



Technical catalog | June 2013

System pro M compact® DIN Rail components for low voltage installation

Power and productivity
for a better world™



System Pro M Compact

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Introduction

System Pro M Compact

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Introduction

System Pro M Compact

1

A wide product range suitable for all applications

For all applications in industrial and commercial installations, ABB System pro M compact® range offers many functionalities like:

Moreover, shape and dimensions of the devices allow a perfect integration in existing installations.

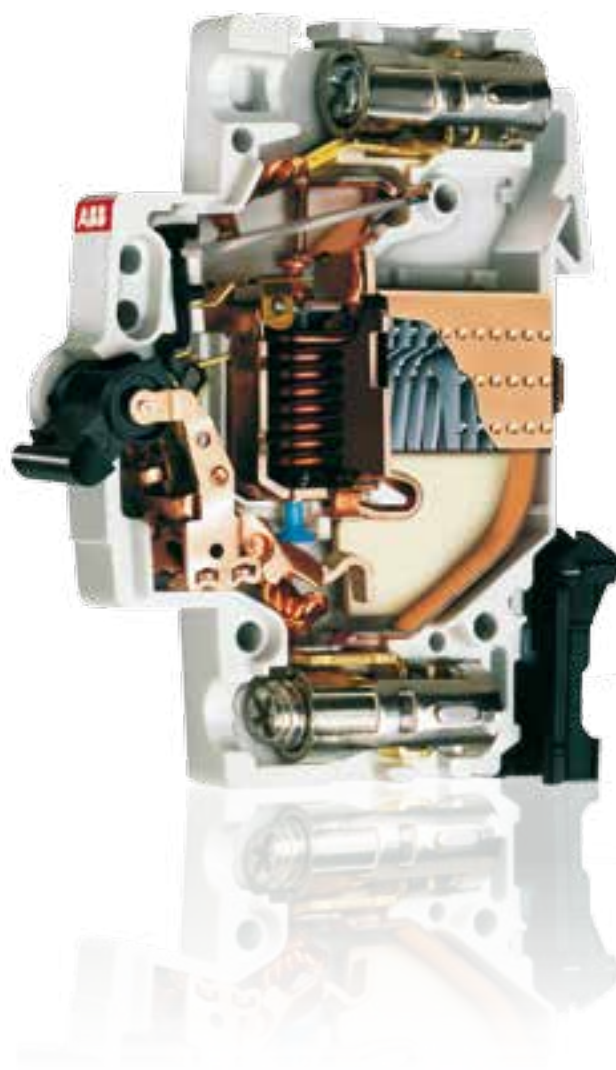
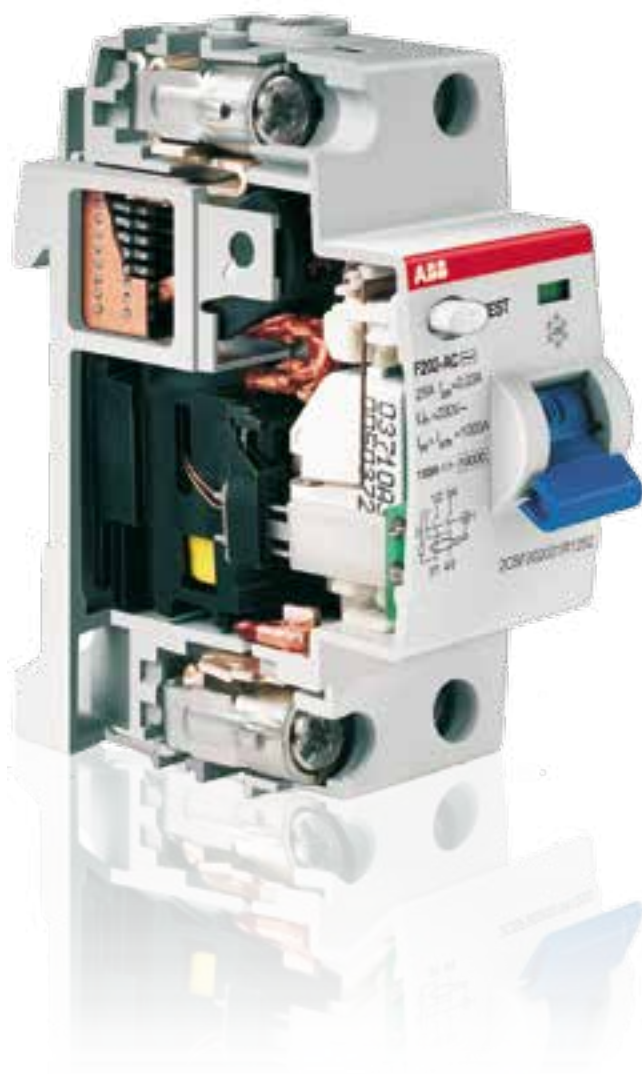
The technologically innovative bidirectional cylinder-lift terminal

available in the System pro M compact® devices enables synchronous closing of the front and rear wiring input.

Highest safety standard for the installer thanks to protection against electric shock according to EN 41140.

Marking of devices is reliable and clear.

Both supply and connection with busbars from top or bottom is admitted.



Introduction

System Pro M Compact

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MCBs

Miniature circuit-breakers (supplementary protectors & branch protection).

RCDs

Residual current circuit-breakers (RCCBs);

Auxiliary elements

A whole range of accessories and auxiliary elements.

Protection devices

In addition to MCBs and RCDs, ABB supplies other modular devices for protection such as fuse holders and fuse switch disconnectors.

Command devices

This category includes devices that are operated manually to command the electric system: switches and pushbuttons. Typically they are installed to control lights from several points of the same circuit or to pilot user devices with a high number of operations.

Various accessories



Introduction

System Pro M Compact

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The System pro M compact® range offers enormous advantages in relation to installation. Advanced and smart solutions allow an easier and safer installation and guarantee time saving.



MCBs are also available with an integrated auxiliary contact (1 NO or 1 NC). Existing installations can be easily upgraded to include auxiliary switch functionality.



Supply from top or bottom either with cables or busbars.



Safe terminal technology: the terminals offer protection for misconnection.



Conductors can only be inserted into open terminals, preventing mis-wiring and potential problems

Introduction

System Pro M Compact

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The bi-directional cylinder-lift terminal allows easier and quicker connections. In addition it avoids errors because it prevents the use of free cable seats.

This high protection level against errors eliminates right from the start industrial accidents deriving from incorrect wiring.

The terminal guarantees a very high tightening torque for cables with a section up to 25 mm².
The housing of connection busbars in the rear seat guarantees easier wiring.



Supply from top or bottom also possible with busbars.



Without busbars two terminal spaces can be used for cables with different cross sections: incoming supply with supplementary terminal up to 50 mm² from the front side.



Special quick fastening for an easy removal of the devices from the assembly pressing upwards, both for MCBs S200 and RCCBs F200: the only in the market that can be removed without a screwdriver.



Additional working space between component rows.

Miniature circuit breakers

System Pro M Compact

Overview

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S200 series (supplementary protectors CSA C22.2 No 235, UL1077)

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Miniature circuit breakers

System Pro M Compact

Interrupting ratings															
Series					S200	S200U			S200UP	S200UDC	S220	S280 (W)	S280UC	S290	
					B,C,D,K,Z	C,K,Z		C,K,Z	K,Z	K	K	K,Z	C		
	Nr. poles	Ue [V]	0.5...63 [kA]	0.2 ... 25 [kA]	32...40 [kA]	50...63 [kA]	0.2...25 [kA]	1...63 [kA]	0.2...63 [kA]	0.2...63 [kA]	0.2...63 [kA]	0.2...40 [kA]	50...63 [kA]	80...125 [kA]	
IEC/EN 60947-2 (AC)	Icu	1, 1P+N	133	20	40	25	25	40	-	-	15	10	6	-	
			230	10	25	15	15	25	-	-	6	6	4.5	20	
		2, 3, 4	230	20	40	25	25	40	-	-	10	10	6	25	
			400	10	25	15	15	25	-	-	6	6	4.5	20	
			500	-	-	-	-	-	-	-	-	-	-	-	
		690	-	-	-	-	-	-	-	-	-	-	-		
IEC/EN 60947-2 (AC)	Ics	1, 1P+N	133	15	20	18.7	18.7	20	-	-	15	7.5	6	-	
			230	7.5	12.5	11.2	7.5	12.5	-	-	6	6	4.5	10	
		2, 3, 4	230	15 ⁽¹⁾	20	18.7	18.7	20	-	-	10	7.5	6	12.5	
			400	7.5	12.5	11.2	7.5	12.5	-	-	6	6	4.5	10	
			500	-	-	-	-	-	-	-	-	-	-	-	
		690	-	-	-	-	-	-	-	-	-	-	-		
IEC/EN 60947-2 (DC)	Icu	1, 1P+N	24	20	-	-	-	-	-	-	-	-	-	-	
			60	10	15	10	10	15	-	-	10	-	-	25	
			125	-	-	-	-	-	-	-	-	6	4.5	-	
			250	-	-	-	-	-	-	-	-	-	-	-	
		2	48	20	-	-	-	-	-	-	-	-	-	-	
			125	10	15	10	10	15	-	-	10	-	-	-	
			250	-	-	-	-	-	-	-	-	6	4.5	-	
			500	-	-	-	-	-	-	-	-	-	-	-	
			600	-	-	-	-	-	-	-	-	-	-	-	
			800	-	-	-	-	-	-	-	-	-	-	-	
		3,4		375	-	-	-	-	-	-	-	-	-	-	-
				500	-	-	-	-	-	-	-	-	-	-	-
			750	-	-	-	-	-	-	-	-	-	-	-	
			1000	-	-	-	-	-	-	-	-	-	-	-	
			1200	-	-	-	-	-	-	-	-	-	-	-	
	Ics		1, 1P+N	24	20	-	-	-	-	-	-	-	-	-	-
			60	10	15	10	10	15	-	-	10	-	-	12.5	
			125	-	-	-	-	-	-	-	-	6	4.5	-	
			250	-	-	-	-	-	-	-	-	-	-	-	
		2	48	20	-	-	-	-	-	-	-	-	-	-	
			125	10	15	10	10	15	-	-	10	-	-	-	
			250	-	-	-	-	-	-	-	-	6	4.5	-	
			500	-	-	-	-	-	-	-	-	-	-	-	
			600	-	-	-	-	-	-	-	-	-	-	-	
		800	-	-	-	-	-	-	-	-	-	-	-		
3,4			375	-	-	-	-	-	-	-	-	-	-	-	
			500	-	-	-	-	-	-	-	-	-	-	-	
		750	-	-	-	-	-	-	-	-	-	-	-		
		1000	-	-	-	-	-	-	-	-	-	-	-		
		1200	-	-	-	-	-	-	-	-	-	-	-		
	UL 1077/ C22.2 No 235 (AC)	Icu	1, 1P+N	120	10	-	-	-	-	-	-	10 ⁽⁶⁾	6	5	14
			277	6	-	-	-	-	-	-	10 ⁽⁶⁾	4.5	5	5	
			347	-	-	-	-	-	-	3	-	-	-	-	
2, 3, 4			240	10	-	-	-	-	-	-	10 ⁽⁶⁾	6	5	14	
			600 Y/347	-	-	-	-	-	-	3	-	-	-	-	
	480 Y/277	6	-	-	-	-	-	-	-	10 ⁽⁶⁾	4.5	5	5		
UL 1077/ C22.2 No 235 (DC)	Icu	1, 1P+N	60	10	-	-	-	-	-	-	-	10 ⁽²⁾	10 ⁽²⁾	0.4	
		2, 3, 4	125	10	-	-	-	-	-	-	-	10 ⁽³⁾	10 ⁽³⁾	0.6	
UL 489/ C22.2 No 5 (AC)	Icu	1	240	-	10	10	10	10	-	-	-	-	-	-	
			277	-	-	-	-	10	-	-	-	-	-	-	
		2, 3, 4	240	-	10	10	10	10	-	-	-	-	-	-	
	480 Y/277	-	-	-	-	10	-	-	-	-	-	-	-		
UL 489/ C22.2 No 5 (DC)	Icu	1	60	-	-	-	-	-	14	-	-	-	-	-	
		2	125	-	-	-	-	-	14	-	-	-	-	-	
IEC/EN 60947-3	Icw	2	800	-	-	-	-	-	-	-	-	-	-	-	
		3, 4	1200	-	-	-	-	-	-	-	-	-	-	-	

⁽¹⁾ only up to 40 A; 10 kA up to 50/63 A ⁽²⁾ 250 Vdc = 4.5kA ⁽³⁾ 500 Vdc = 4.5kA ⁽⁶⁾ 10kA for 0.2 ... 40A, 6kA for 50 ... 63A

Miniature circuit breakers

System Pro M Compact

Interrupting ratings									
Series			S800U	S800PV-S	S800PV-M	S500		S500UC	
			Z,K	PV-S	PV-M	K adjustable		K adjustable	
	Nr. poles	U _e [V]	10...100 [kA]	10...125 [kA]	32,63,125 [kA]	0.1...3 [kA]	2.8...11 [kA]	10...45 [kA]	0.1...45 [kA]
IEC/EN 60947-2 (AC)	Icu	1, 1P+N	133	-	-	-	-	-	-
			230	30	-	100	50	30	-
		2, 3, 4	230	50	-	-	-	-	-
			400	50	-	100	50	30	-
			500	-	-	100	20	15	-
			690	-	-	100	6	6	-
IEC/EN 60947-2 (AC)	Ics	1, 1P+N	133	-	-	-	-	-	-
			230	25	-	-	-	-	-
		2, 3, 4	230	40	-	100	30	25	-
			400	-	-	100	30	25	-
			500	-	-	100	15	11	-
			690	-	-	100	3	3	-
IEC/EN 60947-2 (DC)	Icu	1, 1P+N	24	-	-	-	-	-	-
			60	-	-	-	-	-	-
			125	-	-	-	-	-	-
			250	-	-	-	-	-	30
		2	48	-	-	-	-	-	-
			125	-	-	-	-	-	-
			250	-	-	-	-	-	-
			500	-	-	-	-	-	30
			600	-	-	-	-	-	-
			800	-	5	-	-	-	-
		3,4	375	-	-	-	-	-	-
			500	-	-	-	-	-	-
			750	-	-	-	-	-	30
			1000	-	-	-	-	-	-
			1200	-	5	-	-	-	-
IEC/EN 60947-2 (DC)	Ics	1, 1P+N	24	-	-	-	-	-	-
			60	-	-	-	-	-	-
			125	-	-	-	-	-	-
			250	-	-	-	-	-	-
		2	48	-	-	-	-	-	-
			125	-	-	-	-	-	-
			250	-	-	-	-	-	-
			500	-	-	-	-	-	-
			600	-	-	-	-	-	-
			800	-	5	-	-	-	-
		3,4	375	-	-	-	-	-	-
			500	-	-	-	-	-	-
UL 1077/ C22.2 No 235 (AC)	Icu	1, 1P+N	120	-	-	-	-	-	-
			277	-	-	-	-	-	-
			347	-	-	-	-	-	-
		2, 3, 4	240	-	-	30	-	18	-
			480 Y/277	-	-	14	-	14	-
			600 Y/347	-	-	6	-	6	-
UL 1077/ C22.2 No 235 (DC)	Icu	1, 1P+N	250	-	-	-	-	-	30 ⁽⁴⁾
		2, 3, 4	500, 600	-	-	-	-	-	30 ⁽⁵⁾
UL 489/ C22.2 No 5 (AC)	Icu	1	240	30	-	-	-	-	-
			277	-	-	-	-	-	-
		2, 3, 4	240	50	-	-	-	-	-
			480 Y/277	-	-	-	-	-	-
UL 489/ C22.2 No 5 (DC)	Icu	1	60	-	-	-	-	-	-
		2	125	-	-	-	-	-	-
IEC/EN 60947-3	Icw	2	800	-	-	1.5	-	-	-
		3, 4	1200	-	-	1.5	-	-	-

⁽⁴⁾ 250 Vdc for 1P

⁽⁵⁾ 500Vdc for 2P, 600 Vdc for 3,4P

Miniature circuit breakers

System Pro M Compact

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General electrical data		
Series		S200
Standards and approvals		IEC/EN 60898-1, IEC/EN 60647-2, UL1077, CSA C22.2 No. 235
Poles		1P, 1P+N, 2P, 3P, 3P+N, 4P
Tripping characteristics		B, C, D, K, Z
Rated current I_n	[A]	0.5 ... 63A
Rated voltage U_n IEC/EN 60898-1	[V]	1P: 230/400VAC, 1P+N: 230VAC, 2...4P: 400VAC
Rated voltage U_n IEC/EN 60947-2	[V]	1P: 230VAC, 1P+N: 230VAC, 2...4P: 400VAC
Rated voltage UL/CSA	[V]	1P: 277VAC, 1...4P: 480Y / 277VAC, 1P: 60VDC, 2...4P: 125VDC
Insulation voltage U_i IEC/EN	[V]	250VAC (phase to ground), 500VAC (phase to phase)
Max. operating voltage U_{bmax} IEC/EN	[V]	1P: 253VAC, 1P+N: 253VAC, 2...4P: 440VAC, 1P: 72VDC, 2P: 125VDC
Min. operating voltage	[V]	12VAC, 12VDC
Rated Frequency	[Hz]	50 / 60 Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA]	6 kA
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA]	10 kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA]	7.5 kA
Rated interrupting capacity UL1077 / CSA C22.2 No. 235	[kA]	6 kA (10 kA @ 240VAC)
Energy limiting class IEC/EN 60898-1		3
Overvoltage category IEC/EN		III
Pollution degree IEC/EN 60898-1		2
Rated impulse withstand voltage U_{imp} IEC/EN	[kV]	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2000M)
Dielectric test voltage	[kV]	2 kV (50 / 60 Hz, 1 min.)
General mechanical and installation data		
Series		S200
Housing		Insulation group I, RAL 7035
Toggle		Insulation group II, black, sealable
Contact position indication		Marking on toggle I-ON / 0-OFF
Protection degree EN 60529		IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops]	$I_n < 32A$: 20,000; $I_n > 32A$: 10,000; 1,000 in DC
Mechanical life	[ops]	20,000
Shock resistance IEC/EN 60068-2-27		30g - 3 shocks - 11 ms
Vibration resistance IEC/EN 60068-2-6		5g - 20 cycles at 5...150...5 Hz with load $0.8 \times I_n$
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH]	28 cycles with 55°C / 90-96 % and 25°C / 100 %
Ambient temperature	[°C]	-25...+55°C
Storage temperature	[°C]	-40...+70°C
Reference temperature for tripping characteristics IEC/EN	[°C]	B, C, D : 30°C; K, Z : 20°C
Terminal		Failsafe bi-directional cylinder-lift terminal
Cross section of conductors (top / bottom)	[mm²]	25 mm²
	[AWG]	18-4 AWG
Cross section of busbars (top / bottom)	[mm²]	10 mm²
	[AWG]	18-8 AWG
Torque	[Nm]	2.8 Nm
	[in-lbs]	25 in-lbs
Screwdriver		No. 2 pozidrive
Mounting		On 35mm Din rail
Supply		Optional
Mounting dimensions DIN 43880		Mounting dimension 1
Pole dimensions (H x D x W)	[mm]	88 x 69 x 17.5 mm
Pole weight	[g]	125 g
Auxiliary contact combination		YES
Signal contact / auxiliary contact combination		YES
Shunt trip combination		YES
Undervoltage release combination		YES

Miniature circuit breakers

System Pro M Compact

B type trip curve



S201-B6



S201-B6NA



S202-B6



S201-B According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	6	277	6	60	10	S201-B6	DS-S2	125
1	10	277	6	60	10	S201-B10	DS-S2	125
1	13	277	6	60	10	S201-B13	DS-S2	125
1	16	277	6	60	10	S201-B16	DS-S2	125
1	20	277	6	60	10	S201-B20	DS-S2	125
1	25	277	6	60	10	S201-B25	DS-S2	125
1	32	277	6	60	10	S201-B32	DS-S2	125
1	40	277	6	60	10	S201-B40	DS-S2	125
1	50	277	6	60	10	S201-B50	DS-S2	125
1	63	277	6	60	10	S201-B63	DS-S2	125

S201-B NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1+N	6	277	6	60	10	S202-B6NA	DS-S2	250
1+N	10	277	6	60	10	S202-B10NA	DS-S2	250
1+N	13	277	6	60	10	S202-B13NA	DS-S2	250
1+N	16	277	6	60	10	S202-B16NA	DS-S2	250
1+N	20	277	6	60	10	S202-B20NA	DS-S2	250
1+N	25	277	6	60	10	S202-B25NA	DS-S2	250
1+N	32	277	6	60	10	S202-B32NA	DS-S2	250
1+N	40	277	6	60	10	S202-B40NA	DS-S2	250
1+N	50	277	6	60	10	S202-B50NA	DS-S2	250
1+N	63	277	6	60	10	S202-B63NA	DS-S2	250

S202-B According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	6	480Y/277	6	125	10	S202-B6	DS-S2	250
2	10	480Y/277	6	125	10	S202-B10	DS-S2	250
2	13	480Y/277	6	125	10	S202-B13	DS-S2	250
2	16	480Y/277	6	125	10	S202-B16	DS-S2	250
2	20	480Y/277	6	125	10	S202-B20	DS-S2	250
2	25	480Y/277	6	125	10	S202-B25	DS-S2	250
2	32	480Y/277	6	125	10	S202-B32	DS-S2	250
2	40	480Y/277	6	125	10	S202-B40	DS-S2	250
2	50	480Y/277	6	125	10	S202-B50	DS-S2	250
2	63	480Y/277	6	125	10	S202-B63	DS-S2	250

Miniature circuit breakers

System Pro M Compact

B type trip curve

2



S203-B6



S203-B According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	6	480Y/277	6	125	10	S203-B6	DS-S2	375
3	10	480Y/277	6	125	10	S203-B10	DS-S2	375
3	13	480Y/277	6	125	10	S203-B13	DS-S2	375
3	16	480Y/277	6	125	10	S203-B16	DS-S2	375
3	20	480Y/277	6	125	10	S203-B20	DS-S2	375
3	25	480Y/277	6	125	10	S203-B25	DS-S2	375
3	32	480Y/277	6	125	10	S203-B32	DS-S2	375
3	40	480Y/277	6	125	10	S203-B40	DS-S2	375
3	50	480Y/277	6	125	10	S203-B50	DS-S2	375
3	63	480Y/277	6	125	10	S203-B63	DS-S2	375



S203-B6NA



S203-B NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3+N	6	480Y/277	6	125	10	S203-B6NA	DS-S2	500
3+N	10	480Y/277	6	125	10	S203-B10NA	DS-S2	500
3+N	13	480Y/277	6	125	10	S203-B13NA	DS-S2	500
3+N	16	480Y/277	6	125	10	S203-B16NA	DS-S2	500
3+N	20	480Y/277	6	125	10	S203-B20NA	DS-S2	500
3+N	25	480Y/277	6	125	10	S203-B25NA	DS-S2	500
3+N	32	480Y/277	6	125	10	S203-B32NA	DS-S2	500
3+N	40	480Y/277	6	125	10	S203-B40NA	DS-S2	500
3+N	50	480Y/277	6	125	10	S203-B50NA	DS-S2	500
3+N	63	480Y/277	6	125	10	S203-B63NA	DS-S2	500



S204-B6



S204-B According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	6	480Y/277	6	125	10	S204-B6	DS-S2	500
4	10	480Y/277	6	125	10	S204-B10	DS-S2	500
4	13	480Y/277	6	125	10	S204-B13	DS-S2	500
4	16	480Y/277	6	125	10	S204-B16	DS-S2	500
4	20	480Y/277	6	125	10	S204-B20	DS-S2	500
4	25	480Y/277	6	125	10	S204-B25	DS-S2	500
4	32	480Y/277	6	125	10	S204-B32	DS-S2	500
4	40	480Y/277	6	125	10	S204-B40	DS-S2	500
4	50	480Y/277	6	125	10	S204-B50	DS-S2	500
4	63	480Y/277	6	125	10	S204-B63	DS-S2	500

Miniature circuit breakers

System Pro M Compact

C type trip curve



S201-C6



S201-C6NA



S201-C According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	6	60	10	S201-C0.5	DS-S2C	125
1	1	277	6	60	10	S201-C1	DS-S2C	125
1	1.6	277	6	60	10	S201-C1.6	DS-S2C	125
1	2	277	6	60	10	S201-C2	DS-S2C	125
1	3	277	6	60	10	S201-C3	DS-S2C	125
1	4	277	6	60	10	S201-C4	DS-S2C	125
1	6	277	6	60	10	S201-C6	DS-S2C	125
1	8	277	6	60	10	S201-C8	DS-S2C	125
1	10	277	6	60	10	S201-C10	DS-S2C	125
1	13	277	6	60	10	S201-C13	DS-S2C	125
1	16	277	6	60	10	S201-C16	DS-S2C	125
1	20	277	6	60	10	S201-C20	DS-S2C	125
1	25	277	6	60	10	S201-C25	DS-S2C	125
1	32	277	6	60	10	S201-C32	DS-S2C	125
1	40	277	6	60	10	S201-C40	DS-S2C	125
1	50	277	6	60	10	S201-C50	DS-S2C	125
1	63	277	6	60	10	S201-C63	DS-S2C	125

S201-C NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1+N	0.5	277	6	60	10	S201-C0.5NA	DS-S2C	250
1+N	1	277	6	60	10	S201-C1NA	DS-S2C	250
1+N	1.6	277	6	60	10	S201-C1.6NA	DS-S2C	250
1+N	2	277	6	60	10	S201-C2NA	DS-S2C	250
1+N	3	277	6	60	10	S201-C3NA	DS-S2C	250
1+N	4	277	6	60	10	S201-C4NA	DS-S2C	250
1+N	6	277	6	60	10	S201-C6NA	DS-S2C	250
1+N	8	277	6	60	10	S201-C8NA	DS-S2C	250
1+N	10	277	6	60	10	S201-C10NA	DS-S2C	250
1+N	13	277	6	60	10	S201-C13NA	DS-S2C	250
1+N	16	277	6	60	10	S201-C16NA	DS-S2C	250
1+N	20	277	6	60	10	S201-C20NA	DS-S2C	250
1+N	25	277	6	60	10	S201-C25NA	DS-S2C	250
1+N	32	277	6	60	10	S201-C32NA	DS-S2C	250
1+N	40	277	6	60	10	S201-C40NA	DS-S2C	250
1+N	50	277	6	60	10	S201-C50NA	DS-S2C	250
1+N	63	277	6	60	10	S201-C63NA	DS-S2C	250

Miniature circuit breakers

System Pro M Compact

C type trip curve

2



S202-C6



S202-C According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	6	125	10	S202-C0.5	DS-S2C	250
2	1	480Y/277	6	125	10	S202-C1	DS-S2C	250
2	1.6	480Y/277	6	125	10	S202-C1.6	DS-S2C	250
2	2	480Y/277	6	125	10	S202-C2	DS-S2C	250
2	3	480Y/277	6	125	10	S202-C3	DS-S2C	250
2	4	480Y/277	6	125	10	S202-C4	DS-S2C	250
2	6	480Y/277	6	125	10	S202-C6	DS-S2C	250
2	8	480Y/277	6	125	10	S202-C8	DS-S2C	250
2	10	480Y/277	6	125	10	S202-C10	DS-S2C	250
2	13	480Y/277	6	125	10	S202-C13	DS-S2C	250
2	16	480Y/277	6	125	10	S202-C16	DS-S2C	250
2	20	480Y/277	6	125	10	S202-C20	DS-S2C	250
2	25	480Y/277	6	125	10	S202-C25	DS-S2C	250
2	32	480Y/277	6	125	10	S202-C32	DS-S2C	250
2	40	480Y/277	6	125	10	S202-C40	DS-S2C	250
2	50	480Y/277	6	125	10	S202-C50	DS-S2C	250
2	63	480Y/277	6	125	10	S202-C63	DS-S2C	250



S203-C6



S203-C According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	6	125	10	S203-C0.5	DS-S2C	375
3	1	480Y/277	6	125	10	S203-C1	DS-S2C	375
3	1.6	480Y/277	6	125	10	S203-C1.6	DS-S2C	375
3	2	480Y/277	6	125	10	S203-C2	DS-S2C	375
3	3	480Y/277	6	125	10	S203-C3	DS-S2C	375
3	4	480Y/277	6	125	10	S203-C4	DS-S2C	375
3	6	480Y/277	6	125	10	S203-C6	DS-S2C	375
3	8	480Y/277	6	125	10	S203-C8	DS-S2C	375
3	10	480Y/277	6	125	10	S203-C10	DS-S2C	375
3	13	480Y/277	6	125	10	S203-C13	DS-S2C	375
3	16	480Y/277	6	125	10	S203-C16	DS-S2C	375
3	20	480Y/277	6	125	10	S203-C20	DS-S2C	375
3	25	480Y/277	6	125	10	S203-C25	DS-S2C	375
3	32	480Y/277	6	125	10	S203-C32	DS-S2C	375
3	40	480Y/277	6	125	10	S203-C40	DS-S2C	375
3	50	480Y/277	6	125	10	S203-C50	DS-S2C	375
3	63	480Y/277	6	125	10	S203-C63	DS-S2C	375

Miniature circuit breakers

System Pro M Compact

C type trip curve



S203-C6NA



S204-C6



S203-C NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3+N	0.5	480Y/277	6	125	10	S203-C0.5NA	DS-S2C	500
3+N	1	480Y/277	6	125	10	S203-C1NA	DS-S2C	500
3+N	1.6	480Y/277	6	125	10	S203-C1.6NA	DS-S2C	500
3+N	2	480Y/277	6	125	10	S203-C2NA	DS-S2C	500
3+N	3	480Y/277	6	125	10	S203-C3NA	DS-S2C	500
3+N	4	480Y/277	6	125	10	S203-C4NA	DS-S2C	500
3+N	6	480Y/277	6	125	10	S203-C6NA	DS-S2C	500
3+N	8	480Y/277	6	125	10	S203-C8NA	DS-S2C	500
3+N	10	480Y/277	6	125	10	S203-C10NA	DS-S2C	500
3+N	13	480Y/277	6	125	10	S203-C13NA	DS-S2C	500
3+N	16	480Y/277	6	125	10	S203-C16NA	DS-S2C	500
3+N	20	480Y/277	6	125	10	S203-C20NA	DS-S2C	500
3+N	25	480Y/277	6	125	10	S203-C25NA	DS-S2C	500
3+N	32	480Y/277	6	125	10	S203-C32NA	DS-S2C	500
3+N	40	480Y/277	6	125	10	S203-C40NA	DS-S2C	500
3+N	50	480Y/277	6	125	10	S203-C50NA	DS-S2C	500
3+N	63	480Y/277	6	125	10	S203-C63NA	DS-S2C	500

S204-C According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	480Y/277	6	125	10	S204-C0.5	DS-S2C	500
4	1	480Y/277	6	125	10	S204-C1	DS-S2C	500
4	1.6	480Y/277	6	125	10	S204-C1.6	DS-S2C	500
4	2	480Y/277	6	125	10	S204-C2	DS-S2C	500
4	3	480Y/277	6	125	10	S204-C3	DS-S2C	500
4	4	480Y/277	6	125	10	S204-C4	DS-S2C	500
4	6	480Y/277	6	125	10	S204-C6	DS-S2C	500
4	8	480Y/277	6	125	10	S204-C8	DS-S2C	500
4	10	480Y/277	6	125	10	S204-C10	DS-S2C	500
4	13	480Y/277	6	125	10	S204-C13	DS-S2C	500
4	16	480Y/277	6	125	10	S204-C16	DS-S2C	500
4	20	480Y/277	6	125	10	S204-C20	DS-S2C	500
4	25	480Y/277	6	125	10	S204-C25	DS-S2C	500
4	32	480Y/277	6	125	10	S204-C32	DS-S2C	500
4	40	480Y/277	6	125	10	S204-C40	DS-S2C	500
4	50	480Y/277	6	125	10	S204-C50	DS-S2C	500
4	63	480Y/277	6	125	10	S204-C63	DS-S2C	500

Miniature circuit breakers

System Pro M Compact

D type trip curve

2



S201-D6



S201-D According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	6	60	10	S201-D0.5	DS-S2	125
1	1	277	6	60	10	S201-D1	DS-S2	125
1	1.6	277	6	60	10	S201-D1.6	DS-S2	125
1	2	277	6	60	10	S201-D2	DS-S2	125
1	3	277	6	60	10	S201-D3	DS-S2	125
1	4	277	6	60	10	S201-D4	DS-S2	125
1	6	277	6	60	10	S201-D6	DS-S2	125
1	8	277	6	60	10	S201-D8	DS-S2	125
1	10	277	6	60	10	S201-D10	DS-S2	125
1	13	277	6	60	10	S201-D13	DS-S2	125
1	16	277	6	60	10	S201-D16	DS-S2	125
1	20	277	6	60	10	S201-D20	DS-S2	125
1	25	277	6	60	10	S201-D25	DS-S2	125
1	32	277	6	60	10	S201-D32	DS-S2	125
1	40	277	6	60	10	S201-D40	DS-S2	125
1	50	277	6	60	10	S201-D50	DS-S2	125
1	63	277	6	60	10	S201-D63	DS-S2	125



