61643-1
EN 61643-11 Type 2

Type 2+3/class C+D

iPF

Each surge protector has a specific scope of application:

- second degree protection (Type 2 or 3):
 - iPF8 provides second stage protection for receiving devices and is installed in cascade with surge arresters installed at the input. This surge arrester should be installed close to the loads when they are more than 30 m away from the input surge arrester.

iPF surge arresters marked "r" are equipped with signaling that allows remote notification of the need to replace the insert.



The iPF multi-pole one-piece surge arresters are suitable for earthing systems: TT, TN-S, TN-C.

Basic information		
Working frequency	50/60 Hz	
Rated voltage (Ue)	230/400 V AC	
Continuous operating current (Ic)	< 1 mA	
Response time	< 25 ns	
Damage indicator: mechanical	Green	Action
	Red	Broken
Remote indication of damage status	Via NO, NC contact 250 V/0.25 A	
Additional data		
Working temperature	-25°C do +60°C	
Type of connection terminals	Sleeve terminals, 2.5 to 35 mm ²	
Norms	IEC 61643-1 T2 in EN 61643-11 Type 2	

iPRD

- 1P, 1P+N, 3P, 4P, 3P+N versions
- maximum discharge current I_{max} = 20, 40 and 65 kA
- voltage protection level Up < 1.5 kV
- **varistor technology**
- fault signaling: indicator, remote signaling: NO/NC contact 0.25 A/250 V AC

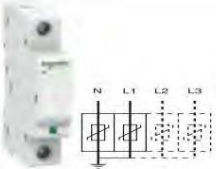
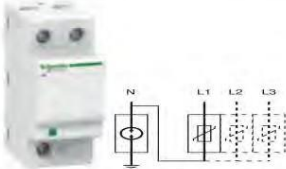
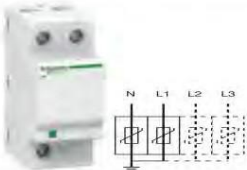
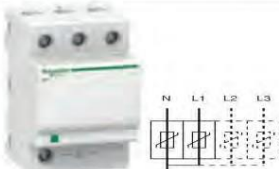
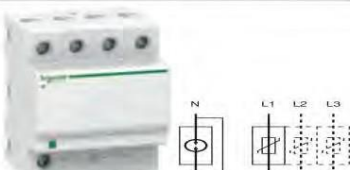

iPRD surge arresters enable quick replacement of inserts with varistor elements.



Basic information		
Working frequency	50/60 Hz	
Rated voltage (Ue)	230/400 V AC	
Continuous operating current (Ic)	< 1 mA	
Response time	< 25 ns	
Damage indicator: mechanical	Green	Action
	Red	Broken
Remote indication of damage status	Via NO, NC contact 250 V/0.25 A	
Additional data		
Working temperature	-25°C do +60°C	
Type of connection terminals	Sleeve terminals, 2.5 to 35 mm ²	
Norms	IEC 61643-1 T2 in EN 61643-11 Type 2	

Surge arresters Type 2+3 (class C+D)

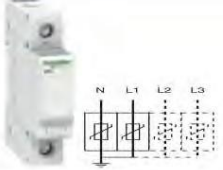
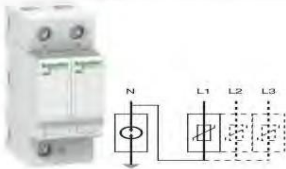
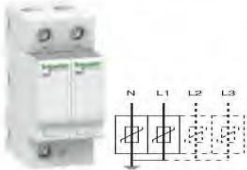

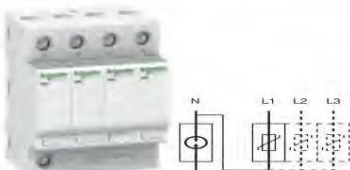

IEC 61643-1
EN 61643-11 Type 2

iPF Type 2+3 (class C+D)									
Image	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]			Nr ref.
						CM* THE	NEITHER	DM* L/N	
	iPF8-T2+3-1P	TT & TN	1P/2	8/2,5	230	340	-	-	A9L15694
	iPF8-T2+3-1P+N TT & TN-S 1P+N/4			8/2,5	230	260	340		A9L15695
	iPF8-T2+3-2P	TN-C	2P/4	8/2,5	230	340	340		A9L15595
	iPF8-T2+3-3P	TN-C	3P/8	8/2,5	230/400	340			A9L15598
	iPF8-T2+3-3P+N TT & TN-S 3P+N/8			8/2,5	230/400	260	340		A9L15696
	iPF8-T2+3-4P	TN-C	4P/8	8/2,5	230/400	340	340		A9L15596

* CM: common mode (phase to ground and neutral to ground)
DM: differential mode (phase to neutral)
Uoc: combined impulse, voltage: 10 kV.


Surge arresters Type 2+3 (class C+D)

IEC 61643-1
EN 61643-11 Type 2

iPRD Type 2+3 (class C+D)								
Image	Type	Network type	Number of poles/ module width 18 mm	Discharge current I_{max} (8/20)/ rated discharge current I_n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U_c [V]		Nr ref.
						CM* L/EN/EL/N	DM*	
	iPRD8-T2+3-1P	TT & TN 1P/2		8/2,5	230	340	-	A9L08100
	iPRD8R-T2+3-1P+N TT & TN-S 1P+N/4			8/2,5	-	260	340	A9L08501
	iPRD8-T2+3-1P+N TT & TN-S 1P+N/4			8/2,5	-	260	340	A9L16577
	iPRD8-T2+3-2P	TN-C	2P/4	8/2,5	-	340	340 -	A9L08200
	iPRD8-T2+3-3P	TN-C	3P/6	8/2,5	230/400	340	-	A9L08300
	iPRD8-T2+3-3P	IT	3P/6	8/2,5	-	460	-	A9L16578
	iPRD8R-T2+3-3P+N TT & TN-S 3P+N/8			8/2,5	-	260	340	A9L08601
	iPRD8-T2+3-3P+N TT & TN-S 3P+N/8			8/2,5	-	260	340	A9L08600
	iPRD8R-T2+3-4P	IT	4P/8	8/2,5	-	460	460 -	A9L16678
	iPRD8-T2+3-4P	TN-C	4P/8	8/2,5	-	340	340 -	A9L08400

* CM: common mode (phase to ground and neutral to ground)
DM: differential mode (phase to neutral)
Uoc: combined impulse, voltage: 10 kV.

Auxiliary accessories for Type 2+3 surge arresters

Spare cartridges			
	Type	Spare cartridges for:	Nr. ref.
	C 8-460	iPRD8r IT	A9L16688
	C 8-340	iPRD8, iPRD8r	A9L08102
	C neutral	All	A9L00002

Protectors with built-in protection, iQuick PRD20r, iQuick PRD40r (class C) and iQuick PRD8 (class C+D)

IEC 61643-1 T2
EN 61643-11 Type 2



Innovative iQuick PRD surge arresters with built-in back-up protection (overcurrent switch) protect electrical and electronic devices against induced atmospheric overvoltages.

Each surge arrester of this type is used for:

- input protection (Type 2):
 - iQuick PRD 40r is recommended for medium risk levels,
 - iQuick PRD 20r is recommended for average risk levels,
- second level protection (Type 2 or 3):
 - iQuick PRD 8r provides the second level of protection for receiving devices and is installed in a cascade with surge arresters installed at the input. Such a surge arrester should be installed close to the loads when they are more than 30 m away from the surge arrester installed at the input.

iQuick PRD surge arresters enable quick replacement of damaged inserts with varistor elements. They have signaling that allows you to remotely inform about the need to replace the insert.

Basic information


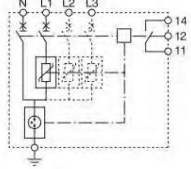

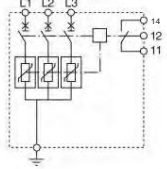

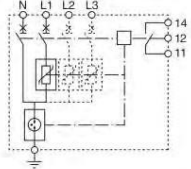

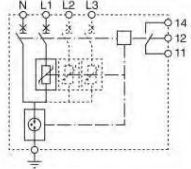

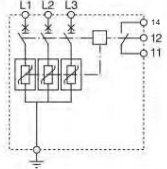
Working frequency	50/60 Hz		
Rated voltage (Ue)	230/400 V AC		
Breaking capacity of circuit breaker (Isc)	8r/20r	25 kA (50 Hz)	
	40r	25 kA (50 Hz)	
Constant operating current	< 1 mA		
Response time	< 25 ns		
Damage condition	With cartridges	White	Action
		Red	Broken
	Lever in off position, white indicator	Action	
	Lever in off position, red indicator	Damaged	
Damage indicator	Via NC/NO contact 250 V AC/2 A		

Additional data

Level of security	The device itself	IP20, IK05
	Device in a housing	IP40
Working temperature	–25°C do +70°C	
Storage temperature	–40°C do +80°C	
Certificates	NF, KEMA KEUR (iQuick PRD 8r, 20r)	

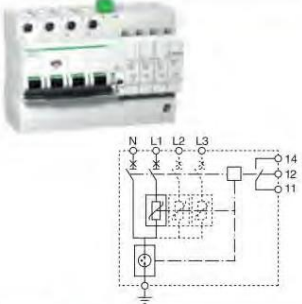
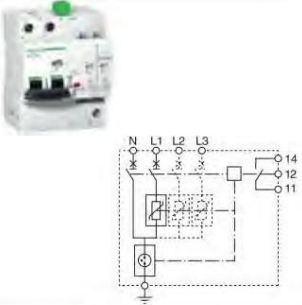
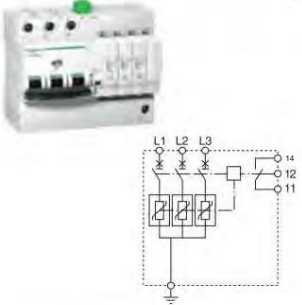
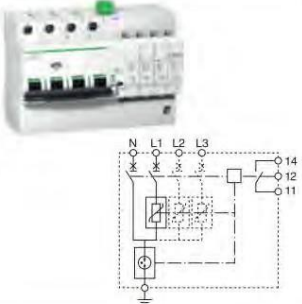
Protectors with built-in protection, iQuick PRD20r, iQuick PRD40r (class C) and iQuick PRD8 (class C+D)

IEC 61643-1 T2
EN 61643-11 Type 2

iQuick PRD20r, iQuick PRD40r (Class C) and iQuick PRD8 (Class C+D)									
Type	Network type	Number of poles/module width 18 mm	Discharge current I _{max} (8/20)/ rated discharge current I _n (8/20) [kA]	Rated voltage [IN]	Maximum permissible operating voltage U _c [V]			Nr ref.	
					CM* THE	NEITHER	DM* L/N		
 	PRD40R-T2-1P+N TT & TN-S		1P+N/8	40/20	230		264	350	A9L16292
 	PRD40R-T2-3P	TN-C & IT 230 V 3P/13		40/20	230/400				A9L16293
 	PRD40R-T2-3P+N TT & TN-S		3P+N/15 40/20		230/400		264	350	A9L16294
 	PRD20R-T2-1P+N TT & TN-S		1P+N/8	20/6	230		264	350	A9L16295
 	PRD20R-T2-3P	TN-C & IT 230 V 3P/13		20/6	230/400				A9L16296

Protectors with built-in protection, iQuick PRD20r, iQuick PRD40r (class C) and iQuick PRD8 (class C+D)

IEC 61643-1 T2
EN 61643-11 Type 2

iQuick PRD20r, iQuick PRD40r (Class C) and iQuick PRD8 (Class C+D)								
Image	Type	Network type	Number of poles/module width 18 mm	Discharge current I _{max} (8/20)/ rated discharge current I _n (8/20) [kA]	Rated voltage [V]	Maximum permissible operating voltage U _c [V]		Nr ref.
						CM* L/EN/EL/N	DM*	
	PRD20R-T2-3P+N TT & TN-S		3P+N/15 20/6		230/400	264	350	A9L16297
	PRD8R-T2+3-1P+N TT & TN-S		1P+N/8	8/2	230	264	350	A9L16298
	PRD8R-T2+3-3P TN-C & IT 230 V 3P/13			8/2	230/400	350		A9L16299
	PRD8R-T2+3-3P+N TT & TN-S		3P+N/15 8/2		230/400	264	350	A9L16300

* **CM**: common mode (phase to ground and neutral to ground)
DM: differential mode (phase to neutral)
(iQuick PRD8R) U_{oc}: compound surge, voltage: 10 kV

Auxiliary accessories for protectors with protection

Replaceable cartridges



Type	Replacement cartridges for:	Nr ref.
C 40-350	iQuick PRD40r	A9L16310
C 20-350	iQuick PRD20r	A9L16311
C 8-350	iQuick PRD8r	A9L16312
C neutral-350	All	A9L16313





The grounding terminal block should consist of 1 base and 1 set of terminals.

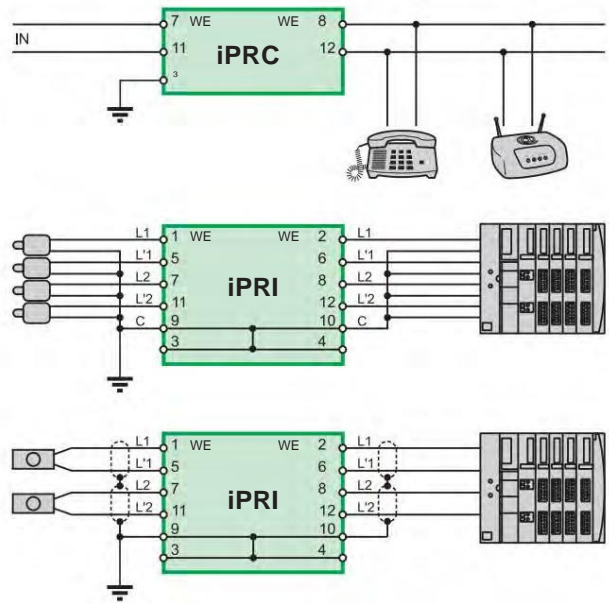


Replaceable cartridges

Grounding terminal block

Name	Nr ref.
 Base (4 blocks wide)	PRA90053
 Set of clamps 25 mm ² (5 pcs. in a set)	PRA90046

iPRC, iPRI surge arresters




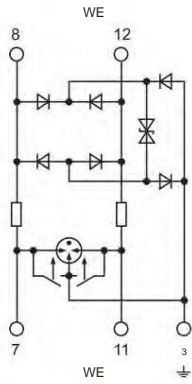

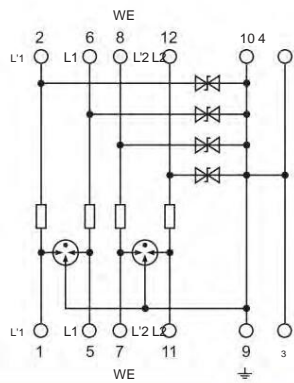
Application

Protection of analog telephone lines: PRC protectors are used to protect telephones, PABX, modems, etc.

Protection of two-line low-current systems without a common reference potential or 4-line systems with a common reference potential: PRI arresters are used to protect measuring systems, PLC inputs (sensors), inputs of DC power supplies up to 53 V and inputs of AC power supplies up to 37 V. The input current cannot exceed 300 mA.

Basic information			
	iPRC	iPRI	
Number of protected lines	2	2	
IEC/VDE category	C1, C2, C3, D1, B2	C1, C2, C3, D1, B2	
The highest constant operating voltage (Uc)	180 V DC, 130 V AC	53 V DC, 37 V AC	
Voltage protection level (Up)	300 V	70 V	
Rated discharge current (8/20) (In)	10 kA	10 kA	
Maximum discharge current (8/20) (Imax)	18 kA	10 kA	
Response time	< 500ns	γ 1γns	
Rated impulse current	100jA	70jA	
Rated current (IN)	450 mA (up to 45°C)	300 mA (up to 45°C)	
Longitudinal resistance	2.2 Ohms	4.7 Ohms	
Damage indicator	Signal loss	Transmission loss	
Additional data			
Level of security	Clamps	IP20	IP20
	Front panel	IP40	IP40
	I	05	05
Working temperature	-25°C do +60°C		-25°C do +60°C
Storage temperature	-40°C do +85°C		-40 C do +85°C

iPRC, iPRI surge arresters

iPRC, iPRI surge arresters									
	Tension (And)	Analog telephone network	Telephone relay	Digital telephone network	Automation networksupply (12...48 V)	VLV power (12...48 V)	xDSL compatibility	Width 18 mm modules	Nr ref.
iPRC									
	< 130 V AC •								A9L16337
									
iPRI									
	48 V DC								A9L16339
									










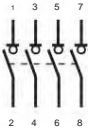
Application of iSW switch disconnectors:





- Control (opening and closing circuits under load).
 1P and 2P switches are available with or without indicator light.
- Disconnection – switches without indicator light, IEC/EN 60669-2-4.