S201-D6NA



S201-D NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1+N	0.5	277	6	60	10	S201-D0.5NA	DS-S2	250
1+N	1	277	6	60	10	S201-D1NA	DS-S2	250
1+N	1.6	277	6	60	10	S201-D1.6NA	DS-S2	250
1+N	2	277	6	60	10	S201-D2NA	DS-S2	250
1+N	3	277	6	60	10	S201-D3NA	DS-S2	250
1+N	4	277	6	60	10	S201-D4NA	DS-S2	250
1+N	6	277	6	60	10	S201-D6NA	DS-S2	250
1+N	8	277	6	60	10	S201-D8NA	DS-S2	250
1+N	10	277	6	60	10	S201-D10NA	DS-S2	250
1+N	13	277	6	60	10	S201-D13NA	DS-S2	250
1+N	16	277	6	60	10	S201-D16NA	DS-S2	250
1+N	20	277	6	60	10	S201-D20NA	DS-S2	250
1+N	25	277	6	60	10	S201-D25NA	DS-S2	250
1+N	32	277	6	60	10	S201-D32NA	DS-S2	250
1+N	40	277	6	60	10	S201-D40NA	DS-S2	250
1+N	50	277	6	60	10	S201-D50NA	DS-S2	250
1+N	63	277	6	60	10	S201-D63NA	DS-S2	250

Miniature circuit breakers

System Pro M Compact

D type trip curve



S202-D6



S202-D According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	6	125	10	S202-D0.5	DS-S2	250
2	1	480Y/277	6	125	10	S202-D1	DS-S2	250
2	1.6	480Y/277	6	125	10	S202-D1.6	DS-S2	250
2	2	480Y/277	6	125	10	S202-D2	DS-S2	250
2	3	480Y/277	6	125	10	S202-D3	DS-S2	250
2	4	480Y/277	6	125	10	S202-D4	DS-S2	250
2	6	480Y/277	6	125	10	S202-D6	DS-S2	250
2	8	480Y/277	6	125	10	S202-D8	DS-S2	250
2	10	480Y/277	6	125	10	S202-D10	DS-S2	250
2	13	480Y/277	6	125	10	S202-D13	DS-S2	250
2	16	480Y/277	6	125	10	S202-D16	DS-S2	250
2	20	480Y/277	6	125	10	S202-D20	DS-S2	250
2	25	480Y/277	6	125	10	S202-D25	DS-S2	250
2	32	480Y/277	6	125	10	S202-D32	DS-S2	250
2	40	480Y/277	6	125	10	S202-D40	DS-S2	250
2	50	480Y/277	6	125	10	S202-D50	DS-S2	250
2	63	480Y/277	6	125	10	S202-D63	DS-S2	250



S203-D6



S203-D According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	6	125	10	S203-D0.5	DS-S2	375
3	1	480Y/277	6	125	10	S203-D1	DS-S2	375
3	1.6	480Y/277	6	125	10	S203-D1.6	DS-S2	375
3	2	480Y/277	6	125	10	S203-D2	DS-S2	375
3	3	480Y/277	6	125	10	S203-D3	DS-S2	375
3	4	480Y/277	6	125	10	S203-D4	DS-S2	375
3	6	480Y/277	6	125	10	S203-D6	DS-S2	375
3	8	480Y/277	6	125	10	S203-D8	DS-S2	375
3	10	480Y/277	6	125	10	S203-D10	DS-S2	375
3	13	480Y/277	6	125	10	S203-D13	DS-S2	375
3	16	480Y/277	6	125	10	S203-D16	DS-S2	375
3	20	480Y/277	6	125	10	S203-D20	DS-S2	375
3	25	480Y/277	6	125	10	S203-D25	DS-S2	375
3	32	480Y/277	6	125	10	S203-D32	DS-S2	375
3	40	480Y/277	6	125	10	S203-D40	DS-S2	375
3	50	480Y/277	6	125	10	S203-D50	DS-S2	375
3	63	480Y/277	6	125	10	S203-D63	DS-S2	375

Miniature circuit breakers

System Pro M Compact

D type trip curve

2



S203-D6NA



S203-D NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3+N	0.5	480Y/277	6	125	10	S203-D0.5NA	DS-S2	500
3+N	1	480Y/277	6	125	10	S203-D1NA	DS-S2	500
3+N	1.6	480Y/277	6	125	10	S203-D1.6NA	DS-S2	500
3+N	2	480Y/277	6	125	10	S203-D2NA	DS-S2	500
3+N	3	480Y/277	6	125	10	S203-D3NA	DS-S2	500
3+N	4	480Y/277	6	125	10	S203-D4NA	DS-S2	500
3+N	6	480Y/277	6	125	10	S203-D6NA	DS-S2	500
3+N	8	480Y/277	6	125	10	S203-D8NA	DS-S2	500
3+N	10	480Y/277	6	125	10	S203-D10NA	DS-S2	500
3+N	13	480Y/277	6	125	10	S203-D13NA	DS-S2	500
3+N	16	480Y/277	6	125	10	S203-D16NA	DS-S2	500
3+N	20	480Y/277	6	125	10	S203-D20NA	DS-S2	500
3+N	25	480Y/277	6	125	10	S203-D25NA	DS-S2	500
3+N	32	480Y/277	6	125	10	S203-D32NA	DS-S2	500
3+N	40	480Y/277	6	125	10	S203-D40NA	DS-S2	500
3+N	50	480Y/277	6	125	10	S203-D50NA	DS-S2	500
3+N	63	480Y/277	6	125	10	S203-D63NA	DS-S2	500



S204-D6



S204-D According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	480Y/277	6	125	10	S204-D0.5	DS-S2	500
4	1	480Y/277	6	125	10	S204-D1	DS-S2	500
4	1.6	480Y/277	6	125	10	S204-D1.6	DS-S2	500
4	2	480Y/277	6	125	10	S204-D2	DS-S2	500
4	3	480Y/277	6	125	10	S204-D3	DS-S2	500
4	4	480Y/277	6	125	10	S204-D4	DS-S2	500
4	6	480Y/277	6	125	10	S204-D6	DS-S2	500
4	8	480Y/277	6	125	10	S204-D8	DS-S2	500
4	10	480Y/277	6	125	10	S204-D10	DS-S2	500
4	13	480Y/277	6	125	10	S204-D13	DS-S2	500
4	16	480Y/277	6	125	10	S204-D16	DS-S2	500
4	20	480Y/277	6	125	10	S204-D20	DS-S2	500
4	25	480Y/277	6	125	10	S204-D25	DS-S2	500
4	32	480Y/277	6	125	10	S204-D32	DS-S2	500
4	40	480Y/277	6	125	10	S204-D40	DS-S2	500
4	50	480Y/277	6	125	10	S204-D50	DS-S2	500
4	63	480Y/277	6	125	10	S204-D63	DS-S2	500

Miniature circuit breakers

System Pro M Compact

K type trip curve



S201-K15



S201-K15NA



S201-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	6	60	10	S201-K0.5	DS-S2	125
1	1	277	6	60	10	S201-K1	DS-S2	125
1	1.6	277	6	60	10	S201-K1.6	DS-S2	125
1	2	277	6	60	10	S201-K2	DS-S2	125
1	3	277	6	60	10	S201-K3	DS-S2	125
1	4	277	6	60	10	S201-K4	DS-S2	125
1	5	277	6	60	10	S201-K5	DS-S2	125
1	6	277	6	60	10	S201-K6	DS-S2	125
1	8	277	6	60	10	S201-K8	DS-S2	125
1	10	277	6	60	10	S201-K10	DS-S2	125
1	13	277	6	60	10	S201-K13	DS-S2	125
1	15	277	6	60	10	S201-K15	DS-S2	125
1	16	277	6	60	10	S201-K16	DS-S2	125
1	20	277	6	60	10	S201-K20	DS-S2	125
1	25	277	6	60	10	S201-K25	DS-S2	125
1	30	277	6	60	10	S201-K30	DS-S2	125
1	32	277	6	60	10	S201-K32	DS-S2	125
1	40	277	6	60	10	S201-K40	DS-S2	125
1	50	277	6	60	10	S201-K50	DS-S2	125
1	60	277	6	60	10	S201-K60	DS-S2	125
1	63	277	6	60	10	S201-K63	DS-S2	125

S201-K NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1+N	0.5	277	6	60	10	S201-K0.5NA	DS-S2	125
1+N	1	277	6	60	10	S201-K1NA	DS-S2	125
1+N	1.6	277	6	60	10	S201-K1.6NA	DS-S2	125
1+N	2	277	6	60	10	S201-K2NA	DS-S2	125
1+N	3	277	6	60	10	S201-K3NA	DS-S2	125
1+N	4	277	6	60	10	S201-K4NA	DS-S2	125
1+N	5	277	6	60	10	S201-K5NA	DS-S2	125
1+N	6	277	6	60	10	S201-K6NA	DS-S2	125
1+N	8	277	6	60	10	S201-K8NA	DS-S2	125
1+N	10	277	6	60	10	S201-K10NA	DS-S2	125
1+N	13	277	6	60	10	S201-K13NA	DS-S2	125
1+N	15	277	6	60	10	S201-K15NA	DS-S2	125
1+N	16	277	6	60	10	S201-K16NA	DS-S2	125
1+N	20	277	6	60	10	S201-K20NA	DS-S2	125
1+N	25	277	6	60	10	S201-K25NA	DS-S2	125
1+N	30	277	6	60	10	S201-K30NA	DS-S2	125
1+N	32	277	6	60	10	S201-K32NA	DS-S2	125
1+N	40	277	6	60	10	S201-K40NA	DS-S2	125
1+N	50	277	6	60	10	S201-K50NA	DS-S2	125
1+N	60	277	6	60	10	S201-K60NA	DS-S2	125
1+N	63	277	6	60	10	S201-K63NA	DS-S2	125

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S202-K15



S202-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	6	125	10	S202-K0.5	DS-S2	250
2	1	480Y/277	6	125	10	S202-K1	DS-S2	250
2	1.6	480Y/277	6	125	10	S202-K1.6	DS-S2	250
2	2	480Y/277	6	125	10	S202-K2	DS-S2	250
2	3	480Y/277	6	125	10	S202-K3	DS-S2	250
2	4	480Y/277	6	125	10	S202-K4	DS-S2	250
2	5	480Y/277	6	125	10	S202-K5	DS-S2	250
2	6	480Y/277	6	125	10	S202-K6	DS-S2	250
2	8	480Y/277	6	125	10	S202-K8	DS-S2	250
2	10	480Y/277	6	125	10	S202-K10	DS-S2	250
2	13	480Y/277	6	125	10	S202-K13	DS-S2	250
2	15	480Y/277	6	125	10	S202-K15	DS-S2	250
2	16	480Y/277	6	125	10	S202-K16	DS-S2	250
2	20	480Y/277	6	125	10	S202-K20	DS-S2	250
2	25	480Y/277	6	125	10	S202-K25	DS-S2	250
2	30	480Y/277	6	125	10	S202-K30	DS-S2	250
2	32	480Y/277	6	125	10	S202-K32	DS-S2	250
2	40	480Y/277	6	125	10	S202-K40	DS-S2	250
2	50	480Y/277	6	125	10	S202-K50	DS-S2	250
2	60	480Y/277	6	125	10	S202-K60	DS-S2	250
2	63	480Y/277	6	125	10	S202-K63	DS-S2	250



S203-K15



S203-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	6	125	10	S203-K0.5	DS-S2	375
3	1	480Y/277	6	125	10	S203-K1	DS-S2	375
3	1.6	480Y/277	6	125	10	S203-K1.6	DS-S2	375
3	2	480Y/277	6	125	10	S203-K2	DS-S2	375
3	3	480Y/277	6	125	10	S203-K3	DS-S2	375
3	4	480Y/277	6	125	10	S203-K4	DS-S2	375
3	5	480Y/277	6	125	10	S203-K5	DS-S2	375
3	6	480Y/277	6	125	10	S203-K6	DS-S2	375
3	8	480Y/277	6	125	10	S203-K8	DS-S2	375
3	10	480Y/277	6	125	10	S203-K10	DS-S2	375
3	13	480Y/277	6	125	10	S203-K13	DS-S2	375
3	15	480Y/277	6	125	10	S203-K15	DS-S2	375
3	16	480Y/277	6	125	10	S203-K16	DS-S2	375
3	20	480Y/277	6	125	10	S203-K20	DS-S2	375
3	25	480Y/277	6	125	10	S203-K25	DS-S2	375
3	30	480Y/277	6	125	10	S203-K30	DS-S2	375
3	32	480Y/277	6	125	10	S203-K32	DS-S2	375
3	40	480Y/277	6	125	10	S203-K40	DS-S2	375
3	50	480Y/277	6	125	10	S203-K50	DS-S2	375
3	60	480Y/277	6	125	10	S203-K60	DS-S2	375
3	63	480Y/277	6	125	10	S203-K63	DS-S2	375

Miniature circuit breakers

System Pro M Compact

K type trip curve



S203-K15NA



S204-K15



S203-K NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3+N	0.5	480Y/277	6	125	10	S203-K0.5NA	DS-S2	500
3+N	1	480Y/277	6	125	10	S203-K1NA	DS-S2	500
3+N	1.6	480Y/277	6	125	10	S203-K1.6NA	DS-S2	500
3+N	2	480Y/277	6	125	10	S203-K2NA	DS-S2	500
3+N	3	480Y/277	6	125	10	S203-K3NA	DS-S2	500
3+N	4	480Y/277	6	125	10	S203-K4NA	DS-S2	500
3+N	5	480Y/277	6	125	10	S203-K5NA	DS-S2	500
3+N	6	480Y/277	6	125	10	S203-K6NA	DS-S2	500
3+N	8	480Y/277	6	125	10	S203-K8NA	DS-S2	500
3+N	10	480Y/277	6	125	10	S203-K10NA	DS-S2	500
3+N	13	480Y/277	6	125	10	S203-K13NA	DS-S2	500
3+N	15	480Y/277	6	125	10	S203-K15NA	DS-S2	500
3+N	16	480Y/277	6	125	10	S203-K16NA	DS-S2	500
3+N	20	480Y/277	6	125	10	S203-K20NA	DS-S2	500
3+N	25	480Y/277	6	125	10	S203-K25NA	DS-S2	500
3+N	30	480Y/277	6	125	10	S203-K30NA	DS-S2	500
3+N	32	480Y/277	6	125	10	S203-K32NA	DS-S2	500
3+N	40	480Y/277	6	125	10	S203-K40NA	DS-S2	500
3+N	50	480Y/277	6	125	10	S203-K50NA	DS-S2	500
3+N	60	480Y/277	6	125	10	S203-K60NA	DS-S2	500
3+N	63	480Y/277	6	125	10	S203-K63NA	DS-S2	500

S204-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	480Y/277	6	125	10	S204-K0.5	DS-S2	500
4	1	480Y/277	6	125	10	S204-K1	DS-S2	500
4	1.6	480Y/277	6	125	10	S204-K1.6	DS-S2	500
4	2	480Y/277	6	125	10	S204-K2	DS-S2	500
4	3	480Y/277	6	125	10	S204-K3	DS-S2	500
4	4	480Y/277	6	125	10	S204-K4	DS-S2	500
4	5	480Y/277	6	125	10	S204-K5	DS-S2	500
4	6	480Y/277	6	125	10	S204-K6	DS-S2	500
4	8	480Y/277	6	125	10	S204-K8	DS-S2	500
4	10	480Y/277	6	125	10	S204-K10	DS-S2	500
4	13	480Y/277	6	125	10	S204-K13	DS-S2	500
4	15	480Y/277	6	125	10	S204-K15	DS-S2	500
4	16	480Y/277	6	125	10	S204-K16	DS-S2	500
4	20	480Y/277	6	125	10	S204-K20	DS-S2	500
4	25	480Y/277	6	125	10	S204-K25	DS-S2	500
4	30	480Y/277	6	125	10	S204-K30	DS-S2	500
4	32	480Y/277	6	125	10	S204-K32	DS-S2	500
4	40	480Y/277	6	125	10	S204-K40	DS-S2	500
4	50	480Y/277	6	125	10	S204-K50	DS-S2	500
4	60	480Y/277	6	125	10	S204-K60	DS-S2	500
4	63	480Y/277	6	125	10	S204-K63	DS-S2	500

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S201-Z32



S201-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	6	60	10	S201-Z0.5	DS-S2	125
1	1	277	6	60	10	S201-Z1	DS-S2	125
1	1.6	277	6	60	10	S201-Z1.6	DS-S2	125
1	2	277	6	60	10	S201-Z2	DS-S2	125
1	3	277	6	60	10	S201-Z3	DS-S2	125
1	4	277	6	60	10	S201-Z4	DS-S2	125
1	6	277	6	60	10	S201-Z6	DS-S2	125
1	8	277	6	60	10	S201-Z8	DS-S2	125
1	10	277	6	60	10	S201-Z10	DS-S2	125
1	16	277	6	60	10	S201-Z16	DS-S2	125
1	20	277	6	60	10	S201-Z20	DS-S2	125
1	25	277	6	60	10	S201-Z25	DS-S2	125
1	32	277	6	60	10	S201-Z32	DS-S2	125
1	40	277	6	60	10	S201-Z40	DS-S2	125
1	50	277	6	60	10	S201-Z50	DS-S2	125
1	63	277	6	60	10	S201-Z63	DS-S2	125



S201-Z32NA



S201-Z NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1+N	0.5	277	6	60	10	S201-Z0.5NA	DS-S2	250
1+N	1	277	6	60	10	S201-Z1NA	DS-S2	250
1+N	1.6	277	6	60	10	S201-Z1.6NA	DS-S2	250
1+N	2	277	6	60	10	S201-Z2NA	DS-S2	250
1+N	3	277	6	60	10	S201-Z3NA	DS-S2	250
1+N	4	277	6	60	10	S201-Z4NA	DS-S2	250
1+N	6	277	6	60	10	S201-Z6NA	DS-S2	250
1+N	8	277	6	60	10	S201-Z8NA	DS-S2	250
1+N	10	277	6	60	10	S201-Z10NA	DS-S2	250
1+N	16	277	6	60	10	S201-Z16NA	DS-S2	250
1+N	20	277	6	60	10	S201-Z20NA	DS-S2	250
1+N	25	277	6	60	10	S201-Z25NA	DS-S2	250
1+N	32	277	6	60	10	S201-Z32NA	DS-S2	250
1+N	40	277	6	60	10	S201-Z40NA	DS-S2	250
1+N	50	277	6	60	10	S201-Z50NA	DS-S2	250
1+N	63	277	6	60	10	S201-Z63NA	DS-S2	250

Miniature circuit breakers

System Pro M Compact

Z type trip curve



S202-Z32



S203-Z32



S202-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	6	125	10	S202-Z0.5	DS-S2	250
2	1	480Y/277	6	125	10	S202-Z1	DS-S2	250
2	1.6	480Y/277	6	125	10	S202-Z1.6	DS-S2	250
2	2	480Y/277	6	125	10	S202-Z2	DS-S2	250
2	3	480Y/277	6	125	10	S202-Z3	DS-S2	250
2	4	480Y/277	6	125	10	S202-Z4	DS-S2	250
2	6	480Y/277	6	125	10	S202-Z6	DS-S2	250
2	8	480Y/277	6	125	10	S202-Z8	DS-S2	250
2	10	480Y/277	6	125	10	S202-Z10	DS-S2	250
2	16	480Y/277	6	125	10	S202-Z16	DS-S2	250
2	20	480Y/277	6	125	10	S202-Z20	DS-S2	250
2	25	480Y/277	6	125	10	S202-Z25	DS-S2	250
2	32	480Y/277	6	125	10	S202-Z32	DS-S2	250
2	40	480Y/277	6	125	10	S202-Z40	DS-S2	250
2	50	480Y/277	6	125	10	S202-Z50	DS-S2	250
2	63	480Y/277	6	125	10	S202-Z63	DS-S2	250

S203-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	6	125	10	S203-Z0.5	DS-S2	375
3	1	480Y/277	6	125	10	S203-Z1	DS-S2	375
3	1.6	480Y/277	6	125	10	S203-Z1.6	DS-S2	375
3	2	480Y/277	6	125	10	S203-Z2	DS-S2	375
3	3	480Y/277	6	125	10	S203-Z3	DS-S2	375
3	4	480Y/277	6	125	10	S203-Z4	DS-S2	375
3	6	480Y/277	6	125	10	S203-Z6	DS-S2	375
3	8	480Y/277	6	125	10	S203-Z8	DS-S2	375
3	10	480Y/277	6	125	10	S203-Z10	DS-S2	375
3	16	480Y/277	6	125	10	S203-Z16	DS-S2	375
3	20	480Y/277	6	125	10	S203-Z20	DS-S2	375
3	25	480Y/277	6	125	10	S203-Z25	DS-S2	375
3	32	480Y/277	6	125	10	S203-Z32	DS-S2	375
3	40	480Y/277	6	125	10	S203-Z40	DS-S2	375
3	50	480Y/277	6	125	10	S203-Z50	DS-S2	375
3	63	480Y/277	6	125	10	S203-Z63	DS-S2	375

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S203-Z32NA



S203-Z NA According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3+N	0.5	480Y/277	6	125	10	S203-Z0.5NA	DS-S2	500
3+N	1	480Y/277	6	125	10	S203-Z1NA	DS-S2	500
3+N	1.6	480Y/277	6	125	10	S203-Z1.6NA	DS-S2	500
3+N	2	480Y/277	6	125	10	S203-Z2NA	DS-S2	500
3+N	3	480Y/277	6	125	10	S203-Z3NA	DS-S2	500
3+N	4	480Y/277	6	125	10	S203-Z4NA	DS-S2	500
3+N	6	480Y/277	6	125	10	S203-Z6NA	DS-S2	500
3+N	8	480Y/277	6	125	10	S203-Z8NA	DS-S2	500
3+N	10	480Y/277	6	125	10	S203-Z10NA	DS-S2	500
3+N	16	480Y/277	6	125	10	S203-Z16NA	DS-S2	500
3+N	20	480Y/277	6	125	10	S203-Z20NA	DS-S2	500
3+N	25	480Y/277	6	125	10	S203-Z25NA	DS-S2	500
3+N	32	480Y/277	6	125	10	S203-Z32NA	DS-S2	500
3+N	40	480Y/277	6	125	10	S203-Z40NA	DS-S2	500
3+N	50	480Y/277	6	125	10	S203-Z50NA	DS-S2	500
3+N	63	480Y/277	6	125	10	S203-Z63NA	DS-S2	500



S204-Z32



S203-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	480Y/277	6	125	10	S204-Z0.5	DS-S2	500
4	1	480Y/277	6	125	10	S204-Z1	DS-S2	500
4	1.6	480Y/277	6	125	10	S204-Z1.6	DS-S2	500
4	2	480Y/277	6	125	10	S204-Z2	DS-S2	500
4	3	480Y/277	6	125	10	S204-Z3	DS-S2	500
4	4	480Y/277	6	125	10	S204-Z4	DS-S2	500
4	6	480Y/277	6	125	10	S204-Z6	DS-S2	500
4	8	480Y/277	6	125	10	S204-Z8	DS-S2	500
4	10	480Y/277	6	125	10	S204-Z10	DS-S2	500
4	16	480Y/277	6	125	10	S204-Z16	DS-S2	500
4	20	480Y/277	6	125	10	S204-Z20	DS-S2	500
4	25	480Y/277	6	125	10	S204-Z25	DS-S2	500
4	32	480Y/277	6	125	10	S204-Z32	DS-S2	500
4	40	480Y/277	6	125	10	S204-Z40	DS-S2	500
4	50	480Y/277	6	125	10	S204-Z50	DS-S2	500
4	63	480Y/277	6	125	10	S204-Z63	DS-S2	500

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S200U / S200UP
Standards and approvals	IEC/EN 60898-1, IEC/EN 60647-2, UL489, CSA C22.2 No. 5
Poles	1P, 2P, 3P, 4P
Tripping characteristics	C, K, Z
Rated current I_n	[A] S200U: 0.5 ... 63A, S200UP: 0.2 ... 25A
Rated voltage U_n IEC/EN 60898-1	[V] -
Rated voltage U_n IEC/EN 60947-2	[V] 1P: 230VAC, 2...4P: 400VAC
Rated voltage UL/CSA	[V] S200U: 240VAC, S200UP 1P: 277VAC, 2...4P: 480Y / 277 VAC
Insulation voltage U_i IEC/EN	[V] 250VAC (phase to ground), 500VAC (phase to phase)
Max. operating voltage U_{dmax} IEC/EN	[V] 1P: 253/440VAC, 2...4P: 440VAC
Min. operating voltage	[V] 12VAC
Rated Frequency	[Hz] 50 / 60 Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA] -
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 10 kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 7.5 kA
Rated interrupting capacity UL489 / CSA C22.2 No.5	[kA] 10 kA
Energy limiting class IEC/EN 60898-1	-
Overvoltage category IEC/EN	III
Pollution degree IEC/EN 60898-1	-
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] 4 kV (test voltage 6.2 kV at sea level, 5 kV at 2000M)
Dielectric test voltage	[kV] 2 kV (50 / 60 Hz, 1 min.)
General mechanical and installation data	
Series	S200U / S200UP
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Marking on toggle I-ON / 0-OFF, real CPI (red-ON / green-OFF)
Protection degree EN 60529	IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops] $I_n < 32A$: 20,000; $I_n > 32A$: 10,000; 1,000 in DC
Mechanical life	[ops] 20,000
Shock resistance IEC/EN 60068-2-27	30g - 3 shocks - 11 ms
Vibration resistance IEC/EN 60068-2-6	5g - 20 cycles at 5...150...5 Hz with load $0.8 \times I_n$
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH] 28 cycles with 55°C / 90-96 % and 25°C / 100 %
Ambient temperature	[°C] -25...+55°C
Storage temperature	[°C] -40...+70°C
Reference temperature for tripping characteristics UL/CSA	[°C] K, Z : 25°C
Terminal	Failsafe bi-directional cylinder-lift terminal
Cross section of conductors (top / bottom)	[mm²] 25 mm² [AWG] 18-4 AWG
Cross section of busbars (top / bottom)	[mm²] 10 mm² [AWG] 18-8 AWG
Torque	[Nm] 2.8 Nm [in-lbs] 25 in-lbs
Screwdriver	No. 2 pozidrive
Mounting	On 35mm Din rail
Supply	Optional
Mounting dimensions DIN 43880	-
Pole dimensions (H x D x W)	[mm] S200U: 92 x 71 x 17.5 ; S200UP: 100 x 71 x 17.5
Pole weight	[g] 140 g
Auxiliary contact combination	YES
Signal contact / auxiliary contact combination	YES
Shunt trip combination	YES
Undervoltage release combination	NO

Miniature circuit breakers

System Pro M Compact

C

type trip curve

2



S201U-C32



S201U-C According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	240	10	-	-	S201U-C0.5	DS-SU	140
1	1	240	10	-	-	S201U-C1	DS-SU	140
1	1.6	240	10	-	-	S201U-C1.6	DS-SU	140
1	2	240	10	-	-	S201U-C2	DS-SU	140
1	3	240	10	-	-	S201U-C3	DS-SU	140
1	4	240	10	-	-	S201U-C4	DS-SU	140
1	5	240	10	-	-	S201U-C5	DS-SU	140
1	6	240	10	-	-	S201U-C6	DS-SU	140
1	8	240	10	-	-	S201U-C8	DS-SU	140
1	10	240	10	-	-	S201U-C10	DS-SU	140
1	13	240	10	-	-	S201U-C13	DS-SU	140
1	15	240	10	-	-	S201U-C15	DS-SU	140
1	16	240	10	-	-	S201U-C16	DS-SU	140
1	20	240	10	-	-	S201U-C20	DS-SU	140
1	25	240	10	-	-	S201U-C25	DS-SU	140
1	30	240	10	-	-	S201U-C30	DS-SU	140
1	32	240	10	-	-	S201U-C32	DS-SU	140
1	40	240	10	-	-	S201U-C40	DS-SU	140
1	50	240	10	-	-	S201U-C50	DS-SU	140
1	60	240	10	-	-	S201U-C60	DS-SU	140
1	63	240	10	-	-	S201U-C63	DS-SU	140

Miniature circuit breakers

System Pro M Compact

C

type trip curve



S202U-C32



S202U-C According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	240	10	-	-	S202U-C0.5	DS-SU	280
2	1	240	10	-	-	S202U-C1	DS-SU	280
2	1.6	240	10	-	-	S202U-C1.6	DS-SU	280
2	2	240	10	-	-	S202U-C2	DS-SU	280
2	3	240	10	-	-	S202U-C3	DS-SU	280
2	4	240	10	-	-	S202U-C4	DS-SU	280
2	5	240	10	-	-	S202U-C5	DS-SU	280
2	6	240	10	-	-	S202U-C6	DS-SU	280
2	8	240	10	-	-	S202U-C8	DS-SU	280
2	10	240	10	-	-	S202U-C10	DS-SU	280
2	13	240	10	-	-	S202U-C13	DS-SU	280
2	15	240	10	-	-	S202U-C15	DS-SU	280
2	16	240	10	-	-	S202U-C16	DS-SU	280
2	20	240	10	-	-	S202U-C20	DS-SU	280
2	25	240	10	-	-	S202U-C25	DS-SU	280
2	30	240	10	-	-	S202U-C30	DS-SU	280
2	32	240	10	-	-	S202U-C32	DS-SU	280
2	40	240	10	-	-	S202U-C40	DS-SU	280
2	50	240	10	-	-	S202U-C50	DS-SU	280
2	60	240	10	-	-	S202U-C60	DS-SU	280
2	63	240	10	-	-	S202U-C63	DS-SU	280

Miniature circuit breakers

System Pro M Compact

C type trip curve

2



S203U-C32



S203U-C According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	240	10	-	-	S203U-C0.5	DS-SU	420
3	1	240	10	-	-	S203U-C1	DS-SU	420
3	1.6	240	10	-	-	S203U-C1.6	DS-SU	420
3	2	240	10	-	-	S203U-C2	DS-SU	420
3	3	240	10	-	-	S203U-C3	DS-SU	420
3	4	240	10	-	-	S203U-C4	DS-SU	420
3	5	240	10	-	-	S203U-C5	DS-SU	420
3	6	240	10	-	-	S203U-C6	DS-SU	420
3	8	240	10	-	-	S203U-C8	DS-SU	420
3	10	240	10	-	-	S203U-C10	DS-SU	420
3	13	240	10	-	-	S203U-C13	DS-SU	420
3	15	240	10	-	-	S203U-C15	DS-SU	420
3	16	240	10	-	-	S203U-C16	DS-SU	420
3	20	240	10	-	-	S203U-C20	DS-SU	420
3	25	240	10	-	-	S203U-C25	DS-SU	420
3	30	240	10	-	-	S203U-C30	DS-SU	420
3	32	240	10	-	-	S203U-C32	DS-SU	420
3	40	240	10	-	-	S203U-C40	DS-SU	420
3	50	240	10	-	-	S203U-C50	DS-SU	420
3	60	240	10	-	-	S203U-C60	DS-SU	420
3	63	240	10	-	-	S203U-C63	DS-SU	420

Miniature circuit breakers

System Pro M Compact

C

type trip curve



S204U-C32



S204U-C According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	240	10	-	-	S204U-C0.5	DS-SU	560
4	1	240	10	-	-	S204U-C1	DS-SU	560
4	1.6	240	10	-	-	S204U-C1.6	DS-SU	560
4	2	240	10	-	-	S204U-C2	DS-SU	560
4	3	240	10	-	-	S204U-C3	DS-SU	560
4	4	240	10	-	-	S204U-C4	DS-SU	560
4	5	240	10	-	-	S204U-C5	DS-SU	560
4	6	240	10	-	-	S204U-C6	DS-SU	560
4	8	240	10	-	-	S204U-C8	DS-SU	560
4	10	240	10	-	-	S204U-C10	DS-SU	560
4	13	240	10	-	-	S204U-C13	DS-SU	560
4	15	240	10	-	-	S204U-C15	DS-SU	560
4	16	240	10	-	-	S204U-C16	DS-SU	560
4	20	240	10	-	-	S204U-C20	DS-SU	560
4	25	240	10	-	-	S204U-C25	DS-SU	560
4	30	240	10	-	-	S204U-C30	DS-SU	560
4	32	240	10	-	-	S204U-C32	DS-SU	560
4	40	240	10	-	-	S204U-C40	DS-SU	560
4	50	240	10	-	-	S204U-C50	DS-SU	560
4	60	240	10	-	-	S204U-C60	DS-SU	560
4	63	240	10	-	-	S204U-C63	DS-SU	560

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S201U-K32



S201U-K According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.2	240	10	-	-	S201U-K0.2	DS-SU	140
1	0.3	240	10	-	-	S201U-K0.3	DS-SU	140
1	0.5	240	10	-	-	S201U-K0.5	DS-SU	140
1	0.75	240	10	-	-	S201U-K0.75	DS-SU	140
1	1	240	10	-	-	S201U-K1	DS-SU	140
1	1.6	240	10	-	-	S201U-K1.6	DS-SU	140
1	2	240	10	-	-	S201U-K2	DS-SU	140
1	3	240	10	-	-	S201U-K3	DS-SU	140
1	4	240	10	-	-	S201U-K4	DS-SU	140
1	5	240	10	-	-	S201U-K5	DS-SU	140
1	6	240	10	-	-	S201U-K6	DS-SU	140
1	8	240	10	-	-	S201U-K8	DS-SU	140
1	10	240	10	-	-	S201U-K10	DS-SU	140
1	13	240	10	-	-	S201U-K13	DS-SU	140
1	15	240	10	-	-	S201U-K15	DS-SU	140
1	16	240	10	-	-	S201U-K16	DS-SU	140
1	20	240	10	-	-	S201U-K20	DS-SU	140
1	25	240	10	-	-	S201U-K25	DS-SU	140
1	30	240	10	-	-	S201U-K30	DS-SU	140
1	32	240	10	-	-	S201U-K32	DS-SU	140
1	40	240	10	-	-	S201U-K40	DS-SU	140
1	50	240	10	-	-	S201U-K50	DS-SU	140
1	60	240	10	-	-	S201U-K60	DS-SU	140
1	63	240	10	-	-	S201U-K63	DS-SU	140

Miniature circuit breakers

System Pro M Compact

K type trip curve



S202U-K32



S202U-K According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.2	240	10	-	-	S202U-K0.2	DS-SU	280
2	0.3	240	10	-	-	S202U-K0.3	DS-SU	280
2	0.5	240	10	-	-	S202U-K0.5	DS-SU	280
2	0.75	240	10	-	-	S202U-K0.75	DS-SU	280
2	1	240	10	-	-	S202U-K1	DS-SU	280
2	1.6	240	10	-	-	S202U-K1.6	DS-SU	280
2	2	240	10	-	-	S202U-K2	DS-SU	280
2	3	240	10	-	-	S202U-K3	DS-SU	280
2	4	240	10	-	-	S202U-K4	DS-SU	280
2	5	240	10	-	-	S202U-K5	DS-SU	280
2	6	240	10	-	-	S202U-K6	DS-SU	280
2	8	240	10	-	-	S202U-K8	DS-SU	280
2	10	240	10	-	-	S202U-K10	DS-SU	280
2	13	240	10	-	-	S202U-K13	DS-SU	280
2	15	240	10	-	-	S202U-K15	DS-SU	280
2	16	240	10	-	-	S202U-K16	DS-SU	280
2	20	240	10	-	-	S202U-K20	DS-SU	280
2	25	240	10	-	-	S202U-K25	DS-SU	280
2	30	240	10	-	-	S202U-K30	DS-SU	280
2	32	240	10	-	-	S202U-K32	DS-SU	280
2	40	240	10	-	-	S202U-K40	DS-SU	280
2	50	240	10	-	-	S202U-K50	DS-SU	280
2	60	240	10	-	-	S202U-K60	DS-SU	280
2	63	240	10	-	-	S202U-K63	DS-SU	280

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S203U-K32



S203U-K According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.2	240	10	-	-	S203U-K0.2	DS-SU	420
3	0.3	240	10	-	-	S203U-K0.3	DS-SU	420
3	0.5	240	10	-	-	S203U-K0.5	DS-SU	420
3	0.75	240	10	-	-	S203U-K0.75	DS-SU	420
3	1	240	10	-	-	S203U-K1	DS-SU	420
3	1.6	240	10	-	-	S203U-K1.6	DS-SU	420
3	2	240	10	-	-	S203U-K2	DS-SU	420
3	3	240	10	-	-	S203U-K3	DS-SU	420
3	4	240	10	-	-	S203U-K4	DS-SU	420
3	5	240	10	-	-	S203U-K5	DS-SU	420
3	6	240	10	-	-	S203U-K6	DS-SU	420
3	8	240	10	-	-	S203U-K8	DS-SU	420
3	10	240	10	-	-	S203U-K10	DS-SU	420
3	13	240	10	-	-	S203U-K13	DS-SU	420
3	15	240	10	-	-	S203U-K15	DS-SU	420
3	16	240	10	-	-	S203U-K16	DS-SU	420
3	20	240	10	-	-	S203U-K20	DS-SU	420
3	25	240	10	-	-	S203U-K25	DS-SU	420
3	30	240	10	-	-	S203U-K30	DS-SU	420
3	32	240	10	-	-	S203U-K32	DS-SU	420
3	40	240	10	-	-	S203U-K40	DS-SU	420
3	50	240	10	-	-	S203U-K50	DS-SU	420
3	60	240	10	-	-	S203U-K60	DS-SU	420
3	63	240	10	-	-	S203U-K63	DS-SU	420

Miniature circuit breakers

System Pro M Compact

K type trip curve



S204U-K32



S204U-K According to CSA C22.2 No. 5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.2	240	10	-	-	S204U-K0.2	DS-SU	560
4	0.3	240	10	-	-	S204U-K0.3	DS-SU	560
4	0.5	240	10	-	-	S204U-K0.5	DS-SU	560
4	0.75	240	10	-	-	S204U-K0.75	DS-SU	560
4	1	240	10	-	-	S204U-K1	DS-SU	560
4	1.6	240	10	-	-	S204U-K1.6	DS-SU	560
4	2	240	10	-	-	S204U-K2	DS-SU	560
4	3	240	10	-	-	S204U-K3	DS-SU	560
4	4	240	10	-	-	S204U-K4	DS-SU	560
4	5	240	10	-	-	S204U-K5	DS-SU	560
4	6	240	10	-	-	S204U-K6	DS-SU	560
4	8	240	10	-	-	S204U-K8	DS-SU	560
4	10	240	10	-	-	S204U-K10	DS-SU	560
4	13	240	10	-	-	S204U-K13	DS-SU	560
4	15	240	10	-	-	S204U-K15	DS-SU	560
4	16	240	10	-	-	S204U-K16	DS-SU	560
4	20	240	10	-	-	S204U-K20	DS-SU	560
4	25	240	10	-	-	S204U-K25	DS-SU	560
4	30	240	10	-	-	S204U-K30	DS-SU	560
4	32	240	10	-	-	S204U-K32	DS-SU	560
4	40	240	10	-	-	S204U-K40	DS-SU	560
4	50	240	10	-	-	S204U-K50	DS-SU	560
4	60	240	10	-	-	S204U-K60	DS-SU	560
4	63	240	10	-	-	S204U-K63	DS-SU	560

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S201U-Z32



S201U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	240	10	-	-	S201U-Z0.5	DS-SU	140
1	1	240	10	-	-	S201U-Z1	DS-SU	140
1	1.6	240	10	-	-	S201U-Z1.6	DS-SU	140
1	2	240	10	-	-	S201U-Z2	DS-SU	140
1	3	240	10	-	-	S201U-Z3	DS-SU	140
1	4	240	10	-	-	S201U-Z4	DS-SU	140
1	5	240	10	-	-	S201U-Z5	DS-SU	140
1	6	240	10	-	-	S201U-Z6	DS-SU	140
1	8	240	10	-	-	S201U-Z8	DS-SU	140
1	10	240	10	-	-	S201U-Z10	DS-SU	140
1	15	240	10	-	-	S201U-Z15	DS-SU	140
1	16	240	10	-	-	S201U-Z16	DS-SU	140
1	20	240	10	-	-	S201U-Z20	DS-SU	140
1	25	240	10	-	-	S201U-Z25	DS-SU	140
1	30	240	10	-	-	S201U-Z30	DS-SU	140
1	32	240	10	-	-	S201U-Z32	DS-SU	140
1	40	240	10	-	-	S201U-Z40	DS-SU	140
1	50	240	10	-	-	S201U-Z50	DS-SU	140
1	60	240	10	-	-	S201U-Z60	DS-SU	140
1	63	240	10	-	-	S201U-Z63	DS-SU	140



S202U-Z32



S202U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	240	10	-	-	S202U-Z0.5	DS-SU	280
2	1	240	10	-	-	S202U-Z1	DS-SU	280
2	1.6	240	10	-	-	S202U-Z1.6	DS-SU	280
2	2	240	10	-	-	S202U-Z2	DS-SU	280
2	3	240	10	-	-	S202U-Z3	DS-SU	280
2	4	240	10	-	-	S202U-Z4	DS-SU	280
2	5	240	10	-	-	S202U-Z5	DS-SU	280
2	6	240	10	-	-	S202U-Z6	DS-SU	280
2	8	240	10	-	-	S202U-Z8	DS-SU	280
2	10	240	10	-	-	S202U-Z10	DS-SU	280
2	15	240	10	-	-	S202U-Z15	DS-SU	280
2	16	240	10	-	-	S202U-Z16	DS-SU	280
2	20	240	10	-	-	S202U-Z20	DS-SU	280
2	25	240	10	-	-	S202U-Z25	DS-SU	280
2	30	240	10	-	-	S202U-Z30	DS-SU	280
2	32	240	10	-	-	S202U-Z32	DS-SU	280
2	40	240	10	-	-	S202U-Z40	DS-SU	280
2	50	240	10	-	-	S202U-Z50	DS-SU	280
2	60	240	10	-	-	S202U-Z60	DS-SU	280
2	63	240	10	-	-	S202U-Z63	DS-SU	280

Miniature circuit breakers

System Pro M Compact

Z type trip curve



S203U-Z32



S204U-Z32



S203U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	240	10	-	-	S203U-Z0.5	DS-SU	420
3	1	240	10	-	-	S203U-Z1	DS-SU	420
3	1.6	240	10	-	-	S203U-Z1.6	DS-SU	420
3	2	240	10	-	-	S203U-Z2	DS-SU	420
3	3	240	10	-	-	S203U-Z3	DS-SU	420
3	4	240	10	-	-	S203U-Z4	DS-SU	420
3	5	240	10	-	-	S203U-Z5	DS-SU	420
3	6	240	10	-	-	S203U-Z6	DS-SU	420
3	8	240	10	-	-	S203U-Z8	DS-SU	420
3	10	240	10	-	-	S203U-Z10	DS-SU	420
3	15	240	10	-	-	S203U-Z15	DS-SU	420
3	16	240	10	-	-	S203U-Z16	DS-SU	420
3	20	240	10	-	-	S203U-Z20	DS-SU	420
3	25	240	10	-	-	S203U-Z25	DS-SU	420
3	30	240	10	-	-	S203U-Z30	DS-SU	420
3	32	240	10	-	-	S203U-Z32	DS-SU	420
3	40	240	10	-	-	S203U-Z40	DS-SU	420
3	50	240	10	-	-	S203U-Z50	DS-SU	420
3	60	240	10	-	-	S203U-Z60	DS-SU	420
3	63	240	10	-	-	S203U-Z63	DS-SU	420

S204U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	240	10	-	-	S204U-Z0.5	DS-SU	560
4	1	240	10	-	-	S204U-Z1	DS-SU	560
4	1.6	240	10	-	-	S204U-Z1.6	DS-SU	560
4	2	240	10	-	-	S204U-Z2	DS-SU	560
4	3	240	10	-	-	S204U-Z3	DS-SU	560
4	4	240	10	-	-	S204U-Z4	DS-SU	560
4	5	240	10	-	-	S204U-Z5	DS-SU	560
4	6	240	10	-	-	S204U-Z6	DS-SU	560
4	8	240	10	-	-	S204U-Z8	DS-SU	560
4	10	240	10	-	-	S204U-Z10	DS-SU	560
4	15	240	10	-	-	S204U-Z15	DS-SU	560
4	16	240	10	-	-	S204U-Z16	DS-SU	560
4	20	240	10	-	-	S204U-Z20	DS-SU	560
4	25	240	10	-	-	S204U-Z25	DS-SU	560
4	30	240	10	-	-	S204U-Z30	DS-SU	560
4	32	240	10	-	-	S204U-Z32	DS-SU	560
4	40	240	10	-	-	S204U-Z40	DS-SU	560
4	50	240	10	-	-	S204U-Z50	DS-SU	560
4	60	240	10	-	-	S204U-Z60	DS-SU	560
4	63	240	10	-	-	S204U-Z63	DS-SU	560

Miniature circuit breakers

System Pro M Compact

C type trip curve

2



S201UP-C15



S201UP-C According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	10	-	-	S201UP-C0.5	DS-SU	140
1	1	277	10	-	-	S201UP-C1	DS-SU	140
1	1.6	277	10	-	-	S201UP-C1.6	DS-SU	140
1	2	277	10	-	-	S201UP-C2	DS-SU	140
1	3	277	10	-	-	S201UP-C3	DS-SU	140
1	4	277	10	-	-	S201UP-C4	DS-SU	140
1	5	277	10	-	-	S201UP-C5	DS-SU	140
1	6	277	10	-	-	S201UP-C6	DS-SU	140
1	8	277	10	-	-	S201UP-C8	DS-SU	140
1	10	277	10	-	-	S201UP-C10	DS-SU	140
1	13	277	10	-	-	S201UP-C13	DS-SU	140
1	15	277	10	-	-	S201UP-C15	DS-SU	140
1	16	277	10	-	-	S201UP-C16	DS-SU	140
1	20	277	10	-	-	S201UP-C20	DS-SU	140
1	25	277	10	-	-	S201UP-C25	DS-SU	140



S202UP-C15



S202UP-C According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	10	-	-	S202UP-C0.5	DS-SU	280
2	1	480Y/277	10	-	-	S202UP-C1	DS-SU	280
2	1.6	480Y/277	10	-	-	S202UP-C1.6	DS-SU	280
2	2	480Y/277	10	-	-	S202UP-C2	DS-SU	280
2	3	480Y/277	10	-	-	S202UP-C3	DS-SU	280
2	4	480Y/277	10	-	-	S202UP-C4	DS-SU	280
2	5	480Y/277	10	-	-	S202UP-C5	DS-SU	280
2	6	480Y/277	10	-	-	S202UP-C6	DS-SU	280
2	8	480Y/277	10	-	-	S202UP-C8	DS-SU	280
2	10	480Y/277	10	-	-	S202UP-C10	DS-SU	280
2	13	480Y/277	10	-	-	S202UP-C13	DS-SU	280
2	15	480Y/277	10	-	-	S202UP-C15	DS-SU	280
2	16	480Y/277	10	-	-	S202UP-C16	DS-SU	280
2	20	480Y/277	10	-	-	S202UP-C20	DS-SU	280
2	25	480Y/277	10	-	-	S202UP-C25	DS-SU	280

Miniature circuit breakers

System Pro M Compact

C type trip curve



S203UP-C15



S204UP-C15



S203UP-C According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	10	-	-	S203UP-C0.5	DS-SU	420
3	1	480Y/277	10	-	-	S203UP-C1	DS-SU	420
3	1.6	480Y/277	10	-	-	S203UP-C1.6	DS-SU	420
3	2	480Y/277	10	-	-	S203UP-C2	DS-SU	420
3	3	480Y/277	10	-	-	S203UP-C3	DS-SU	420
3	4	480Y/277	10	-	-	S203UP-C4	DS-SU	420
3	5	480Y/277	10	-	-	S203UP-C5	DS-SU	420
3	6	480Y/277	10	-	-	S203UP-C6	DS-SU	420
3	8	480Y/277	10	-	-	S203UP-C8	DS-SU	420
3	10	480Y/277	10	-	-	S203UP-C10	DS-SU	420
3	13	480Y/277	10	-	-	S203UP-C13	DS-SU	420
3	15	480Y/277	10	-	-	S203UP-C15	DS-SU	420
3	16	480Y/277	10	-	-	S203UP-C16	DS-SU	420
3	20	480Y/277	10	-	-	S203UP-C20	DS-SU	420
3	25	480Y/277	10	-	-	S203UP-C25	DS-SU	420

S204UP-C According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	480Y/277	10	-	-	S204UP-C0.5	DS-SU	560
4	1	480Y/277	10	-	-	S204UP-C1	DS-SU	560
4	1.6	480Y/277	10	-	-	S204UP-C1.6	DS-SU	560
4	2	480Y/277	10	-	-	S204UP-C2	DS-SU	560
4	3	480Y/277	10	-	-	S204UP-C3	DS-SU	560
4	4	480Y/277	10	-	-	S204UP-C4	DS-SU	560
4	5	480Y/277	10	-	-	S204UP-C5	DS-SU	560
4	6	480Y/277	10	-	-	S204UP-C6	DS-SU	560
4	8	480Y/277	10	-	-	S204UP-C8	DS-SU	560
4	10	480Y/277	10	-	-	S204UP-C10	DS-SU	560
4	13	480Y/277	10	-	-	S204UP-C13	DS-SU	560
4	15	480Y/277	10	-	-	S204UP-C15	DS-SU	560
4	16	480Y/277	10	-	-	S204UP-C16	DS-SU	560
4	20	480Y/277	10	-	-	S204UP-C20	DS-SU	560
4	25	480Y/277	10	-	-	S204UP-C25	DS-SU	560

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S201UP-K15



S201UP-K According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.2	277	10	-	-	S201UP-K0.2	DS-SU	140
1	0.3	277	10	-	-	S201UP-K0.3	DS-SU	140
1	0.5	277	10	-	-	S201UP-K0.5	DS-SU	140
1	0.75	277	10	-	-	S201UP-K0.75	DS-SU	140
1	1	277	10	-	-	S201UP-K1	DS-SU	140
1	1.6	277	10	-	-	S201UP-K1.6	DS-SU	140
1	2	277	10	-	-	S201UP-K2	DS-SU	140
1	3	277	10	-	-	S201UP-K3	DS-SU	140
1	4	277	10	-	-	S201UP-K4	DS-SU	140
1	5	277	10	-	-	S201UP-K5	DS-SU	140
1	6	277	10	-	-	S201UP-K6	DS-SU	140
1	8	277	10	-	-	S201UP-K8	DS-SU	140
1	10	277	10	-	-	S201UP-K10	DS-SU	140
1	13	277	10	-	-	S201UP-K13	DS-SU	140
1	15	277	10	-	-	S201UP-K15	DS-SU	140
1	16	277	10	-	-	S201UP-K16	DS-SU	140
1	20	277	10	-	-	S201UP-K20	DS-SU	140
1	25	277	10	-	-	S201UP-K25	DS-SU	140



S202UP-K15



S202UP-K According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.2	480Y/277	10	-	-	S202UP-K0.2	DS-SU	280
2	0.3	480Y/277	10	-	-	S202UP-K0.3	DS-SU	280
2	0.5	480Y/277	10	-	-	S202UP-K0.5	DS-SU	280
2	0.75	480Y/277	10	-	-	S202UP-K0.75	DS-SU	280
2	1	480Y/277	10	-	-	S202UP-K1	DS-SU	280
2	1.6	480Y/277	10	-	-	S202UP-K1.6	DS-SU	280
2	2	480Y/277	10	-	-	S202UP-K2	DS-SU	280
2	3	480Y/277	10	-	-	S202UP-K3	DS-SU	280
2	4	480Y/277	10	-	-	S202UP-K4	DS-SU	280
2	5	480Y/277	10	-	-	S202UP-K5	DS-SU	280
2	6	480Y/277	10	-	-	S202UP-K6	DS-SU	280
2	8	480Y/277	10	-	-	S202UP-K8	DS-SU	280
2	10	480Y/277	10	-	-	S202UP-K10	DS-SU	280
2	13	480Y/277	10	-	-	S202UP-K13	DS-SU	280
2	15	480Y/277	10	-	-	S202UP-K15	DS-SU	280
2	16	480Y/277	10	-	-	S202UP-K16	DS-SU	280
2	20	480Y/277	10	-	-	S202UP-K20	DS-SU	280
2	25	480Y/277	10	-	-	S202UP-K25	DS-SU	280

Miniature circuit breakers

System Pro M Compact

K type trip curve



S203UP-K15



S204UP-K15



S203UP-K According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.2	480Y/277	10	-	-	S203UP-K0.2	DS-SU	420
3	0.3	480Y/277	10	-	-	S203UP-K0.3	DS-SU	420
3	0.5	480Y/277	10	-	-	S203UP-K0.5	DS-SU	420
3	0.75	480Y/277	10	-	-	S203UP-K0.75	DS-SU	420
3	1	480Y/277	10	-	-	S203UP-K1	DS-SU	420
3	1.6	480Y/277	10	-	-	S203UP-K1.6	DS-SU	420
3	2	480Y/277	10	-	-	S203UP-K2	DS-SU	420
3	3	480Y/277	10	-	-	S203UP-K3	DS-SU	420
3	4	480Y/277	10	-	-	S203UP-K4	DS-SU	420
3	5	480Y/277	10	-	-	S203UP-K5	DS-SU	420
3	6	480Y/277	10	-	-	S203UP-K6	DS-SU	420
3	8	480Y/277	10	-	-	S203UP-K8	DS-SU	420
3	10	480Y/277	10	-	-	S203UP-K10	DS-SU	420
3	13	480Y/277	10	-	-	S203UP-K13	DS-SU	420
3	15	480Y/277	10	-	-	S203UP-K15	DS-SU	420
3	16	480Y/277	10	-	-	S203UP-K16	DS-SU	420
3	20	480Y/277	10	-	-	S203UP-K20	DS-SU	420
3	25	480Y/277	10	-	-	S203UP-K25	DS-SU	420

S204UP-K According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.2	480Y/277	10	-	-	S204UP-K0.2	DS-SU	560
4	0.3	480Y/277	10	-	-	S204UP-K0.3	DS-SU	560
4	0.5	480Y/277	10	-	-	S204UP-K0.5	DS-SU	560
4	0.75	480Y/277	10	-	-	S204UP-K0.75	DS-SU	560
4	1	480Y/277	10	-	-	S204UP-K1	DS-SU	560
4	1.6	480Y/277	10	-	-	S204UP-K1.6	DS-SU	560
4	2	480Y/277	10	-	-	S204UP-K2	DS-SU	560
4	3	480Y/277	10	-	-	S204UP-K3	DS-SU	560
4	4	480Y/277	10	-	-	S204UP-K4	DS-SU	560
4	5	480Y/277	10	-	-	S204UP-K5	DS-SU	560
4	6	480Y/277	10	-	-	S204UP-K6	DS-SU	560
4	8	480Y/277	10	-	-	S204UP-K8	DS-SU	560
4	10	480Y/277	10	-	-	S204UP-K10	DS-SU	560
4	13	480Y/277	10	-	-	S204UP-K13	DS-SU	560
4	15	480Y/277	10	-	-	S204UP-K15	DS-SU	560
4	16	480Y/277	10	-	-	S204UP-K16	DS-SU	560
4	20	480Y/277	10	-	-	S204UP-K20	DS-SU	560
4	25	480Y/277	10	-	-	S204UP-K25	DS-SU	560

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S201UP-Z10



S201UP-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	10	-	-	S201UP-Z0.5	DS-SU	140
1	1	277	10	-	-	S201UP-Z1	DS-SU	140
1	1.6	277	10	-	-	S201UP-Z1.6	DS-SU	140
1	2	277	10	-	-	S201UP-Z2	DS-SU	140
1	3	277	10	-	-	S201UP-Z3	DS-SU	140
1	4	277	10	-	-	S201UP-Z4	DS-SU	140
1	5	277	10	-	-	S201UP-Z5	DS-SU	140
1	6	277	10	-	-	S201UP-Z6	DS-SU	140
1	8	277	10	-	-	S201UP-Z8	DS-SU	140
1	10	277	10	-	-	S201UP-Z10	DS-SU	140
1	13	277	10	-	-	S201UP-Z13	DS-SU	140
1	15	277	10	-	-	S201UP-Z15	DS-SU	140
1	16	277	10	-	-	S201UP-Z16	DS-SU	140
1	20	277	10	-	-	S201UP-Z20	DS-SU	140
1	25	277	10	-	-	S201UP-Z25	DS-SU	140



S202UP-Z10



S202UP-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	10	-	-	S202UP-Z0.5	DS-SU	280
2	1	480Y/277	10	-	-	S202UP-Z1	DS-SU	280
2	1.6	480Y/277	10	-	-	S202UP-Z1.6	DS-SU	280
2	2	480Y/277	10	-	-	S202UP-Z2	DS-SU	280
2	3	480Y/277	10	-	-	S202UP-Z3	DS-SU	280
2	4	480Y/277	10	-	-	S202UP-Z4	DS-SU	280
2	5	480Y/277	10	-	-	S202UP-Z5	DS-SU	280
2	6	480Y/277	10	-	-	S202UP-Z6	DS-SU	280
2	8	480Y/277	10	-	-	S202UP-Z8	DS-SU	280
2	10	480Y/277	10	-	-	S202UP-Z10	DS-SU	280
2	13	480Y/277	10	-	-	S202UP-Z13	DS-SU	280
2	15	480Y/277	10	-	-	S202UP-Z15	DS-SU	280
2	16	480Y/277	10	-	-	S202UP-Z16	DS-SU	280
2	20	480Y/277	10	-	-	S202UP-Z20	DS-SU	280
2	25	480Y/277	10	-	-	S202UP-Z25	DS-SU	280

Miniature circuit breakers

System Pro M Compact

Z type trip curve



S203UP-Z10



S204UP-Z10



S203UP-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	10	-	-	S203UP-Z0.5	DS-SU	420
3	1	480Y/277	10	-	-	S203UP-Z1	DS-SU	420
3	1.6	480Y/277	10	-	-	S203UP-Z1.6	DS-SU	420
3	2	480Y/277	10	-	-	S203UP-Z2	DS-SU	420
3	3	480Y/277	10	-	-	S203UP-Z3	DS-SU	420
3	4	480Y/277	10	-	-	S203UP-Z4	DS-SU	420
3	5	480Y/277	10	-	-	S203UP-Z5	DS-SU	420
3	6	480Y/277	10	-	-	S203UP-Z6	DS-SU	420
3	8	480Y/277	10	-	-	S203UP-Z8	DS-SU	420
3	10	480Y/277	10	-	-	S203UP-Z10	DS-SU	420
3	13	480Y/277	10	-	-	S203UP-Z13	DS-SU	420
3	15	480Y/277	10	-	-	S203UP-Z15	DS-SU	420
3	16	480Y/277	10	-	-	S203UP-Z16	DS-SU	420
3	20	480Y/277	10	-	-	S203UP-Z20	DS-SU	420
3	25	480Y/277	10	-	-	S203UP-Z25	DS-SU	420

S204UP-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.5	480Y/277	10	-	-	S204UP-Z0.5	DS-SU	560
4	1	480Y/277	10	-	-	S204UP-Z1	DS-SU	560
4	1.6	480Y/277	10	-	-	S204UP-Z1.6	DS-SU	560
4	2	480Y/277	10	-	-	S204UP-Z2	DS-SU	560
4	3	480Y/277	10	-	-	S204UP-Z3	DS-SU	560
4	4	480Y/277	10	-	-	S204UP-Z4	DS-SU	560
4	5	480Y/277	10	-	-	S204UP-Z5	DS-SU	560
4	6	480Y/277	10	-	-	S204UP-Z6	DS-SU	560
4	8	480Y/277	10	-	-	S204UP-Z8	DS-SU	560
4	10	480Y/277	10	-	-	S204UP-Z10	DS-SU	560
4	13	480Y/277	10	-	-	S204UP-Z13	DS-SU	560
4	15	480Y/277	10	-	-	S204UP-Z15	DS-SU	560
4	16	480Y/277	10	-	-	S204UP-Z16	DS-SU	560
4	20	480Y/277	10	-	-	S204UP-Z20	DS-SU	560
4	25	480Y/277	10	-	-	S204UP-Z25	DS-SU	560

Miniature circuit breakers

System Pro M Compact

General electrical data

Series		S200UDC
Standards and approvals		UL489, CSA C22.2 No. 5
Poles		1P, 2P
Tripping characteristics		K, Z
Rated current I_n	[A]	1...63A
Rated voltage U_n IEC/EN 60898-1	[V]	-
Rated voltage U_n IEC/EN 60947-2	[V]	-
Rated voltage UL/CSA	[V]	1P: 60VDC, 2P: 125VDC
Insulation voltage U_i IEC/EN	[V]	-
Max. operating voltage U_{bmax} IEC/EN	[V]	-
Min. operating voltage	[V]	12VDC
Rated Frequency	[Hz]	DC
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA]	-
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA]	-
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA]	-
Rated interrupting capacity UL489 / CSA C22.2 No.5	[kA]	14 kA
Energy limiting class IEC/EN 60898-1		-
Overvoltage category IEC/EN		-
Pollution degree IEC/EN 60898-1		-
Rated impulse withstand voltage U_{imp} IEC/EN	[kV]	-
Dielectric test voltage	[kV]	-

General mechanical and installation data

Series		S200UDC
Housing		Insulation group I, RAL 7035
Toggle		Insulation group II, black, sealable
Contact position indication		Marking on toggle I-ON / 0-OFF, real CPI (red-ON / green-OFF)
Protection degree EN 60529		IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops]	$I_n < 32A$: 20,000; $I_n > 32A$: 6,000 ops
Mechanical life	[ops]	20,000
Shock resistance IEC/EN 60068-2-27		30g - 3 shocks - 11 ms
Vibration resistance IEC/EN 60068-2-6		5g - 20 cycles at 5...150...5 Hz with load $0.8 \times I_n$
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH]	28 cycles with 55°C / 90-96 % and 25°C / 100 %
Ambient temperature	[°C]	-25...+55°C
Storage temperature	[°C]	-40...+70°C
Reference temperature for tripping characteristics UL/CSA	[°C]	K, Z: 25°C
Terminal		Failsafe bi-directional cylinder-lift terminal
Cross section of conductors (top / bottom)	[mm²]	25 mm²
	[AWG]	18-4 AWG
Cross section of busbars (top / bottom)	[mm²]	10 mm²
	[AWG]	18-8 AWG
Torque	[Nm]	2.8 Nm
	[in-lbs]	25 in-lbs
Screwdriver		No. 2 pozidrive
Mounting		On 35mm Din rail
Supply		Follow polarity of device
Mounting dimensions DIN 43880		-
Pole dimensions (H x D x W)	[mm]	92 x 71 x 17.5
Pole weight	[g]	140 g
Auxiliary contact combination		YES
Signal contact / auxiliary contact combination		YES
Shunt trip combination		YES
Undervoltage release combination		NO

Miniature circuit breakers

System Pro M Compact

K type trip curve



S201UDC-K10



S202UDC-K10



S201UDC-K According to CSA C22.2 No. 5 / UL489 (DC rated branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	1	-	-	60	14	S201UDC-K1	DS-SU	140
1	1.6	-	-	60	14	S201UDC-K1.6	DS-SU	140
1	2	-	-	60	14	S201UDC-K2	DS-SU	140
1	3	-	-	60	14	S201UDC-K3	DS-SU	140
1	4	-	-	60	14	S201UDC-K4	DS-SU	140
1	5	-	-	60	14	S201UDC-K5	DS-SU	140
1	6	-	-	60	14	S201UDC-K6	DS-SU	140
1	8	-	-	60	14	S201UDC-K8	DS-SU	140
1	10	-	-	60	14	S201UDC-K10	DS-SU	140
1	13	-	-	60	14	S201UDC-K13	DS-SU	140
1	15	-	-	60	14	S201UDC-K15	DS-SU	140
1	16	-	-	60	14	S201UDC-K16	DS-SU	140
1	20	-	-	60	14	S201UDC-K20	DS-SU	140
1	25	-	-	60	14	S201UDC-K25	DS-SU	140
1	30	-	-	60	14	S201UDC-K30	DS-SU	140
1	32	-	-	60	14	S201UDC-K32	DS-SU	140
1	40	-	-	60	14	S201UDC-K40	DS-SU	140
1	50	-	-	60	14	S201UDC-K50	DS-SU	140
1	60	-	-	60	14	S201UDC-K60	DS-SU	140
1	63	-	-	60	14	S201UDC-K63	DS-SU	140

S202UDC-K According to CSA C22.2 No. 5 / UL489 (DC rated branch protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	1	-	-	125	14	S202UDC-K1	DS-SU	280
2	1.6	-	-	125	14	S202UDC-K1.6	DS-SU	280
2	2	-	-	125	14	S202UDC-K2	DS-SU	280
2	3	-	-	125	14	S202UDC-K3	DS-SU	280
2	4	-	-	125	14	S202UDC-K4	DS-SU	280
2	5	-	-	125	14	S202UDC-K5	DS-SU	280
2	6	-	-	125	14	S202UDC-K6	DS-SU	280
2	8	-	-	125	14	S202UDC-K8	DS-SU	280
2	10	-	-	125	14	S202UDC-K10	DS-SU	280
2	13	-	-	125	14	S202UDC-K13	DS-SU	280
2	15	-	-	125	14	S202UDC-K15	DS-SU	280
2	16	-	-	125	14	S202UDC-K16	DS-SU	280
2	20	-	-	125	14	S202UDC-K20	DS-SU	280
2	25	-	-	125	14	S202UDC-K25	DS-SU	280
2	30	-	-	125	14	S202UDC-K30	DS-SU	280
2	32	-	-	125	14	S202UDC-K32	DS-SU	280
2	40	-	-	125	14	S202UDC-K40	DS-SU	280
2	50	-	-	125	14	S202UDC-K50	DS-SU	280
2	60	-	-	125	14	S202UDC-K60	DS-SU	280
2	63	-	-	125	14	S202UDC-K63	DS-SU	280