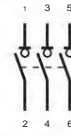

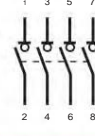
OF and SW auxiliary equipment

Mounted on the left side, they signal the "open" or "closed" state. The switches have a normally open (NO) or normally closed (NC) contact.

Basic information				
	20, 32 A iSW		40 do 125 A iSW	
Rated insulation voltage (Ui)	Without warning light • 1P: 250 V AC • 2P, 3P, 4P: 500 V AC	With indicator light • 250 V AC	1P: 250 V AC 2P, 3P, 4P: 500 V AC	
Degree of pollution	2		3	
Main circuit				
Rated impulse withstand voltage (Uimp)	4 kV		6 kV	
Job category	AC – 22A		AC – 22A	
Permissible short-time withstand current (Icw)			40 A, 63 A: 1260 A 100 A, 125 A: 2500 A	
Conditional short-circuit current (Inc)	3 kA according to IEC/EN 60669-2-4		6 kA according to IEC 60947-3	
Rated making current (Icm)			40 A, 63 A: 4.2 kA 100 A, 125 A: 5 kA	
Direct current use	48V (110V – 2 poles connected in series)			
Additional data				
Level of security	IP40 from the front panel side			
Durability (OC)	Mechanical	300,000 cycles	50,000 cycles	
	Electric	30,000 cycles	40, 63 A iSW 100A iSW	20,000 cycles 10,000 cycles
			125 A iSW	2500 cycles
Working temperature	–20°C do +50°C			
Storage temperature	–40°C do +70°C			
Tropicalization	T2 (relative humidity 95% at 55°C)			

iSW control switches (20, 32 A)				
	Rated current (In)	Voltage (Ue)	Type	Nr ref.
1P/1  	20yA	250 V AC	iSW-20	A9S65120
	32yA	250 V AC	iSW-32	A9S65132
2P/1  	20yA	415 V AC	iSW-20-2	A9S65220
	32yA	415 V AC	iSW-32-2	A9S65232
3P/2  	20yA	415 V AC	iSW-20-3	A9S65320
	32yA	415 V AC	iSW-32-3	A9S65332
4P/2  	20yA	415 V AC	iSW-20-4	A9S65420
	32yA	415 V AC	iSW-32-4	A9S65432

iSW 20, 32 A control switches with indicator light			
	Rated current (In)	Type	Nr ref.
1P/1  	20yA	iSWlamp-20	A9S61120
	32yA	iSWlamp-32	A9S61132
2P/1  	20yA	iSWlamp-20-2	A9S61220
	32yA	iSWlamp-32-2	A9S61232

iSW switch disconnectors (40 to 125 A)				
	Rated current (In)	Voltage (Ue)	Type	Nr ref.
1P/1  	40yA	250 V AC	iSW-40	A9S65140
	63yA	250 V AC	iSW-63	A9S65163
	100yA	250 V AC	iSW-100	A9S65191
	125yA	250 V AC	iSW-125	A9S65192
2P/2  	40yA	415 V AC	iSW-40-2	A9S65240
	63yA	415 V AC	iSW-63-2	A9S65263
	100yA	415 V AC	iSW-100-2	A9S65291
	125yA	415 V AC	iSW-125-2	A9S65292
3P/3  	40yA	415 V AC	iSW-40-3	A9S65340
	63yA	415 V AC	iSW-63-3	A9S65363
	100yA	415 V AC	iSW-100-3	A9S65391
	125yA	415 V AC	iSW-125-3	A9S65392
4P/4  	40yA	415 V AC	iSW-40-4	A9S65440
	63yA	415 V AC	iSW-63-4	A9S65463
	100yA	415 V AC	iSW-100-4	A9S65491
	125yA	415 V AC	iSW-125-4	A9S65492

Auxiliary accessories for iSW connectors

Spare signal lamps for iSW 20, 32 A switches



Type	Voltage (Ue)	Nr ref.
Red neon light (10 pcs)	230 V AC	15111
Red bulb P = 1.2 W (10 pcs)	12 V DC/AC	15112
	24 V DC/AC	15113
	48 V DC/AC	15114

OF and SW auxiliary equipment



Rated current (In)	Voltage (Ue)	Nr ref.
3 A	415 V AC	A9A15096

Connection rails

	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 -			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 -			A9XPH224 A9XPH257
	3P	L1L2L3...	-	A9XPH312 -			A9XPH324 A9XPH357
	4P	NL1L2L3...	-	A9XPH412 -			A9XPH424 A9XPH457
	3 (N+P)	NL1NL2NL3... -		A9XPH512 A9XPH518 A9XPH524 A9XPH557			
	Aux+1P	AuxL1...	-	-	-	-	A9XAH157
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+3P	AUXL1L2L3...	-	-	-	-	A9XAH357
	Aux+4P	AuxNL1L2L3... -	-	-	-	-	A9XAH457

Remotely operated switch disconnectors type iSW-NA

Rated switching voltage
1P+N 230–240 V AC
3P+N 400–415 V AC
IEC/EN 60947-3



Remotely operated iSW-NA disconnectors fulfill the following functions:

- control (opening and closing circuits under load),
- isolating disconnection.

They are intended for switchboards and junction boxes in residential and industrial buildings, with the possibility of remote triggering via a coil.

Basic information		
According to IEC/EN 60947-3		
		40/60 A 80/100 A
Rated insulation voltage (Ui)	500 V AC	
Degree of pollution	3	
Rated impulse withstand voltage (Uimp)	6 kV	
Job category	AC – 22A	
Permissible short-time withstand current (Icw)	20 In/1 s	15 In/1 s
Rated making current (Icm)	5 kA	
Rated conditional breaking current (Inc/Iyc)	Z iC60N/H/L	Equal to the breaking current iC60
	With fuse	6000 A
Additional data		
Level of security	The device itself	IP20
	Device in a modular housing	IP40 Class II insulation
Durability (OC)	Electric	15,000 cycles 10,000 cycles
	Mechanical	20,000 cycles
Working temperature	–35°C do +70°C	
Storage temperature	–40°C do +85°C	
Tropicalization	T2 (relative humidity 95% at 55%)	

Remotely operated switch disconnectors type iSW-NA





Rated switching voltage
1P+N 230–240 V AC
3P+N 400–415 V AC
IEC/EN 60947-3










iSW-NA				
	Rated current (In)	Type	Module width 18 mm	Nr ref.
1P+N				
	40 A	iSW-NA-40-1N	2	A9S70640
	63 A	iSW-NA-63-1N	2	A9S70663
	80 A	iSW-NA-80-1N	2	A9S70680
	100 A	iSW-NA-100-1N	2	A9S70690
3P+N				
	40 A	iSW-NA-40-3N	4	A9S70740
	63 A	iSW-NA-63-3N	4	A9S70763
	80 A	iSW-NA-80-3N	4	A9S70780
	100 A	iSW-NA-100-3N	4	A9S70790

Auxiliary accessories for iSW-NA switch disconnectors

Triggers					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Instantaneous undervoltage release	iMN	220...240 V AC 48 V AC, 48 V DC 115 V AC, 48 V DC	1	A9A26960 A9A26961 A9A26959
	Time-delayed undervoltage release	iMNs	220...240 V AC	1	A9A26963
	Undervoltage release independent of supply voltage	iMNx	220...240 V AC 280...415 V AC	1	A9A26969 A9A26971
	Voltage release	iMSU	230 V AC	1	A9A26500
	Growth trigger	iMX	100...415 V AC, 100...130 V DC 48 V AC 48 V DC 12...25 V AC, 12...25 V DC	1	A9A26476 A9A26477 A9A26478
	Shunt release with built-in open/closed contact	iMX+OF	100...415 V AC, 100...130 V DC 48 V AC, 48 V DC 12...24 V AC, 12...24 V DC	1	A9A26946 A9A26947 A9A26948

Auxiliary accessories for iSW-NA switch disconnectors





Signaling					
	Name	Type	Tension	Module width 18 mm	Nr ref.
	Auxiliary contacts open/closed iOF		240...415 V AC, 24...130 V DC	0,5	A9A26924
	Fault signaling contacts	iSD	240...415 V AC, 24...130 V DC	0,5	A9A26927
	Dual contacts open/closed or fault indication	iOF/SD+OF	240...415 V AC, 24...130 V DC	0,5	A9A26929
	Dual contacts open/closed and fault indication	iOF+SD24	24 V DC	0,5	A9A26897

Connection rails							
	Number of poles	Type	Module width 18 mm				
			6	12	18	24	57 (side covers ordered separately)
	1P	L1...	A9XPH106 A9XPH112 –			A9XPH124 A9XPH157	
	2P	L1L2...	-	A9XPH212 –		A9XPH224 A9XPH257	
	3P	L1L2L3...	-	A9XPH312 –		A9XPH324 A9XPH357	
	4P	NL1L2L3...	-	A9XPH412 –		A9XPH424 A9XPH457	
	3 (N+P)	NL1NL2NL3... –		A9XPH512 A9XPH518 A9XPH524 A9XPH557			
	Aux+1P	AuxL1...	-	-	-	-	A9XAH157
	Aux+2P	AuxL1L2	-	-	-	-	A9XAH257
	Aux+3P	AUXL1L2L3...	-	-	-	-	A9XAH357
	Aux+4P	AuxNL1L2L3... –		-	-	-	A9XAH457

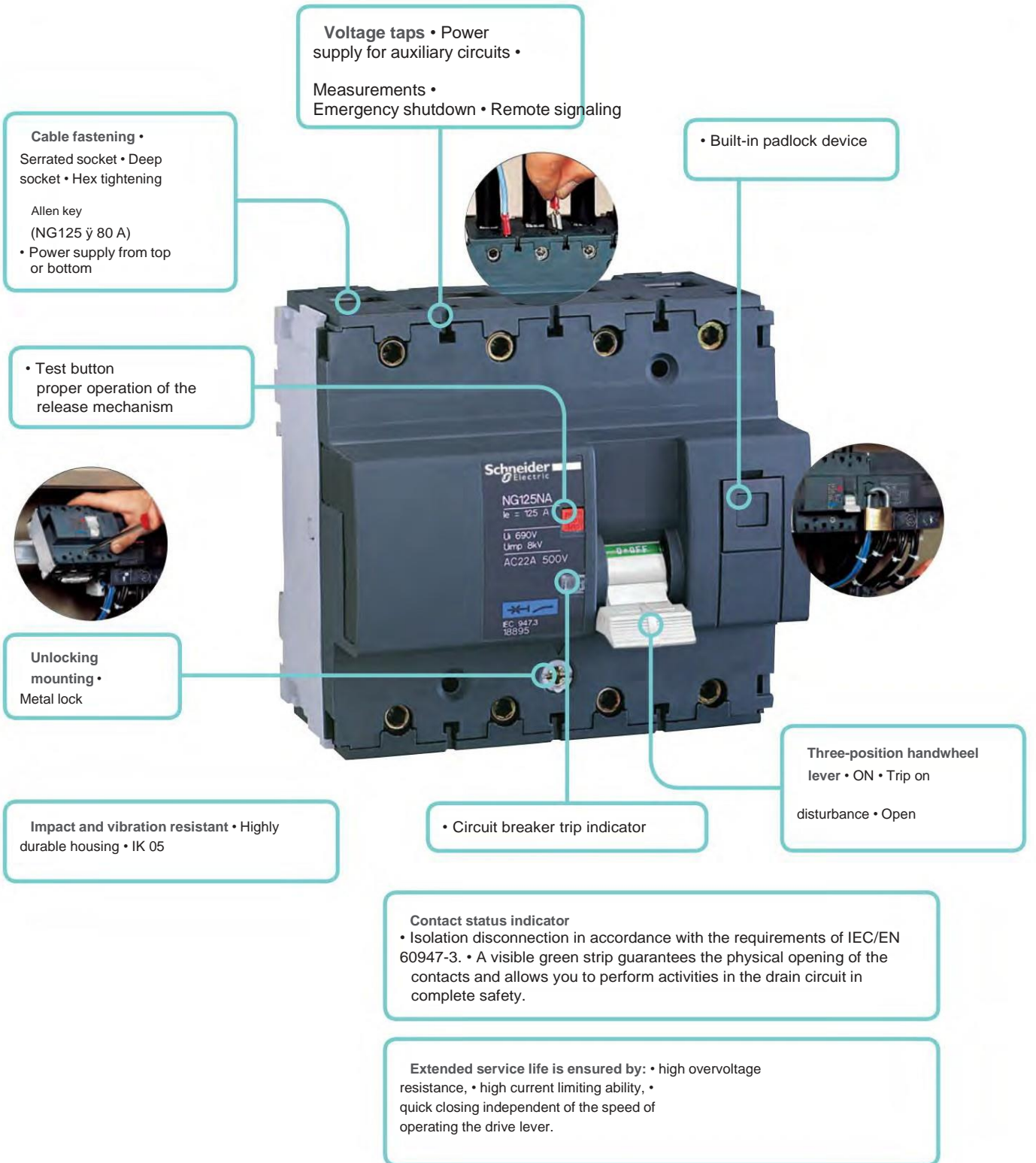


SW switches can be used to control and disconnect loads in electrical circuits already protected against overload and short circuit.

Basic information		
Rated insulation voltage (Ui)	500 V AC	
Degree of pollution	3	
Main circuit		
Rated impulse withstand voltage (Uimp)	6 kV	
Job category	AC – 22A	
Permissible short-time withstand current (Icw)	1260 A	
Conditional short-circuit current (Inc)	6 kA according to IEC 60947-3	
Rated making current (Icm)	4.2 kA	
Direct current use	48V (110V – 2 poles connected in series)	
Additional data		
Level of security	The device itself	IP20
	Device in a modular housing	IP40
Durability (OC)	Mechanical	50,000 cycles
	Electric	20,000 cycles
Working temperature	–20°C do +50°C	
Storage temperature	–40°C do +70°C	
Tropicalization	T2 (relative humidity 95% at 55°C)	


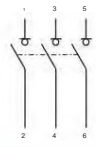

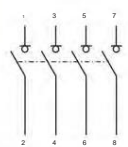
SW disconnectors				
	Rated current (In)	Type	Module width 18 mm	Nr ref.
<p>1P</p>  	63 A	SW-63	1	A9S62163
<p>3P</p>  	63 A	SW-63-3	3	A9S62363

Accessories			
Connection rails	Type	Module width 18 mm	Nr ref.
<p>1P</p> 	L1	12	R9XFH112
		18	R9XFH118
		57	R9XFH157
<p>3P</p> 	L1L2L3	12	R9XFH312
		18	R9XFH318
		57	R9XFH357

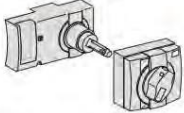







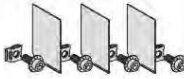

The NG125NA switch with free tripping is used for making and breaking under load. With a remote switch-off function, it is used especially in modular switchboards on the inlet (e.g. emergency switch-off).

Basic information			
According to IEC/EN 60947-3			
Highest switching voltage (Ue)	500 V AC		
Rated insulation voltage (Ui)	690 V AC		
Degree of pollution	3		
Rated impulse withstand voltage (Uimp)	8 kV		
Short-time withstand current (50 ms) Icw	1.5 kA		
Job category	AC – 22A/B – AC – 23B		
Additional data			
Degree of protection (IEC 60529)	The device itself	IP20	
	Device in a modular housing	IP40	
Durability (OC)		Category A	Category B
Electric (except AC20 and DC20)	ÿ 100 A	1500 cycles	300 cycles
	125 A	1000 cycles	200 cycles
Mechanical		20,000 cycles	
Working temperature		–30°C do +70°C	
Storage temperature		–40°C do +70°C	
Tropicalization (IEC 60068-1)		T2 (relative humidity 95% at 55°C)	


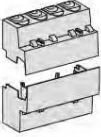

NG125NA			
	Rated current (In)	Type	Nr ref.
3P/4,5  	63 A	NG125NA-63-3	18889
	80 A	NG125NA -80-3	18890
	100 A	NG125NA-100-3	18891
	125 A	NG125NA-125-3	18892
	3P+N/6  	63 A	NG125NA-63-3N
80 A		NG125NA-80-3N	18894
100 A		NG125NA -100-3N	18895
125 A		NG125NA-125-3N	18896





Auxiliary accessories for NG125NA disconnectors

Installing			
	Name		Nr. ref.
	Rotary drive (1 piece)	Extended standard black	19088
		Extended safe	19089
		Direct standard	19092
		Extended safety red knob and yellow front cover	19097
	Drive lever (10 pieces)		19099
	Padlock device (1 piece)		19090

Joining			
	Name		Nr. ref.
	Multi-wire terminal	4 pieces	19091
		3 pieces	19096
	Al clamp 70 mm ² (4 pieces) 80, 100, 125 A		19095
	Screw connection for ring terminals (4 pieces) 80, 100, 125 A		19093
	Connection for small ring terminals (4 pieces) 80, 100, 125 A		19094

Auxiliary accessories for NG125NA disconnectors




Security			
	Name	Number of poles	Nr. ref.
	Clamping screw protection (10 pieces)	1P	19084
		2P	19085
		3P	19086
		4P	19087
	Switch terminal cover	1P	19080
		2P	19081
		3P	19082
		4P	19083
	RCD terminal cover	2P 63 A	19074
		3P 63 A	19075
		3P customizable 63 A	19077
		4P 63 A	19076
		4P adaptable 63 A	19078
		3P 125 A	19077
4P 125 A	19078		

Connection rails			
	Number of poles	Width	Nr ref.
	1P	16 modules, 27 mm	14811
	2P	16 modules, 27 mm	14812
	3P	15 modules, 27 mm	14813
	4P	16 modules, 27 mm	14814



iPB buttons are used for pulse control of electrical circuits.