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S201UDC-Z10



S201UDC-Z According to CSA C22.2 No. 5 / UL489 (DC rated branch protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	1	-	-	60	14	S201UDC-Z1	DS-SU	140
1	1.6	-	-	60	14	S201UDC-Z1.6	DS-SU	140
1	2	-	-	60	14	S201UDC-Z2	DS-SU	140
1	3	-	-	60	14	S201UDC-Z3	DS-SU	140
1	4	-	-	60	14	S201UDC-Z4	DS-SU	140
1	5	-	-	60	14	S201UDC-Z5	DS-SU	140
1	6	-	-	60	14	S201UDC-Z6	DS-SU	140
1	8	-	-	60	14	S201UDC-Z8	DS-SU	140
1	10	-	-	60	14	S201UDC-Z10	DS-SU	140
1	13	-	-	60	14	S201UDC-Z13	DS-SU	140
1	15	-	-	60	14	S201UDC-Z15	DS-SU	140
1	16	-	-	60	14	S201UDC-Z16	DS-SU	140
1	20	-	-	60	14	S201UDC-Z20	DS-SU	140
1	25	-	-	60	14	S201UDC-Z25	DS-SU	140
1	30	-	-	60	14	S201UDC-Z30	DS-SU	140
1	32	-	-	60	14	S201UDC-Z32	DS-SU	140
1	40	-	-	60	14	S201UDC-Z40	DS-SU	140
1	50	-	-	60	14	S201UDC-Z50	DS-SU	140
1	60	-	-	60	14	S201UDC-Z60	DS-SU	140
1	63	-	-	60	14	S201UDC-Z63	DS-SU	140



S202UDC-Z10



S202UDC-Z According to CSA C22.2 No. 5 / UL489 (DC rated branch protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	1	-	-	125	14	S202UDC-Z1	DS-SU	280
2	1.6	-	-	125	14	S202UDC-Z1.6	DS-SU	280
2	2	-	-	125	14	S202UDC-Z2	DS-SU	280
2	3	-	-	125	14	S202UDC-Z3	DS-SU	280
2	4	-	-	125	14	S202UDC-Z4	DS-SU	280
2	5	-	-	125	14	S202UDC-Z5	DS-SU	280
2	6	-	-	125	14	S202UDC-Z6	DS-SU	280
2	8	-	-	125	14	S202UDC-Z8	DS-SU	280
2	10	-	-	125	14	S202UDC-Z10	DS-SU	280
2	13	-	-	125	14	S202UDC-Z13	DS-SU	280
2	15	-	-	125	14	S202UDC-Z15	DS-SU	280
2	16	-	-	125	14	S202UDC-Z16	DS-SU	280
2	20	-	-	125	14	S202UDC-Z20	DS-SU	280
2	25	-	-	125	14	S202UDC-Z25	DS-SU	280
2	30	-	-	125	14	S202UDC-Z30	DS-SU	280
2	32	-	-	125	14	S202UDC-Z32	DS-SU	280
2	40	-	-	125	14	S202UDC-Z40	DS-SU	280
2	50	-	-	125	14	S202UDC-Z50	DS-SU	280
2	60	-	-	125	14	S202UDC-Z60	DS-SU	280
2	63	-	-	125	14	S202UDC-Z63	DS-SU	280

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S220-K
Standards and approvals	IEC/EN 60898-1, IEC/EN 60947-2, CSA C22.2 No. 235, UL1077
Poles	1P, 2P, 3P
Tripping characteristics	K
Rated current I_n	[A] 0.2 ... 63A
Rated voltage U_n IEC/EN 60898-1	[V] 1P: 400/690VAC, 2-3P: 690VAC
Rated voltage U_n IEC/EN 60947-2	[V] 1P: 400/690VAC, 2-3P: 690VAC
Rated voltage UL/CSA	[V] 1P: 347VAC, 2-3P: 600Y/347VAC
Insulation voltage U_i IEC/EN	[V] -
Max. operating voltage U_{dmax} IEC/EN	[V] 690VAC
Min. operating voltage	[V] 12VAC
Rated Frequency	[Hz] 50/60Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA] -
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] -
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 3kA
Rated interrupting capacity UL1077 / CSA C22.2 No.235	[kA] 3kA
Energy limiting class IEC/EN 60898-1	-
Overvoltage category IEC/EN	III
Pollution degree IEC/EN 60898-1 / 60947-2	2 / 3
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] -
Dielectric test voltage	[kV] -
General mechanical and installation data	
Series	S220-K
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Marking on toggle I-ON / 0-OFF, real CPI (red-ON / green-OFF)
Protection degree EN 60529	IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops] -
Mechanical life	[ops] 20,000
Shock resistance IEC/EN 60068-2-27	10g - 20 shocks - 13 ms
Vibration resistance IEC/EN 60068-2-6	5g - 20 cycles at 5...150...5 Hz with load $0.8 \times I_n$
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH] -
Ambient temperature	[°C] -25...+55°C
Storage temperature	[°C] -40...+70°C
Reference temperature for tripping characteristics UL/CSA	[°C] K: 20°C
Terminal	Cage (shock protected)
Cross section of conductors (top / bottom)	[mm²] 25 mm²
	[AWG] 18-4 AWG
Cross section of busbars (top / bottom)	[mm²] 10 mm²
	[AWG] 18-8 AWG
Torque	[Nm] 2.8 Nm
	[in-lbs] 25 in-lbs
Screwdriver	No. 2 pozidrive
Mounting	On 35mm Din rail
Supply	Optional
Mounting dimensions DIN 43880	-
Pole dimensions (H x D x W)	[mm] 90 x 69 x 17.5
Pole weight	[g] 160 g
Auxiliary contact combination	YES
Signal contact / auxiliary contact combination	NO
Shunt trip combination	NO
Undervoltage release combination	NO

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S221-K10



S221-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.2	347	3	-	-	S221-K0.2	DS-CB	180
1	0.3	347	3	-	-	S221-K0.3	DS-CB	180
1	0.5	347	3	-	-	S221-K0.5	DS-CB	180
1	0.75	347	3	-	-	S221-K0.75	DS-CB	180
1	1	347	3	-	-	S221-K1	DS-CB	180
1	1.6	347	3	-	-	S221-K1.6	DS-CB	180
1	2	347	3	-	-	S221-K2	DS-CB	180
1	3	347	3	-	-	S221-K3	DS-CB	180
1	4	347	3	-	-	S221-K4	DS-CB	180
1	6	347	3	-	-	S221-K6	DS-CB	180
1	8	347	3	-	-	S221-K8	DS-CB	180
1	10	347	3	-	-	S221-K10	DS-CB	180
1	16	347	3	-	-	S221-K16	DS-CB	180
1	20	347	3	-	-	S221-K20	DS-CB	180
1	25	347	3	-	-	S221-K25	DS-CB	180
1	32	347	3	-	-	S221-K32	DS-CB	180
1	40	347	3	-	-	S221-K40	DS-CB	180
1	50	347	3	-	-	S221-K50	DS-CB	180
1	63	347	3	-	-	S221-K63	DS-CB	180



S222-K10



S222-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.2	600Y/347	3	-	-	S222-K0.2	DS-CB	360
2	0.3	600Y/347	3	-	-	S222-K0.3	DS-CB	360
2	0.5	600Y/347	3	-	-	S222-K0.5	DS-CB	360
2	0.75	600Y/347	3	-	-	S222-K0.75	DS-CB	360
2	1	600Y/347	3	-	-	S222-K1	DS-CB	360
2	1.6	600Y/347	3	-	-	S222-K1.6	DS-CB	360
2	2	600Y/347	3	-	-	S222-K2	DS-CB	360
2	3	600Y/347	3	-	-	S222-K3	DS-CB	360
2	4	600Y/347	3	-	-	S222-K4	DS-CB	360
2	6	600Y/347	3	-	-	S222-K6	DS-CB	360
2	8	600Y/347	3	-	-	S222-K8	DS-CB	360
2	10	600Y/347	3	-	-	S222-K10	DS-CB	360
2	16	600Y/347	3	-	-	S222-K16	DS-CB	360
2	20	600Y/347	3	-	-	S222-K20	DS-CB	360
2	25	600Y/347	3	-	-	S222-K25	DS-CB	360
2	32	600Y/347	3	-	-	S222-K32	DS-CB	360
2	40	600Y/347	3	-	-	S222-K40	DS-CB	360
2	50	600Y/347	3	-	-	S222-K50	DS-CB	360
2	63	600Y/347	3	-	-	S222-K63	DS-CB	360

Miniature circuit breakers

System Pro M Compact

K type trip curve



S223-K10



S223-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.2	600Y/347	3	-	-	S223-K0.2	DS-CB	540
3	0.3	600Y/347	3	-	-	S223-K0.3	DS-CB	540
3	0.5	600Y/347	3	-	-	S223-K0.5	DS-CB	540
3	0.75	600Y/347	3	-	-	S223-K0.75	DS-CB	540
3	1	600Y/347	3	-	-	S223-K1	DS-CB	540
3	1.6	600Y/347	3	-	-	S223-K1.6	DS-CB	540
3	2	600Y/347	3	-	-	S223-K2	DS-CB	540
3	3	600Y/347	3	-	-	S223-K3	DS-CB	540
3	4	600Y/347	3	-	-	S223-K4	DS-CB	540
3	6	600Y/347	3	-	-	S223-K6	DS-CB	540
3	8	600Y/347	3	-	-	S223-K8	DS-CB	540
3	10	600Y/347	3	-	-	S223-K10	DS-CB	540
3	16	600Y/347	3	-	-	S223-K16	DS-CB	540
3	20	600Y/347	3	-	-	S223-K20	DS-CB	540
3	25	600Y/347	3	-	-	S223-K25	DS-CB	540
3	32	600Y/347	3	-	-	S223-K32	DS-CB	540
3	40	600Y/347	3	-	-	S223-K40	DS-CB	540
3	50	600Y/347	3	-	-	S223-K50	DS-CB	540
3	63	600Y/347	3	-	-	S223-K63	DS-CB	540

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S280-K(W)
Standards and approvals	IEC/EN 60898-1, IEC/EN 60947-2, CSA C22.2 No. 235, UL1077
Poles	1P, 2P, 3P
Tripping characteristics	K
Rated current I_n	[A] 0.2 ... 63A
Rated voltage U_n IEC/EN 60898-1	[V] 1P: 230VAC, 2-3P: 400VAC
Rated voltage U_n IEC/EN 60947-2	[V] 1P: 230VAC, 2-3P: 230/400VAC
Rated voltage UL/CSA	[V] 1P: 277VAC, 2-3P: 480Y/277VAC
Insulation voltage U_i IEC/EN	[V] 250VAC (phase to ground), 500VAC (phase to phase)
Max. operating voltage U_{bmax} IEC/EN	[V] 1P: 253VAC, 2-3P: 440VAC
Min. operating voltage	[V] 12VAC
Rated Frequency	[Hz] 50/60Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA] 6kA
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 6kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 6kA
Rated interrupting capacity UL1077 / CSA C22.2 No.235	[kA] Up to 40A, 6kA
Energy limiting class IEC/EN 60898-1	-
Overvoltage category IEC/EN	III
Pollution degree IEC/EN 60898-1 / 60947-2	2 / 3
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] 4kV (test voltage 6.2kV at sea level, 5kV at 2000m)
Dielectric test voltage	[kV] 2kV (50/60 Hz, 1min)

General mechanical and installation data	
Series	S280-K(W)
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Marking on toggle I-ON / 0-OFF, real CPI (red-ON / green-OFF)
Protection degree EN 60529	IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops] 4,000
Mechanical life	[ops] 10,000
Shock resistance IEC/EN 60068-2-27	30g - 3 shocks - 11 ms
Vibration resistance IEC/EN 60068-2-6	5g - 20 cycles at 5...150...5 Hz with load $0.8 \times I_n$
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH] 28 cycles with 55°C / 90-96% and 25°C / 95-100%
Ambient temperature	[°C] -25...+55°C
Storage temperature	[°C] -40...+70°C
Reference temperature for tripping characteristics UL/CSA	[°C] K: 20°C
Terminal	Ring tongue terminal
Cross section of conductors (top / bottom)	[mm²] 25 mm² [AWG] 18-4 AWG
Cross section of busbars (top / bottom)	[mm²] 10 mm² [AWG] 18-8 AWG
Torque	[Nm] [in-lbs] -
Screwdriver	-
Mounting	On 35mm Din rail
Supply	Optional
Mounting dimensions DIN 43880	1
Pole dimensions (H x D x W)	[mm] 90 x 69 x 17.5
Pole weight	[g] 125 g
Auxiliary contact combination	YES
Signal contact / auxiliary contact combination	YES
Shunt trip combination	YES
Undervoltage release combination	YES

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S280UC-K
Standards and approvals	IEC/EN 60898-1, IEC/EN 60947-2, CSA C22.2 No. 235, UL1077
Poles	1P, 2P, 3P
Tripping characteristics	K,Z
Rated current I_n	[A] K: 0.2 ... 63A, Z: 0.5 ... 63A
Rated voltage U_n IEC/EN 60898-1	[V] 1P: 220VDC/230VAC, 2-3P: 400VDC/400VAC
Rated voltage U_n IEC/EN 60947-2	[V] 1P: 220VDC, 2-3P: 440VDC
Rated voltage UL/CSA	[V] 1P: 250VDC/277VAC, 2-3P: 500VDC / 480Y/277VAC
Insulation voltage U_i IEC/EN	[V] 250VAC (phase to ground), 500VAC (phase to phase)
Max. operating voltage U_{dmax} IEC/EN	[V] 1P: 242VDC/253VAC, 2-3P: 484VDC/440VAC
Min. operating voltage	[V] 12VAC, 12VDC
Rated Frequency	[Hz] 50/60Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA] <= 40A: 6kA, >40A: 4.5kA
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] <= 40A: 6kA, >40A: 4.5kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] <= 40A: 6kA, >40A: 4.5kA
Rated interrupting capacity UL1077 / CSA C22.2 No.235	[kA] 6kA
Energy limiting class IEC/EN 60898-1	3
Overvoltage category IEC/EN	III
Pollution degree IEC/EN 60898-1 / 60947-2	2 / 3
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] 4kV (test voltage 6.2kV at sea level, 5kV at 2000m)
Dielectric test voltage	[kV] 2kV (50/60 Hz, 1min)
General mechanical and installation data	
Series	S280-K(W)
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Marking on toggle I-ON / 0-OFF, real CPI (red-ON / green-OFF)
Protection degree EN 60529	IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops] 10,000 in AC, 1,000 in DC
Mechanical life	[ops] 20,000
Shock resistance IEC/EN 60068-2-27	30g - 3 shocks - 11 ms
Vibration resistance IEC/EN 60068-2-6	5g - 20 cycles at 5...150...5 Hz with load $0.8 \times I_n$
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH] 28 cycles with 55°C / 90-96% and 25°C / 95-100%
Ambient temperature	[°C] -25...+55°C
Storage temperature	[°C] -40...+70°C
Reference temperature for tripping characteristics UL/CSA	[°C] K: 20°C
Terminal	Cage (shock protected)
Cross section of conductors (top / bottom)	[mm²] 25 mm²
	[AWG] 18-4 AWG
Cross section of busbars (top / bottom)	[mm²] 16 mm²
	[AWG] -
Torque	[Nm] 2.5 Nm
	[in-lbs] 17.5 in-lbs
Screwdriver	No. 2 Pozidrive
Mounting	On 35mm Din rail
Supply	Follow polarity of device
Mounting dimensions DIN 43880	1
Pole dimensions (H x D x W)	[mm] 90 x 69 x 17.5
Pole weight	[g] 125 g
Auxiliary contact combination	YES
Signal contact / auxiliary contact combination	YES
Shunt trip combination	YES
Undervoltage release combination	YES

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S281-K1W



S282-K1W



S281-K(W) According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.2	277	10	-	-	S281-K0.2W	DS-CB	125
1	0.3	277	10	-	-	S281-K0.3W	DS-CB	125
1	0.5	277	10	-	-	S281-K0.5W	DS-CB	125
1	0.75	277	10	-	-	S281-K0.75W	DS-CB	125
1	1	277	10	-	-	S281-K1W	DS-CB	125
1	1.6	277	10	-	-	S281-K1.6W	DS-CB	125
1	2	277	10	-	-	S281-K2W	DS-CB	125
1	3	277	10	-	-	S281-K3W	DS-CB	125
1	4	277	10	-	-	S281-K4W	DS-CB	125
1	6	277	10	-	-	S281-K6W	DS-CB	125
1	8	277	10	-	-	S281-K8W	DS-CB	125
1	10	277	10	-	-	S281-K10W	DS-CB	125
1	13	277	10	-	-	S281-K13W	DS-CB	125
1	16	277	10	-	-	S281-K16W	DS-CB	125
1	20	277	10	-	-	S281-K20W	DS-CB	125
1	25	277	10	-	-	S281-K25W	DS-CB	125
1	32	277	10	-	-	S281-K32W	DS-CB	125
1	40	277	10	-	-	S281-K40W	DS-CB	125
1	50	277	6	-	-	S281-K50W	DS-CB	125
1	63	277	6	-	-	S281-K63W	DS-CB	125

S282-K(W) According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.2	480Y/277	10	-	-	S282-K0.2W	DS-CB	250
2	0.3	480Y/277	10	-	-	S282-K0.3W	DS-CB	250
2	0.5	480Y/277	10	-	-	S282-K0.5W	DS-CB	250
2	0.75	480Y/277	10	-	-	S282-K0.75W	DS-CB	250
2	1	480Y/277	10	-	-	S282-K1W	DS-CB	250
2	1.6	480Y/277	10	-	-	S282-K1.6W	DS-CB	250
2	2	480Y/277	10	-	-	S282-K2W	DS-CB	250
2	3	480Y/277	10	-	-	S282-K3W	DS-CB	250
2	4	480Y/277	10	-	-	S282-K4W	DS-CB	250
2	6	480Y/277	10	-	-	S282-K6W	DS-CB	250
2	8	480Y/277	10	-	-	S282-K8W	DS-CB	250
2	10	480Y/277	10	-	-	S282-K10W	DS-CB	250
2	13	480Y/277	10	-	-	S282-K13W	DS-CB	250
2	16	480Y/277	10	-	-	S282-K16W	DS-CB	250
2	20	480Y/277	10	-	-	S282-K20W	DS-CB	250
2	25	480Y/277	10	-	-	S282-K25W	DS-CB	250
2	32	480Y/277	10	-	-	S282-K32W	DS-CB	250
2	40	480Y/277	10	-	-	S282-K40W	DS-CB	250
2	50	480Y/277	6	-	-	S282-K50W	DS-CB	250
2	63	480Y/277	6	-	-	S282-K63W	DS-CB	250

Miniature circuit breakers

System Pro M Compact

K type trip curve



S283-K1W



S283-K(W) According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.2	480Y/277	10	-	-	S283-K0.2W	DS-CB	375
3	0.3	480Y/277	10	-	-	S283-K0.3W	DS-CB	375
3	0.5	480Y/277	10	-	-	S283-K0.5W	DS-CB	375
3	0.75	480Y/277	10	-	-	S283-K0.75W	DS-CB	375
3	1	480Y/277	10	-	-	S283-K1W	DS-CB	375
3	1.6	480Y/277	10	-	-	S283-K1.6W	DS-CB	375
3	2	480Y/277	10	-	-	S283-K2W	DS-CB	375
3	3	480Y/277	10	-	-	S283-K3W	DS-CB	375
3	4	480Y/277	10	-	-	S283-K4W	DS-CB	375
3	6	480Y/277	10	-	-	S283-K6W	DS-CB	375
3	8	480Y/277	10	-	-	S283-K8W	DS-CB	375
3	10	480Y/277	10	-	-	S283-K10W	DS-CB	375
3	13	480Y/277	10	-	-	S283-K13W	DS-CB	375
3	16	480Y/277	10	-	-	S283-K16W	DS-CB	375
3	20	480Y/277	10	-	-	S283-K20W	DS-CB	375
3	25	480Y/277	10	-	-	S283-K25W	DS-CB	375
3	32	480Y/277	10	-	-	S283-K32W	DS-CB	375
3	40	480Y/277	10	-	-	S283-K40W	DS-CB	375
3	50	480Y/277	6	-	-	S283-K50W	DS-CB	375
3	63	480Y/277	6	-	-	S283-K63W	DS-CB	375

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S281UC-K6



S281UC-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.2	277	4.5	250	10	S281UC-K0.2	DS-CB	125
1	0.3	277	4.5	250	10	S281UC-K0.3	DS-CB	125
1	0.5	277	4.5	250	10	S281UC-K0.5	DS-CB	125
1	0.75	277	4.5	250	10	S281UC-K0.75	DS-CB	125
1	1	277	4.5	250	10	S281UC-K1	DS-CB	125
1	1.6	277	4.5	250	10	S281UC-K1.6	DS-CB	125
1	2	277	4.5	250	10	S281UC-K2	DS-CB	125
1	3	277	4.5	250	10	S281UC-K3	DS-CB	125
1	4	277	4.5	250	10	S281UC-K4	DS-CB	125
1	6	277	4.5	250	10	S281UC-K6	DS-CB	125
1	8	277	4.5	250	10	S281UC-K8	DS-CB	125
1	10	277	4.5	250	10	S281UC-K10	DS-CB	125
1	16	277	4.5	250	10	S281UC-K16	DS-CB	125
1	20	277	4.5	250	10	S281UC-K20	DS-CB	125
1	25	277	4.5	250	10	S281UC-K25	DS-CB	125
1	32	277	4.5	250	10	S281UC-K32	DS-CB	125
1	40	277	4.5	250	10	S281UC-K40	DS-CB	125
1	50	277	5	250	10	S281UC-K50	DS-CB	125
1	63	277	5	250	10	S281UC-K63	DS-CB	125



S282UC-K6



S282UC-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.2	480Y/277	4.5	500	10	S282UC-K0.2	DS-CB	250
2	0.3	480Y/277	4.5	500	10	S282UC-K0.3	DS-CB	250
2	0.5	480Y/277	4.5	500	10	S282UC-K0.5	DS-CB	250
2	0.75	480Y/277	4.5	500	10	S282UC-K0.75	DS-CB	250
2	1	480Y/277	4.5	500	10	S282UC-K1	DS-CB	250
2	1.6	480Y/277	4.5	500	10	S282UC-K1.6	DS-CB	250
2	2	480Y/277	4.5	500	10	S282UC-K2	DS-CB	250
2	3	480Y/277	4.5	500	10	S282UC-K3	DS-CB	250
2	4	480Y/277	4.5	500	10	S282UC-K4	DS-CB	250
2	6	480Y/277	4.5	500	10	S282UC-K6	DS-CB	250
2	8	480Y/277	4.5	500	10	S282UC-K8	DS-CB	250
2	10	480Y/277	4.5	500	10	S282UC-K10	DS-CB	250
2	16	480Y/277	4.5	500	10	S282UC-K16	DS-CB	250
2	20	480Y/277	4.5	500	10	S282UC-K20	DS-CB	250
2	25	480Y/277	4.5	500	10	S282UC-K25	DS-CB	250
2	32	480Y/277	4.5	500	10	S282UC-K32	DS-CB	250
2	40	480Y/277	4.5	500	10	S282UC-K40	DS-CB	250
2	50	480Y/277	5	500	10	S282UC-K50	DS-CB	250
2	63	480Y/277	5	500	10	S282UC-K63	DS-CB	250

Miniature circuit breakers

System Pro M Compact

K type trip curve



S283UC-K6



S283UC-K According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.2	480Y/277	4.5	500	10	S283UC-K0.2	DS-CB	375
3	0.3	480Y/277	4.5	500	10	S283UC-K0.3	DS-CB	375
3	0.5	480Y/277	4.5	500	10	S283UC-K0.5	DS-CB	375
3	0.75	480Y/277	4.5	500	10	S283UC-K0.75	DS-CB	375
3	1	480Y/277	4.5	500	10	S283UC-K1	DS-CB	375
3	1.6	480Y/277	4.5	500	10	S283UC-K1.6	DS-CB	375
3	2	480Y/277	4.5	500	10	S283UC-K2	DS-CB	375
3	3	480Y/277	4.5	500	10	S283UC-K3	DS-CB	375
3	4	480Y/277	4.5	500	10	S283UC-K4	DS-CB	375
3	6	480Y/277	4.5	500	10	S283UC-K6	DS-CB	375
3	8	480Y/277	4.5	500	10	S283UC-K8	DS-CB	375
3	10	480Y/277	4.5	500	10	S283UC-K10	DS-CB	375
3	16	480Y/277	4.5	500	10	S283UC-K16	DS-CB	375
3	20	480Y/277	4.5	500	10	S283UC-K20	DS-CB	375
3	25	480Y/277	4.5	500	10	S283UC-K25	DS-CB	375
3	32	480Y/277	4.5	500	10	S283UC-K32	DS-CB	375
3	40	480Y/277	4.5	500	10	S283UC-K40	DS-CB	375
3	50	480Y/277	5	500	10	S283UC-K50	DS-CB	375
3	63	480Y/277	5	500	10	S283UC-K63	DS-CB	375

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S281UC-Z6



S281UC-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.5	277	4.5	250	10	S281UC-Z0.5	DS-CB	125
1	1	277	4.5	250	10	S281UC-Z1	DS-CB	125
1	1.6	277	4.5	250	10	S281UC-Z1.6	DS-CB	125
1	2	277	4.5	250	10	S281UC-Z2	DS-CB	125
1	3	277	4.5	250	10	S281UC-Z3	DS-CB	125
1	4	277	4.5	250	10	S281UC-Z4	DS-CB	125
1	6	277	4.5	250	10	S281UC-Z6	DS-CB	125
1	8	277	4.5	250	10	S281UC-Z8	DS-CB	125
1	10	277	4.5	250	10	S281UC-Z10	DS-CB	125
1	16	277	4.5	250	10	S281UC-Z16	DS-CB	125
1	20	277	4.5	250	10	S281UC-Z20	DS-CB	125
1	25	277	4.5	250	10	S281UC-Z25	DS-CB	125
1	32	277	4.5	250	10	S281UC-Z32	DS-CB	125
1	40	277	4.5	250	10	S281UC-Z40	DS-CB	125
1	50	277	5	250	10	S281UC-Z50	DS-CB	125
1	63	277	5	250	10	S281UC-Z63	DS-CB	125



S282UC-Z6



S282UC-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.5	480Y/277	4.5	500	10	S282UC-Z0.5	DS-CB	250
2	1	480Y/277	4.5	500	10	S282UC-Z1	DS-CB	250
2	1.6	480Y/277	4.5	500	10	S282UC-Z1.6	DS-CB	250
2	2	480Y/277	4.5	500	10	S282UC-Z2	DS-CB	250
2	3	480Y/277	4.5	500	10	S282UC-Z3	DS-CB	250
2	4	480Y/277	4.5	500	10	S282UC-Z4	DS-CB	250
2	6	480Y/277	4.5	500	10	S282UC-Z6	DS-CB	250
2	8	480Y/277	4.5	500	10	S282UC-Z8	DS-CB	250
2	10	480Y/277	4.5	500	10	S282UC-Z10	DS-CB	250
2	16	480Y/277	4.5	500	10	S282UC-Z16	DS-CB	250
2	20	480Y/277	4.5	500	10	S282UC-Z20	DS-CB	250
2	25	480Y/277	4.5	500	10	S282UC-Z25	DS-CB	250
2	32	480Y/277	4.5	500	10	S282UC-Z32	DS-CB	250
2	40	480Y/277	4.5	500	10	S282UC-Z40	DS-CB	250
2	50	480Y/277	5	500	10	S282UC-Z50	DS-CB	250
2	63	480Y/277	5	500	10	S282UC-Z63	DS-CB	250

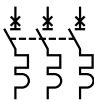
Miniature circuit breakers

System Pro M Compact

Z type trip curve



S283UC-Z6



S283UC-Z According to CSA C22.2 No. 235 / UL1077 (Supplementary protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.5	480Y/277	4.5	500	10	S283UC-Z0.5	DS-CB	375
3	1	480Y/277	4.5	500	10	S283UC-Z1	DS-CB	375
3	1.6	480Y/277	4.5	500	10	S283UC-Z1.6	DS-CB	375
3	2	480Y/277	4.5	500	10	S283UC-Z2	DS-CB	375
3	3	480Y/277	4.5	500	10	S283UC-Z3	DS-CB	375
3	4	480Y/277	4.5	500	10	S283UC-Z4	DS-CB	375
3	6	480Y/277	4.5	500	10	S283UC-Z6	DS-CB	375
3	8	480Y/277	4.5	500	10	S283UC-Z8	DS-CB	375
3	10	480Y/277	4.5	500	10	S283UC-Z10	DS-CB	375
3	16	480Y/277	4.5	500	10	S283UC-Z16	DS-CB	375
3	20	480Y/277	4.5	500	10	S283UC-Z20	DS-CB	375
3	25	480Y/277	4.5	500	10	S283UC-Z25	DS-CB	375
3	32	480Y/277	4.5	500	10	S283UC-Z32	DS-CB	375
3	40	480Y/277	4.5	500	10	S283UC-Z40	DS-CB	375
3	50	480Y/277	5	500	10	S283UC-Z50	DS-CB	375
3	63	480Y/277	5	500	10	S283UC-Z63	DS-CB	375

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S290
Standards and approvals	IEC/EN 60898-1, IEC/EN 60947-2, cURus
Poles	1P, 2P, 3P, 4P
Tripping characteristics	C
Rated current I_n	[A] 80...125A
Rated voltage U_n IEC/EN 60898-1	[V] 1P: 230VAC, 2-4P: 400VAC
Rated voltage U_n IEC/EN 60947-2	[V] 1P: 230VAC, 2-4P: 230/400VAC
Rated voltage UL/CSA	[V] 1P: 277VAC, 2-4P: 480Y/277VAC
Insulation voltage U_i IEC/EN	[V] 250VAC (phase to ground), 500VAC (phase to phase)
Max. operating voltage U_{bmax} IEC/EN	[V] 253/440VAC
Min. operating voltage	[V] 24VAC / 24VDC
Rated Frequency	[Hz] 50/60Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA] 10kA
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 20kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 10kA
Rated interrupting capacity UL1077 / CSA C22.2 No.235	[kA] 5kA
Energy limiting class IEC/EN 60898-1	-
Overvoltage category IEC/EN	III
Pollution degree IEC/EN 60898-1 / 60947-2	3
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] 4kV (test voltage 6.2kV at sea level, 5kV at 2000m)
Dielectric test voltage	[kV] 2kV (50/60 Hz, 1min)
General mechanical and installation data	
Series	S290
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Marking on toggle I-ON / 0-OFF, real CPI (red-ON / green-OFF)
Protection degree EN 60529	IP20 / IPXXB, IP40 in enclosure with cover
Electrical life	[ops] 10,000
Mechanical life	[ops] 20,000
Shock resistance IEC/EN 60068-2-27	15g - 11 shocks - 11 ms
Vibration resistance IEC/EN 60068-2-6	5g - 25...160Hz, 6g at 35Hz
Tropicalization (damp heat cyclic) IEC/EN 60068-2-30	[°C/RH] 28 cycles with 55°C / 90-96% and 25°C / 95-100%
Ambient temperature	[°C] -25...+45°C
Storage temperature	[°C] -40...+70°C
Reference temperature for tripping characteristics UL/CSA	[°C] C: 30°C
Terminal	Cage (shock protected)
Cross section of conductors (top / bottom)	[mm²] 50 mm² [AWG] 14-2 AWG
Cross section of busbars (top / bottom)	[mm²] - [AWG] -
Torque	[Nm] 2.5 ... 3.5 Nm [in-lbs] 22-31 in-lbs
Screwdriver	-
Mounting	On 35mm Din rail
Supply	Optional
Mounting dimensions DIN 43880	-
Pole dimensions (H x D x W)	[mm] 90 x 70 x 26.25
Pole weight	[g] 258 g
Auxiliary contact combination	YES
Signal contact / auxiliary contact combination	YES
Shunt trip combination	YES
Undervoltage release combination	YES

Miniature circuit breakers

System Pro M Compact

C type trip curve



S291-C100



S292-C100



S293-C100



S294-C100



S291-C According to UL (supplementary protectors cURus)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	80	277	5	-	-	S291-C80	DS-CB	258
1	100	277	5	-	-	S291-C100	DS-CB	258
1	125	277	5	-	-	S291-C125	DS-CB	258