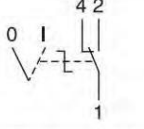
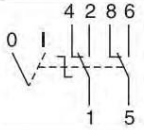
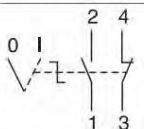

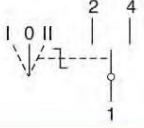
Basic information	
Degree of pollution	3
Main circuit	
Rated voltage (Ue)	250 V AC
Rated current (Ie)	20 A
Additional data	
Durability (OC)	30,000 AC22 switches (cos ϕ = 0.8)
Working temperature	-35°C...+70°C
Storage temperature	-40°C...+80°C
Tropicalization	T2 (relative humidity 95% at 55°C)
LED indicator light	Power consumption: 0.3 W
	Operating time: 100,000 hours of continuous lighting
	Signal lights are maintenance-free (LED lights are not replaceable)

iPB					
	Type	Button color	Signal light: power/color	Module width 18 mm	Nr ref.
Single					
	1 NC 3 E-7 4	iPB-poj-NC-sza	Gray		A9E18030
		iPB-poj-NC-cz	Red		A9E18031
	1 NC 3 E-7 4	iPB-poj-NO-sza	Gray		A9E18032
	1 NO + 1 NC 1 3 E-7 2 4	iPB-poj-NO+NC-sza	Gray		A9E18033
Double					
	1 NO / 1 NC 1 3 E-7 E-7 2 4	iPB-podw-NO/NC-see/cze	Green/Red –		A9E18034
	1 NO / 1 NO 1 3 E-7 E-7 2 4	iPB-podw-NO/NO-sza/sza	Grey/Grey		A9E18035
Single + indicator light					
	1 NO 1 X1 E-7 2 X2	iPB-poj-lamp-NO-sza-110...230-see	Gray	110...230 V AC/Green	A9E18036
	1 NC 3 X1 E-7 4 X2	iPB-poj-lamp-NO-sza-110...230-jun	Gray	110...230V AC/Red 1	A9E18037
	1 NO 1 X1- E-7 2 X2+	iPB-poj-lamp-NO-sza-12...48-see	Gray	12...48V AC/Green	A9E18038
	1 NC 3 X1- E-7 4 X2+	iPB-poj-lamp-NO-sza-12...48-jun	Gray	12...48V AC/Red	A9E18039



iSSW linear switches are used for manual control of electrical circuits.

Basic information	
Degree of pollution	3
Main circuit	
Rated voltage (Ue)	250 V AC
Rated current (Ie)	20 A
Additional data	
Durability (OC)	30,000 AC22 cycles (cos ϕ = 0.8)
Working temperature	-20°C...+50°C
Storage temperature	-40°C...+70°C
Tropicalization	T2 (relative humidity 95% at 55°C)

iSSW					
	Schemes	Type	Contacts	Module width 18 mm	Nr ref.
Two-position					
		iSSW-2poz-1ZSP	1 set of changeover contacts		A9E18070
		iSSW-2poz-2ZSP	2 sets of changeover contacts 2		A9E18071
		iSSW-2poz-1NO+1NC	1NO+1NC		A9E18072
Three-position					
		iSSW-3poz-1ZSP	1 set of changeover contacts		A9E18073
		iSSW-3poz-2ZSP	2 sets of changeover contacts 2		A9E18074
					

Position switches for DIN rail mounting iCMB, iCMD, iCME, iCMC, iCMV, iCMA

IEC 60947-3 (EN 60947-3)
VDE 0660 part. 107

UL


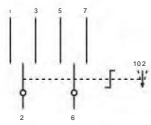

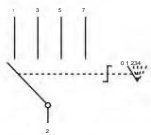

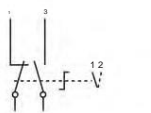

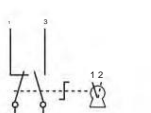

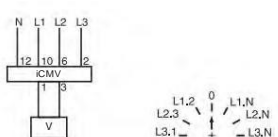

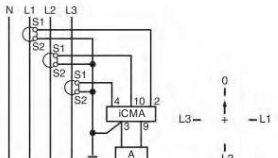


Technical data

		iCMB iCMD		iCME			iCMC iCMV iCMA		
Rated voltage (Ue)	V AC	415	415	See the table below			415	415	415
Maximum operating voltage	IN	440	440	440			440	440	440
Rated current	A	10	10	See the table below			10	10	10
Frequency	Hz	50/60	50/60	50/60			50/60	50/60	
Module width 18 mm		2	2	2			2	2	2
Breaking capacity (resistive load)					V AC	V DC			
	1 V				5ÿA	3ÿA			
	12 V				1,2ÿA	0,7ÿA			
	24 V				0,7ÿA	0,4ÿA			
	48 V				0,45ÿA	0,25ÿA			
	110 V				0,25ÿA	0,13ÿA			
	240 V				0,15ÿA	0,08ÿA			
	300 V				0,13ÿA	0,07ÿA			
440 V				0,1ÿA	0,05ÿA				
Working temperature	°C	-20...+55	-20...+50	-20...+55			-20...+55	-20...+55	-20...+55
Storage temperature	°C	-25...+80	-25...+80	-25...+80			-25...+80	-25...+80	-25...+80

Additional data



Level of security	The device itself	IP20
Durability (OC)	Electric	1,000,000 switching operations
	Mechanical	2,000,000 switching operations (AC21A-3 x 440 V)

Position switches					
	Name	Functions	Type	Module width 18 mm	Nr ref.
 	2 sets of changeover contacts with off position	A switch with two sets of switchable contacts allows manual control of the circuit with two operating directions and an off position	iCMB 2		A9E15120
 	Four-position	The four-position switch allows you to control the circuit with forced operation mode	iCMD 2		A9E15121
 	Two-position for electronic circuits	Two-position switch used especially for electronic circuits operating at low voltage and low currents	iCME 2		A9E15122
 	Two-position key-operated	Key-operated two-position switch with lock in both positions	iCMC 2		A9E15123
 	Seven-position voltmeter	The seven-position voltmeter switch enables voltage measurement with one voltmeter successively (interphase and phase) in a three-phase circuit	iCMV 2		15125
 	Four-position ammeter	The four-position ammeter switch enables current measurement (using current transformers) with one ammeter in a three-phase circuit.	iCMA 2		15126

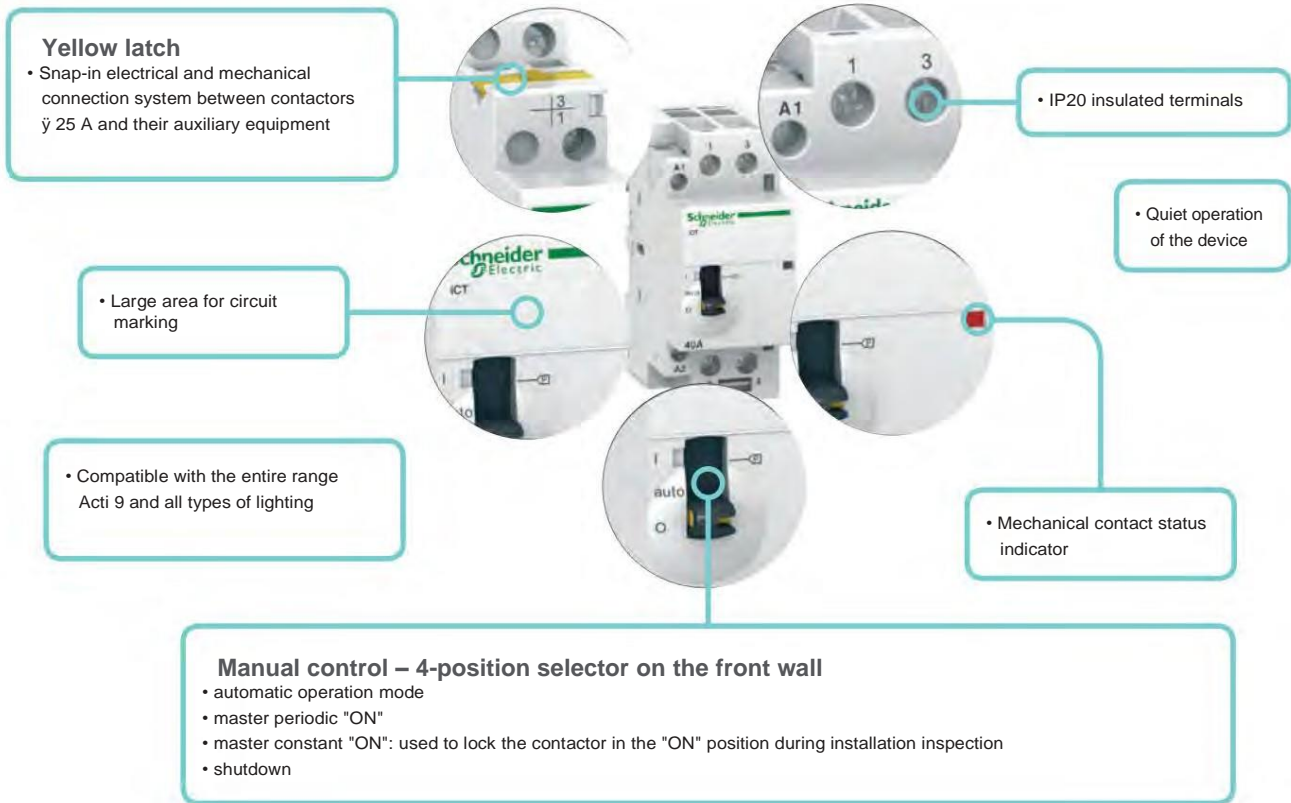
Button holders

The holders can be installed on a 35 mm symmetrical rail in modular cabinets and housings. They are used to attach control and signaling equipment: emergency buttons, switches and signal lights. They are used in general and industrial construction.

Basic information		
	Button holder	Universal holder
For buttons, switches and indicators with metal or plastic flange Ø 22 mm, types XB4/ XB5 Schneider Electric	.	.
For buttons, indicators, light diodes (LEDs), potentiometers	-	.
Drilled holes	Ø 22,3 mm	Easy drilling according to the devices to be mounted
Color	White RAL 9003	
Self-extinguishing insulating material		
Depth from the rail 60 mm (the handle itself)		

Button holders			
	Type	Module width 18 mm	Nr ref.
	Handles with Ø 22 mm hole	3	A9A15151
	Universal holders	3	A9A15152

Notes



iCT contactors are available in two versions:

- contactors without manual control,
- contactors with manual control.

Power circuit		
Rated voltage (Ue)	1P, 2P	250 V AC
	3P, 4P	400 V AC
Frequency	50 Hz or 60 Hz	
Type of load	See technical appendix	
Durability (OC)		
Electric	100,000 cycles	
Maximum number of switching operations per day	100	
Additional data		
Rated insulation voltage (Ui)	500 V AC	
Degree of pollution	2	
Rated impulse withstand voltage (Uimp)	2.5 kV (4 kV for 12/24/48 V AC)	
Degree of protection (IEC 60529)	The device itself	IP20
	Device in a modular housing	IP40
Working temperature	-5°C do +60°C a	
Storage temperature	-40°C do +70°C	
Tropicalization (IEC 60068-1)	T2 (relative humidity 95% 55°C)	
ELSV (Extra Low Safety Voltage) for 12/24/48 V AC versions		
The device control complies with SLSV (Safety Extra Low Voltage) requirements		

a If the contactor is installed in a housing with a temperature between 50°C and 60°C, it is necessary to use a spacer, part no. A9A27062, between each contactor.

Modular contactors and pulse relays do not use the same technologies. Their rated currents are determined according to various standards and do not correspond to the rated current of the circuit. For example, for a given current rating, a pulse relay performs better than a modular contactor in lighting control circuits with high switch-on currents or in circuits with a low power factor (uncompensated inductive circuits).

Rated current of relays

- The table below shows the maximum number of lighting fixtures per relay, depending on the type, power and configuration of the lamp. The total permitted power is also provided for information purposes.
- Values are given for a 230 V circuit with two active conductors (single-phase phase/neutral or two-phase phase/phase). For 110V circuits, divide the values in the table by two.
- To obtain the appropriate values for a three-phase circuit with a voltage of 230 V, the number of lamps and the maximum power should be multiplied by:
 - 1.73 for circuits with a voltage of 230 V between phases without a neutral wire;
 - 1.73 for circuits with a voltage of 230 V between phases and neutral or 400 V between phases.

Note: The power ratings of the most commonly used lamps are shown in bold. For power values not listed, the principle of proportionality should be applied to the closest values.

Selection table							
Type of light source	Specific power and capacitor capacity to improve power factor	iTL impulse relays		iCT contactors			
		The maximum number of light sources powered by a single-phase circuit and the maximum power consumption of the circuit					
		16 A	32 A	16 A	25 A	40 A	63/100 A
Incandescent lamps, low voltage halogen lamps, interchangeable with mercury lamps (without ballast)							
	40 W	40	106	38	57	115	172
	60 W	25	66	30	45	85	125
	75 W	20	53	25	38	70	100
	100W	16	42	19	28	50	73
	150 W	10	28	12	18	35	50
	200 W	8	21	10	14	26	37
	300 W	5	13	7	10	118	25
	500W	3	8	4	6	10	15
	1000W	1	4	2	3	6	8
	1500 W	1	2	1	2	4	5
Very low voltage halogen lamps 12 V or 24 V							
With ferromagnetic transformer	20 W	70	180	15	23	42	63
	50 W	28	74	10	15	27	42
	75 W	29	50	8	12	23	35
	100W	14	37	6	8	18	27
With electronic transformer	20 W	60	160	62	90	182	275
	50 W	25	65	25	39	76	114
	75 W	18	44	20	28	53	78
	100W	14	33	16	22	42	60

Selection table

		iTL impulse relays		iCT contactors			
Type of light source	Specific power and capacitor capacity to improve power factor	The maximum number of light sources powered by a single-phase circuit and the maximum power consumption of the circuit					
		16 A	32 A	16 A	25 A	40 A	63/100 A
Fluorescent lamps with starter and ferromagnetic ballast							
One fluorescent lamp without compensation , 15 W		83	213	22	30	70	100
	18 W	70	186	22	30	70	100
	20 W	62	160	22	30	70	100
	36 W	35	93	20	28	60	90
	40 W	31	81	20	28	60	90
	58 W	21	55	13	17	35	56
	65 W	20	50	13	17	35	56
	80 W	16	41	10	15	30	48
	115 W	11	29	7	10	20	32
One parallel-compensated fluorescent lamp b	15 W 5 yF	60	160	15	20	40	60
	18 W 5 yF	50	133	15	20	40	60
	20 W 5 yF	45	120	15	20	40	60
	36 W 5 yF	25	66	15	20	40	60
	40 W 5 yF	22	60	15	20	40	60
	58 W 7 yF	16	42	10	15	30	43
	65 W 7 yF	13	37	10	15	30	43
	80 W 7 yF	11	30	10	15	30	43
	115 W 16 yF	7	20	5	7	14	20
Two or four fluorescent lamps with series compensation	2 x 18 W	56	148	30	46	80	123
	4 x 18 W	28	74	16	24	44	68
	2 x 36 W	28	74	16	24	44	68
	2 x 58 W	17	45	10	16	27	42
	2 x 65 W	15	40	10	16	27	42
	2 x 80 W	12	33	9	13	22	34
	2 x 115 W	8	23	9	10	16	25
Fluorescent lamp with electronic ballast							
One or two fluorescent lamps	18 W	80	212	74	111	222	333
	36 W	40	106	38	58	117	176
	58 W	26	69	25	37	74	111
	2 x 18 W	40	106	36	55	111	166
	2 x 36 W	20	53	20	30	60	90
	2 x 58 W	13	34	12	19	38	57