S292-C According to UL (supplementary protectors cURus)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	80	480Y/277	5	-	-	S292-C80	DS-CB	516
2	100	480Y/277	5	-	-	S292-C100	DS-CB	516
2	125	480Y/277	5	-	-	S292-C125	DS-CB	516

S293-C According to UL (supplementary protectors cURus)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	80	480Y/277	5	-	-	S293-C80	DS-CB	774
3	100	480Y/277	5	-	-	S293-C100	DS-CB	774
3	125	480Y/277	5	-	-	S293-C125	DS-CB	774

S294-C According to UL (supplementary protectors cURus)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	80	480Y/277	5	-	-	S294-C80	DS-CB	1,032
4	100	480Y/277	5	-	-	S294-C100	DS-CB	1,032
4	125	480Y/277	5	-	-	S294-C125	DS-CB	1,032

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S800U
Standards and approvals	CSA C22.2 No. 5, UL489
Poles	1P, 2P, 3P, 4P
Tripping characteristics	K, Z
Rated current I_n	[A] 10...100A
Rated voltage U_n IEC/EN 60898-1	[V] -
Rated voltage U_n IEC/EN 60947-2	[V] -
Rated voltage UL/CSA	[V] 240VAC
Insulation voltage U_i IEC/EN	[V] -
Max. operating voltage U_{bmax} IEC/EN	[V] -
Min. operating voltage	[V] 12VAC
Rated Frequency	[Hz] 50/60Hz
Rated short circuit capacity I_{cn} IEC/EN 60898-1	[kA] -
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 1P: 30kA, 2-4P: 50kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 1P: 25kA, 2-4P: 40kA
Rated interrupting capacity UL489 / CSA C22.2 No. 5	[kA] 1P: 30kA, 2-4P: 50kA
General mechanical and installation data	
Series	S800U
Conductor type	Single conductor, copper only
Wire range 10...100A	8-1 AWG
Tightening torque	31 in-lbs (3.5 Nm)
Mounting position	Any
Permissible ambient temperature for operations	[°C] -25...+60
Type of protection	IP20
Contacts	Cadmium free

Miniature circuit breakers

System Pro M Compact

2

General electrical data		
Series	S800PV-S	S800PV-M
Standards and approvals	IEC/EN 60947-2	IEC/EN 60947-3
Poles	2P, 3P, 4P	2P, 3P, 4P
Tripping characteristics	PV-S	-
Rated current I_n	[A] 10...125A	32, 63, 125A
Rated voltage U_n	[V] 10...80A: 2P-800VDC, 3P-800VDC, 4P-1200VDC 100...125A: 2P-600VDC, 3P-1000VDC, 4P-1200VDC	2P: 800VDC, 3P: 1200VDC, 4P: 1200VDC
Insulation voltage U_i IEC/EN	[V] 1500	1500
Rated impulse withstand voltage U_{imp}	[kV] 8	8
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 5	-
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 5	-
Rated short time withstand current I_{cw} IEC/EN 60947-3	[kA] -	1.5
Rated short-circuit making capacity I_{cm} IEC/EN 60947-3	[kA] -	0.5
General mechanical and installation data		
Series	S800PV-S	S800PV-M
Mounting position	Any	Any
Disconnecter properties IEC 60947-2	YES	YES
Standards	IEC/EN 60947-2	IEC/EN 60947-3
Connection Cu (10...125A)	[mm ²] Strand: 1...50, cable: 1...70	Strand: 1...50, cable: 1...70
Tightening torque	[Nm] Min. 3, Max. 4	Min. 3, Max. 4
DC supply	Any	Any
Mounting on DIN top hat rail	EN 60715	EN 60715
Permissible ambient temperature for operations	[°C] -25...+60°C	-25...+60°C
Storage temperature	[°C] -40...+70°C	-40...+70°C
Type of protection	IP20	IP20
Resistance to vibration	IEC 60068-2-6	EN 61373 Cat. 1 / Class B
Utilization category	A	DC-21A
Pollution degree	2	2
Overvoltage category	III	III

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S801U-K100



S801U-K According to CSA C22.2 No.5 / UL489 (Branch protectors)									
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight	
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]	
1	10	240	30	-	-	S801U-K10	DS-CB	245	
1	15	240	30	-	-	S801U-K15	DS-CB	245	
1	20	240	30	-	-	S801U-K20	DS-CB	245	
1	25	240	30	-	-	S801U-K25	DS-CB	245	
1	30	240	30	-	-	S801U-K30	DS-CB	245	
1	40	240	30	-	-	S801U-K40	DS-CB	245	
1	50	240	30	-	-	S801U-K50	DS-CB	245	
1	60	240	30	-	-	S801U-K60	DS-CB	245	
1	70	240	30	-	-	S801U-K70	DS-CB	245	
1	80	240	30	-	-	S801U-K80	DS-CB	245	
1	90	240	30	-	-	S801U-K90	DS-CB	245	
1	100	240	30	-	-	S801U-K100	DS-CB	245	



S802U-K100



S802U-K According to CSA C22.2 No.5 / UL489 (Branch protectors)									
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight	
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]	
2	10	240	50	-	-	S802U-K10	DS-CB	490	
2	15	240	50	-	-	S802U-K15	DS-CB	490	
2	20	240	50	-	-	S802U-K20	DS-CB	490	
2	25	240	50	-	-	S802U-K25	DS-CB	490	
2	30	240	50	-	-	S802U-K30	DS-CB	490	
2	40	240	50	-	-	S802U-K40	DS-CB	490	
2	50	240	50	-	-	S802U-K50	DS-CB	490	
2	60	240	50	-	-	S802U-K60	DS-CB	490	
2	70	240	50	-	-	S802U-K70	DS-CB	490	
2	80	240	50	-	-	S802U-K80	DS-CB	490	
2	90	240	50	-	-	S802U-K90	DS-CB	490	
2	100	240	50	-	-	S802U-K100	DS-CB	490	

Miniature circuit breakers

System Pro M Compact

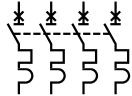
K type trip curve



S803U-K100



S804U-K100



S803U-K According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	10	240	50	-	-	S803U-K10	DS-CB	735
3	15	240	50	-	-	S803U-K15	DS-CB	735
3	20	240	50	-	-	S803U-K20	DS-CB	735
3	25	240	50	-	-	S803U-K25	DS-CB	735
3	30	240	50	-	-	S803U-K30	DS-CB	735
3	40	240	50	-	-	S803U-K40	DS-CB	735
3	50	240	50	-	-	S803U-K50	DS-CB	735
3	60	240	50	-	-	S803U-K60	DS-CB	735
3	70	240	50	-	-	S803U-K70	DS-CB	735
3	80	240	50	-	-	S803U-K80	DS-CB	735
3	90	240	50	-	-	S803U-K90	DS-CB	735
3	100	240	50	-	-	S803U-K100	DS-CB	735

S804U-K According to CSA C22.2 No.5 / UL489 (Branch protectors)

Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	10	240	50	-	-	S804U-K10	DS-CB	980
4	15	240	50	-	-	S804U-K15	DS-CB	980
4	20	240	50	-	-	S804U-K20	DS-CB	980
4	25	240	50	-	-	S804U-K25	DS-CB	980
4	30	240	50	-	-	S804U-K30	DS-CB	980
4	40	240	50	-	-	S804U-K40	DS-CB	980
4	50	240	50	-	-	S804U-K50	DS-CB	980
4	60	240	50	-	-	S804U-K60	DS-CB	980
4	70	240	50	-	-	S804U-K70	DS-CB	980
4	80	240	50	-	-	S804U-K80	DS-CB	980
4	90	240	50	-	-	S804U-K90	DS-CB	980
4	100	240	50	-	-	S804U-K100	DS-CB	980

Miniature circuit breakers

System Pro M Compact

Z type trip curve

2



S801U-Z100

S801U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)									
Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight	
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]	
1	10	240	30	-	-	S801U-Z10	DS-CB	245	
1	15	240	30	-	-	S801U-Z15	DS-CB	245	
1	20	240	30	-	-	S801U-Z20	DS-CB	245	
1	25	240	30	-	-	S801U-Z25	DS-CB	245	
1	30	240	30	-	-	S801U-Z30	DS-CB	245	
1	40	240	30	-	-	S801U-Z40	DS-CB	245	
1	50	240	30	-	-	S801U-Z50	DS-CB	245	
1	60	240	30	-	-	S801U-Z60	DS-CB	245	
1	70	240	30	-	-	S801U-Z70	DS-CB	245	
1	80	240	30	-	-	S801U-Z80	DS-CB	245	
1	90	240	30	-	-	S801U-Z90	DS-CB	245	
1	100	240	30	-	-	S801U-Z100	DS-CB	245	



S802U-Z100



S802U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)									
Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight	
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]	
2	10	240	50	-	-	S802U-Z10	DS-CB	490	
2	15	240	50	-	-	S802U-Z15	DS-CB	490	
2	20	240	50	-	-	S802U-Z20	DS-CB	490	
2	25	240	50	-	-	S802U-Z25	DS-CB	490	
2	30	240	50	-	-	S802U-Z30	DS-CB	490	
2	40	240	50	-	-	S802U-Z40	DS-CB	490	
2	50	240	50	-	-	S802U-Z50	DS-CB	490	
2	60	240	50	-	-	S802U-Z60	DS-CB	490	
2	70	240	50	-	-	S802U-Z70	DS-CB	490	
2	80	240	50	-	-	S802U-Z80	DS-CB	490	
2	90	240	50	-	-	S802U-Z90	DS-CB	490	
2	100	240	50	-	-	S802U-Z100	DS-CB	490	

Miniature circuit breakers

System Pro M Compact

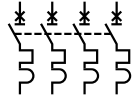
Z type trip curve



S803U-Z100



S804U-Z100



S803U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	10	240	50	-	-	S803U-Z10	DS-CB	735
3	15	240	50	-	-	S803U-Z15	DS-CB	735
3	20	240	50	-	-	S803U-Z20	DS-CB	735
3	25	240	50	-	-	S803U-Z25	DS-CB	735
3	30	240	50	-	-	S803U-Z30	DS-CB	735
3	40	240	50	-	-	S803U-Z40	DS-CB	735
3	50	240	50	-	-	S803U-Z50	DS-CB	735
3	60	240	50	-	-	S803U-Z60	DS-CB	735
3	70	240	50	-	-	S803U-Z70	DS-CB	735
3	80	240	50	-	-	S803U-Z80	DS-CB	735
3	90	240	50	-	-	S803U-Z90	DS-CB	735
3	100	240	50	-	-	S803U-Z100	DS-CB	735

S804U-Z According to CSA C22.2 No.5 / UL489 (Branch protectors)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	10	240	50	-	-	S804U-Z10	DS-CB	980
4	15	240	50	-	-	S804U-Z15	DS-CB	980
4	20	240	50	-	-	S804U-Z20	DS-CB	980
4	25	240	50	-	-	S804U-Z25	DS-CB	980
4	30	240	50	-	-	S804U-Z30	DS-CB	980
4	40	240	50	-	-	S804U-Z40	DS-CB	980
4	50	240	50	-	-	S804U-Z50	DS-CB	980
4	60	240	50	-	-	S804U-Z60	DS-CB	980
4	70	240	50	-	-	S804U-Z70	DS-CB	980
4	80	240	50	-	-	S804U-Z80	DS-CB	980
4	90	240	50	-	-	S804U-Z90	DS-CB	980
4	100	240	50	-	-	S804U-Z100	DS-CB	980

Miniature circuit breakers

System Pro M Compact

PV-S type trip curve

2



S802PV-S100

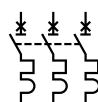


S802PV-S According to IEC/EN 60947-2

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	10	-	-	800	5	S802PV-S10	DS-CB	490
2	13	-	-	800	5	S802PV-S13	DS-CB	490
2	16	-	-	800	5	S802PV-S16	DS-CB	490
2	20	-	-	800	5	S802PV-S20	DS-CB	490
2	25	-	-	800	5	S802PV-S25	DS-CB	490
2	32	-	-	800	5	S802PV-S32	DS-CB	490
2	40	-	-	800	5	S802PV-S40	DS-CB	490
2	50	-	-	800	5	S802PV-S50	DS-CB	490
2	63	-	-	800	5	S802PV-S63	DS-CB	490
2	80	-	-	800	5	S802PV-S80	DS-CB	490
2	100	-	-	600	5	S802PV-S100	DS-CB	490
2	125	-	-	600	5	S802PV-S125	DS-CB	490



S803PV-S100



S803PV-S According to IEC/EN 60947-2

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	10	-	-	1200	5	S803PV-S10	DS-CB	735
3	13	-	-	1200	5	S803PV-S13	DS-CB	735
3	16	-	-	1200	5	S803PV-S16	DS-CB	735
3	20	-	-	1200	5	S803PV-S20	DS-CB	735
3	25	-	-	1200	5	S803PV-S25	DS-CB	735
3	32	-	-	1200	5	S803PV-S32	DS-CB	735
3	40	-	-	1200	5	S803PV-S40	DS-CB	735
3	50	-	-	1200	5	S803PV-S50	DS-CB	735
3	63	-	-	1200	5	S803PV-S63	DS-CB	735
3	80	-	-	1200	5	S803PV-S80	DS-CB	735
3	100	-	-	1000	5	S803PV-S100	DS-CB	735
3	125	-	-	1000	5	S803PV-S125	DS-CB	735



S804PV-S100



S804PV-S According to IEC/EN 60947-2

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	10	-	-	1200	5	S804PV-S10	DS-CB	980
4	13	-	-	1200	5	S804PV-S13	DS-CB	980
4	16	-	-	1200	5	S804PV-S16	DS-CB	980
4	20	-	-	1200	5	S804PV-S20	DS-CB	980
4	25	-	-	1200	5	S804PV-S25	DS-CB	980
4	32	-	-	1200	5	S804PV-S32	DS-CB	980
4	40	-	-	1200	5	S804PV-S40	DS-CB	980
4	50	-	-	1200	5	S804PV-S50	DS-CB	980
4	63	-	-	1200	5	S804PV-S63	DS-CB	980
4	80	-	-	1200	5	S804PV-S80	DS-CB	980
4	100	-	-	1200	5	S804PV-S100	DS-CB	980
4	125	-	-	1200	5	S804PV-S125	DS-CB	980

Miniature circuit breakers

System Pro M Compact

PV-M

type trip curve



S802PV-M32



S802PV-M According to IEC/EN 60947-3

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	32	-	-	800	1.5	S802PV-M32	DS-CB	430
2	63	-	-	600	1.5	S802PV-M63	DS-CB	430
2	125	-	-	600	1.5	S802PV-M125	DS-CB	430



S803PV-M32

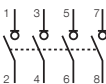


S803PV-M According to IEC/EN 60947-3

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	32	-	-	1200	1.5	S803PV-M32	DS-CB	650
3	63	-	-	1200	1.5	S803PV-M63	DS-CB	650
3	125	-	-	1200	1.5	S803PV-M125	DS-CB	650



S804PV-M32



S804PV-M According to IEC/EN 60947-3

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	32	-	-	1200	1.5	S804PV-M32	DS-CB	860
4	63	-	-	1200	1.5	S804PV-M63	DS-CB	860
4	125	-	-	1200	1.5	S804PV-M125	DS-CB	860

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S500-K
Standards and approvals	IEC/EN 60947-2, cURus
Poles	1P, 2P, 3P,
Tripping characteristics	K
Rated current I_n (adjustable)	[A] 0.1 ... 3 / 2.8 ... 11 / 10...45
Rated voltage U_n IEC/EN 60947-2	[V] 230/400; 250/440; 3x500; 400/690
Rated voltage UL/CSA	[V] 1P: 240VAC, 2-3P: 600VAC
Insulation voltage U_i IEC/EN	[V] 690VAC
Max. operating voltage U_{bmax} IEC/EN, UL/CSA	[V] 400/690VAC, 600Y/347VAC
Rated Frequency	[Hz] 16 2/3, 50/60Hz
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 0.1-3A: 100kA, 2.8-11A: 50kA, 10-45A: 30kA
Service short circuit capacity I_{cs} IEC/EN 60947-2	[kA] 0.1-3A: 100kA, 2.8-11A: 30kA, 10-45A: 25kA
Rated interrupting capacity UL1077 / CSA C22.2 No.235	[kA] 6kA
Thermomagnetic release characteristic	K: 8-14 x I_n
Energy limiting class IEC/EN 60898-1	-
Overvoltage category IEC/EN	-
Pollution degree IEC/EN 60898-1 / 60947-2	3
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] 6kV
Dielectric test voltage	[kV] 2kV (50/60 Hz, 1min)
General mechanical and installation data	
Series	S500-K
Toggle	Grey sealable in OFF-ON position
Protection degree EN 60529	Housing: IP4X, Terminals: IP2X
Tropicalization IEC/EN 60068-2	Humid heat
Ambient temperature	[°C] -25...+55°C
Reference temperature for tripping characteristics UL/CSA	[°C] K: 40°C
Terminal	Cage (shock protected)
Cross section of conductors (top / bottom)	[mm²] 50 mm²
	[AWG] 17-4 AWG
Torque	[Nm] 2.5 Nm
	[in-lbs] 22 in-lbs
Screwdriver	-
Mounting	On 35mm Din rail
Pole dimensions (H x D x W)	[mm] 91 x 92 x 25
Pole weight	[g] 250 g
Signal contact / auxiliary contact combination	YES
Shunt trip combination	YES
Undervoltage release combination	YES

Miniature circuit breakers

System Pro M Compact

2

General electrical data	
Series	S500UC-K
Standards and approvals	IEC/EN 60947-2, cURus
Poles	1P, 2P, 3P, 4P
Tripping characteristics	K
Rated current I_n (adjustable)	[A] 0.1 ... 3 / 2.8 ... 11 / 10...45
Rated voltage U_n IEC/EN 60947-2	[V] 1P: 250VDC, 2P: 500VDC, 3-4P: 750VDC
Rated voltage UL/CSA	[V] 1P: 250VDC, 2P: 500VDC, 3-4P: 600VDC
Insulation voltage U_i IEC/EN	[V] 1000VDC
Ultimate short circuit capacity I_{cu} IEC/EN 60947-2	[kA] 30kA
Rated interrupting capacity UL1077 / CSA C22.2 No.235	[kA] 30kA
Thermomagnetic release characteristic	K: 8-14 x I_n
Rated impulse withstand voltage U_{imp} IEC/EN	[kV] 6kV

General mechanical and installation data	
Series	S500UC-K
Toggle	Grey sealable in OFF-ON position
Protection degree	Housing: IP4X, Terminals: IP2X
Tropicalization IEC/EN 60068-2	Humid heat, DIN 50016
Ambient temperature	[°C] -25...+55°C
Reference temperature for tripping characteristics UL/CSA	[°C] K: 40°C
Terminal	Cage (shock protected)
Cross section of conductors (top / bottom)	[mm²] 25 mm²
	[AWG] 17-4 AWG
Torque	[Nm] 2.5 Nm
	[in-lbs] 22 in-lbs
Screwdriver	No. 2 Pozidrive
Mounting	On 35mm Din rail
Pole dimensions (H x D x W)	[mm] 91 x 92 x 25
Pole weight	[g] 250 g
Signal contact / auxiliary contact combination	YES
Shunt trip combination	YES
Undervoltage release combination	YES

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S501-K8



S502-K8



S501-K According to UL (Supplementary protectors cURus)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.1 ... 0.15	347	6	-	-	S501-K0.15	DS-CB	250
1	0.15 ... 0.21	347	6	-	-	S501-K0.21	DS-CB	250
1	0.2 ... 0.3	347	6	-	-	S501-K0.3	DS-CB	250
1	0.28 ... 0.42	347	6	-	-	S501-K0.42	DS-CB	250
1	0.38 ... 0.58	347	6	-	-	S501-K0.58	DS-CB	250
1	0.53 ... 0.8	347	6	-	-	S501-K0.8	DS-CB	250
1	0.73 ... 1.1	347	6	-	-	S501-K1.1	DS-CB	250
1	1 ... 1.5	347	6	-	-	S501-K1.5	DS-CB	250
1	1.4 ... 2.1	347	6	-	-	S501-K2.1	DS-CB	250
1	2 ... 3	347	6	-	-	S501-K3	DS-CB	250
1	2.8 ... 4.2	347	6	-	-	S501-K4.2	DS-CB	250
1	3.8 ... 5.8	347	6	-	-	S501-K5.8	DS-CB	250
1	5.3 ... 8	347	6	-	-	S501-K8	DS-CB	250
1	7.3 ... 11	347	6	-	-	S501-K11	DS-CB	250
1	10 ... 15	347	6	-	-	S501-K15	DS-CB	250
1	14 ... 20	347	6	-	-	S501-K20	DS-CB	250
1	18 ... 26	347	6	-	-	S501-K26	DS-CB	250
1	23 ... 32	347	6	-	-	S501-K32	DS-CB	250
1	29 ... 37	347	6	-	-	S501-K37	DS-CB	250
1	34 ... 41	347	6	-	-	S501-K41	DS-CB	250
1	38 ... 45	347	6	-	-	S501-K45	DS-CB	250

S502-K According to UL (Supplementary protectors cURus)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.1 ... 0.15	600Y/347	6	-	-	S502-K0.15	DS-CB	500
2	0.15 ... 0.21	600Y/347	6	-	-	S502-K0.21	DS-CB	500
2	0.2 ... 0.3	600Y/347	6	-	-	S502-K0.3	DS-CB	500
2	0.28 ... 0.42	600Y/347	6	-	-	S502-K0.42	DS-CB	500
2	0.38 ... 0.58	600Y/347	6	-	-	S502-K0.58	DS-CB	500
2	0.53 ... 0.8	600Y/347	6	-	-	S502-K0.8	DS-CB	500
2	0.73 ... 1.1	600Y/347	6	-	-	S502-K1.1	DS-CB	500
2	1 ... 1.5	600Y/347	6	-	-	S502-K1.5	DS-CB	500
2	1.4 ... 2.1	600Y/347	6	-	-	S502-K2.1	DS-CB	500
2	2 ... 3	600Y/347	6	-	-	S502-K3	DS-CB	500
2	2.8 ... 4.2	600Y/347	6	-	-	S502-K4.2	DS-CB	500
2	3.8 ... 5.8	600Y/347	6	-	-	S502-K5.8	DS-CB	500
2	5.3 ... 8	600Y/347	6	-	-	S502-K8	DS-CB	500
2	7.3 ... 11	600Y/347	6	-	-	S502-K11	DS-CB	500
2	10 ... 15	600Y/347	6	-	-	S502-K15	DS-CB	500
2	14 ... 20	600Y/347	6	-	-	S502-K20	DS-CB	500
2	18 ... 26	600Y/347	6	-	-	S502-K26	DS-CB	500
2	23 ... 32	600Y/347	6	-	-	S502-K32	DS-CB	500
2	29 ... 37	600Y/347	6	-	-	S502-K37	DS-CB	500
2	34 ... 41	600Y/347	6	-	-	S502-K41	DS-CB	500
2	38 ... 45	600Y/347	6	-	-	S502-K45	DS-CB	500

Miniature circuit breakers

System Pro M Compact

K type trip curve



S503-K8



S503-K According to UL (Supplementary protectors cURus)								
Poles	I _n	U _n AC	I _{cn} AC	U _n DC	I _{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.1 ... 0.15	600Y/347	6	-	-	S503-K0.15	DS-CB	750
3	0.15 ... 0.21	600Y/347	6	-	-	S503-K0.21	DS-CB	750
3	0.2 ... 0.3	600Y/347	6	-	-	S503-K0.3	DS-CB	750
3	0.28 ... 0.42	600Y/347	6	-	-	S503-K0.42	DS-CB	750
3	0.38 ... 0.58	600Y/347	6	-	-	S503-K0.58	DS-CB	750
3	0.53 ... 0.8	600Y/347	6	-	-	S503-K0.8	DS-CB	750
3	0.73 ... 1.1	600Y/347	6	-	-	S503-K1.1	DS-CB	750
3	1 ... 1.5	600Y/347	6	-	-	S503-K1.5	DS-CB	750
3	1.4 ... 2.1	600Y/347	6	-	-	S503-K2.1	DS-CB	750
3	2 ... 3	600Y/347	6	-	-	S503-K3	DS-CB	750
3	2.8 ... 4.2	600Y/347	6	-	-	S503-K4.2	DS-CB	750
3	3.8 ... 5.8	600Y/347	6	-	-	S503-K5.8	DS-CB	750
3	5.3 ... 8	600Y/347	6	-	-	S503-K8	DS-CB	750
3	7.3 ... 11	600Y/347	6	-	-	S503-K11	DS-CB	750
3	10 ... 15	600Y/347	6	-	-	S503-K15	DS-CB	750
3	14 ... 20	600Y/347	6	-	-	S503-K20	DS-CB	750
3	18 ... 26	600Y/347	6	-	-	S503-K26	DS-CB	750
3	23 ... 32	600Y/347	6	-	-	S503-K32	DS-CB	750
3	29 ... 37	600Y/347	6	-	-	S503-K37	DS-CB	750
3	34 ... 41	600Y/347	6	-	-	S503-K41	DS-CB	750
3	38 ... 45	600Y/347	6	-	-	S503-K45	DS-CB	750

Miniature circuit breakers

System Pro M Compact

K type trip curve

2



S501UC-K8



S502UC-K8



S501UC-K According to UL (Supplementary protectors cURus)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
1	0.1 ... 0.15	-	-	250	30	S501UC-K0.15	DS-CB	250
1	0.15 ... 0.21	-	-	250	30	S501UC-K0.21	DS-CB	250
1	0.2 ... 0.3	-	-	250	30	S501UC-K0.3	DS-CB	250
1	0.28 ... 0.42	-	-	250	30	S501UC-K0.42	DS-CB	250
1	0.38 ... 0.58	-	-	250	30	S501UC-K0.58	DS-CB	250
1	0.53 ... 0.8	-	-	250	30	S501UC-K0.8	DS-CB	250
1	0.73 ... 1.1	-	-	250	30	S501UC-K1.1	DS-CB	250
1	1 ... 1.5	-	-	250	30	S501UC-K1.5	DS-CB	250
1	1.4 ... 2.1	-	-	250	30	S501UC-K2.1	DS-CB	250
1	2 ... 3	-	-	250	30	S501UC-K3	DS-CB	250
1	2.8 ... 4.2	-	-	250	30	S501UC-K4.2	DS-CB	250
1	3.8 ... 5.8	-	-	250	30	S501UC-K5.8	DS-CB	250
1	5.3 ... 8	-	-	250	30	S501UC-K8	DS-CB	250
1	7.3 ... 11	-	-	250	30	S501UC-K11	DS-CB	250
1	10 ... 15	-	-	250	30	S501UC-K15	DS-CB	250
1	14 ... 20	-	-	250	30	S501UC-K20	DS-CB	250
1	18 ... 26	-	-	250	30	S501UC-K26	DS-CB	250
1	23 ... 32	-	-	250	30	S501UC-K32	DS-CB	250
1	29 ... 37	-	-	250	30	S501UC-K37	DS-CB	250
1	34 ... 41	-	-	250	30	S501UC-K41	DS-CB	250
1	38 ... 45	-	-	250	30	S501UC-K45	DS-CB	250

S502UC-K According to UL (Supplementary protectors cURus)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
2	0.1 ... 0.15	-	-	500	30	S502UC-K0.15	DS-CB	500
2	0.15 ... 0.21	-	-	500	30	S502UC-K0.21	DS-CB	500
2	0.2 ... 0.3	-	-	500	30	S502UC-K0.3	DS-CB	500
2	0.28 ... 0.42	-	-	500	30	S502UC-K0.42	DS-CB	500
2	0.38 ... 0.58	-	-	500	30	S502UC-K0.58	DS-CB	500
2	0.53 ... 0.8	-	-	500	30	S502UC-K0.8	DS-CB	500
2	0.73 ... 1.1	-	-	500	30	S502UC-K1.1	DS-CB	500
2	1 ... 1.5	-	-	500	30	S502UC-K1.5	DS-CB	500
2	1.4 ... 2.1	-	-	500	30	S502UC-K2.1	DS-CB	500
2	2 ... 3	-	-	500	30	S502UC-K3	DS-CB	500
2	2.8 ... 4.2	-	-	500	30	S502UC-K4.2	DS-CB	500
2	3.8 ... 5.8	-	-	500	30	S502UC-K5.8	DS-CB	500
2	5.3 ... 8	-	-	500	30	S502UC-K8	DS-CB	500
2	7.3 ... 11	-	-	500	30	S502UC-K11	DS-CB	500
2	10 ... 15	-	-	500	30	S502UC-K15	DS-CB	500
2	14 ... 20	-	-	500	30	S502UC-K20	DS-CB	500
2	18 ... 26	-	-	500	30	S502UC-K26	DS-CB	500
2	23 ... 32	-	-	500	30	S502UC-K32	DS-CB	500
2	29 ... 37	-	-	500	30	S502UC-K37	DS-CB	500
2	34 ... 41	-	-	500	30	S502UC-K41	DS-CB	500
2	38 ... 45	-	-	500	30	S502UC-K45	DS-CB	500

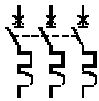
Miniature circuit breakers

System Pro M Compact

K type trip curve



S503UC-K8



S503UC-K According to UL (Supplementary protectors cURus)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
3	0.1 ... 0.15	-	-	600	30	S503UC-K0.15	DS-CB	750
3	0.15 ... 0.21	-	-	600	30	S503UC-K0.21	DS-CB	750
3	0.2 ... 0.3	-	-	600	30	S503UC-K0.3	DS-CB	750
3	0.28 ... 0.42	-	-	600	30	S503UC-K0.42	DS-CB	750
3	0.38 ... 0.58	-	-	600	30	S503UC-K0.58	DS-CB	750
3	0.53 ... 0.8	-	-	600	30	S503UC-K0.8	DS-CB	750
3	0.73 ... 1.1	-	-	600	30	S503UC-K1.1	DS-CB	750
3	1 ... 1.5	-	-	600	30	S503UC-K1.5	DS-CB	750
3	1.4 ... 2.1	-	-	600	30	S503UC-K2.1	DS-CB	750
3	2 ... 3	-	-	600	30	S503UC-K3	DS-CB	750
3	2.8 ... 4.2	-	-	600	30	S503UC-K4.2	DS-CB	750
3	3.8 ... 5.8	-	-	600	30	S503UC-K5.8	DS-CB	750
3	5.3 ... 8	-	-	600	30	S503UC-K8	DS-CB	750
3	7.3 ... 11	-	-	600	30	S503UC-K11	DS-CB	750
3	10 ... 15	-	-	600	30	S503UC-K15	DS-CB	750
3	14 ... 20	-	-	600	30	S503UC-K20	DS-CB	750
3	18 ... 26	-	-	600	30	S503UC-K26	DS-CB	750
3	23 ... 32	-	-	600	30	S503UC-K32	DS-CB	750
3	29 ... 37	-	-	600	30	S503UC-K37	DS-CB	750
3	34 ... 41	-	-	600	30	S503UC-K41	DS-CB	750
3	38 ... 45	-	-	600	30	S503UC-K45	DS-CB	750

S504UC-K According to UL (Supplementary protectors cURus)

Poles	I_n	U_n AC	I_{cn} AC	U_n DC	I_{cn} DC	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[kA]	[V]	[kA]			[g]
4	0.1 ... 0.15	-	-	600	30	S504UC-K0.15	DS-CB	1000
4	0.15 ... 0.21	-	-	600	30	S504UC-K0.21	DS-CB	1000
4	0.2 ... 0.3	-	-	600	30	S504UC-K0.3	DS-CB	1000
4	0.28 ... 0.42	-	-	600	30	S504UC-K0.42	DS-CB	1000
4	0.38 ... 0.58	-	-	600	30	S504UC-K0.58	DS-CB	1000
4	0.53 ... 0.8	-	-	600	30	S504UC-K0.8	DS-CB	1000
4	0.73 ... 1.1	-	-	600	30	S504UC-K1.1	DS-CB	1000
4	1 ... 1.5	-	-	600	30	S504UC-K1.5	DS-CB	1000
4	1.4 ... 2.1	-	-	600	30	S504UC-K2.1	DS-CB	1000
4	2 ... 3	-	-	600	30	S504UC-K3	DS-CB	1000
4	2.8 ... 4.2	-	-	600	30	S504UC-K4.2	DS-CB	1000
4	3.8 ... 5.8	-	-	600	30	S504UC-K5.8	DS-CB	1000
4	5.3 ... 8	-	-	600	30	S504UC-K8	DS-CB	1000
4	7.3 ... 11	-	-	600	30	S504UC-K11	DS-CB	1000
4	10 ... 15	-	-	600	30	S504UC-K15	DS-CB	1000
4	14 ... 20	-	-	600	30	S504UC-K20	DS-CB	1000
4	18 ... 26	-	-	600	30	S504UC-K26	DS-CB	1000
4	23 ... 32	-	-	600	30	S504UC-K32	DS-CB	1000
4	29 ... 37	-	-	600	30	S504UC-K37	DS-CB	1000
4	34 ... 41	-	-	600	30	S504UC-K41	DS-CB	1000
4	38 ... 45	-	-	600	30	S504UC-K45	DS-CB	1000

For your notes

2

Handwriting practice lines consisting of 20 horizontal dotted lines.

For your notes

Handwriting practice lines consisting of 20 horizontal dotted lines.

Residual current devices

System Pro M Compact

Residual current devices F200 series

Technical specifications of RCDs F200 series	3/2
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Part numbers for RCDs F200 series

F202A	3/3
F204A	3/3
F202AC	3/4
F204AC	3/4

Residual current devices

System Pro M Compact

3

General electrical data	
Series	F200
Standards and approvals	IEC/EN 61008, UL1053 cURus marked
Type	A, AC
Poles	2, 4
Rated current I _n	[A] 16, 25, 40, 63
Rated sensitivity I _{Δn}	[mA] 10, 30, 100, 300, 500
Rated voltage U _e IEC/EN, UL/CSA	[V] 230/400, 480Y/277VAC
Insulation voltage U _i	[V] 500
Max. operating voltage of circuit test	[V] 254 (IEC), 277 (UL/CSA)
Min. operating voltage of circuit test	[V] 110
Rated frequency	[Hz] 50/60
Rated conditional short circuit current	[kA] 10 (SCPD - fuse gG 100A)
Rated residual breaking capacity	[kA] 1
Rated impulse withstand voltage	[kV] 6
Dielectric test voltage at ind. frequency for 1 min	[kV] 2.5
Overvoltage category	III disconnector abilities
Surge current resistance (wave 8/20)	[A] 250

General mechanical and installation data	
Series	F200
Toggle	Blue sealable in ON-OFF position
Contact position indicator (CPI)	YES
Electrical life	[ops] 10,000
Mechanical life	[ops] 20,000
Protection degree	Housing: IP4X, Terminals: IP2X
Tropicalization according to IEC/EN 60068-2	[°C/RH] 28 cycles with 55/95...100
Ambient temperature	[°C] -35 ... +70
Storage temperature	[°C] -40 ... +70
Terminal type	Failsafe bi-directional cylinder lift terminal (shock protected)
Terminal size (cable connection)	[mm ²] 25
	[AWG] 18-4
Terminal size (busbar connection)	[mm ²] 10
	[AWG] 18-8
Tightening torque	[Nm] 2.8
	[in-lbs] 25
Tool	No. 2 Pozidrive
Mounting	On DIN rail EN 60715 (35mm)
Connection	From top and bottom
Dimensions (HxDxW)	[mm] 2P: 85 x 69 x 35, 4P: 85 x 69 x 70
Weight	[g] 2P: 200, 4P: 400
Combinable with auxiliary contact	YES
Combinable with signal / auxiliary contact	YES
Combinable with shunt trip	YES
Combinable with undervoltage release	YES

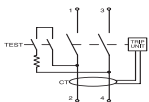
Residual current devices

System Pro M Compact

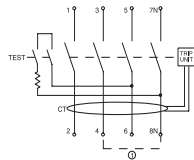
A type



F202A-25/0.03



F204A-25/0.03



F202A according to UL1053 (for AC or DC components) cURus marked

Poles	I _n	U _n AC	R _c	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[mA]			[g]
2	16	277	10	F202A-16/0.01	DS-CB	200
2	25	277	30	F202A-25/0.03	DS-CB	200
2	40	277	30	F202A-40/0.03	DS-CB	200
2	63	277	30	F202A-63/0.03	DS-CB	200
2	25	277	100	F202A-25/0.1	DS-CB	200
2	40	277	100	F202A-40/0.1	DS-CB	200
2	63	277	100	F202A-63/0.1	DS-CB	200
2	25	277	300	F202A-25/0.3	DS-CB	200
2	40	277	300	F202A-40/0.3	DS-CB	200
2	63	277	300	F202A-63/0.3	DS-CB	200
2	25	277	500	F202A-25/0.5	DS-CB	200
2	40	277	500	F202A-40/0.5	DS-CB	200
2	63	277	500	F202A-63/0.5	DS-CB	200

F204A according to UL1053 (for AC or DC components) cURus marked

Poles	I _n	U _n AC	R _c	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[mA]			[g]
4	25	480Y/277	30	F204A-25/0.03	DS-CB	400
4	40	480Y/277	30	F204A-40/0.03	DS-CB	400
4	63	480Y/277	30	F204A-63/0.03	DS-CB	400
4	25	480Y/277	100	F204A-25/0.1	DS-CB	400
4	40	480Y/277	100	F204A-40/0.1	DS-CB	400
4	63	480Y/277	100	F204A-63/0.1	DS-CB	400
4	25	480Y/277	300	F204A-25/0.3	DS-CB	400
4	40	480Y/277	300	F204A-40/0.3	DS-CB	400
4	63	480Y/277	300	F204A-63/0.3	DS-CB	400
4	25	480Y/277	500	F204A-25/0.5	DS-CB	400
4	40	480Y/277	500	F204A-40/0.5	DS-CB	400
4	63	480Y/277	500	F204A-63/0.5	DS-CB	400

Residual current devices

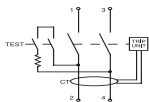
System Pro M Compact

AC type

3



F202AC-25/0.03

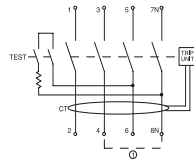


F202AC according to UL1053 (for AC components) cURus marked

Poles	I _n	U _n AC	R _c	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[mA]			[g]
2	16	277	10	F202AC-16/0.01	DS-CB	200
2	25	277	30	F202AC-25/0.03	DS-CB	200
2	40	277	30	F202AC-40/0.03	DS-CB	200
2	63	277	30	F202AC-63/0.03	DS-CB	200
2	25	277	100	F202AC-25/0.1	DS-CB	200
2	40	277	100	F202AC-40/0.1	DS-CB	200
2	63	277	100	F202AC-63/0.1	DS-CB	200
2	25	277	300	F202AC-25/0.3	DS-CB	200
2	40	277	300	F202AC-40/0.3	DS-CB	200
2	63	277	300	F202AC-63/0.3	DS-CB	200
2	25	277	500	F202AC-25/0.5	DS-CB	200
2	40	277	500	F202AC-40/0.5	DS-CB	200
2	63	277	500	F202AC-63/0.5	DS-CB	200



F204AC-25/0.03



F204AC according to UL1053 (for AC components) cURus marked

Poles	I _n	U _n AC	R _c	Part number	Discount schedule	Weight
[Nbr]	[A]	[V]	[mA]			[g]
4	25	480Y/277	30	F204AC-25/0.03	DS-CB	400
4	40	480Y/277	30	F204AC-40/0.03	DS-CB	400
4	63	480Y/277	30	F204AC-63/0.03	DS-CB	400
4	25	480Y/277	100	F204AC-25/0.1	DS-CB	400
4	40	480Y/277	100	F204AC-40/0.1	DS-CB	400
4	63	480Y/277	100	F204AC-63/0.1	DS-CB	400
4	25	480Y/277	300	F204AC-25/0.3	DS-CB	400
4	40	480Y/277	300	F204AC-40/0.3	DS-CB	400
4	63	480Y/277	300	F204AC-63/0.3	DS-CB	400
4	25	480Y/277	500	F204AC-25/0.5	DS-CB	400
4	40	480Y/277	500	F204AC-40/0.5	DS-CB	400
4	63	480Y/277	500	F204AC-63/0.5	DS-CB	400

Auxiliary elements and accessories

System Pro M Compact

Technical data on S200, S200U/UP series accessories

Possible combination between S200/F200 and accessories	4/2
Technical details of auxiliary elements and accessories	4/3

Part numbers for auxiliary elements of S200 series

Auxiliary contacts	4/6
Shunt trips and undervoltage release	4/6

Part numbers for auxiliary elements of S200U/UP series

Auxiliary contacts and shunt trips	4/7
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Part numbers for S200 series busbars

Busbars (suitable for cutting)	4/8
Busbars accessories	4/9
Selection tables	4/10

Part numbers for S200U/UP series busbars

Busbars (not to be cut)	4/11
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Selection tables	4/12

Part numbers for additional auxiliary elements of S200/U/UP series

Miscellaneous accessories	4/13
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Technical data on S280 series accessories

Possible combination between S280 and accessories	4/14
Technical details of auxiliary elements and accessories	4/15

Part numbers for auxiliary elements of S280 series

Auxiliary contacts	4/17
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Technical data on S290 series accessories

Possible combination between S280 and accessories	4/19
Technical details of auxiliary elements and accessories	4/20

Part numbers for auxiliary elements of S290 series

Auxiliary contacts, shunt trips and undervoltage release	4/21
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Technical data on S800 series accessories

Possible combination between S800 and accessories	4/22
Technical details of auxiliary elements and accessories	4/23

Part numbers for auxiliary elements of S800 series

Auxiliary elements for S800 series	4/25
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Technical data on S500 series accessories

Technical details of auxiliary elements and accessories	4/28
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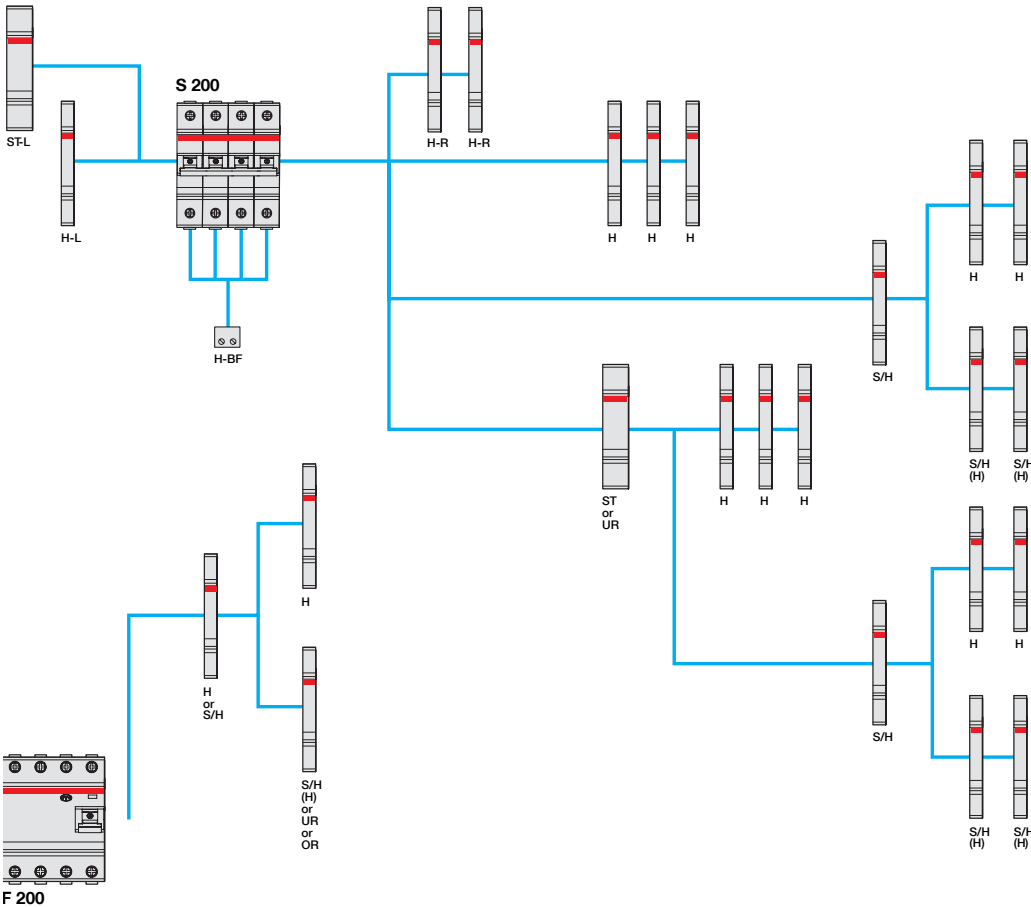
Part numbers for auxiliary elements of S500 series

Auxiliary elements for S500 series	4/0
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Auxiliary elements and accessories

System Pro M Compact

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Details		
H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST	Shunt trip for S 200 MCB	S2C-A...
UR	Undervoltage release	S2C-UA
ST-L	Shunt trip for S 200 MCBs to be mounted on the left	S2C-A...L
H-L	Auxiliary contact for S 200 MCBs to be mounted on the left	S2C-H...L
H-BF	Auxiliary contact for MCBs bottom fitting (1 for each pole of MCB)	S2C-H01/ S2C-H10

Auxiliary elements and accessories

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Technical details aux. contacts S200 (left side)		S2C-H6R, S2C-H11L, S2C-H20, S2C-H02 and S2C-S/H6R (UL / CSA approved)									
Rated current	[A]	10									
Min. rated voltage UBmin	[V]	24VAC / 24VDC									
Min. rated operational current/voltage	[A]	10 mA at 12 V; 5 mA at 24 V									
Overvoltage category		III									
Surge voltage (1.2/50 ms)	[kV]	4									
Connection cross section	[mm ²]	0.75...2.5 (up to 2 x 1.5 mm ² for S2C-H11L, S2C-H20L and S2C-H02L)									
Tightening torque	[Nm]	1.2 (max. 0.8 for S2C-H11L, S2C-H20L and S2C-H02L)									
Contact stability in vibration test according to DIN IEC 68-2-6		5g, 20 sweep cycles 5...150...5 Hz at 24 V AC/DC, 5 mA automatic reclosing < 10 ms									
Mechanical service life		10000 operations									
Dimensions (H x D x W)	[mm]	85 x 69 x 8.8									

Technical details aux. contacts S200 (right side)		S2C-H6-11R, S2C-H6-20R, S2C-H6-02R (UL / CSA approved)									
Rated current	[A]	10									
Min. rated voltage UBmin	[V]	24VAC / 24VDC									
Min. rated operational current/voltage	[A]	10 mA at 12 V; 5 mA at 24 V									
Overvoltage category		III									
Surge voltage (1.2/50 ms)	[kV]	4									
Connection cross section	[mm ²]	0.75...2.5									
Tightening torque	[Nm]	1.2									
Mechanical service life		10000 operations									
Dimensions (H x D x W)	[mm]	85 x 69 x 8.8									

Technical details bottom aux. contact S200		S2C-H10 and S2C-H01 (UL / CSA approved)									
Contact complement		1NO (1 make contact), 1NC (1 normally closed contact), leading make contact, late closing									
Contact load		AC14 2 A/230 V - DC 12 identical DC13/DC13 1 A /50 V, 2 A/30 V									
Min. rated voltage	[V]	12 AC/DC at 0.1 VA									
Short-circuit withstand capacity	[A]	230 VAC 1000 A, fault protection with S 201-K2 or Z2									
Electrical serviceable life		> 4000 switchover cycles									
Standard		VDE 0106 Part 101									
Connection cross-section	[mm ²]	0.75 to 2.5									
Tightening torque	[Nm]	0.5									

Technical details shunt trips S200		S2C-A1 (UL / CSA approved)						S2C-A2 (UL / CSA approved)				
Rated voltage	[V]	12...60VAC / 12...60VDC						110...415VAC / 110...250VDC				
Max release duration	[ms]	<10						<10				
Min. release voltage	[V]	7VAC / 10VDC						55VAC / 80VDC				
Consumption on release	[W]	12 DC	12 AC	24 DC	24 AC	60 DC	60 AC	110 DC	110 AC	220 DC	230 AC	415 AC
	[A]	2.2	2.5	4.5	5	14	8.8	0.35	0.5	1.1	1.0	2.7
Coil resistance	[Ω]	3.7						225				
Terminals	[mm ²]	16						16				
Tightening torque	[Nm]	2.5						2.5				
Dimensions (H x D x W)	[mm]	85 x 69 x 17.5						85 x 69 x 17.5				

Technical details undervoltage release S200		S2C-UA 12 DC	S2C-UA 24 AC	S2C-UA 24 DC	S2C-UA 48 AC	S2C-UA 48 DC	S2C-UA 110 AC	S2C-UA 110 DC	S2C-UA 230 AC	S2C-UA 230 DC	S2C-UA 400 AC
Standards		IEC/EN 60947-1, UL/CSA									
Rated voltage	[V]	12VDC	24VAC	24VDC	48VAC	48VDC	110VAC	110VDC	230VAC	230VDC	400VAC
Consumption	[VA]	2.2	3.6	2	3.6	2.1	3.5	2.2	3.7	2.3	2.4
Frequency	[Hz]	50...60									
Release trip	[V]	0.35 Un M V M 0.7 Un									
Terminals	[mm²]	2x1.5									
Resistance to corrosion	[°C/RH]	constant atmosphere: 23/83 - 40/93 - 55/20; variable atmosphere: 25/95 - 40/93									
Protection degree		IPXXB/IP2X									
Tightening torque	[Nm]	0.4									
Dimensions (H x D x W)	[mm]	85 x 69 x 17.5									

Auxiliary elements and accessories

System Pro M Compact

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Technical details Aux. contacts S200U/UP		S2C-H6R U, S2C-S/6R U (UL / CSA approved)	
Rated current	[A]	10	
Min. rated voltage UBmin	[V]	24VAC / 24VDC	
Min. rated operational current/voltage	[A]	10 mA at 12 V; 5 mA at 24 V	
Short-circuit withstand capacity	[V]	230 a.c. 100A with S201 K4	
Overvoltage category		III	
Surge voltage (1.2/50 ms)	[kV]	4	
Connection cross section	[mm²]	0.75...2.5	
Tightening torque	[Nm]	1.2	
Contact stability in vibration test		5g, 20 sweep cycles 5...150...5 Hz according to DIN IEC 68-2-6 at 24 V AC/DC, 5 mA automatic reclosing < 10 ms	
Mechanical service life		10000 operations	
Dimensions (H x D x W)	[mm]	100 x 69 x 8.8	

Technical details undervoltage release S200U/UP		S2C-A1U (UL / CSA approved)						S2C-A2U (UL / CSA approved)				
Rated voltage	[V]	12...60VAC / 12...60VDC						110...415VAC / 110...250VDC				
Max release duration	[ms]	<10						<10				
Min. release voltage	[V]	7VAC / 10VDC						55VAC / 80VDC				
Consumption on release	[V]	12 DC	12 AC	24 DC	24 AC	60 DC	60 AC	110 DC	110 AC	220 DC	230 AC	415 AC
	[A]	2.2	2.5	4.5	5	14	8.8	0.35	0.5	1.1	1.0	2.7
Coil resistance	[Ω]	3.7						225				
Terminals	[mm²]	16						16				
Tightening torque	[Nm]	2						2				
Dimensions (H x D x W)	[mm]	100 x 69 x 17.5						100 x 69 x 17.5				

Auxiliary elements and accessories

System Pro M Compact

Technical details		Busbar PS, PS...SP, PS...BP (UL approved)	
Busbar materials		E – Cu 58 F25	
Busbar insulation for PS types		PC / ABS	
Busbar insulation for PS...SP types		PC / ABS	
Busbar insulation for PS...BP types		PA 66	
Heat deflection temp. for PS types	[°C]	VST B 120 – ISO 306 = 113 °C – UL94-V0/1,5	
Heat deflection temp. for PS...SP types	[°C]	VST B 120 – ISO 306 = 113 °C – UL94-V0/1,5	
Heat deflection temp. for PS...BP types	[°C]	HDT B – ISO179 = 200 °C – UL94-V0/0,4 mm	
Climate stability		according to DIN EN 60068	
Insulation coordination		Overvoltage category III / Pollution degree 2	
Comparative tracking index	[M]	600 V	
Standards PS types		DIN EN 60947-1 VDE 0660 part 100 = IEC 60947-1:2004; UL1077	
Standards PS...SP types		DIN EN 60947-1 VDE 0660 part 100 = IEC 60947-1:2004; UL1077	
Standards PS...BP types		DIN EN 60947-1 VDE 0660 part 100 = IEC 60947-1:2004; UL489	
Dielectric strength PS types	[kV]	32 kV/mm	
Dielectric strength PS...SP types	[kV]	32 kV/mm	
Dielectric strength PS...BP types	[kV]	30 kV/mm	
Impulse voltage strength PS types	[kV]	4.5 kV	
Impulse voltage strength PS...SP types	[kV]	9.5 kV	
Impulse voltage strength PS...BP types	[kV]	9.5 kV	
Operation voltage PS types	[V]	277 VAC	
Operation voltage PS...SP types	[V]	277 VAC	
Operation voltage PS...BP types	[V]	277 VAC	
Busbar cross section	[mm²]	10/16/30 mm²	
Max. current Is phase		see chart below	
Short circuit withstand capacity PS types	[kA]	25 kA with back up fuse NH3 355 A gG/gL500V	
Short circuit withstand capacity PS...SP types	[kA]	10 kA with back up fuse NH3 355 A gG/gL500V	
Short circuit withstand capacity PS...BP types	[kA]	10 kA with back up fuse NH3 355 A gG/gL500V	

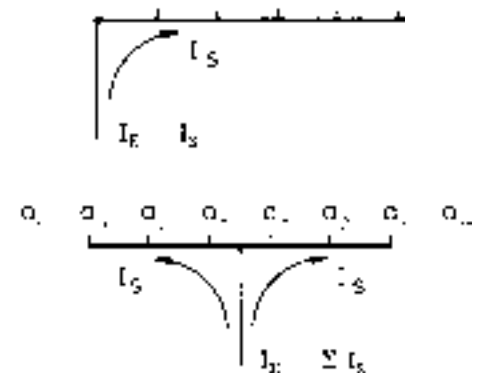
Current carrying capacity at 35 °C (depending on feeding)				
End feeding		busbar blocks PS		
cross section	[mm²]	10	16	30
max. supply current I_s / phase	[A]	63	80 ¹⁾	120*

Current carrying capacity at 35 °C (depending on feeding)				
Non-end feeding (center or elsewhere on the rail)		busbar blocks PS		
cross section	[mm²]	10	16	30
max. current in branch I_E / phase	[A]	100	130 ¹⁾	160*
max. supply current I_E / phase	[A]	Depends on cross section		

* If fed via the terminals, always ensure that 130 A (110 A for terminals 16 mm²) are not exceeded, irrespective of the current carrying capacity (I_s) of the busbar

¹⁾ PS...BP 115 A if cubicle size M 30" x 30" x 10"

²⁾ PS...SP 100 A



Auxiliary elements and accessories

System Pro M Compact



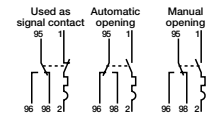
S2C-S/H6R S2C-H6...



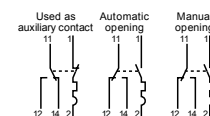
S2C-H01

Auxiliary contacts / signal contact for S200 series

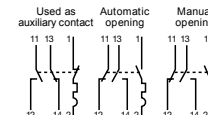
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
1 form C	RIGHT	S2C-H6R	DS-S2A	40
1 form C + BA	RIGHT	S2C-S/H6R	DS-S2A	40
1 NO + 1 NC	RIGHT	S2C-H611R *	DS-S2A	40
2 NO	RIGHT	S2C-H620R *	DS-S2A	40
2 NC	RIGHT	S2C-H602R *	DS-S2A	40
1 NO + 1 NC	LEFT	S2C-H11L	DS-S2A	40
2 NO	LEFT	S2C-H20L *	DS-S2A	40
2 NC	LEFT	S2C-H02L	DS-S2A	40
1 NO	LEFT	S2C-H10	DS-S2A	10
1 NC	LEFT	S2C-H01	DS-S2A	10



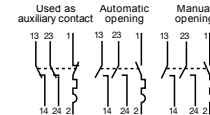
S2C-S/H6R



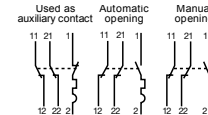
S2C-H6R



S2C-H6-11R



S2C-H6-20R



S2C-H6-02R



S2C-A1

Shunt trips for S200 series

Control voltage	Mounting side	Part number	Discount schedule	Weight
[M]				[g]
12...60 V AC/DC	RIGHT	S2C-A1	DS-S2A	150
110...415VAC / 110...250VDC	RIGHT	S2C-A2	DS-S2A	150



S2C-UA12DC

Undervoltage release for S200 series

Control voltage	Mounting side	Part number	Discount schedule	Weight
[M]				[g]
12VDC	RIGHT	S2C-UA12DC	DS-S2A	90
24VAC	RIGHT	S2C-UA24AC	DS-S2A	90
24VDC	RIGHT	S2C-UA24DC	DS-S2A	90
48VAC	RIGHT	S2C-UA48AC	DS-S2A	90
48VDC	RIGHT	S2C-UA48DC	DS-S2A	90
110VAC	RIGHT	S2C-UA110AC	DS-S2A	90
110VDC	RIGHT	S2C-UA110DC	DS-S2A	90
230VAC	RIGHT	S2C-UA230AC	DS-S2A	90
230VDC	RIGHT	S2C-UA230DC	DS-S2A	90
400VAC	RIGHT	S2C-UA400AC	DS-S2A	90

Auxiliary elements and accessories

System Pro M Compact



S2C-S6RU



S2C-H6RU

Auxiliary contacts / signal contact for S200U/UP series				
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
1 form C	RIGHT	S2C-H6RU	DS-S2A	35
1 BA	RIGHT	S2C-S6RU	DS-S2A	35



S2C-A1U

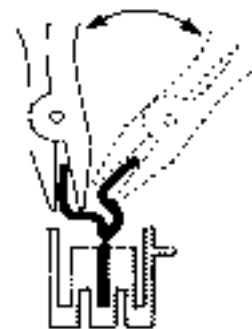
Shunt trips for S200U/UP series				
Control voltage [V]	Mounting side	Part number	Discount schedule	Weight [g]
12...60V AC/DC	RIGHT	S2C-A1U	DS-S2A	150
110...415VAC / 110...250VDC	RIGHT	S2C-A2U	DS-S2A	150

Auxiliary elements and accessories

System Pro M Compact



PS1/60



Breaking the pins

4

1 phase busbar (for S200 supplementary protectors), pin distance 17.6 mm, end caps - PS-END0, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
1	60	63A	1053	PS1/60SP *	DS-S2A	260
1	60	80A	1053	PS1/60/16SP *	DS-S2A	410

1 phase + accessory busbar (for S200 supplementary protectors), end caps - PS-END0, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
1	38	63A	1053	PS1/38H	DS-S2A	270
1	38	80A	1053	PS1/38/16HSP *	DS-S2A	450

2 phase busbar (for S200 supplementary protectors), pin distance 17.6 mm, end caps - PS-ENDSP, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
2	58	63A	1019	PS2/58SP	DS-S2A	312
2	58	80A	1019	PS2/58/16SP	DS-S2A	510

2 phase + accessory busbar (for S200 supplementary protectors), end caps - PS-ENDSP, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
2	48	80A	1046	PS2/48/16SP	DS-S2A	661

3 phase busbar (for S200 supplementary protectors), pin distance 17.6 mm, end caps - PS-ENDSP, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
3	60	63A	1055	PS3/60SP	DS-S2A	340
3	60	80A	1055	PS3/60/16SP	DS-S2A	567

3 phase + accessory busbar (for S200 supplementary protectors), end caps - PS-ENDSP, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
3	48	80A	1020	PS3/48/16SP	DS-S2A	641

4 phase busbar (for S200 supplementary protectors), pin distance 17.6 mm, end caps - PS-END1SP, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
4	60	80A	1056	PS4/60/16SP	DS-S2A	624

4 phase + accessory busbar (for S200 supplementary protectors), end caps - PS-END1SP, CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
4	52	80A	1019	PS4/52/16HSP *	DS-S2A	873

Auxiliary elements and accessories

System Pro M Compact



PS-END0



BSK-SP



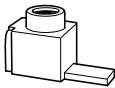
AST35/15SP



SZ-ESK-SP



AST25/15Q



AST25/15S

Available end caps			
Description	Part number	Discount schedule	Weight each pcs [g]
End caps for 1 phase busbars	PS-END0	DS-S2A	1
End caps for 2/3 phase busbars	PS-ENDSP	DS-S2A	1
End caps for 4 phase busbars	PS-END1SP	DS-S2A	1

Shock protection caps for PS...SP busbars (UL1077)			
Description	Part number	Discount schedule	Weight each pcs [g]
Yellow caps (set of 5)	BSK-SP *	DS-S2A	1

Feeder terminals (UL1077)			
Description	Part number	Discount schedule	Weight each pcs [g]
Terminal insulated with pin contact	AST35/15SP *	DS-S2A	25
Feeder terminal, can be mounted side-by-side on busbar	SZ-ESK-SP *	DS-S2A	50

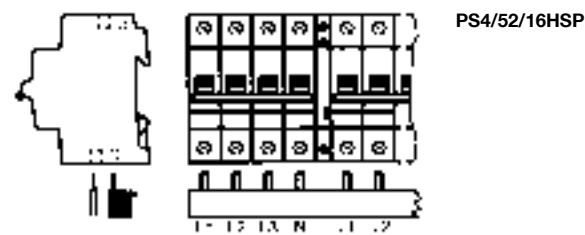
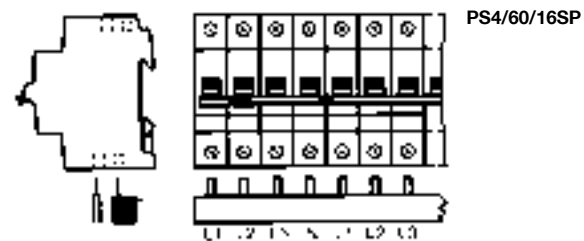
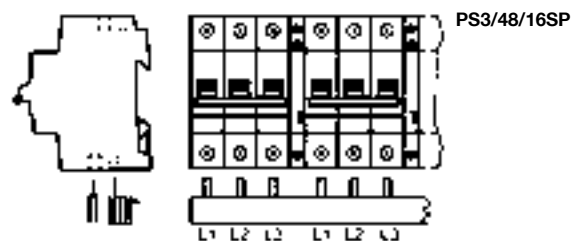
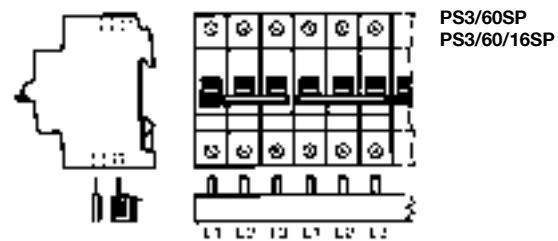
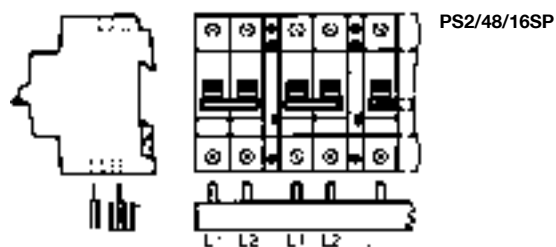
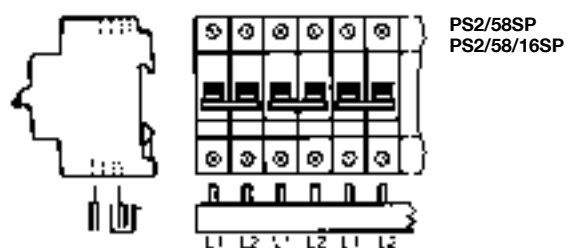
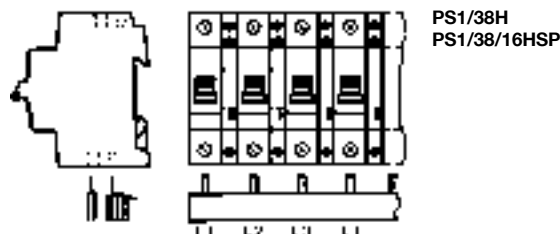
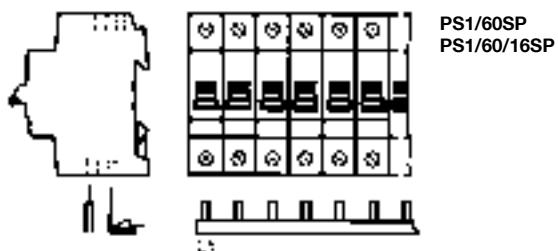
Feeder terminals (IEC)			
Description	Part number	Discount schedule	Weight each pcs [g]
Straight connection (6-25 mm²)	AST25/15S *	DS-S2A	12
90° connection (6-25 mm²)	AST25/15Q *	DS-S2A	12

Technical details of terminals		SZ-ESK-SP	AST35/15SP	AST25/15S	AS25/15Q
Wire range stranded with ferrule	[mm²]	35	25	25	25
	[AWG]	#2	#4	-	-
Wire range solid	[mm²]	50	35	-	-
	[AWG]	1/0	#2	-	-
Maximum operating voltage	[V]	480	480	600	600
Maximum current	[A]	115 ⁽¹⁾	115 ⁽¹⁾	63	63
Protection degree		IP20	IP20	IP20	IP20

Auxiliary elements and accessories

System Pro M Compact

4



Auxiliary elements and accessories

System Pro M Compact



PS2/6/16BP

1 phase busbar (for S200U/UP branch protectors), pin distance 17.6 mm, NON-CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
1	6	80A	103	PS1/6/16BP	DS-S2A	40
1	12	80A	206	PS1/12/16BP	DS-S2A	82
1	18	80A	310	PS1/18/16BP	DS-S2A	122

2 phase busbar (for S200U/UP branch protectors), pin distance 17.6 mm, NON-CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
2	6	80A	103	PS2/6/16BP	DS-S2A	61
2	12	80A	206	PS2/12/16BP	DS-S2A	105
2	18	80A	310	PS2/18/16BP	DS-S2A	159

3 phase busbar (for S200U/UP branch protectors), pin distance 17.6 mm, NON-CUTTABLE.