Selection table								
Type of light source	Specific power and capacitor capacity to improve power factor	iTL impulse relays		iCT contactors				
		The maximum number of light sources powered by a single-phase circuit and the maximum power consumption of the circuit						
		16 A	32 A	16 A	25 A	40 A	63/100 A	
Miniature fluorescent lamps								
With external ballast	5 W	240	630	210	330	670	not tested	
	7 W	171	457	150	222	478		
	9 W	138	366	122	194	383		
	11 W	118	318	104	163	327		
	18 W	77	202	66	105	216		
	26 W	55	146	50	76	153		
With integrated electronic ballast (interchangeable with bulbs)	5 W	170	390	160	230	470	710	
	7 W	121	285	114	164	335	514	
	9 W	100	233	94	133	255	411	
	11 W	86	200	78	109	222	340	
	18 W	55	127	48	69	138	213	
	26 W	40	92	34	50	100	151	
High-pressure mercury lamps with ferromagnetic ballast, without igniter								
Interchangeable with high-pressure sodium lamps with ferromagnetic ballast, with integrated igniter c								
Without compensation a	50 W			15	20	34	53	
	80 W			10	15	27	40	
	125/110 W c			8	10	20	28	
	250/220 W c			4610 15				
	400/350 W c			24610				
	700 W			1	2	4	6	
With parallel compensation b	50 W	7 μ F	not tested, rare use	10	15	28	43	
	80 W	8 μ F		9	13	25	38	
	125/110 W c	10 μ F		9	10	20	30	
	250/220 W c	18 μ F		4	6	11	17	
	400/350 W c	25 μ F		3	4	8	12	
	700 W	40 μ F		2	2	5	7	
	1000W	60 μ F		0	1	3	5	
Low-pressure sodium lamps with ferromagnetic ballast and external igniter								
Without compensation a	35 W		not tested, rare use	5	9	14	24	
	55 W			5	9	14	24	
	90 W			3	6	9	19	
	135 W			2	4	6	10	
	180 W			2	4	6	10	
With parallel compensation b	35 W	20 μ F	38	102	3	5	10	15
	55 W	20 μ F	24	63	3	5	10	15
	90 W	26 μ F	15	40	2	4	8	11
	135 W	40 μ F	10	26	1	2	5	7
	180 W	45 μ F	7	18	1	2	4	6

Selection table								
		iTL impulse relays		iCT contactors				
Type of light source	Specific power and capacitor capacity to improve power factor		The maximum number of light sources powered by a single-phase circuit and the maximum power consumption of the circuit					
			16 A	32 A	16 A	25 A	40 A	63/100 A
High pressure sodium lamps								
Iodine lamps								
With ferromagnetic ballast, with external igniter, without compensation a	35 W		not tested, rare use		16	24	42	64
	70 W				8	12	20	32
	150 W				4	7	13	18
	250 W				2	4	8	11
	400 W				1	3	5	8
	1000W				0	1	2	3
With ferromagnetic ballast, with external igniter, with parallel compensation b	35 W	6 μ F	34	88	12	18	31	50
	70 W	12 μ F	17	45	6	9	16	25
	150 W	20 μ F	8	22	4	6	10	15
	250 W	32 μ F	5	13	3	4	7	10
	400 W	45 μ F	3	8	2	3	5	7
	1000W	60 μ F	1	3	1	2	3	5
	2000 W	85 μ F	0	1	0	1	2	3
With electronic ballast	35 W		38	87	24	38	68	102
	70 W		29	77	18	29	51	76
	150 W		14	33	9	14	26	40

- a Circuits with uncompensated ferromagnetic ballasts draw a current twice as high as that resulting from the power consumed by the lamp. This explains the small number of lamps with this configuration.
- b The total capacity of the power factor correction capacitors connected in parallel in one circuit limits the number of lamps that can be controlled by the contactor. The total capacity connected to modular contactors with a rated current of 16 A, 25 A, 40 A and 63 A must not exceed 75 μ F, 100 μ F, 200 μ F and 300 μ F, respectively. If the capacity values deviate from those given in the table, these limitations must be taken into account to calculate the maximum number of light sources allowed.
- c High-pressure mercury lamps without an igniter, rated at 125 W, 250 W and 400 W, will be gradually replaced by high-pressure sodium lamps with an integrated igniter, rated at 110 W, 220 W and 350 W, respectively.

Use for heating purposes

Selection of the rated relay current depending on power consumption

Single-phase circuit	Maximum power for the iTI impulse relay with the given rated current	
	16 A	32 A
Heating 230 V		
Heating (AC1)	3,6 kW	7,2 kW



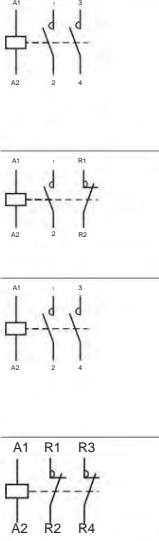

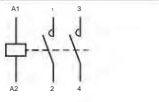


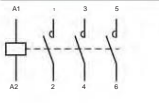
Selection of the rated current of the contactor depending on the power consumption and the number of operations per day


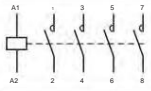
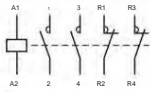
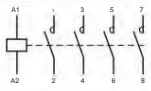
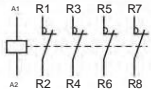

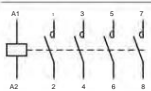
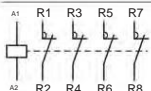
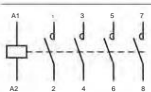
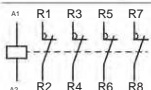
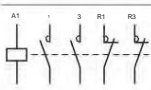

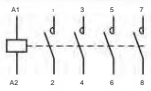
Number of connections per day	Maximum power for the iCT contactor with the given rated current			
	25 A	40 A	63 A	100 A
Heating 230 V				
25	5,4 kW	8,6 kW	14 kW	21,6 kW
50	5,4 kW	8,6 kW	14 kW	21,6 kW
75	4,6 kW	7,4 kW	12 kW	18 kW
100	4 kW	6 kW	9,5 kW	14 kW
250	2,5 kW	3,8 kW	6 kW	9 kW
500	1,7 kW	2,7 kW	4,5 kW	6,8 kW
400V heating				
25	16 kW	26 kW	41 kW	63 kW
50	16 kW	26 kW	41 kW	63 kW
75	14 kW	22 kW	35 kW	52 kW
100	11 kW	17 kW	26 kW	40 kW
250	5 kW	8 kW	13 kW	19 kW
500	3,5 kW	8 kW	9 kW	14 kW


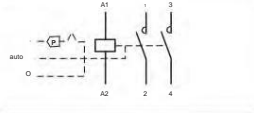
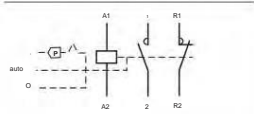

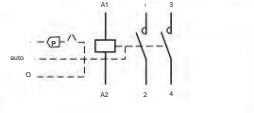


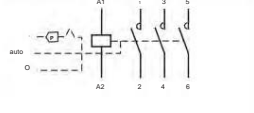

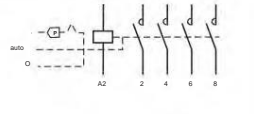
Application to small engines




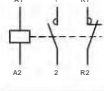

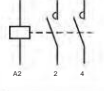

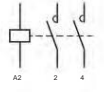

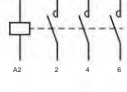

Selection of the rated current of the contactor depending on the power consumption


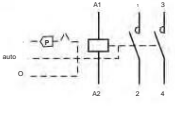
Type of small engine used	Maximum power for the iCT contactor with the given rated current		
	25 A	40 A	63 A
Single-phase asynchronous motor with capacitor			
230 V	1,4	2,5	4
Three-phase asynchronous motor			
400 V	4	7,5	15
Universal engine			
230 V	0,9	1,4	2,2

iCT 50Hz								
	Schemes	Rated current (In) AC7a AC7b		Control voltage (V AC) (50 Hz)	Contacts	Module width 18 mm	Type	Nr ref.
1P								
		16yA	6yA	12	1NO	1	iCT50-16/6-12-1NO	A9C22011
				24	1NO	1	iCT50-16/6-24-1NO	A9C22111
				48	1NO	1	iCT50-16/6-48-1NO	A9C22211
				220	1NO	1	iCT50-16/6-220-1NO	A9C22511
				230...240	1NO	1	iCT50-16/6-230...240-1NO	A9C22711
				25yA	8,5yA 220	1NO	1	iCT50-25/8,5-220-1NO
				230...240	1NO	1	iCT50-25/8,5-230...240-1NO	A9C20731
2P								
		16yA	6yA	12	2NO	1	iCT50-16/6-12-2NO	A9C22012
				24	2NO	1	iCT50-16/6-24-2NO	A9C22112
				48	2NO	1	iCT50-16/6-48-2NO	A9C22212
				220	2NO	1	iCT50-16/6-220-2NO	A9C22512
				230...240	2NO	1	iCT50-16/6-230...240-2NO	A9C22712
				12	1NO+1NC 1	1	iCT50-16/6-12-1NO+1NC	A9C22015
		24	1NO+1NC 1	1	iCT50-16/6-24-1NO+1NC	A9C22115		
		220	1NO+1NC 1	1	iCT50-16/6-220-1NO+1NC	A9C22515		
		230...240	1NO+1NC 1	1	iCT50-16/6-230...240-1NO+1NC	A9C22715		
		20yA	6yA	230...240	2NO	1	iCT50-20/6-230...240-2NO	A9C22722
		25yA	8,5yA 24		2NO	1	iCT50-25/8,5-24-2NO	A9C20132
				48	2NO	1	iCT50-25/8,5-48-2NO	A9C20232
		220	2NO	1	iCT50-25/8,5-220-2NO	A9C20532		
		230...240	2NO	1	iCT50-25/8,5-230...240-2NO	A9C20732		
		220	2NC	1	iCT50-25/8,5-220-2NC	A9C20536		
		230...240	2NC	1	iCT50-25/8,5-230...240-2NC	A9C20736		
		40yA	15yA 220...240		2NO	2	iCT50-40/15-220...240-2NO	A9C20842
		63yA	15yA 24		2NO	2	iCT50-63/15-24-2NO	A9C20162
				220...240	2NO	2	iCT50-63/15-220...240-2NO	A9C20862
		100yA -		220...240	2NO	3	iCT50-100/220...240-2NO	A9C20882
3P								
		16yA	6yA	220...240	3NO	2	iCT50-16/6-220...240-3NO	A9C22813
		25yA	8,5yA 220...240		3NO	2	iCT50-25/8,5-220...240-3NO	A9C20833
		40yA	15yA 220...240		3NO	3	iCT50-40/15-220...240-3NO	A9C20843
		63yA	20yA 220...240		3NO	3	iCT50-63/20-220...240-3NO	A9C20863






iCT 50Hz								
	Schemes	Rated current (In) AC7a AC7b	Control voltage (V AC) (50 Hz)	Contacts	Module width 18 mm	Type	Nr ref.	
		16yA	6yA	24	4NO	2	iCT50-16/6-24-4NO	A9C22114
				220...240	4NO	2	iCT50-16/6-220...240-4NO	A9C22814
		20yA	6yA	220...240	2NO+2NC 2	2	iCT50-16/6-220...240-2NO+2NC	A9C22818
				25yA	8,5yA 24	220...240	4NO	2
	220...240	4NO	2			iCT50-25/8,5-24-4NO	A9C20134	
		24	220...240	4NC	2	iCT50-25/8,5-24-4NC	A9C20137	
				220...240	4NC	2	iCT50-25/8,5-220...240-4NC	A9C20837
		220...240	2NO+2NC 2			iCT50-25/8,5-220...240-2NO+NC	A9C20838	
								A9C20838
			40yA	15yA 220...240	220...240	4NO	3	iCT50-40/15-220...240-4NO
220...240					4NC	3	iCT50-40/15-220...240-4NC	A9C20847
		63yA	20yA 24	220...240	4NO	3	iCT50-63/20-24-4NO	A9C20164
				220...240	4NO	3	iCT50-63/20-220...240-4NO	A9C20864
		24	220...240	4NC	3	iCT50-63/20-24-4NC	A9C20167	
				220...240	4NC	3	iCT50-63/20-220...240-4NC	A9C20867
		220...240	2NO+2NC 3			iCT50-63/20-220...240-2NO+2NC	A9C20868	
								A9C20868
	220...240	3NO+1NC 3			iCT50-63/20-220...240-3NO+1NC	A9C20869		
							A9C20869	
		100yA -	220...240	4NO	6	iCT50-100/-220...240-4NO	A9C20884	


iCT with manual control 50 Hz										
	Schemes	Rated current (In) AC7a AC7b		Control voltage (V AC) (50 Hz)	Contacts	Module width 18 mm	Type	Nr ref.		
2P										
		16yA	6yA	220	2NO	1	iCT50r-16/6-220-2NO	A9C23512		
				230...240	2NO	1	iCT50r-16/6-230...240-2NO	A9C23712		
		16yA	6yA	220	1NO+1NC 1		iCT50r-16/6-220-1NO+1NC	A9C23515		
				230...240	1NO+1NC 1		iCT50r-16/6-230...240-1NO+1NC	A9C23715		
			25yA	8,5yA 24	220	2NO	1	iCT50r-25/8,5-220-2NO	A9C21132	
					230...240	2NO	1	iCT50r-25/8,5-230...240-2NO	A9C21532	
230...240					2NO	1	iCT50r-25/8,5-230...240-2NO	A9C21732		
		40yA	15yA 24	220...240	2NO	2	iCT50r-40/15-220...240-2NO	A9C21842		
				63yA	20yA 24	220...240	2NO	2	iCT50r-63/20-220...240-2NO	A9C21162
						220...240	2NO	2	iCT50r-63/20-220...240-2NO	A9C21862
3P										
		25yA	8,5yA 24	220...240	3NO	2	iCT50r-25/8,5-220...240-3NO	A9C21833		
				40yA	15yA 24	220...240	3NO	3	iCT50r-40/15-220...240-3NO	A9C21843
		25yA	8,5yA 24	220...240	4NO	2	iCT50r-25/8,5-220...240-4NO	A9C21834		
				40yA	15yA 24	24	4NO	3	iCT50r-40/15-24-4NO	A9C21144
		220...240	4NO			3	iCT50r-40/15-220...240-4NO	A9C21844		
		63yA	20yA 24			220...240	4NO	3	iCT50r-63/20-24-4NO	A9C21164
						220...240	4NO	3	iCT50r-63/20-220...240-4NO	A9C21864

iCT 60Hz								
	Schemes	Rated current (In) AC7a AC7b		Control voltage (V AC) (60 Hz)	Contacts	Module width 18 mm	Type	Nr ref.
1P								
		25yA	8,5yA 127	127	1NO	1	iCT60-25/8,5-127-1NO	A9C20431
				220...240	1NO	1	iCT60-25/8,5-230...240-1NO	A9C20631
2P								
		16yA	6yA	127	1NO+1NC 1		iCT60-16/6-127-2-1NO+1NC	A9C22415
				220...240	1NO+1NC 1		iCT60-16/6-220...240-1NO+1NC	A9C22615
		25yA	8,5yA 127	127	2NO	1	iCT60-25/8,5-127-2NO	A9C20432
				220...240	2NO	1	iCT60-25/8,5-220...240-2NO	A9C20632
				127	2NC	1	iCT60-25/8,5-127-2NC	A9C20436
				220...240	2NC	1	iCT60-25/8,5-220...240-2NC	A9C20636
		40yA	15yA	127	2NO	2	iCT60-40/15-127-2NO	A9C20442
				220...240	2NO	2	iCT60-40/15-220...240-2NO	A9C20642
3P								
		25yA	8,5yA 127	127	3NO	2	iCT60-25/8,5-127-3NO	A9C20433
				220...240	3NO	2	iCT60-25/8,5-220...240-3NO	A9C20633
		40yA	15yA	127	3NO	3	iCT60-40/15-127-3NO	A9C20443
				220...240	3NO	3	iCT60-40/15-220...240-3NO	A9C20643
		63yA	20yA	127	3NO	3	iCT60-63/20-127-3NO	A9C20463
				220...240	3NO	3	iCT60-63/20-220...240-3NO	A9C20663

iCT with manual control 60 Hz							
	Schemes	Rated current (In) AC7a AC7b	Control voltage (V AC) (60 Hz)	Contacts	Module width 18 mm	Type	Nr ref.
2P							
		40 A 15 A 127		2NO	2	iCT60r-40/15-127-2NO	A9C21442
			220...240	2NO	2	iCT60r-40/15-220...240-2NO	A9C21642