Phase	Pin	Max. Current	Busbar length	Part number	Discount schedule	Weight each pcs
[pole]	[Nbr]	[A]	[mm]			[g]
3	6	80A	103	PS3/6/16BP	DS-S2A	57
3	12	80A	206	PS3/12/16BP	DS-S2A	114
3	18	80A	310	PS3/18/16BP	DS-S2A	170



BSK-BP

Shock protection caps for PS...BP busbars (UL489)

Description	Part number	Discount schedule	Weight each pcs
			[g]
Yellow caps (set of 3)	BSK-BP *	DS-S2A	1



AST35/15BP

SZ-ESK-BP

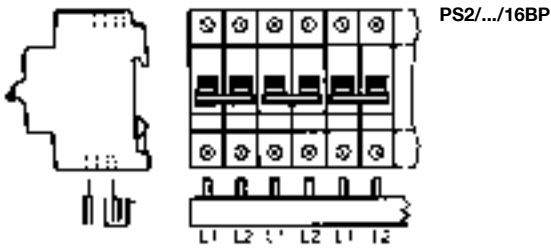
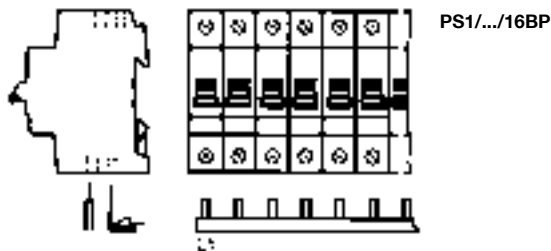
Feeder terminals (UL489)

Description	Part number	Discount schedule	Weight each pcs
			[g]
Terminal insulated with pin contact	AST35/15BP *	DS-S2A	25
Feeder terminal, can be mounted side-by-side on busbar	SZ-ESK-BP *	DS-S2A	50

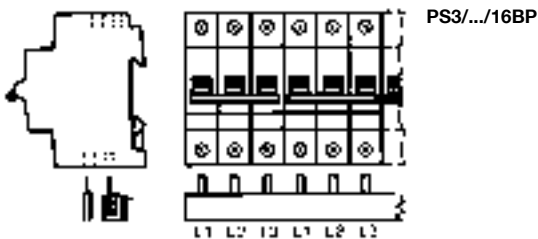
Technical details of terminals		SZ-ESK-BP	AST35/15BP
Wire range stranded with ferrule	[mm ²]	35	25
	[AWG]	#2	#4
Wire range solid	[mm ²]	50	35
	[AWG]	1/0	#2
Maximum operating voltage	[V]	480	480
Maximum current	[A]	115 ⁽¹⁾	115 ⁽¹⁾
Protection degree		IP20	IP20

Auxiliary elements and accessories

System Pro M Compact



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Auxiliary elements and accessories

System Pro M Compact



SZ-BP1



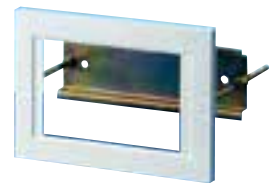
S2C-DH



SA1



SA2



ME4-4



12644

Blanking plates

Description	Part number	Discount schedule	Weight each pcs [g]
Set of 10 single plates	SZ-BP1	DS-S2A	28

Rotary handle mech.

Description	Part number	Discount schedule	Weight each pcs [g]
Mech. for 2, 3 and 4P with rotary handle and shaft	S2C-DH	DS-S2A	10

Locking devices

Description	Part number	Discount schedule	Weight each pcs [g]
Padlock adaptor (3mm diameter padlock)	SA1	DS-S2A	4
Padlock adaptor (6mm diameter padlock)	SA1E	DS-S2A	4
Padlock with 2 keys (3mm)	SA2	DS-S2A	20

Flanges

Description	Part number	Discount schedule	Weight each pcs [g]
Flange for rear board fixing 1 module	ME1-1	DS-S2A	40
Flange for rear board fixing 2 module	ME2-2	DS-S2A	45
Flange for rear board fixing 3 module	ME3-3	DS-S2A	55
Flange for rear board fixing 4 module	ME4-4	DS-S2A	60
Flange for rear board fixing 6 module	ME6-6	DS-S2A	70
Flange for rear board fixing 8 module	ME8-8	DS-S2A	80

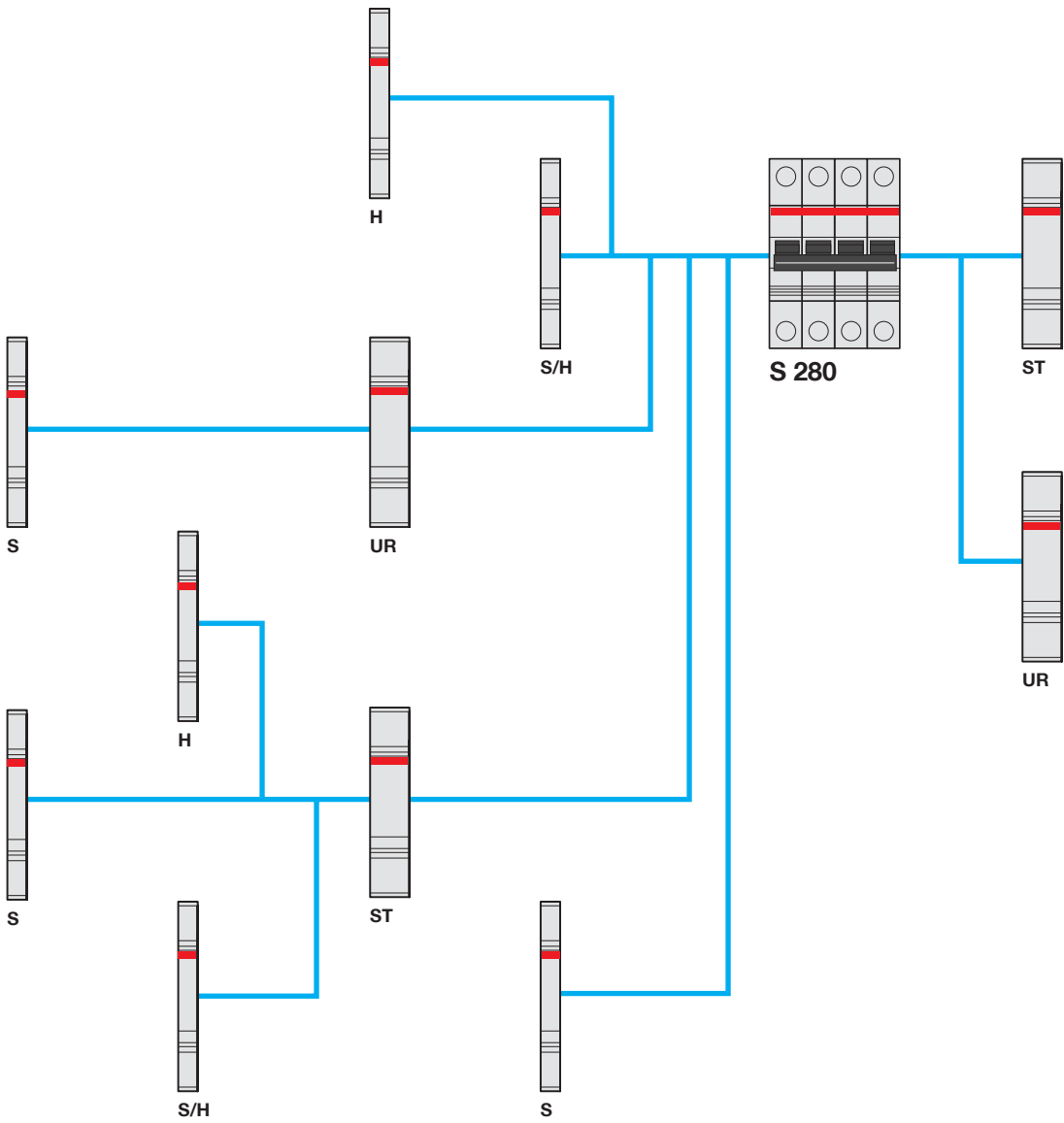
Insulated housing IP55 (IEC only)

Description	Part number	Discount schedule	Weight each pcs [g]
4 modules enclosure	12644	DS-S2A	230
6 modules enclosure	12646	DS-S2A	307
10 modules enclosure	12650	DS-S2A	581
20 modules enclosure	12652	DS-S2A	1162

Auxiliary elements and accessories

System Pro M Compact

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Details	
H	Auxiliary contact
S	Signal contact (BA)
UR	Undervoltage release
ST	Shunt trip

Auxiliary elements and accessories

System Pro M Compact

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Technical details auxiliary contacts (UL / CSA approved)	S2-H11	S2-H20	S2-H02	S2-H12	S2-H21
Description	1NO+1NC	2NO	2NC	1NO+2NC	2NO+1NC
Rated voltage in AC	[V] 240V, 415V				
Rated Amperage	[A] 240V: 6A, 415V: 2A				
Rated Voltage in DC	[V] 24V - 60V - 110V - 250V				
Rated Amperage	[A] 24V: 4, 60V: 2, 110V: 1.5, 250V: 1				
Min. operating voltage	[V] 12VAC / 12VDC				
Min. operating current	[mA] 12				
Terminals	[mm ²] 2x1.5 (2x AWG #16)				
Dielectric strength	[kA] 3				
Resistance to short circuit at 240 Vac	[A] 1000 (protected with S2 breaker characteristic K - 6A)				
Impulse voltage withstand capacity	[kA] 4				
Tightening torque	[Nm] 0.7				
Dimensions (W x D x H)	[mm] 8.75 x 68 x 90				

Technical details signal contacts (UL / CSA approved)	S2-S	S2-S/H
Description	1 form C	2 form C
Rated voltage in AC	[V] 240, 415	
Rated Amperage	[A] 240V: 6A, 415V: 2A	
Rated Voltage in DC	[V] 24V - 60V - 110V - 250V	
Rated Amperage	[A] 24V: 4, 60V: 1, 110V: 1, 250V: 0.5	
Min. operating voltage	[V] 12VAC / 12VDC	
Min. operating current	[mA] 12	
Terminals	[mm ²] 2x1.5 (2x AWG #16)	
Dielectric strength	[kA] 3	
Resistance to short circuit at 240 Vac	[A] 1000 (protected with S2 breaker characteristic K - 6A)	
Impulse voltage withstand capacity	[kA] 4	
Tightening torque	[Nm] 0.7	
Dimensions (W x D x H)	[mm] 8.75 x 68 x 90	

Technical details shunt trip (UL / CSA approved)	S2-A1	S2-A2
Description	Shunt trip	Shunt trip
Rated voltage	[V] 12-60V AC/DC	110-415VAC / 110-250VDC
Maximum release duration	[ms] 10	10
Minimum release voltage	[V] 7VAC / 10VDC	55VAC / 80VDC
Consumption on release for 12VAC	[VA] 35	-
Consumption on release for 12VCC	[VA] 30	-
Consumption on release for 24VAC	[VA] 140	-
Consumption on release for 24VDC	[VA] 100	-
Consumption on release for 48VAC	[VA] 600	-
Consumption on release for 48VDC	[VA] 330	-
Consumption on release for 110VAC	[VA] -	40
Consumption on release for 110VDC	[VA] -	40
Consumption on release for 220VAC	[VA] -	180
Consumption on release for 220VDC	[VA] -	170
Coil resistance	[Ω] 3.7	225
Terminals	[mm ²] 25 (#4 AWG)	25 (#4 AWG)
Tightening torque	[Nm] 2	2
Dimensions (W x D x H)	[mm] 17.5 x 68 x 90	17.5 x 68 x 90

The S2-S bell alarm includes a set of contacts that will only signal when the breaker has tripped. It also includes a test button for testing the alarm contacts without opening the breaker

The S2-S/H bell alarm with auxiliary contact device, combines one set of bell alarm contacts with one set of auxiliary contacts (N.O.)

Auxiliary elements and accessories

System Pro M Compact

Technical details Undervoltage releases (UL / CSA approved)		S2-UA12	S2-UA24	S2-UA48	S2-UA110	S2-UA220	S2-UA380
Rated voltage	[V]	12VDC	24V AC/DC	48VAC	110V AC/DC	220-240V AC/DC	380VAC
Frequency	[Hz]	50/60 Hz					
Release trip	[V]	0.35 ≤ V ≤ 0.7Un					
Terminals	[mm²]	2x 1.5 (2x #16 AWG)					
Consumption	[mA]	10					
Resistance to corrosion	[°C/RH]	Const. climatic cond. 23/83 - 40/93 - 55/20, var. climatic cond. 25/95 - 40-93					
Protection degree	[mA]	IP20					
Tightening torque	[Nm]	0.4					
Dimensions (W x D x H)	[mm]	8.75 x 68 x 90					

Auxiliary elements and accessories

System Pro M Compact



S2-H11

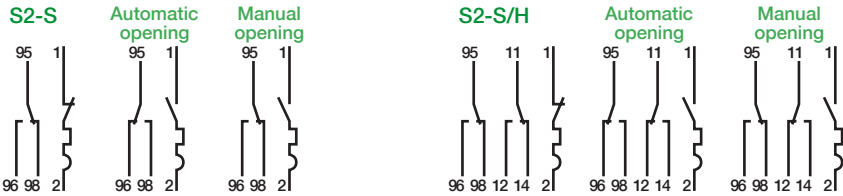
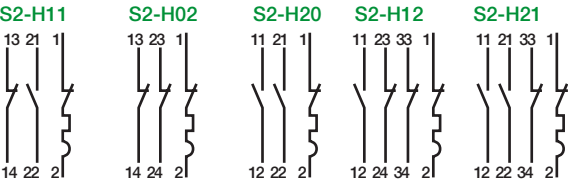
S2-S



S2-S/H

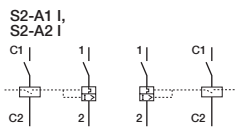
Auxiliary contacts / signal contact for S280 series (left mounting)

Contact type	Mounting side	Part number	Discount schedule	Weight [g]
1 NO + 1 NC	LEFT	S2-H11	DS-CBA	40
2 NO	LEFT	S2-H20	DS-CBA	40
2 NC	LEFT	S2-H02	DS-CBA	40
1 NO + 2 NC	LEFT	S2-H12	DS-CBA	50
2 NO + 1 NC	LEFT	S2-H21	DS-CBA	50
2 NO + 1 NC (low voltage)	LEFT	S2-H21KL	DS-CBA	50
Bell alarm contact	LEFT	S2-S	DS-CBA	70
BA + 1 Form C contact	LEFT	S2-S/H	DS-CBA	50

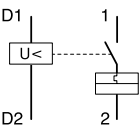


Auxiliary elements and accessories

System Pro M Compact



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Shunt trips for S280 series (right or left side mounted)

Control voltage	Mounting side	Part number	Discount schedule	Weight
[V]				[g]
12...60V AC/DC	RIGHT or LEFT	S2-A1	DS-CBA	145
110...415VAC / 110...250VDC	RIGHT or LEFT	S2-A2	DS-CBA	145

Undervoltage release for S280 series (right or left side mounted)

Control voltage	Mounting side	Part number	Discount schedule	Weight
[V]				[g]
12VDC	RIGHT or LEFT	S2-UA12	DS-CBA	90
24V AC/DC	RIGHT or LEFT	S2-UA24	DS-CBA	90
48VAC	RIGHT or LEFT	S2-UA48	DS-CBA	90
110V AC/DC	RIGHT or LEFT	S2-UA110	DS-CBA	90
220V AC/DC	RIGHT or LEFT	S2-UA220	DS-CBA	90
380V AC	RIGHT or LEFT	S2-UA380	DS-CBA	90

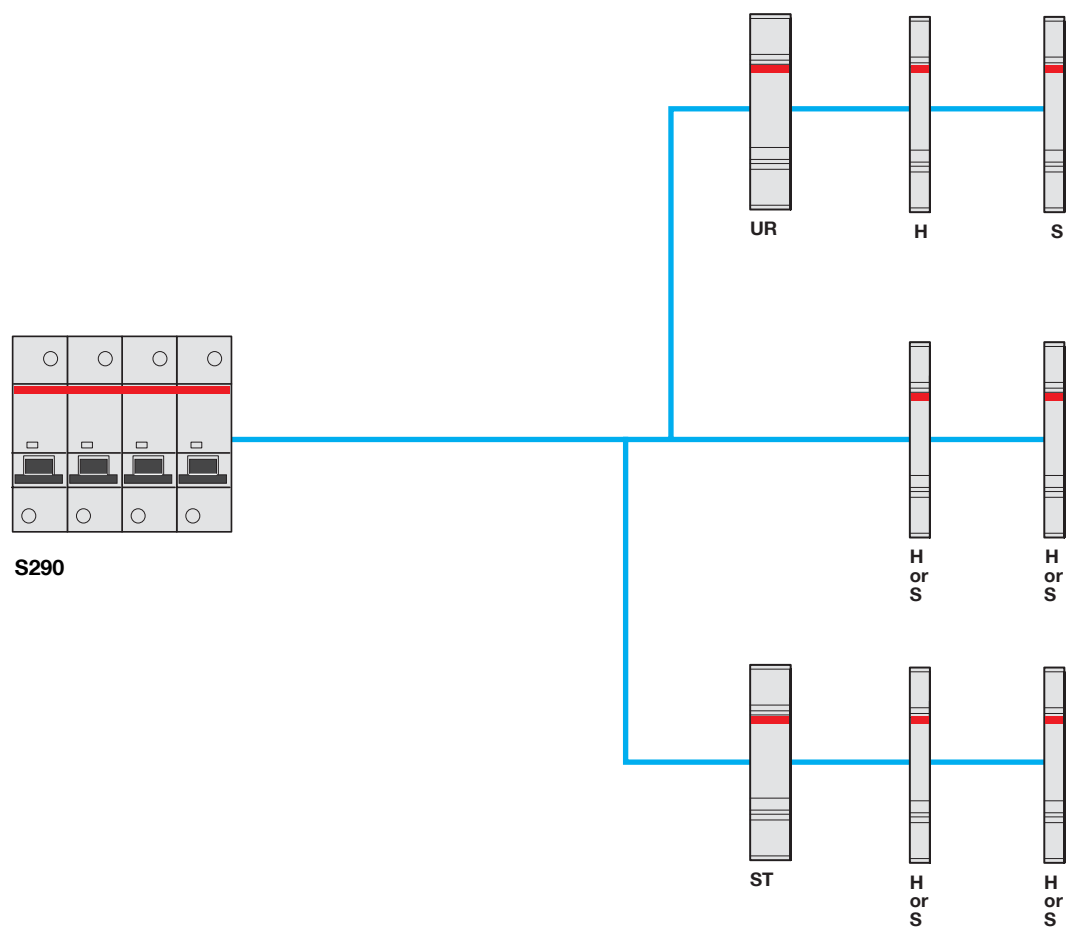
Hand operated neutral for S280 series (left side mounted)

Description	Mounting side	Part number	Discount schedule	Weight
				[g]
Hand operated neutral	LEFT	S2-NT	DS-CBA	60

The hand operated neutral has to be mounted to the left side of the MCB and be snapped on the DIN rail. It is used for measuring duties where the neutral conductor must be in the open position. Due to the special design of the handle - when switching ON the MCB – the neutral will make before the MCB is closed. The S2C - NT is not to switch with a tool (screw driver).

Auxiliary elements and accessories

System Pro M Compact



Details	
H	Auxiliary contact
S	Signal contact (BA)
UR	Undervoltage release
ST	Shunt trip

Auxiliary elements and accessories

System Pro M Compact

Technical details signal shunt trips (UL / CSA approved)		S290-A1	S290-A2
Rated voltage in AC	[V]	110..415VAC / 110VDC	24..48V AC/DC
Max. release duration	[ms]	< 10	< 10
Consumption	[W]	110V AC/DC: 8, 415VAC : 153	24V AC/DC: 23, 48V AC/DC: 108
Terminals	[mm ²]	Solid: 2x1.5, stranded: 2x1	Solid: 2x1.5, stranded: 2x1
Tightening torque	[Nm]	2	2
Dimensions (W x D x H)	[mm]	17.5 x 68 x 90	17.5 x 68 x 90

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Technical details auxiliary contacts / signal contact (UL / CSA approved)		S290-H11	S290-S
Description		1 NO + 1 NC	Bell alarm
Rated voltage AC	[V]	230 / 400VAC	
Rated amperage AC	[A]	6 / 2	
Rated voltage DC	[V]	24 / 60 / 110 / 220	
Rated amperage DC	[A]	6 / 3 / 1 / 1	
Min. operating voltage	[V]	12V AC/DC	
Min. operating current	[mA]	5	
Terminals	[mm ²]	Solid: 0.4 (#12 AWG), stranded: 2.5 (#14 AWG)	
Dielectric strength	[kA]	3	
Resistance to short circuit	[A]	1000	
Impulse voltage withstand capacity	[kA]	4	
Tightening torque	[Nm]	0.5	
Dimensions (W x D x H)	[mm]	8.75 x 68 x 90	

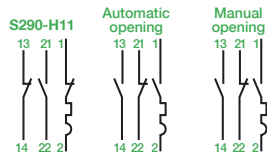
Technical details auxiliary contacts / signal contact (UL / CSA approved)		S290-UA24	S290-UA110	S290-UA230
Rated voltage	[V]	24VDC	110VDC	230VAC
Consumption	[W]	2.3	1.74	1.44
Frequency	[Hz]	50-60		
Release trip	[V]	$0.35 \leq V \leq 0.7U_n$		
Terminals	[mm ²]	2x 1.5 (2x #16 AWG)		
Resistance to corrosion	[°C/RH]	Const. climatic cond. 23/83 - 40/93 - 55/20, var. climatic cond. 25/95 - 40-93		
Protection degree		IP20		
Tightening torque	[Nm]	0.4		
Dimensions (W x D x H)	[mm]	17.5 x 68 x 90		

Auxiliary elements and accessories

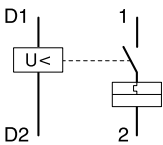
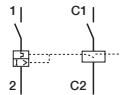
System Pro M Compact



S290-H11



S 290 A1
S 290 A2



Auxiliary contacts / signal contact for S290 series (Right side mounting)				
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
1 NO + 1 NC	RIGHT	S290-H11	DS-CBA	50
BA	RIGHT	S290-S11	DS-CBA	50

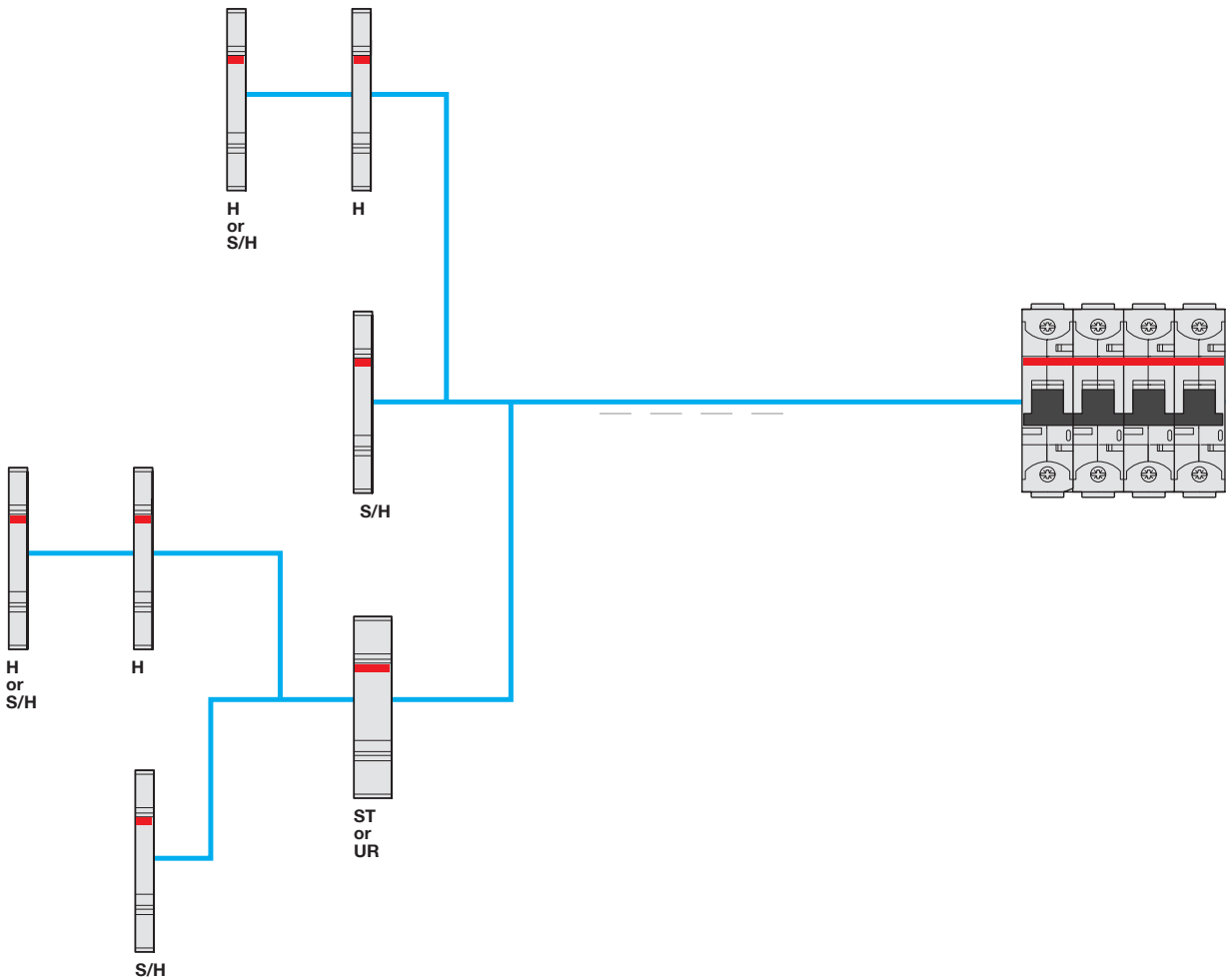
Shunt trips for S290 series (Right side mounted)				
Control voltage [V]	Mounting side	Part number	Discount schedule	Weight [g]
110-415VAC / 110VDC	RIGHT	S290-A1	DS-CBA	90
24-48V AC/DC	RIGHT	S290-A2	DS-CBA	90

Undervoltage release for S290 series (Right side mounted)				
Control voltage [V]	Mounting side	Part number	Discount schedule	Weight [g]
24VDC	RIGHT	S290-UA24	DS-CBA	90
110VDC	RIGHT	S290-UA110	DS-CBA	90
230VAC	RIGHT	S290-UA230	DS-CBA	90

Auxiliary elements and accessories

System Pro M Compact

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Details	
H	Auxiliary contact
S/H	Signal/aux. contact
UR	Undervoltage release
ST	Shunt trip

Auxiliary elements and accessories

System Pro M Compact

Technical details auxiliary contacts / signal contact (UL / CSA approved)		S800-AUX	S800-AUX/ALT
Description		2 form C	1 form C + Bell alarm
Utilization categorie AC15	[A]	400V: 2A, 240V: 6A	
Utilization categorie DC13	[A]	250V: 0.55A, 125V: 1.1A, 60V: 2A, 24V: 4A	
Rated AC values according to UL489	[A]	125V: 6A, 250V: 5A	
Rated DC values according to UL489	[A]	24V: 4A, 125V: 0.3A, 250V: 0.15A	
Continuous thermal current I _n	[A]	6	
Rated insulation voltage U _i	[V]	690	
Number of contacts		2	
Rated impulse withstand voltage U _{imp}	[kV]	6	
Pollution degree		3	
Function of contact		form C (changeover contacts)	
Terminals	[mm ²]	1x 2.5; 2x1.5	
Tightening torque	[Nm]	1	
AC/DC supply		Any	
Mounting on DIN top hat rail		EN 60715	
Type of protection		IP20	
Permissible ambient temperature for operation	[°C]	-25...+60	
Storage temperature	[°C]	-40...+70	
Mechanical life		6000 switching cycles	
Resistance to vibration according to IEC60068-2-6; EN 61373 Cat 1 / class B		5g, 20 frequency cycle 5...150...5Hz at 24V AC/DC, 5mA brief interrupt <10ms	

Technical details undervoltage release (UL / CSA approved)		S800-UVR36	S800-UVR60	S800-UVR130	S800-UVR250
Rated voltage U _n	[V AC/DC]	24...36	48...60	110...130	220...250
Coil pull in consumption	[W / VA]	1.11...1.14 / 1.2	1.14...1.25 / 1.3	1.3...1.41 / 1.4	1.71...1.91 / 1.9
Operating range opening	[% U _n]	35...70			
Operating range closing	[% U _n]	85			
Rated insulation voltage U _i	[V]	690			
Rated frequency	[Hz]	50/60			
Pollution degree		3			
Standard		IEC 60947-2, UL489			
Terminals	[mm ²]	1...25 strand, 1...35 solid			
Tightening torque	[Nm]	min.3 / max.4			
AC/DC supply		Any			
DIN top hat rail		EN 60715			
Type of protection		IP20, IP40 (only actuation side)			
Permissible ambient temperature for operation	[°C]	-25...+60			
Storage temperature	[°C]	-40...+70			
Resistance to vibration according to IEC60068-2-6; EN 61373 Cat 1 / class B		5g, 20 frequency cycle 5...150...5Hz at 24V AC/DC, 5mA brief interrupt <10ms			

Auxiliary elements and accessories

System Pro M Compact

Technical details shunt trips		S800-SOR24	S800-SOR130	S800-SOR250	S800-SOR400
Rated voltage U _n	[V AC/DC]	24	48...130	110...250	220...400/250
Coil pull in consumption	[W]	16.6	41.9...307.3	23...119	45...148.1
Operating range	[% U _n]	70...110			
Rated insulation voltage U _i	[V]	690			
Rated frequency	[Hz]	50/60			
Pollution degree		3			
Standard		IEC 60947-2, UL489, CSA			
Terminals	[mm ²]	1...25 strand, 1...35 solid			
Tightening torque	[Nm]	min.3 / max.4			
AC/DC supply		Any			
DIN top hat rail		EN 60715			
Type of protection		IP20, IP40 (only actuation side)			
Permissible ambient temperature for operation	[°C]	-25...+60			
Storage temperature	[°C]	-40...+70			
Resistance to vibration according to IEC60068-2-6; EN 61373 Cat 1 / class B		5g. 20 frequency cycle 5...150...5Hz at 24V AC/DC, 5mA brief interrupt <10ms			

Auxiliary elements and accessories

System Pro M Compact



S800-AUX



S800-AUX/ALT

Auxiliary contacts / signal contact for S800 series (Left side mounting)				
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
2 form C	LEFT	S800-AUX	DS-CB	49
1 form C + BA	LEFT	S800-AUX/ALT	DS-CB	50



S800-SOR12

Shunt trips for S800 series (Left side mounted)				
Control voltage [V]	Mounting side	Part number	Discount schedule	Weight [g]
12V AC/DC	LEFT	S800-SOR12	DS-CB	150
24V AC/DC	LEFT	S800-SOR24	DS-CB	150
48...130V AC/DC	LEFT	S800-SOR130	DS-CB	150
110...250V AC-DC	LEFT	S800-SOR250	DS-CB	150
220...400V AC/DC	LEFT	S800-SOR400	DS-CB	150



S800-UVR60

Undervoltage releases for S800 series (Left side mounted)				
Control voltage [V]	Mounting side	Part number	Discount schedule	Weight [g]
24...36V AC/DC	LEFT	S800-UVR36	DS-CB	150
48...60V AC/DC	LEFT	S800-UVR60	DS-CB	150
110...130V AC/DC	LEFT	S800-UVR130	DS-CB	150
220...250V AC/DC	LEFT	S800-UVR250	DS-CB	150

Auxiliary elements and accessories

System Pro M Compact



S800-RD

Rotary drive adaptor for S800 series (3-4 poles breakers)				
Description	Mounting side	Part number	Discount schedule	Weight [g]
Rotary drive adaptor	FRONT	S800-RD	DS-CB	80



S800-RHE-H

Rotary handle for S800 series (door mounted handle)				
Description	Mounting side	Part number	Discount schedule	Weight [g]
Anthracite rotary handle	DOOR	S800-RHE-H	DS-CB	210



S800-RHE-EM

Emergency rotary handle for S800 series (door mounted handle)				
Description	Mounting side	Part number	Discount schedule	Weight [g]
Red rotary handle	DOOR	S800-RHE-EM	DS-CB	210



S800-RHE-S

Shaft extension S800 series handle and adaptor				
Description	Mounting side	Part number	Discount schedule	Weight [g]
500mm shaft	DOOR	S800-RHE-S	DS-CB	190



S800-IP9

Intermediate piece S800 series handle and adaptor				
Description	Mounting side	Part number	Discount schedule	Weight [g]
9mm intermediate piece	RIGHT or LEFT	S800-IP9	DS-CB	11

Auxiliary elements and accessories

System Pro M Compact



S800-PLL

Padlock device for S800 series				
Description	Mounting side	Part number	Discount schedule	Weight [g]
4mm hasp padlock adapt.	TOGGLE	S800-PLL	DS-CB	1.5



S800U-PLL

UL Locking device for S800U series				
Description	Mounting side	Part number	Discount schedule	Weight [g]
UL locking device	RIGHT	S800U-PLL	DS-CB	30



S800-RT2125

Interchangeable adapter kit for S800 series (Ring tongue terminals)				
Description	Mounting side	Part number	Discount schedule	Weight [g]
Ring terminal conn. kit (2)	TOP/BOTTOM	S800-RT2125	DS-CB	30

Auxiliary elements and accessories

System Pro M Compact

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Technical details auxiliary contacts		S500-H11	S500-H20
Description		1NO / 1NC	2NO
Utilization categorie AC15	[A]	400V: 1A, 230V: 2A	
Utilization categorie DC13	[A]	250V: 0.55A, 125V: 1.1A	
Rated AC values according to UL489	[A]	120V: 3A, 240V: 1.5A, 480V: 6A	
Rated DC values according to UL489	[A]	12V: 0.01A, 125V: 0.5A	
Continuous thermal current I _n	[A]	6	
Rated insulation voltage U _i	[V]	690 (480V UL1077)	
Number of contacts		2	
Terminals	[mm ²]	2x 1.5 stranded, 2x 2.5 solid	
Tightening torque	[Nm]	0.8	
Approvals		SEV, cUR, UR	
Standards		IEC 60947-5-1, UL1077	

Technical details signal contact		S500-S11	S500-S20
Description		1NO / 1NC	2NO
Utilization categorie AC15	[A]	400V: 1A, 230V: 2A	
Utilization categorie DC13	[A]	250V: 0.55A, 125V: 1.1A	
Rated AC values according to UL489	[A]	120V: 3A, 240V: 1.5A, 480V: 6A	
Rated DC values according to UL489	[A]	12V: 0.01A, 125V: 0.5A	
Continuous thermal current I _n	[A]	6	
Rated insulation voltage U _i	[V]	690 (480V UL1077)	
Number of contacts		2	
Terminals	[mm ²]	2x 1.5 stranded, 2x 2.5 solid	
Tightening torque	[Nm]	0.8	
Approvals		SEV, cUR, UR	
Standards		IEC 60947-5-1, UL1077	

Auxiliary elements and accessories

System Pro M Compact





S500-H11



S500-H20

Auxiliary contacts S500 series (Left side mounting)				
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
1 NO + 1 NC	LEFT	S500-H11	DS-CB	60
2 NO	LEFT	S500-H20	DS-CB	60





S500-S11



S500-S20

Signal contacts S500 series (Left side mounting)				
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
Bell Alarm 1 NO + 1 NC	LEFT	S500-S11	DS-CB	60
Bell Alarm 2 NO	LEFT	S500-S20	DS-CB	60



Rotary drive adaptor for S500 series (Left side mounting)				
Contact type	Mounting side	Part number	Discount schedule	Weight [g]
Rotary adaptor	TOGGLE	S500-RD3	DS-CB	80

For your notes

4

Handwriting practice area with 20 horizontal dotted lines.