Auxiliary accessories for iCT contactors

Installation			
	Name		Nr ref.
	Sealable covers for top and bottom clamping screws	3P, 4P 25ÿA	A9A15921
		2P 40/63ÿA	A9A15922
		3P, 4P 40/63ÿA	A9A15923
	9 mm spacer		A9A27062
	Yellow snaps		A9C15415

Signaling			
	Type	Number of contacts	Nr ref.
	iACTs	1NO + 1NC	A9C15914
		1CO	A9C15915
		2NO	A9C15916


Dual control inputs			
	Type	Control voltage (Ue)	Nr ref.
	iACTc	230 V AC	A9C18308
		24 V AC	A9C18309

Auxiliary accessories for iCT contactors

Damping coil blocks

	Type	Control voltage (Ue)	Nr ref.
	iACTp	12...48 V AC	A9C15919
		48...127 V AC	A9C15918
		220...240 V AC	A9C15920

Delay time

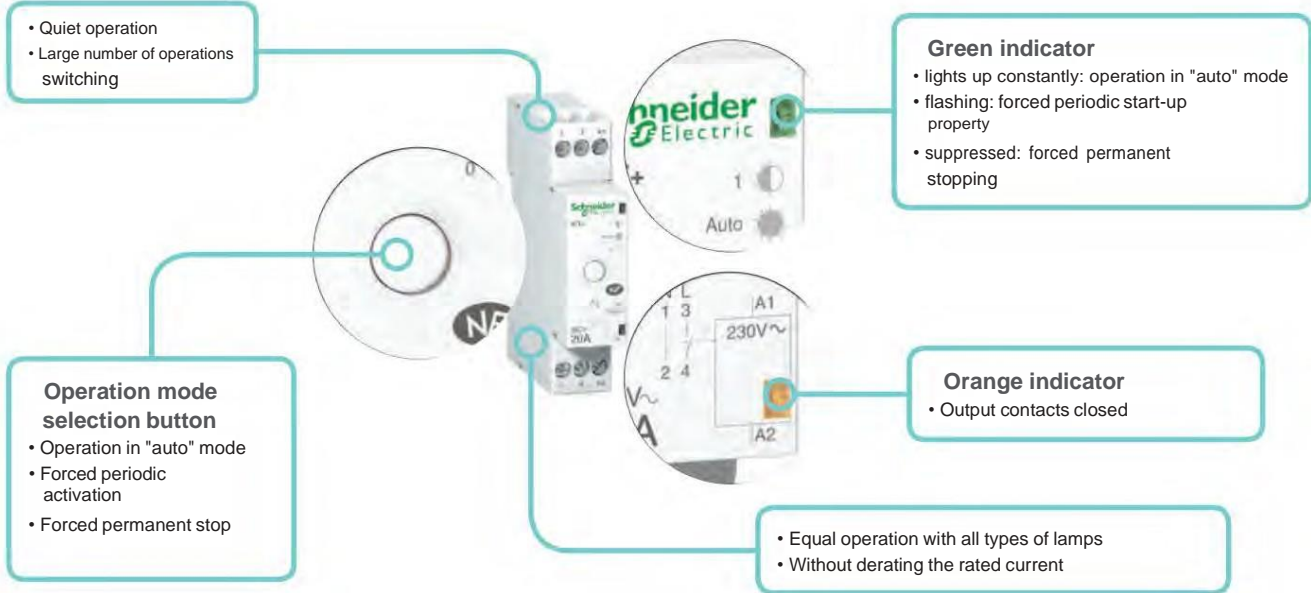
	Type	Control voltage (Ue)	Nr ref.
	iATEt	24...240 V AC	A9C15419

Control and signaling

	Type	Control voltage (Ue)	Nr ref.
	iACT24	230 V AC	A9C15924

Notes

iCT+ contactors combine the benefits of contactless connection and electromechanical technologies: small dimensions, low temperature increases.



iCT+ contactors are used for remote control in AC networks:

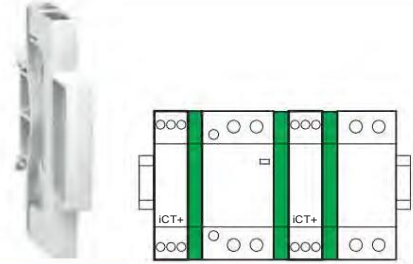
- lighting, heating, ventilation, blinds, water heating,
- mechanical ventilation systems, etc.,
- load shedding (switching off non-priority circuits).

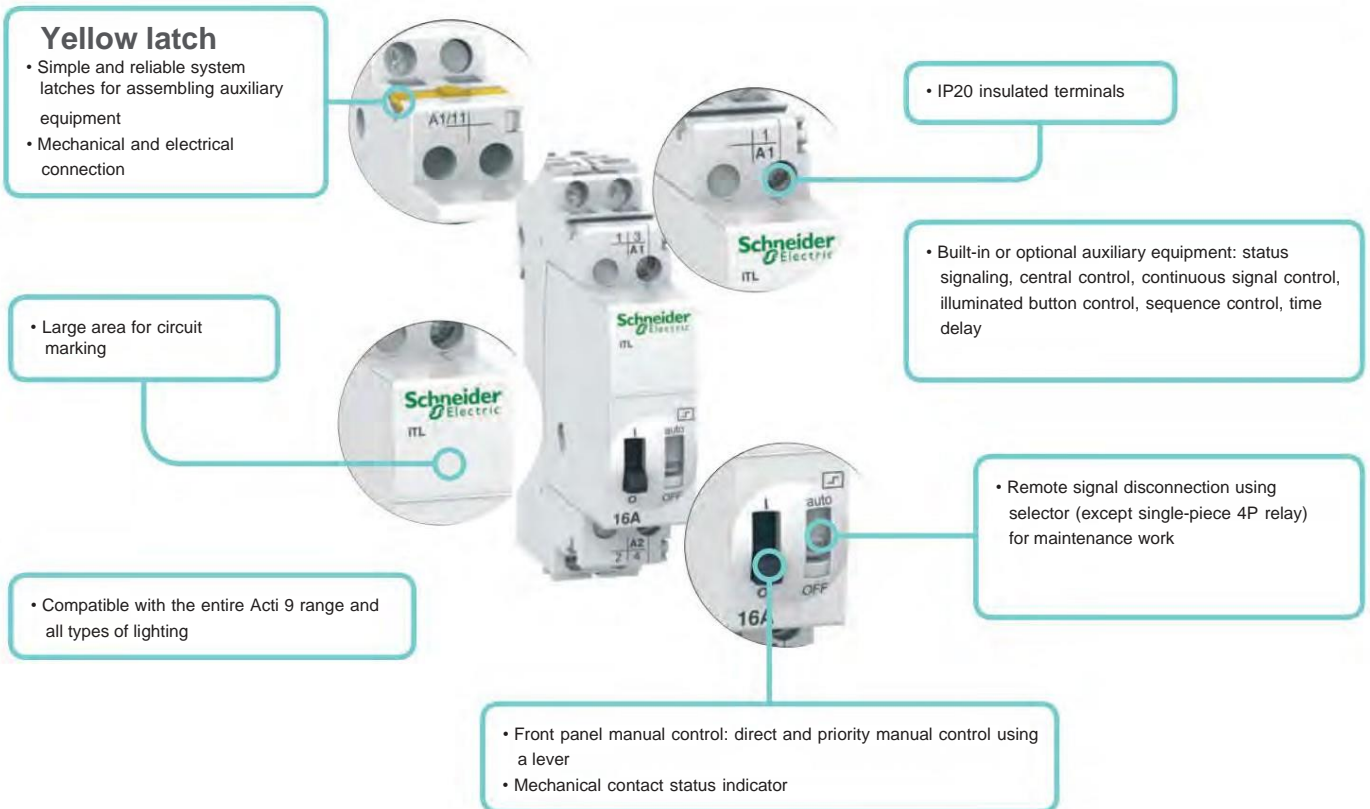
After a disturbance, the iCT+ contactor returns to "auto" mode regardless of the initial state.

Control circuit		
Coil voltage (Uc)	230 V AC (±10%)	
Frequency	50 Hz	
Power during impulse	11 VA	
Sustaining power	1.1 VA	
Main circuit		
Rated voltage (Ue)	230 V AC (±10%)	
Frequency	50 Hz	
Electrical load	Minimal	20 W
	Maximum	3600 W
Maximum number of connections per minute	6	
Additional data		
Durability (OC)	Electric	5,000,000 cycles
Degree of pollution	3	
Level of security	The device itself	IP20
	Device in a modular housing	IP40 Class II insulation
Working temperature	-5°C do +55°C	
Storage temperature	-40°C do +60°C	
Tropicalization (IEC 60068-1)	T2 (relative humidity 95% at 55°C)	

iCT+					
	Rated current (In)	Contacts	Type	Module width 18 mm	Nr ref.
Standard 1P+N 	20 A	1NO	iCT+-20	1 + 0,5 a	A9C15030
1P+N with manual control 	20 A	1NO	iCT+-20-hand	1 + 0,5 a	A9C15031

a Supplied with a 9 mm spacer (part no. A9N27062). Should be used when installing iCT+ next to the switch, contactor, impulse relay, etc., to obtain optimal operating conditions.

Accessories		Nr ref.
Spacer 		A9N27062





Using impulse relays:

- Closing of the pole(s) of the impulse relay occurs when a impulse signal is applied to the coil.
- The pole(s), equipped with a two-state mechanism, will be opened after the next signal. Each signal received by the coil changes the state of the pole(s).
- The relay can be controlled by an unlimited number of buttons.
- The relay does not consume energy.

Control circuit		
	iTL and iTLI 16A iTLc, iTLm, iTLs, iETL 16A	iTL 32A iETL 32A
Power lost (during impulse)	1, 2, 3P: 19 VA 4P: 38 VA	19 VA
Controlled by the illuminated BP button	Max. current 3 mA (if > use ATLz)	
Tripping threshold	Min. 85% Un according to the requirements of IEC/EN 60669-2-2	
Duration of the control signal	50 ms to 1 s (200 ms recommended)	
Response time	50 ms	
Main circuit		
Rated voltage (Ue)	1P, 2P	24...250 V AC
	3P, 4P	24...415 V AC
Frequency	50 Hz or 60 Hz	
Maximum number of connections per minute	5	
Maximum number of connections per day	100	

Additional data according to IEC/EN 60947-3		
Rated insulation voltage (Ui)	440 V AC	
Degree of pollution	3	
Rated impulse withstand voltage (Uimp)	6 kV	
Durability (OC)		
Electric according to IEC/EN 60947-3	200,000 cycles (AC21)	50,000 cycles (AC21)
	100,000 cycles (AC22)	20,000 cycles (AC22)
Overvoltage category	IV	
other data		
Degree of protection (IEC 60529)	The device itself	IP20
	Device in a modular housing	IP40 Class II insulation
Working temperature	-20°C do +50°C	
Storage temperature	-40°C do +70°C	
Tropicalization (IEC 60068-1)	T2 (relative humidity 95% at 55°C)	

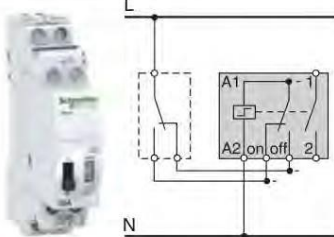
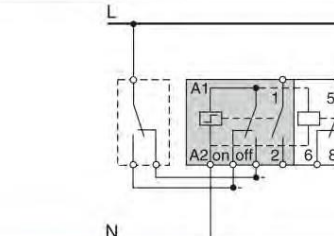
iTL						
	Rated current (In)	Control voltage (Uc)		Type	Module width 18 mm	Nr ref.
		(V AC)	(V DC)			
1P 	16 A	12	6	iTL-16-12/6	1	A9C30011
		24	12	iTL-16-24/12	1	A9C30111
		48	24	iTL-16-48/24	1	A9C30211
		130	48	iTL-16-130/48	1	A9C30311
		230...240 110		iTL-16-230...240/110	1	A9C30811
	32 A	230...240 110		iTL-32-230...240/110	1	A9C30831
2P 	16 A	12	6	iTL-16-12/6-2	1	A9C30012
		24	12	iTL-16-24/12-2	1	A9C30112
		48	24	iTL-16-48/24-2	1	A9C30212
		130	48	iTL-16-130/48-2	1	A9C30312
		230...240 110		iTL-16-230...240/110-2	1	A9C30812
	32 A	230...240 110		iTL-32-230...240/110-2	1	A9C30831 + A9C32836
3P 	16 A	12	6	iTL-16-12/6-3	2	A9C30011 + A9C32016
		24	12	iTL-16-24/12-3	2	A9C30111 + A9C32116
		48	24	iTL-16-48/24-3	2	A9C30211 + A9C32216
		130	48	iTL-16-130/48-3	2	A9C30311 + A9C32316
		230...240 110		iTL-16-230...240/110-3	2	A9C30811 + A9C32816
	32 A	230...240 110		iTL-32-230...240/110-3	2	A9C30831 + 2 x A9C32836
4P 	16 A	12	6	iTL-16-12/6-4	2	A9C30012 + A9C32016
		24	12	iTL-16-24/12-4	2	A9C30114
		48	24	iTL-16-48/24-4	2	A9C30212 + A9C32216
		130	48	iTL-16-130/48-4	2	A9C30312 + A9C32316
		230...240 110		iTL-16-230...240/110-4	2	A9C30814
	32 A	230...240 110		iTL-32-230...240/110-4	2	A9C30831 + 3 x A9C32836

iTLI						
	Rated current (In)	Control voltage (Uc)		Type	Module width 18 mm	Nr ref.
		(V AC)	(V DC)			
1P 	16 A	12	6	iTLI-16-12/6	1	A9C30015
		24	12	iTLI-16-24/12	1	A9C30115
		48	24	iTLI-16-48/24	1	A9C30215
		130	48	iTLI-16-130/48	1	A9C30315
		230...240 110		iTLI-16-230...240/110	1	A9C30815

iETL extension for iTL and iTLI relays						
	Rated current (In)	Control voltage (Uc)		Type	Module width 18 mm	Nr ref.
		(V AC)	(V DC)			
1P	32 A	230...240 110		iETL -32-230...240/110	1	A9C32836
2P	16 A	12	6	iETL-16-12/6	1	A9C32016
		24	12	iETL-16-24/12	1	A9C32116
		48	24	iETL-16-48/24	1	A9C32216
		130	48	iETL-16-130/48	1	A9C32316
		230...240 110		iETL-16-230...240/110	1	A9C32816

Pulse relays with central control iTLc						
	Rated current (In)	Control voltage (Uc)		Type	Module width 18 mm	Nr ref.
		(V AC)	(V DC)			
1P	16 A	24		iTLc-16-24	1	A9C33111
		48		iTLc -16-48	1	A9C33211
		230...240		iTLc -16-230...240	1	A9C33811
3P	16 A	24		iTLc-16-24-3	2	A9C33111 + A9C32116
		48		iTLc -16-48-3	2	A9C33211 + A9C32216
		230...240		iTLc -16-230...240-3 2		A9C33811 + A9C32816

Pulse relays with continuous signal control iTLm



	Rated current (I _n)	Control voltage (U _c)		Type	Module width 18 mm	Nr ref.
		(V AC)	(V DC)			
1P 	16 A	230...240		iTLm-16-230...240	1	A9C34811
3P 	16 A	230...240		iTLm -16-230...240-3	2	A9C34811 + A9C32116





Pulse relays with remote signaling iTLs a

	Rated current (I _n)	Control voltage (U _c)		Type	Module width 18 mm	Nr ref.
		(V AC)	(V DC)			
1P 	16 A	24	12	iTLs-16-24/12	1	A9C32111
		48	24	iTLs -16-48/24	1	A9C32211
		230...240 230...240		iTLs -16-230...240/230...240 1		
3P 	16 A	24	12	iTLs-16-24/12-3	2	A9C32111 + A9C32116
		48	24	iTLs -16-48/24-3	2	A9C32211 + A9C32216
		230...240 230...240		iTLs -16-230...240/230...240-3 2		






a Short-circuit protection of the signaling contacts: gG fuse 6 A.

Auxiliary accessories for iTL impulse relays

Installation		
	Name	Nr ref.
	Yellow snaps	A9C15415
	9 mm spacer	A9A27062

Auxiliary			
	Type	Control voltage (Ue)	Nr ref.
Central control			
	iATLc and	24...240 V AC	A9C15404
Signaling			
	iATLs a	24...240 V AC	A9C15405
Central control + signaling			
	iATLc+s c	24...240 V AC	A9C15409
Multi-level central control			
	iATLc+b c	24...240 V AC	A9C15410

Auxiliary accessories for iTL impulse relays

Auxiliary			
	Type	Control voltage (Ue)	Nr ref.
Sequential control			
	iATL4	230 V AC	A9C15412
Control with illuminated buttons			
	iATLz	130...240 V AC	A9C15413
A continuous signal			
	iATLm a	12...240 V AC	A9C15414
Delayed control			
	iATEt d	24...240 V AC	A9C15419
Control and signaling			
	iATL24	230 V AC	A9C15424

a The iATLc and ATLm auxiliary equipment is installed on the right side of the pulse relay.

b Connection with traditional cables.

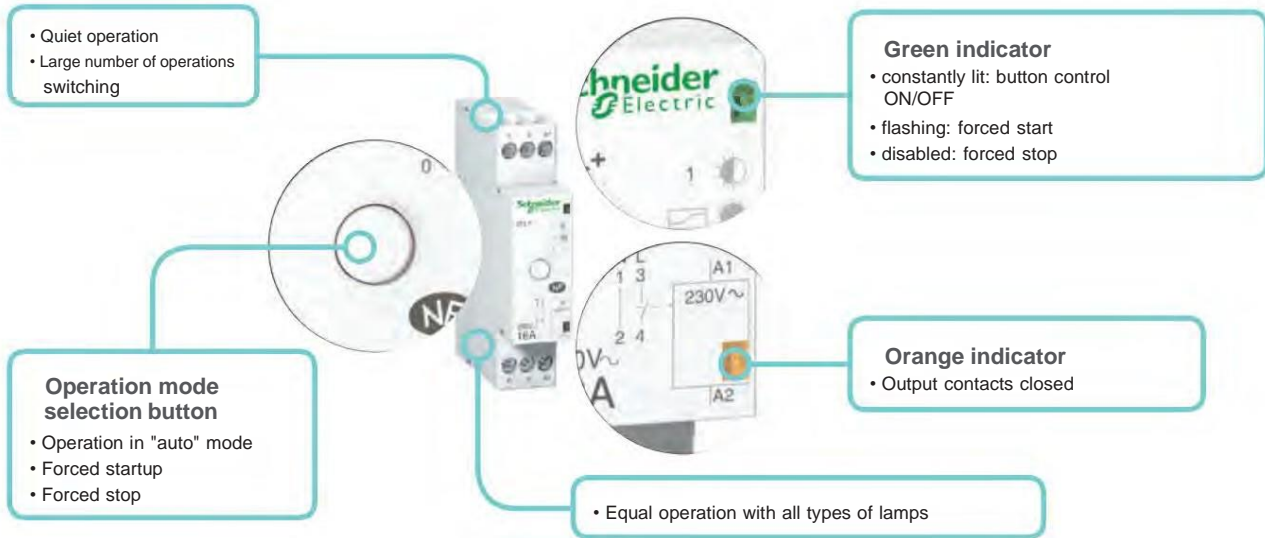
The iATLc+c equipment must be mounted on the right side of the iATLc+s or iATLc.

c Central control functions (iTLc, iATLc, iATLc+s, iATLc+c) only operate on an alternating voltage (AC) network. d iATEt: control voltage: 24...240 V AC, 24...110 V DC.

Notes

iTL+ impulse relays with improved properties

iTL+ pulse relays combine the benefits of contactless connection and electromechanical technologies: small dimensions, low temperature increases.



The iTL+ impulse relay enables remote control of single-phase circuits. It is intended for applications with high demands. Using the button, it allows you to control lighting circuits that include:

- light bulbs, low voltage halogen lamps, etc. (resistive load),
- fluorescent lamps, discharge lamps, etc. (inductive load).

After a disturbance, the iTL+ relay returns to state 0 (forced stop) regardless of the initial state.

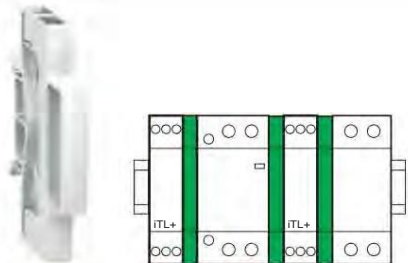
Control circuit		
Coil voltage (Uc)		230 V AC
Frequency		50 Hz
Power during impulse		11 VA
Sustaining power		1.1 VA
Control with a backlit button		Max. current 3 mA
Duration of the control signal		50 ms to 1 s (200 ms recommended)
Main circuit		
Rated voltage (Ue)		230 V AC
Frequency		50 Hz
Electrical load	Minimal	20 W
	Maximum	3600 W
Maximum number of connections per minute		6
Additional data		
Degree of protection (IEC 60529)	The device itself	IP20
	Device in a modular housing	IP40 Class II insulation
Durability (OC)	Electric	5,000,000 cycles (AC21-AC22)
Sound intensity when triggered		< 30 dBA
Working temperature		-5°C do +55°C
Storage temperature		-40°C do +60°C
Tropicalization (IEC 60068-1)		T2 (relative humidity 95% at 55°C)

iTL+ impulse relays with improved properties

EN 60669-2-2

iTL+				
	Rated current (In)	Type	Module width 18 mm	Nr ref.
1P+N 	16 A	iTL+-16	1 + 0,5*	A9C15032




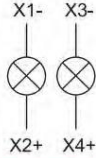

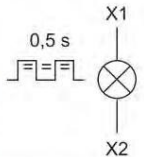

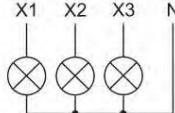
* Supplied with a 9 mm spacer (cat. no. A9N27062): use when mounting iTL+ next to a circuit breaker, contactor, impulse relay, etc. to obtain optimal operating conditions.

Accessories		Nr ref.
Spacer 		A9N27062



The iLL indicator lights indicate the presence of voltage.

Basic information	
Degree of pollution	3
Power circuit	
Frequency	50...60 Hz
Flash rate	2 Hz
Additional data	
Working temperature	-35°C...+70°C
Storage temperature	-40°C...+80°C
Tropicalization	T2 (relative humidity 95% at 55°C)
LED indicator light	Power consumption of the signal lamp: 0.3 W
	Service life: 100,000 hours of continuous lighting
	Maintenance-free signal lamp (LEDs not replaceable)

iLL					
	Color	Type	Module width 18 mm	Voltage (Ue)	Nr ref.
Single					
 	Red	iLL-poj-cze-12...48	1	12...48 V AC/DC	A9E18330
		iLL-poj-cze-110...230	1	110...230 V AC	A9E18320
	Green	iLL-poj-see-12...48	1	12...48 V AC/DC	A9E18331
		iLL-poj-see-110...230	1	110...230 V AC	A9E18321
	White	iLL-poj-bia-12...48	1	12...48 V AC/DC	A9E18332
		iLL-poj-bia-110...230	1	110...230 V AC	A9E18322
	Blue	iLL-join-no-12...48	1	12...48 V AC/DC	A9E18333
		iLL-connect-no-110...230	1	110...230 V AC	A9E18323
	Yellow	iLL-poj-ýóý-12...48	1	12...48 V AC/DC	A9E18334
		iLL-container-yellow-110...230	1	110...230 V AC	A9E18324
Double					
 	Green/Red	iLL-podw-see/cze-12...48	1	12...48 V AC/DC	A9E18335
		iLL-podw-see/cze-110...230	1	110...230 V AC	A9E18325
	White/White	iLL-podw-bia/bia-12...48	1	110...230 V AC	A9E18328
Flashing light					
 	Red	iLL-mig-cze-110...230	1	110...230 V AC	A9E18326
Signal light indicating the presence of voltage in three phases					
 	Red/Red/Red	iLL-syg3faz-cz/cz/jun-230...400 1		230...400 V AC (3 fazy)	A9E18327




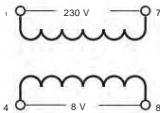
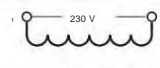
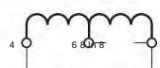


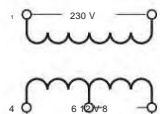
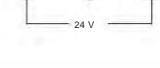
Bell transformers and safety transformers allow for very low voltage (ELV 8V, 12V or 24V) from the low voltage network (LV 230V)


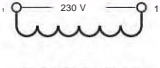
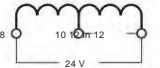
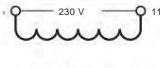
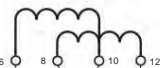
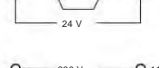
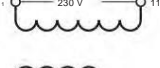
All Schneider Electric transformers:


- are safe: primary and secondary windings are thoroughly isolated from each other,
- are resistant to short-circuit currents thanks to the built-in device,
- with terminal covers (option) have class II insulation.

Basic information

Primary voltage		230 V AC $\pm 10\%$
Primary voltage	For bell transformers	8-12-24 V AC $\pm 15\%$
	For safety transformers	12-24 V AC $\pm 5\%$
Additional data		
Degree of protection (IEC 60529)	The device itself	IP20 with terminal cover
Working temperature		-20°C do +55°C
Storage temperature		-25°C do +80°C

Bell transformers						
		Power	Secondary voltage	Module width 18 mm	Type	Nr ref.
		4 VA	8 V AC	2	iTR-dzw-4/8	A9A15214
		4 VA	8-12 V AC	2	iTR-dzw-4/8-12	A9A15213
		8 VA	8-12 V AC	2	iTR-dzw-8/8-12	A9A15216
		16 VA	8-12 V AC	2	iTR-dzw-16/8-12	A9A15212
		25 VA	12-24 V AC	3	iTR-dzw-25/12-24	A9A15215
						

Safety transformers						
		Power	Secondary voltage	Module width 18 mm	Type	Nr ref.
		16 VA	12-24 V AC	5	iTR-without-16/12-24	A9A15218
		25 VA	12-24 V AC	5	iTR-without-25/12-24	A9A15219
		40 VA	12-24 V AC	5	iTR-without-40/12-24	A9A15220
		63 VA	12-24 V AC	5	iTR-bez-63/12-24	A9A15222
						
						

Auxiliary accessories for iTR transformers		
iTR terminal cover	Module width 18 mm	Nr ref.
	2	15228
	3	15229
	5	15230

iSO ringtones

iRO buzzers

iSO bells and iRO buzzers provide sound signaling in general and residential construction.

Basic information			
		iSO	dogs
Power consumption	8...12 V AC	3.6 VA	
	220...240 V AC	5 VA	
Additional data			
Degree of protection (IEC 60529)	The device itself	IP40	
	Device in a modular housing	IP20	
Working temperature	-10°C do +40°C		
Storage temperature	-25°C do +60°C		
Sound level (at 60 cm)	80 dBA		70 dBA

iSO				
	Voltage (Ue)	Type	Module width 18 mm	Nr ref.
	230 V AC	iSO-230	1	A9A15320
	8...12 V AC	iSO-8...12	1	A9A15321

dogs				
	Voltage (Ue)	Type	Module width 18 mm	Nr ref.
	230 V AC	iRO-230	1	A9A15322
	8...12 V AC	iRO-8...12	1	A9A15323

Notes



Time relays are used in the service sector and industrial construction in small automation systems: ventilation, heating, self-controlling blinds, escalators, pumps, lighting, signaling, monitoring, etc.

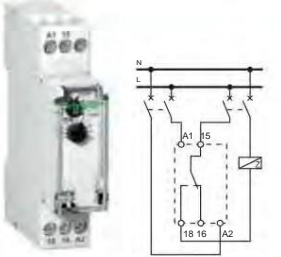
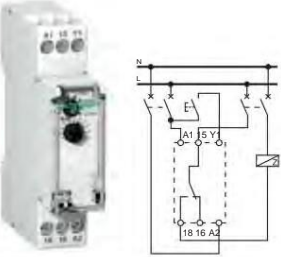
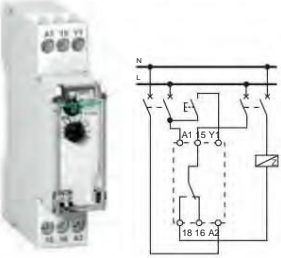
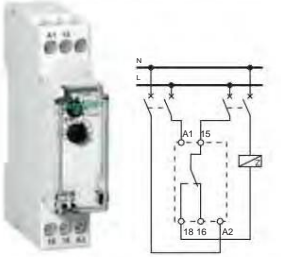
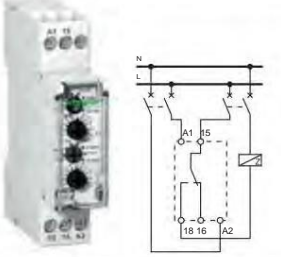
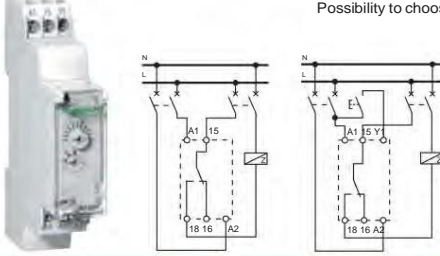
iRBN and iRTBT relays can act as intermediaries between automation inputs/outputs and low voltage devices.

Control relays monitor electrical parameters and signal when they are exceeded.


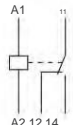

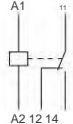
iRLI and iERL relays are used to transmit On/Off status information to auxiliary circuits and connect low-power loads.

Technical data


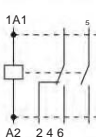

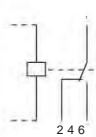
		iRTA, iRTB, iRTC, iRTH, iRTL, iRTMF
Supply and control voltage (Uc)	V AC	24...240 ±10%
	V DC	24 ±10%
Frequency	Hz	50/60
Delay time range		0.1 s up to 100 hours
Accuracy		±10% of full scale
Minimum duration of the control pulse		100 ms
Resistance to short-term voltage drops		ÿ 20 ms
Maximum reset time on each power failure		100 ms
Repetition accuracy		±0.5% with constant parameters
Changeover contacts (cadmium-free)	Min.	10 mA/5 V DC allowed
	Max.	
Durability	Mechanical	Permitted 8 A/250 V AC/DC
	Electric	>105 switching operations (operating category AC1)
Indication of the contact status with a green signal lamp		Flashing during delay time
Level of security	The device itself is IP20	
Connection to sleeve terminals	Without sleeve	2 x 2.5 mm ² rigid
	With sleeve	2 x 1.5 mm ² flexible
Module width 18 mm		1
Working temperature	°C	-5...+55
Storage temperature	°C	-40...+70

iRTA, iRTB, iRTC, iRTH, iRTL and iRTMF time relays						
	Functions	Supply and control voltage (Uc)		Type	Module width 18 mm	Nr ref.
		V AC	V DC			
	Receiver switch-on delay	24...240 ±10%	24 ±10%	written by	1	A9E16065
	Applying a delay to turn on the receiver after closing the auxiliary contacts (button)	24...240 ±10%	24 ±10%	iRTB	1	A9E16066
	Delayed turn-off of the receiver after closing the auxiliary contacts (button)	24...240 ±10%	24 ±10%	iRTC	1	A9E16067
	Applying a delay to turn on the receiver	24...240 ±10%	24 ±10%	iRTH	1	A9E16068
	Using a delay to control the receiver with different switching on and off times, in a repeating cycle (blinker)	24...240 ±10%	24 ±10%	iRTL	1	A9E16069
	Possibility to choose one of four delay types: A, B, C or H	24...240 ±10%	24 ±10%	iRTMF 1		A9E16070


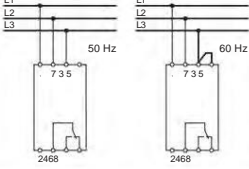

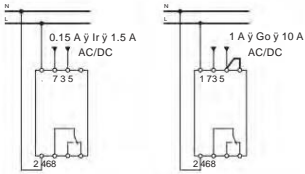

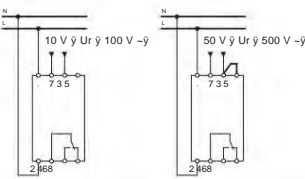

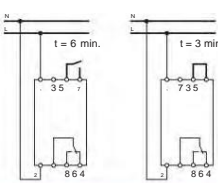
Technical data			
		iRBN	iRTBT
Control voltage (Uc)	V AC	230 ±10%	12...24 -15%/+10%
	V DC	-	12...24 ±20%
Frequency	Hz	50/60	50/60
Insulating strength between ELV/LV circuits		4 kV	4 kV
Power consumption	When switching on	5 VA	0.22 W
	When held	2.5 VA	0.11 W
Durability	Electric	100,000 switching operations	100,000 switching operations
Indication of the presence of voltage in the control circuit		green signal light	green signal light
Changeover contacts (cadmium-free)	Min.	5 mA/5 V DC (DC12) 5 mA/5 V AC	10 mA/10 V DC (DC12) 10 mA/10 V AC
	Max.	1 A/24 V DC (DC12) 5 A/250 V AC	1 A/24 V DC (DC12) 5 A/250 V AC
Level of security	The device itself	IP20	IP20
Connection to sleeve terminals		0,5 x 6 mm ²	0,5 x 6 mm ²
Module width 18 mm		1	1
Working temperature	°C	-5...+55	-5...+55
Storage temperature	°C	-40...+70	-40...+70

iRBN and iRTBT intermediary relays						
	Functions	Supply voltage (Uc)		Type	Module width 18 mm	Nr ref.
		V AC	V DC			
 	Connecting low current electronic circuits upon receiving a low voltage electrical signal	230 ±10%	-	iRBN 1		A9A15393
 	Connecting low voltage circuits controlled by very low voltage	12...24 -15/+10%	12...24 ±20%	iRTBT 1		A9A15416

Technical data			
		iRLI	iERL
Control voltage (Uc)	V AC	230...240/48/24/12	230...240/48/24/12
Rated voltage (Ue)	V AC	230	230
Rated insulation voltage (Ui)	V AC	250	250
Frequency	Hz	50/60	50/60
Rated current (In)	A	10, cos $\tilde{\gamma}$ = 1	10, cos $\tilde{\gamma}$ = 1
Power consumption when switching on and holding		4 VA	iRLI + iERL: 8VA
Durability	Electric	100,000 AC21 cycles (cos $\tilde{\gamma}$ = 1)	100,000 AC21 cycles (cos $\tilde{\gamma}$ = 1)
Status indicator		Mechanical indicator	Mechanical indicator
Signage		Snap-on markers on the front wall	Snap-on markers on the front wall
Level of security	The device itself	IP20	IP20
Connection to sleeve terminals		0,5 x 6 mm ²	0,5 x 6 mm ²
Module width 18 mm		1	1
Working temperature	°C	-5...+55	-5...+55
Storage temperature	°C	-40...+70	-40...+70

iRLI switching relay and iERL extension relay						
	Functions	Control voltage (Uc) V AC	Supply voltage (Ue) V AC	Type	Module width 18 mm	Nr ref.
 	Transferring information about the On/Off status to auxiliary circuits and switching on low-power receivers	230...240	230	iRLI	1	A9E15535
		48	230			A9E15536
		24	230			A9E15537
		12	230			A9E15538
 	An extension that allows you to add additional contacts to the iRLI switchable relay	230...240	230	iERL	1	A9E15539
		48	230			A9E15540
		24	230			A9E15541
		12	230			A9E15542

Technical data					
		iRCP	Irish	iRCU	iRCC
Control voltage (Uc)	V AC	400 ±15%	230 –15%/+10%		
Frequency	Hz	50/60			
Setting parameters	On the front wall, directly on the scale using a screwdriver				
Display accuracy	±10% of full scale				
Output via switching contacts	8 A at 250 V AC (cos γ = 1)				
LED indication	green	Presence of tension			
	Red	Disruption			
Power consumption	AND	3			
Level of security	The device itself	IP20			
Connection to sleeve terminals	Rigid cable	1,5 x 6 mm ²			
Module width 18 mm	2				
Working temperature	°C	–5...+55			
Storage temperature	°C	–40...+80			

iRCP phase control, iRCI current control, iRCU voltage control and iRCC compressor control relays						
		Functions	Supply voltage (Uc) V AC	Type	Module width 18 mm	Nr ref.
		Monitoring the phase and presence of voltage in 3 phases of a three-phase circuit (motor power supply, etc.). Indication of phase loss or phase change	400 ±15%	iRCP 2		A9E21180
		Monitoring of current flow (Ir) in AC circuits or DC and signaling each time the set value is exceeded	230 –15%/+10%	Irish	2	A9E21181
		Monitoring of voltage deviations (Ur) in AC or DC circuits and indication of any exceedance of the set value	230 –15%/+10%	iRCU 2		A9E21182
		Monitor compressor power consumption and prevent sudden restart when power loss or voltage drop is detected	230 –15%/+10%	iRCC 2		A9E21183

Notes



The load shedding contactor periodically turns off the power supply to non-priority circuits if the set power consumption value is exceeded.

Load cutters ensure:

- increasing the number of loads without increasing the power supply,
- reducing the power supply,
- preventing unwanted tripping of the power switch.

Single-phase DSE1

- Load cut-off and restoration of one non-priority channel.
- The activation threshold is adjustable from 0.8 kW to 7 kW (default: 3.7 kW).
- Pre-alarm time before load cut-off (T_{on}) adjustable from 0 s to 9999 s (default: 60 s).
- Load cut-off time (T_{off}) ranges from 0 s to 9999 s (default: 120 s).
- Buzzer time (TBE) adjustable from 1 s to 9999 s (default: 60 s).
- Backlit LCD display, 3 decimal digits.

Single-phase CDS

Load shedding and restoration in a cascading configuration of 2 non-priority circuits with two relays with delayed actions:

- Load shedding of the first circuit only: load restored after 5 min.
- Cutting off the load of the first and second circuit:
 - load on the second circuit restored after 10 minutes,
 - load on the first circuit restored after 5 minutes. after restoring the load in the second circuit.

Three-phase

CDS

- Load shedding and restoration phase by phase.
- 1 relay per phase.
- Load cut-off time: 5 min. for each channel.

Single Phase CDSc

- Load cut and restore in a cascade configuration, then 1 to 4 non-priority circuits.
- Cyclic load cuts: reorder every 5 minutes.


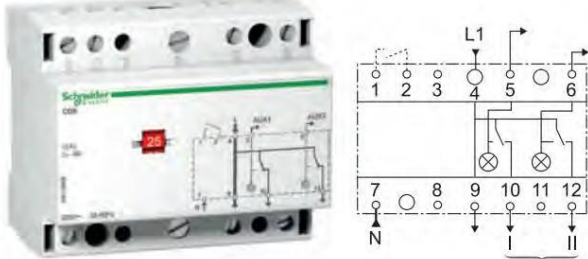
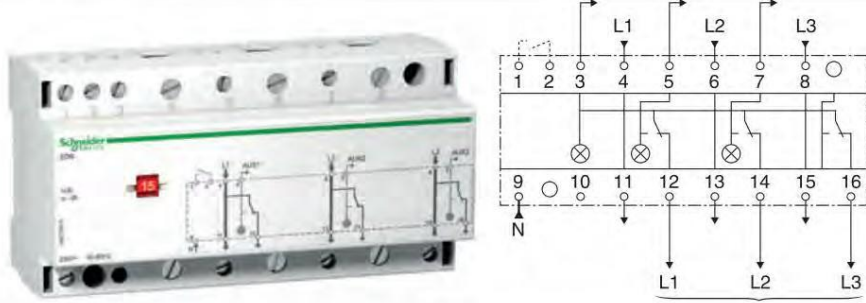
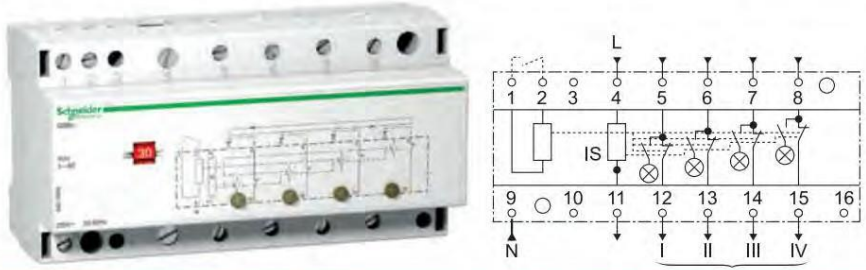
DSE1, CDS, CDS_c load cutters

DSE1: IEC 64-8
CDS, CDS_c: NF C 61.750, EN 500 81.1

Basic information				
		DSE1	CDS	CDS _c
		1P	1P 3P	1P
Rated insulation voltage (U _i)		230 V AC	230 V AC 230 V AC 230 V AC	
Rated voltage (U _e)		230 V AC, -15%, +10%	230 V AC 415 V AC 230 V AC	
Frequency		50/60 Hz	50/60 Hz	
Rated current	Priority circuit	32 A (cos γ = 1)	90 A (cos γ = 1)	
	Non-priority circuit	16 A, 250 V AC (cos γ = 1) >16 A via contactor Yellow LED	Via contactor	
Load shedding signaling		By buzzing	Yellow LED	
Power consumption		5 VA, backlit 3.5 VA, non-illuminated	12 VA	4 VA
Active power		4 W to 8 kW, 32 A max.	20 kW max.	20 kW max.
Control current greater than 90 A		-	Using an In/5 A current transformer Setting 5 A	
Forced load shedding		-	• •	-
Contacts (NO) 1 A–250 V for remote signaling		-	2 3	-
Additional data				
Level of security (IEC γ 60529)	The device itself	IP20	IP20	IP20
	Device in a modular housing	IP40	IP40	IP40
Working temperature		-5°C do +50°C	-5°C do +55°C	
Storage temperature		-40 °C do +70°C	-40 °C do +70°C	
Tropicalization (IEC 60068-1)		T2 (95% relative humidity at 55°C)	T2 (95% relative humidity at 55°C)	

DSE1, CDS, CDSc load cutters

DSE1: IEC 64-8
 CDS, CDSc: NF C 61.750, EN 500 81.1

DSE1, CDS, CDSc		Type	Module width 18 mm	Nr ref.
	DSE1	2	A9C15907	
	CDS-1	5	A9C15908	
	CDS-3	8	A9C15913	
	CDSc	8	A9C15906	

Notes

iPC plug sockets

IEC 60884
 NF C 61314 (16 A) NF C 61316 (20 A)
 NF C 15100 (protection "against children")
 German standard VDE 0620 Italian
 standard IMQ as for IEC 2316












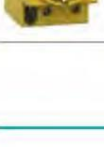



iPC plug sockets enable the connection of low voltage devices to the electrical network.








Yellow sockets are designed for specific applications: when it is desired to highlight special power sockets, their bright color allows the user to easily locate and identify them.

Technical data		
	iPC 16A	iPC 20A
Rated voltage (Ue)	250 V AC	400 V AC
Power indicator	LED technology, long service life: 100,000 hours	
Additional data		
Level of security	The device itself	IP20
	Device in an IP40 modular housing	
Working temperature	-25°C do +70°C	
Storage temperature	-40°C do +80°C	
Tropicalization (IEC 60068-1)	T2 (relative humidity 95% at 55°C)	

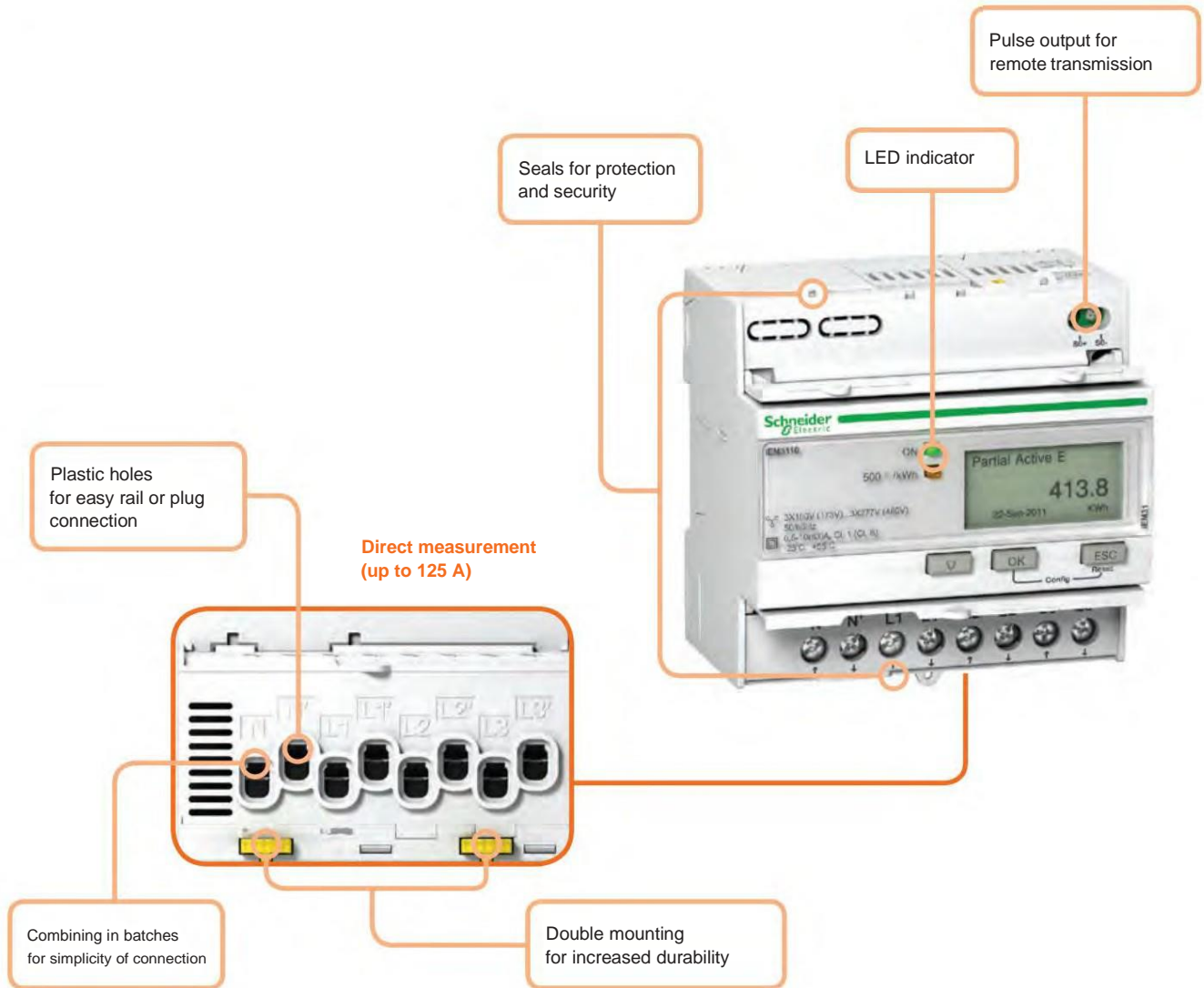
iPC plug sockets

IEC 60884
 NF C 61314 (16 A) NF C 61316 (20 A)
 NF C 15100 (protection "against children")
 German standard VDE 0620 Italian
 standard IMQ as for IEC 2316

iPC 16A									
	Rated current (In)	Rated voltage (Un)	Type		Module width 18 mm	Nr ref.			
	16 A	250 V AC	Socket with current path shutters		2P+E		2,5	A9A15306	
			2P+E + signal light						A9A15307
			Yellow sockets with current path shutters		2P+E			15324	
			Sockets in German standard		2P+E			A9A15310	
			2P+E+signal light					A9A15305	
			Yellow sockets in German standard		2P+E			15033	
			Italian standard sockets with current circuit shutters		2P+E			A9A15303	





iPC 20A								
	Rated current (In)	Rated voltage (Un)	Type		Module width 18 mm	Nr ref.		
	20 A	400 V AC	Socket with current path shutters		2P+E		4	A9A15311
			3P+E					A9A15312
			3P+N+E					A9A15313

Energy meters, iEM2000 and iEM3000 series






The Acti 9 iEM2000 and iEM3000 series energy meters are an economical offer, rich in energy measurement functions, ideal for increasing the energy efficiency of your network, and the functional design allows you to reduce installation and commissioning costs. The meters natively support many communication protocols (Modbus, LON, M-bus, BACnet), which allow integration with existing networks and configuration of simple monitoring systems in each building. The offer includes very basic kWh meters for the most basic applications as well as advanced energy meters for billing purposes with the MID directive, with the ability to measure various electrical parameters (I, U, PF, THD, etc.). If you need a simple kWh meter or a fully functional, multi-tariff meter, the Acti 9 iEM3000 series of meters will perfectly adapt to your switchgear and application.

Energy meters, iEM2000 and iEM3000 series

Single-phase meters			
	Description	Type	Nr ref.
	iEM2000T impulse energy meter – 40 A	40 A, 230 V AC, YES	A9MEM2000T
 MID Certified	iEM2000 energy meter with display – 40 A MID	40 A, 230 V AC, direct. MID	A9MEM2000
 MID Certified	iEM2010 energy meter with display, pulse output – 40 A MID	40 A, 230 V AC, DO, direct. MID	A9MEM2010
	Single-phase energy meter iME1	63 A, 230 V AC	A9M17065
	Single-phase energy meter iME1z with partial counter	63 A, 230 V AC	A9M17066
	Single-phase energy meter iME1zr with partial counter and output	63A, 230V AC, 1RO	A9M17067

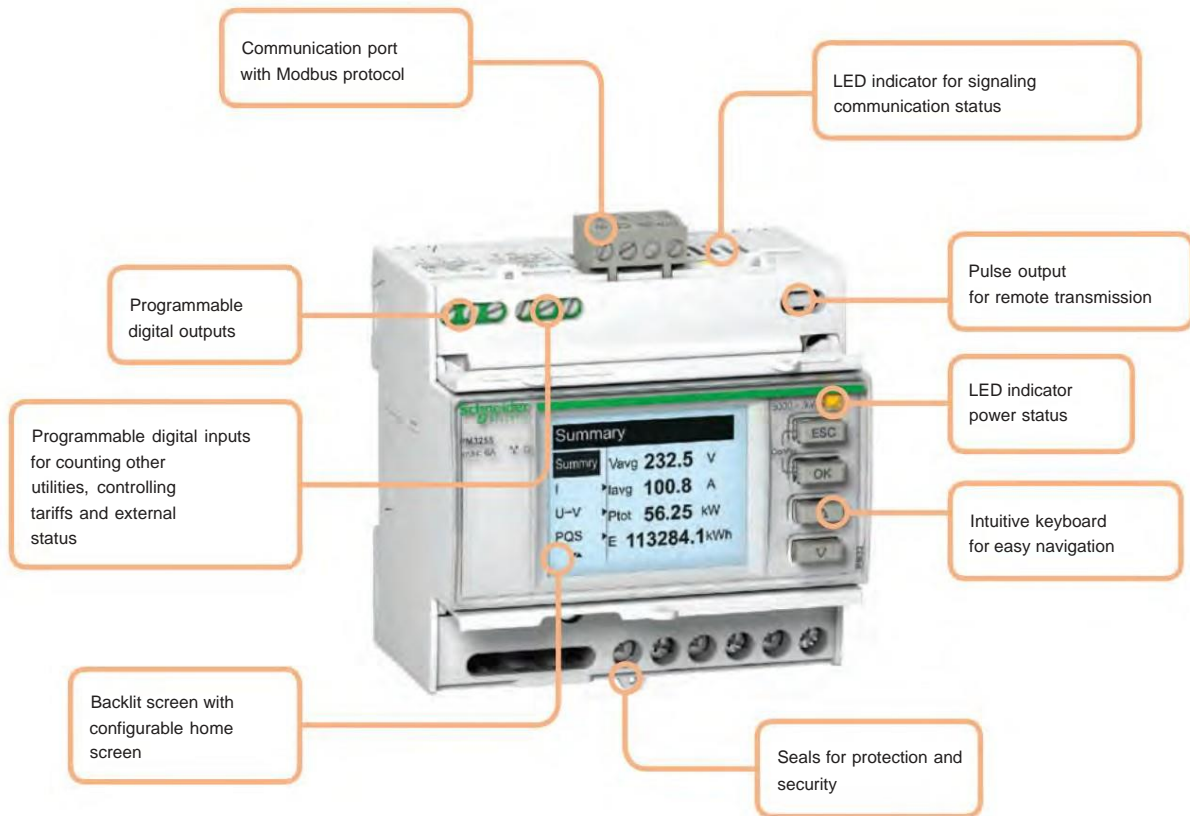
Energy meters, iEM2000 and iEM3000 series

Three-phase meters

	Description	Communication	Measurement type	Nr ref.
 MID Certified	iEM3100 energy meter		Direct 63 A	A9MEM3100
	iEM3110 energy meter, output Imp, MID			A9MEM3110
	iEM3115 energy meter, 4-tariff, MID			A9MEM3115
	iEM3135 energy meter, other media, MBus port, U, I, P, MID parameters	MBus		A9MEM3135
	iEM3150 energy meter, Modbus port, U, I, P Modbus parameters			A9MEM3150
	iEM3155 energy meter, other media, Modbus port, U, I, P, MID parameters	Modbus		A9MEM3155
	iEM3165 energy meter, other media, BACnet port, U, I, P, MID parameters	BACnet		A9MEM3165
	iEM3175 energy meter, other media, LON port, U, I, P, MID parameters	LON		A9MEM3175
 MID Certified	iEM3200 energy meter		Current transformer 5 A	A9MEM3200
	iEM3210 energy meter, output Imp, MID			A9MEM3210
	iEM3215 energy meter, 4-tariff, MID			A9MEM3215
	iEM3235 energy meter, other media, MBus port, U, I, P, MID parameters	MBus		A9MEM3235
	iEM3250 energy meter, Modbus port, U, I, P Modbus parameters			A9MEM3250
	iEM3255 energy meter, other media, Modbus port, U, I, P, MID parameters	Modbus		A9MEM3255
	iEM3265 energy meter, other media, BACnet port, U, I, P, MID parameters	BACnet		A9MEM3265
	iEM3275 energy meter, other media, LON port, U, I, P, MID parameters	LON		A9MEM3275
 MID Certified	iEM3300 energy meter		Direct 125 A	A9MEM3300
	iEM3310 energy meter, output Imp, MID			A9MEM3310
	iEM3335 energy meter, other media, MBus port, U, I, P, MID parameters	MBus		
	iEM3350 energy meter, Modbus port, U, I, P Modbus parameters			A9MEM3350
	iEM3355 energy meter, other media, Modbus port, U, I, P, MID parameters	Modbus		A9MEM3355
	iEM3365 energy meter, other media, BACnet port, U, I, P, MID parameters	BACnet		A9MEM3365
	iEM3375 energy meter, other media, LON port, U, I, P, MID parameters	LON		A9MEM3375

Notes



PM3200 network parameter meters



PM3200 meters are a cost-effective, feature-rich energy measurement offering, perfect for better understanding the condition of your electrical installation.

PM3200 meters are an excellent choice for applications that improve network reliability, i.e. power status tracking, network and device status monitoring, waveforms and event recording. The PM3200 series will allow you to increase efficiency by pinpointing where and when energy is being used, down to a department, process or shift. Thanks to the PM3200 series meters in your switchgear, you will collect the information needed to optimize work.

PM3200 network parameter meters

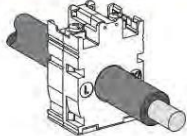
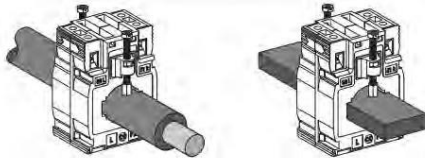
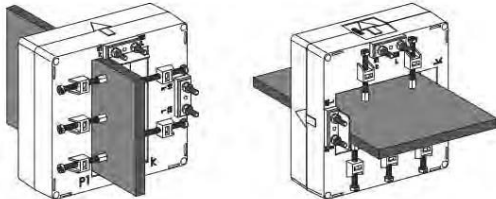
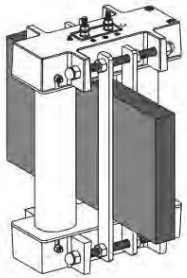
Network parameter meter for DIN rail				
	Description	Measurement	Communication	Nr ref.
PM3200/PM3210 	PM3200 meter, 4 tariffs	I, IN, U, V, PQS, E, PF, Hz		METSEPM3200
	PM3210 meter, 4 tariffs, pulse output, 5 alarms, THD min./max.	I, IN, U, V, PQS, E, PF, Hz, THD		METSEPM3210
	PM3250 meter, 4 tariffs, 5 alarms, THD min/max, LED indicator	I, IN, U, V, PQS, E, PF, Hz, THD Modbus		METSEPM3250
PM3250/PM3255 	PM3255 meter, 4 tariffs, pulse output, 15 alarms, THD min/max, LED indicator, 2DI 2DO	I, IN, U, V, PQS, E, PF, Hz, THD, consumption of other media (water, gas)	Modbus	METSEPM3255

Current transformers

Current transformers with $I_p/5A$ ratio supply a current (I_s) to the secondary circuit of 0–5 A, proportional to the primary current I_p measured in the primary circuit. Designed for measuring devices (ammeters, kWh meters, network parameter meters, control and measurement relays, etc.).

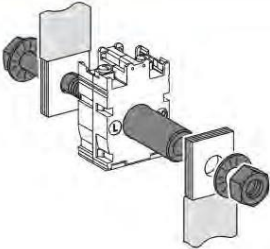
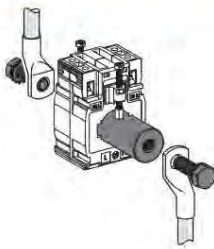
Selection of a CT current transformer – installation aspect

The appropriate selection depends on the conductor profile and the maximum current in the primary circuit.

Through-hole CT transformers			
Guide type	Suggested current transformer and installation	Przekładnia (A)	Internal cross-section of the CT transformer
Cable		40 do 250	Type C
Mixed, cable or rail		150 do 800	Type M (MA, MB, MC, MD, ME, MF)
Vertical or horizontal rail		200 do 4000	Typ D
Vertical rail		500 do 600	VF
		5000 do 6000	VV


Special assembly: use of sleeves

The spacer sleeve ensures the correct positioning of the CT transformer when the conductor or transformer cannot be placed perpendicularly. Secured with a screw and nut.





CT transformers with sleeve and terminals (example: using sleeve with bus and cable)	
	
16550 (brass)	METSECT5CYL1 (aluminium)

Current transformers



Type C – current transformer (cable cross-section)



Internal profile type	Cable (mm)	Rail (mm)	Przekładnia Ip/5A (A)	Nr ref.
CC 	Ø 21		40	METSECT5CC004
			50	METSECT5CC005
			60	METSECT5CC006
			75	METSECT5CC008
			100	METSECT5CC010
			125	METSECT5CC013
			150	METSECT5CC015
			200	METSECT5CC020
			250	METSECT5CC025

Type M – current transformer (mixed: cable/bus profile)

Internal profile type	Cable (mm)	Rail (mm)	Przekładnia Ip/5A (A)	Nr ref.
ME 	Ø 22	10 x 30 11 x 25 12 x 20	150	METSECT5ME015
			200	METSECT5ME020
			250	METSECT5ME025
			300	METSECT5ME030
			400	METSECT5ME040
			500	METSECT5ME050
			600	METSECT5ME060
MB 	Ø 26	12 x 40 15 x 32	250	METSECT5MB025
			300	METSECT5MB030
			400	METSECT5MB040
AND 	Ø 27	10 x 32 15 x 25	150	METSECT5MA015
			200	METSECT5MA020
			250	METSECT5MA025
			300	METSECT5MA030
			400	METSECT5MA040
MC 	Ø 32	10 x 40 20 x 32 25 x 25	250	METSECT5MC025
			300	METSECT5MC030
			400	METSECT5MC040
			500	METSECT5MC050
			600	METSECT5MC060
			800	METSECT5MC080

Current transformers

Type M – current transformer (mixed: cable/bus profile)				
MF 	Ø 35	10 x 40	250	METSECT5MF025
			300	METSECT5MF030
			400	METSECT5MF040
			500	METSECT5MF050
MD 	Ø 40	12 x 50 20 x 40	500	METSECT5MD050
			600	METSECT5MD060
			800	METSECT5MD080

Type V current transformer (vertical bus profile)				
Internal profile type	Cable (mm)	Rail (mm)	Ip/5A gear ratio (A)	Nr ref.
VF 		11 x 64 31 x 51	500	METSECT5VF050
			600	METSECT5VF060
VV 		55 x 165	5000	METSECT5VV500
			6000	METSECT5VV600

Current transformers

Type D – current transformer (vertical busbars – two secondary terminals)

Internal profile type	Cable (mm)	Rail (mm)	Przekładnia Ip/5A (A)	Nr ref.
AND 		32 x 65	200	METSECT5DA020
			250	METSECT5DA025
			300	METSECT5DA030
			400	METSECT5DA040
			500	METSECT5DA050
			600	METSECT5DA060
			800	METSECT5DA080
			1000	METSECT5DA100
			1250	METSECT5DA125
			1500	METSECT5DA150
DB 		38 x 127	1000	METSECT5DB100
			1250	METSECT5DB125
			1500	METSECT5DB150
			2000	METSECT5DB200
			2500	METSECT5DB250
			3000	METSECT5DB300
DC 		52 x 127	2000	METSECT5DC200
			2500	METSECT5DC250
			3000	METSECT5DC300
			4000	METSECT5DC400
DD 		34 x 84	1000	METSECT5DD100
			1250	METSECT5DD125
			1500	METSECT5DD150
OF 		54 x 102	1000	METSECT5DE100
			1250	METSECT5DE125
			1500	METSECT5DE150
			2000	METSECT5DE200
DH 		38 x 102	1250	METSECT5DH125
			1500	METSECT5DH150
			2000	METSECT5DH200

Vigilohm insulation condition monitoring



Ensuring continuity of operation in the event of insulation damage

Service continuity is an important operational requirement for energy networks. The installation must also comply with specific regulations to protect people and property.

These security requirements require the use of protective devices that operate when there is a risk that the network may become only partially accessible.

The consequences can be




significant: • Complete or partial shutdown of the process. • Partial or complete loss of production.

There is only one IT grounding system (“isolated from earth”) through which safety is ensured without the need for additional protective devices. The installation can operate without danger to people, even in the presence of initial insulation damage.


Vigilohm insulation condition monitoring

Vigilohm				
	Product	Auxiliary supply voltage	Nr ref.	
	Insulation condition monitoring device	IM9	110/415 V AC 50/60 Hz	IMD-IM9
	Off-line insulation monitoring device	IM9-OL	110/415 V AC 50/60 Hz	IMD-IM9-OL
	Insulation monitoring devices	IM10	110/415 V AC 50/60 Hz	IMD-IM10
		IM20	110/415 V AC 50/60 Hz	IMD-IM20
	Insulation monitoring devices for hospitals	IM10-H	110/240 V AC 50/60 Hz	IMD-IM10-H
		IM20-H	110/240 V AC 50/60 Hz	IMD-IM20-H
	Insulation condition monitoring device	IM400	110/440 V AC/DC 50/60/400 Hz	IMD-IM400
	Insulation monitoring devices	XM300C 115/127 V AC 50/60 Hz		50540
		XM300C 220/240 V AC 50/60 Hz		50541
		XM300C 380/415 V AC 50/60 Hz		50542
	Monitoring and locating devices	XML308	115/127 V AC 50/60 Hz	50490
		XML308	220/240 V AC 50/60 Hz	50491
		XML308	380/415 V AC 50/60 Hz	50492
		XML316	115/127 V AC 50/60 Hz	50322
		XML316	220/240 V AC 50/60 Hz	50323
		XML316	380/415 V AC 50/60 Hz	50324
	Automatic insulation fault detectors	XD301	115/127 V AC 50/60 Hz	50506
		XD301	220/240 V AC 50/60 Hz	50507
		XD301	380/415 V AC 50/60 Hz	50508
		XD312	115/127 V AC 50/60 Hz	50535
		XD312	220/240 V AC 50/60 Hz	50536
		XD312-H 220/240 V AC 50/60 Hz		50536-H
		XD312	380/415 V AC 50/60 Hz	50537
	Automatic insulation fault detectors with XD308C communication		115/127 V AC 50/60 Hz	50723
		XD308C	220/240 V AC 50/60 Hz	50724
		XD308C	380/415 V AC 50/60 Hz	50725
	Devices for locating damage	XL308	115/127 V AC 50/60 Hz	50606
		XL308	220/240 V AC 50/60 Hz	50607
		XL308	380/415 V AC 50/60 Hz	50608
		XL316	115/127 V AC 50/60 Hz	50615
		XL316	220/240 V AC 50/60 Hz	50616
		XL316	380/415 V AC 50/60 Hz	50617

Vigilohm insulation condition monitoring

Vigilohm				
		Product	Auxiliary supply voltage	Nr ref.
	Probniki XGR i XRM Portable fault location	Portable kit: XGR (50282) + XRM + XP15 + XP50 + XP100		50310
		XRM		50278
		XGR	115/127 V AC 50/60 Hz	50281
		XGR	220/240 V AC 50/60 Hz	50282
		XGR	380/415 V AC 50/60 Hz	50283
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* Contact Schneider-Electric for configuration.

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		Surge arrester, 660 V insert		50172
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