For your notes

Handwriting practice lines consisting of 20 horizontal dotted lines.

Modular protection devices

System Pro M Compact

Technical specifications OVR surge protective devices

Technical features OVR	5/2
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Part numbers for OVR surge protective devices

Type 2 pluggable OVR single phase systems	5/10
Type 2 pluggable OVR split phase systems	5/12
Type 2 pluggable OVR 3 phase DELTA systems	5/14
Type 2 pluggable OVR 3 phase WYE systems	5/16
Type 2 pluggable OVR telecom/dataline DC systems	5/18
Type 2 pluggable OVR for photovoltaic applications (IEC rated)	5/19

Technical specifications fuseholder devices

Technical features E90, E90H and E90PV	5/20
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Part numbers for fuseholder devices

E90 fuse switch disconnectors for midget class fuses	5/21
E90 fuseholders for midget class fuses	5/21
E90 fuseholders for CC class fuses	5/21
E90 fuse switch disconnectors for photovoltaic applications (IEC rated)	5/22

Introduction

System Pro M Compact

Electrical features		OVRT2   PU (TS)							
Discharge type		15	40	15	40	40	40	40	70
Maximum discharge current $I_{\max}$ (8/20)	[kA]	15	40	15	40	40	40	40	70
Nominal discharge current I_n (8/20)	[kA]	5	20	5	20	10	20	20	20
Voltage protection rating V_{PR}	[kV]	0.6	0.6	1	1	1.3	1.7	1.9	1.2
Residual voltage protection level U_{res} at 10 kA	[kV]	0.8	0.8	1.2	1.2	1.5	2	2.2	0.7
Residual voltage protection level U_{res} at 5 kA	[kV]	0.7	0.7	1.1	1.1	1.4	1.8	2	0.6
Residual voltage protection level U_{res} at 3kA	[kV]	0.6	0.6	1	1	1.3	1.7	1.9	0.4
Voltage Type		150		320		440	550	660	N
Nominal voltage U_n	[V]	120		277		347	480	600	230
Max. cont. operating voltage U_c	[V]	150		320		440	550	660	255
Type of current		AC only							
Follow current interrupting rating I_f	[kA _{ms}]	None							
Response time	[ns]	< 25							
Operating current I_o	[mA]	< 0.1							
Short-circuit withstand capability I_{scr}	[kA]	200							
Poles		1							
Type / test class		Type 2 / II (pluggable)							
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked							

Mechanical features		
Stocking and operating temperature	[°C]	-40 to +80
Degree of protection		IP 20 / NEMA 1
Fire resistance according to UL 94		VO
Material of Housing		PC grey RAL 7035
Pluggable cartridge		Yes
Integrated thermal disconnect		Yes
State indicator		Yes
Safety reserve		No
TS remote indicator		Option (TS)
Solid wire range	[mm²]	2.5 ... 25 (#4AWG ... #14AWG)
Stranded wire range	[mm²]	2.5 ... 16 (#6AWG ... #14AWG)
Stripping length	[mm]	12.5 (0.5 in)
Tightening torque	[Nm]	2.8 (24.5 in.lb)

Integrated auxiliary contact (optional)		TS
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)
Min. load		12V D.C. - 10 mA
Max. load		250V A.C. - 1 A
Continuous operating current	[mA]	None
Connection cross-section	[mm²]	1.5 (#16AWG)

Modular protection devices

System Pro M Compact

Electrical features		OVRT2    PU (TS)						
Network type		1N	1N	1N	1N	1N	1N	1N
Discharge type		15	40	15	40	40	40	70
Maximum discharge current I_{max} (8/20)	[kA]	15	40	15	40	40	40	70
Nominal discharge current I_n (8/20)	[kA]	5	20	5	20	10	20	20
Voltage protection rating V_{PR} (L-N)	[kV]	0.6	0.6	1	1	1.3	1.7	1.9
Residual voltage protection level U_{res} at 10 kA (L-N)	[kV]	0.8	0.8	1.2	1.2	1.5	2	2.2
Residual voltage protection level U_{res} at 5 kA (L-N)	[kV]	0.7	0.7	1.1	1.1	1.4	1.8	2
Residual voltage protection level U_{res} at 3kA (L-N)	[kV]	0.6	0.6	1	1	1.3	1.7	1.9
Voltage Type		150	150	320	320	440	550	660
Nominal voltage U_n (L-N)	[V]	120	120	277	277	347	480	600
Max. cont. operating voltage U_c (L-N)	[V]	175	175	320	320	440	550	660
Type of current		AC only						
Follow current interrupting rating I_f (L-N/L-G)	[kA _{imp}]	None / 100						
Response time	[ns]	< 25						
Operating current I_c	[mA]	< 0.1						
Short-circuit withstand capability I_{scr}	[kA]	200						
Poles		1+N						
Type / test class		Type 2 / II (pluggable)						
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked						
Mechanical features								
Stocking and operating temperature	[°C]	-40 to +80						
Degree of protection		IP 20 / NEMA 1						
Fire resistance according to UL 94		V0						
Material of Housing		PC grey RAL 7035						
Pluggable cartridge		Yes						
Integrated thermal disconnect		Yes						
State indicator		Yes						
Safety reserve		No						
TS remote indicator		Option (TS)						
Solid wire range	[mm ²]	2.5 ... 25 (#4AWG ... #14AWG)						
Stranded wire range	[mm ²]	2.5 ... 16 (#6AWG ... #14AWG)						
Stripping length	[mm]	12.5 (0.5 in)						
Tightening torque	[Nm]	2.8 (24.5 in.lb)						
Integrated auxiliary contact (optional)		TS						
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)						
Min. load		12V D.C. - 10 mA						
Max. load		250V A.C. - 1 A						
Continuous operating current	[mA]	None						
Connection cross-section	[mm ²]	1.5 (#16AWG)						

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Introduction

System Pro M Compact

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Electrical features		OVRT2 PU (TS)			
Network type		2L	2L	2L	2L
Discharge type		15	40	15	40
Maximum discharge current I_{max} (8/20)	[kA]	15	40	15	40
Nominal discharge current I_n (8/20)	[kA]	5	20	5	20
Voltage protection rating V_{PR}	[kV]	0.6	0.6	1.0	1.0
Residual voltage protection level U_{res} at 10 kA	[kV]	0.8	0.8	1.2	1.2
Residual voltage protection level U_{res} at 5 kA	[kV]	0.7	0.7	1.1	1.1
Residual voltage protection level U_{res} at 3kA	[kV]	0.6	0.6	1.0	1.0
Voltage Type		150	150	320	320
Nominal voltage U_n	[V]	120	120	277	277
Max. cont. operating voltage U_c	[V]	175	175	320	320
Type of current		AC only			
Follow current interrupting rating I_f	[kA _{mp}]	None			
Response time	[ns]	< 25			
Operating current I_o	[mA]	< 0.1			
Short-circuit withstand capability I_{scr}	[kA]	200			
Poles		2			
Type / test class		Type 2 / II (pluggable)			
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked			

Mechanical features		
Stocking and operating temperature	[°C]	-40 to +80
Degree of protection		IP 20 / NEMA 1
Fire resistance according to UL 94		V0
Material of Housing		PC grey RAL 7035
Pluggable cartridge		Yes
Integrated thermal disconnecter		Yes
State indicator		Yes
Safety reserve		No
TS remote indicator		Option (TS)
Solid wire range	[mm²]	2.5 ... 25 (#4AWG ... #14AWG)
Stranded wire range	[mm²]	2.5 ... 16 (#6AWG ... #14AWG)
Stripping length	[mm]	12.5 (0.5 in)
Tightening torque	[Nm]	2.8 (24.5 in.lb)

Integrated auxiliary contact (optional)		TS
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)
Min. load		12V D.C. - 10 mA
Max. load		250V A.C. - 1 A
Continuous operating current	[mA]	None
Connection cross-section	[mm²]	1.5 (#16AWG)

Modular protection devices

System Pro M Compact

Electrical features		OVRT2    PU (TS)							
Network type		2N	2N	2N	2N	2N	2N	2N	2N
Discharge type		15	40	15	40	40	40	40	70
Maximum discharge current I_{max} (8/20)	[kA]	15	40	15	40	40	40	40	70
Nominal discharge current I_n (8/20)	[kA]	5	20	5	20	10	10	10	20
Voltage protection rating V_{PR} (L-N/N-G/L-G)	[kV]	0.6/1.2/0.7	1.0/1.2/1.1	1.3/1.2/1.4	1.7/1.2/1.8	1.9/1.2/2.0	1.2		
Residual voltage protection level U_{res} at 10 kA (L-N/N-G/L-G)	[kV]	0.8/0.7/0.8	1.2/0.7/1.2	1.5/0.7/1.5	2.0/0.7/2.0	2.2/0.7/2.2	0.7		
Residual voltage protection level U_{res} at 5 kA (L-N N-G/L-G)	[kV]	0.7/0.6/0.7	1.1/0.6/1.1	1.4/0.6/1.4	1.8/0.6/1.8	2.0/0.6/2.0	0.6		
Residual voltage protection level U_{res} at 3kA (L-N N-G/L-G)	[kV]	0.6/0.4/0.6	1.0/0.4/1.0	1.3/0.4/1.3	1.7/0.4/1.7	1.9/0.4/1.9	0.4		
Voltage Type		150	320	440	550	660	N		
Nominal voltage U_n (L-N/L-L)	[V]	120/240	277/480	347/600	480/600	600/600	230		
Max. cont. operating voltage U_c (L-N/L-L)	[V]	175/350	320/640	440/880	550/1100	660/1320	255		
Type of current		AC only							
Follow current interrupting rating I_f (L-N/L-G)	[kA _{ms}]	None / 100							
Response time	[ns]	< 25							
Operating current I_c	[mA]	< 0.1							
Short-circuit withstand capability I_{scw}	[kA]	200							
Poles		2+N							
Type / test class		Type 2 / II (pluggable)							
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked							

Mechanical features		
Stocking and operating temperature	[°C]	-40 to +80
Degree of protection		IP 20 / NEMA 1
Fire resistance according to UL 94		V0
Material of Housing		PC grey RAL 7035
Pluggable cartridge		Yes
Integrated thermal disconnecter		Yes
State indicator		Yes
Safety reserve		No
TS remote indicator		Option (TS)
Solid wire range	[mm²]	2.5 ... 25 (#4AWG ... #14AWG)
Stranded wire range	[mm²]	2.5 ... 16 (#6AWG ... #14AWG)
Stripping length	[mm]	12.5 (0.5 in)
Tightening torque	[Nm]	2.8 (24.5 in.lb)

Integrated auxiliary contact (optional)		TS
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)
Min. load		12V D.C. - 10 mA
Max. load		250V A.C. - 1 A
Continuous operating current	[mA]	None
Connection cross-section	[mm²]	1.5 (#16AWG)

Introduction

System Pro M Compact

Electrical features		OVRT2    PU (TS)					
Network type		3L	3L	3L	3L	3L	3L
Discharge type		15	40	15	40	40	40
Maximum discharge current I _{max} (8/20)	[kA]	15	40	15	40	40	40
Nominal discharge current I _n (8/20)	[kA]	5	20	5	20	10	10
Voltage protection rating V _{PR}	[kV]	0.6	0.6	1.0	1.0	1.3	1.7
Residual voltage protection level U _{res} at 10 kA	[kV]	0.8	0.8	1.2	1.2	1.5	2.0
Residual voltage protection level U _{res} at 5 kA	[kV]	0.7	0.7	1.1	1.1	1.4	1.8
Residual voltage protection level U _{res} at 3kA	[kV]	0.6	0.6	1.0	1.0	1.3	1.7
Voltage Type		150		320		440	550
Nominal voltage U _n (L-N/L-L)	[V]	120/208		277/480		347/600	
Max. cont. operating voltage U _c (L-N/L-L)	[V]	175/350		320/640		440/880	
Type of current		AC only					
Follow current interrupting rating I _f	[kA _{res}]	None					
Response time	[ns]	< 25					
Operating current I _c	[mA]	< 0.1					
Short-circuit withstand capability I _{scor}	[kA]	200					
Poles		2+N					
Type / test class		Type 2 / II (pluggable)					
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked					

Mechanical features		
Stocking and operating temperature	[°C]	-40 to +80
Degree of protection		IP 20 / NEMA 1
Fire resistance according to UL 94		V0
Material of Housing		PC grey RAL 7035
Pluggable cartridge		Yes
Integrated thermal disconnecter		Yes
State indicator		Yes
Safety reserve		No
TS remote indicator		Option (TS)
Solid wire range	[mm²]	2.5 ... 25 (#4AWG ... #14AWG)
Stranded wire range	[mm²]	2.5 ... 16 (#6AWG ... #14AWG)
Stripping length	[mm]	12.5 (0.5 in)
Tightening torque	[Nm]	2.8 (24.5 in.lb)

Integrated auxiliary contact (optional)		TS
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)
Min. load		12V D.C. - 10 mA
Max. load		250V A.C. - 1 A
Continuous operating current	[mA]	None
Connection cross-section	[mm²]	1.5 (#16AWG)

Modular protection devices

System Pro M Compact

Electrical features		OVRT2    PU (TS)							
Network type									
Discharge type									
Maximum discharge current $I_{\max}$ (8/20)	[kA]	15	40	15	40	40	40	40	70
Nominal discharge current I_n (8/20)	[kA]	5	20	5	20	10	10	10	20
Voltage protection rating V_{reg} (L-N/N-G/L-G)	[kV]	0.6/1.2/0.7		1.0/1.2/1.1		1.3/1.2/1.4		1.7/1.2/1.8	
Residual voltage protection level U_{reg} at 10 kA (L-N/N-G/L-G)	[kV]	0.8/0.7/0.8		1.2/0.7/1.2		1.5/0.7/1.5		2.0/0.7/2.0	
Residual voltage protection level U_{reg} at 5 kA (L-N N-G/L-G)	[kV]	0.7/0.6/0.7		1.1/0.6/1.1		1.4/0.6/1.4		1.8/0.6/1.8	
Residual voltage protection level U_{reg} at 3kA (L-N N-G/L-G)	[kV]	0.6/0.4/0.6		1.0/0.4/1.0		1.3/0.4/1.3		1.7/0.4/1.7	
Voltage Type									
Nominal voltage U_n (L-N/L-L)	[V]	120/208		277/480		347/600		480/600	
Max. cont. operating voltage U_c (L-N/L-L)	[V]	175/350		320/640		440/880		550/1100	
Type of current		AC only							
Follow current interrupting rating I_f (L-N/L-G)	[kA _{ms}]	None / 100							
Response time	[ns]	< 25							
Operating current I_c	[mA]	< 0.1							
Short-circuit withstand capability I_{scrr}	[kA]	200							
Poles		2+N							
Type / test class		Type 2 / II (pluggable)							
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked							
Mechanical features									
Stocking and operating temperature	[°C]	-40 to +80							
Degree of protection		IP 20 / NEMA 1							
Fire resistance according to UL 94		V0							
Material of Housing		PC grey RAL 7035							
Pluggable cartridge		Yes							
Integrated thermal disconnecter		Yes							
State indicator		Yes							
Safety reserve		No							
TS remote indicator		Option (TS)							
Solid wire range	[mm²]	2.5 ... 25 (#4AWG ... #14AWG)							
Stranded wire range	[mm²]	2.5 ... 16 (#6AWG ... #14AWG)							
Stripping length	[mm]	12.5 (0.5 in)							
Tightening torque	[Nm]	2.8 (24.5 in.lb)							
Integrated auxiliary contact (optional)		TS							
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)							
Min. load		12V D.C. - 10 mA							
Max. load		250V A.C. - 1 A							
Continuous operating current	[mA]	None							
Connection cross-section	[mm²]	1.5 (#16AWG)							

Introduction

System Pro M Compact

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Electrical features		OVRTC- VUS					
Voltage type		06	12	24	48	200FR	200
Nominal voltage U_n (L-N/L-L)	[V]	6	12	24	48	200	200
Type of current		DC	DC	DC	DC	DC	DC
Max. cont. operating voltage U_c (L-N/L-L)	[V]	7	14	27	53	220	220
Maximum discharge current I_{max} (8/20)	[kA]	10	10	10	10	10	10
Nominal discharge current I_n (8/20)	[kA]	5	5	5	5	5	5
Voltage protection rating V_{PR}	[kV]	15	20	35	70	300	700
AC endurance	[A]	10	10	10	10	10	-
Series endurance	[Ω]	10	10	10	10	10	-
Cut frequency	[Mhz]	10	2	4	6	3	100
Response time	[ns]	< 1 (< 100 for OVRTC-200VUS type)					
Operating current I_o	[mA]	140 (none for OVRTC-200VUS type)					
Type / Test class		TC / C2					
Poles		1 pair					
Protection mode		Series (parallel for OVRTC-200VUS)					
Standard		IEC 61643-1 - UL1449 Ed3: Type 4 CA for Type 2, cURus marked					

Mechanical features		
Stocking and operating temperature	[°C]	-40 to +80
Degree of protection		IP 20 / NEMA 1
Fire resistance according to UL 94		V0
Material of Housing		PC grey RAL 7035
Pluggable cartridge		No
Integrated thermal disconnecter		No
State indicator		No
Safety reserve		No
TS remote indicator		No
Solid wire range	[mm²]	0.5 ... 2.5 (#20AWG ... #4AWG)
Stranded wire range	[mm²]	0.5 ... 2.5 (#20AWG ... #4AWG)
Stripping length	[mm]	6
Tightening torque	[Nm]	0.2

Modular protection devices

System Pro M Compact

Electrical features		OVRPV  -  P (TS)	
Discharge type		40	40
Maximum discharge current I_{max} (8/20)	[kA]	40	40
Nominal discharge current I_n (8/20)	[kA]	20	20
Voltage protection rating V_{PR}	[kV]	1.4	3.8
Residual voltage protection level U_{res} at 10 kA	[kV]	-	-
Residual voltage protection level U_{res} at 5 kA	[kV]	-	-
Residual voltage protection level U_{res} at 3kA	[kV]	-	-
Voltage Type		600	1000
Nominal voltage U_n	[V]	600	1000
Max. cont. operating voltage U_c	[V]	670	1000
Type of current		DC Only	
Follow current interrupting rating I_f	[kA _{max}]	None	
Response time	[ns]	< 25	
Operating current I_c	[mA]	< 0.05	
Short-circuit withstand capability I_{scr}	[kA]	100	
Poles		3	
Type / test class		Type 2 / II (pluggable)	
Standard		IEC 61643-1 / IEC 61643-11, UTE C 61-740-51	

Mechanical features		
Stocking and operating temperature	[°C]	-40 to +80
Degree of protection		IP 20
Fire resistance according to UL 94		V0
Material of Housing		PC grey RAL 7035
Pluggable cartridge		Yes
Integrated thermal disconnecter		Yes (specific PV)
State indicator		Yes
Safety reserve		No
TS remote indicator		Option (TS)
Solid wire range	[mm²]	2.5 ... 25 (#4AWG ... #14AWG)
Stranded wire range	[mm²]	2.5 ... 16 (#6AWG ... #14AWG)
Stripping length	[mm]	12.5 (0.5 in)
Tightening torque	[Nm]	2.8 (24.5 in.lb)

Integrated auxiliary contact (optional)		TS
Contact complement		1NO (1 make contact), +1NC (1 normally closed contact)
Min. load		12V D.C. - 10 mA
Max. load		250V A.C. - 1 A
Continuous operating current	[mA]	None
Connection cross-section	[mm²]	1.5 (#16AWG)

Introduction

System Pro M Compact



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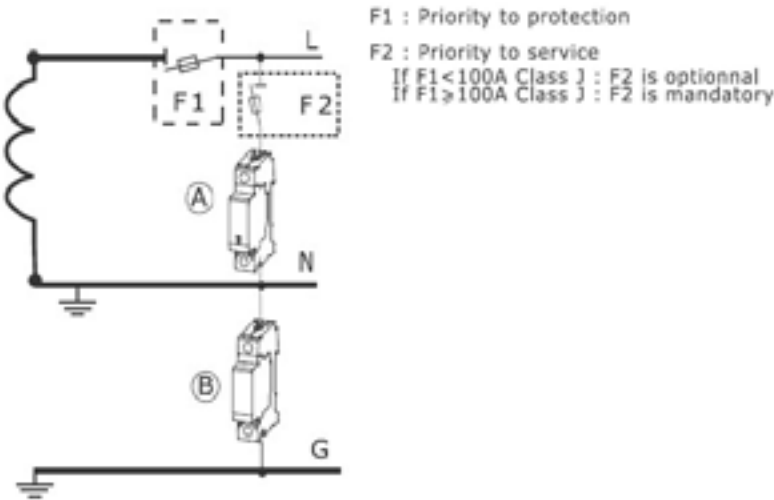
Type 2 OVR, Pluggable for single phase systems (1P)

Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	120VAC	15	A	OVRT215-150PU	DS-CB	120
1	120VAC	40	A	OVRT240-150PU	DS-CB	120
1	120VAC	40	A	OVRT240-150PTSU ⁽¹⁾	DS-CB	140
1	240VAC	15	A	OVRT215-320PU	DS-CB	120
1	240VAC	40	A	OVRT240-320PU	DS-CB	120
1	240VAC	40	A	OVRT240-320PTSU	DS-CB	140
1	277VAC	15	A	OVRT215-320PU	DS-CB	120
1	277VAC	40	A	OVRT240-320PU	DS-CB	120
1	277VAC	40	A	OVRT240-320PTSU ⁽¹⁾	DS-CB	140
1	347VAC	40	A	OVRT240-440PTSU ⁽¹⁾	DS-CB	140
1	ALL	70	B	OVRT270-NPU	DS-CB	120

(1) TS contact for remote status of the surge protective device included

Type 2 OVR, Replacement cartridges

Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	150VAC	15	A	OVRT215-150CU	DS-CB	100
1	150VAC	40	A	OVRT240-150CU	DS-CB	100
1	320VAC	15	A	OVRT215-320CU	DS-CB	100
1	320VAC	40	A	OVRT240-320CU	DS-CB	100
1	440VAC	40	A	OVRT240-440CU	DS-CB	100
1	255VAC	70	B	OVRT270-NCU	DS-CB	50



Modular protection devices

System Pro M Compact

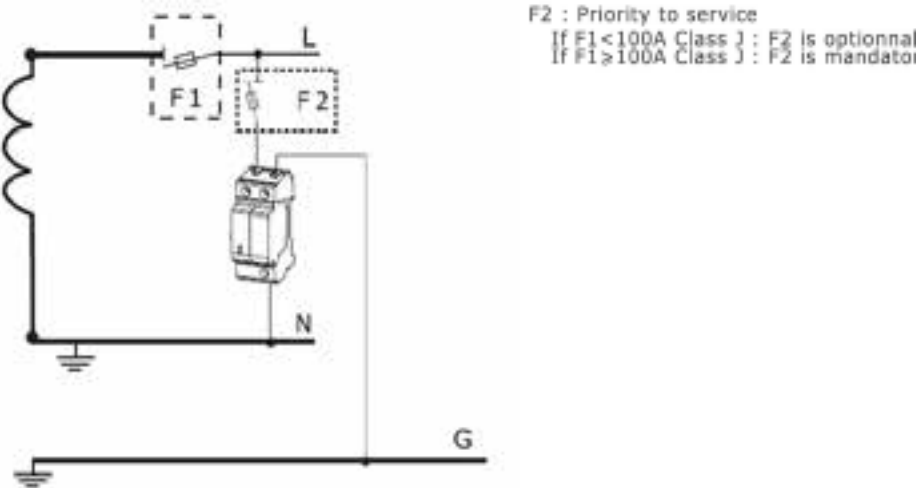


Type 2 OVR, Pluggable for single phase systems (1P+N)						
Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1+N	120VAC	15	1N	OVRT21N15150PU	DS-CB	240
1+N	120VAC	40	1N	OVRT21N40150PTSU ⁽¹⁾	DS-CB	240
1+N	240VAC	15	1N	OVRT21N15320PU	DS-CB	240
1+N	240VAC	40	1N	OVRT21N40320PTSU	DS-CB	240
1+N	277VAC	15	1N	OVRT21N15320PU	DS-CB	240
1+N	277VAC	40	1N	OVRT21N40320PTSU ⁽¹⁾	DS-CB	240
1+N	347VAC	40	1N	OVRT21N40440PTSU ⁽¹⁾	DS-CB	240

(1) TS contact for remote status of the surge protective device included



Type 2 OVR, Replacement cartridges						
Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	150VAC	15	1N	OVRT215-150CU	DS-CB	100
1	150VAC	40	1N	OVRT240-150CU	DS-CB	100
1	320VAC	15	1N	OVRT215-320CU	DS-CB	100
1	320VAC	40	1N	OVRT240-320CU	DS-CB	100
1	440VAC	40	1N	OVRT240-440CU	DS-CB	100
1	255VAC	70	1N	OVRT270-NCU	DS-CB	50



Introduction

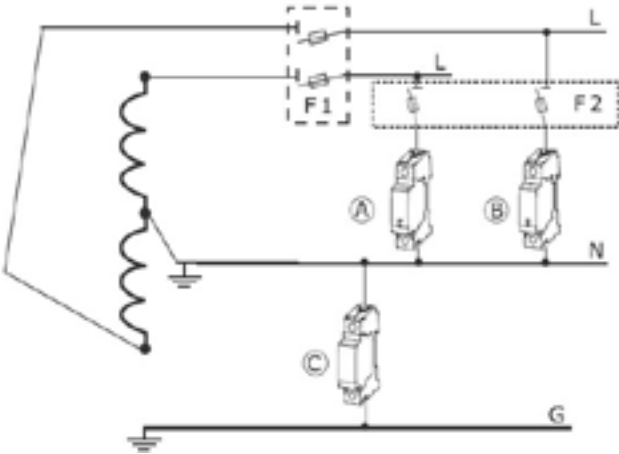
System Pro M Compact



Type 2 OVR, Pluggable for split phase systems (1P)						
Poles	System nominal voltage	Maximum discharge	Type	Part number	Discount schedule	Weight
[Nbr]	[V]	[kA]				[g]
1	240/120VAC	15	A,B	OVRT215-150PU	DS-CB	120
1	240/120VAC	40	A,B	OVRT240-150PU	DS-CB	120
1	240/120VAC	40	A,B	OVRT240-150PTSU ⁽¹⁾	DS-CB	140
1	ALL	70	C	OVRT270-NPU	DS-CB	120

(1) TS contact for remote status of the surge protective device included

Type 2 OVR, Replacement cartridges						
Poles	Max.operating voltage	Maximum discharge	Type	Part number	Discount schedule	Weight
[Nbr]	[V]	[kA]				[g]
1	150VAC	15	A,B	OVRT215-150CU	DS-CB	100
1	150VAC	40	A,B	OVRT240-150CU	DS-CB	100
1	255VAC	70	C	OVRT270-NCU	DS-CB	50



F1 : Priority to protection
 F2 : Priority to service
 If F1<100A Class J : F2 is optionnal
 If F1≥100A Class J : F2 is mandatory

Modular protection devices

System Pro M Compact



Type 2 OVR, Pluggable for Split phase systems (2P)

Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
2	120VAC	15	2L	OVRT22L15150PU	DS-CB	360
2	120VAC	40	2L	OVRT22L40150PTSU ⁽¹⁾	DS-CB	360
2	277VAC	15	2L	OVRT22L15320PU	DS-CB	240
2	277VAC	40	2L	OVRT22L40320PTSU ⁽¹⁾	DS-CB	240

(1) TS contact for remote status of the surge protective device included



Type 2 OVR, Pluggable for split phase systems (2P+N)

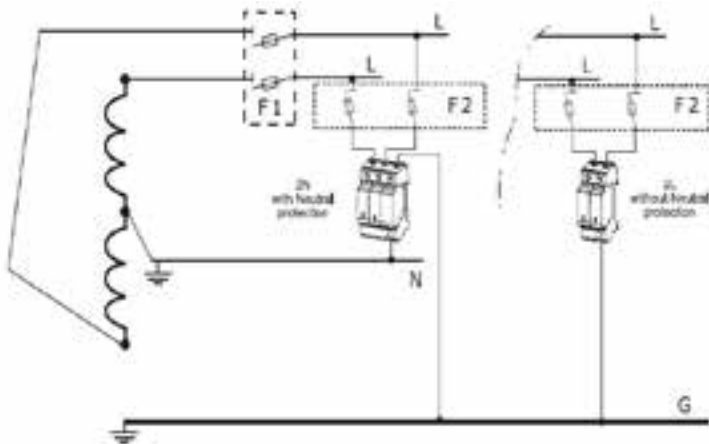
Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
2+N	240/120VAC	15	2N	OVRT22N15150PU	DS-CB	120
2+N	240/120VAC	40	2N	OVRT22N40150PTSU ⁽¹⁾	DS-CB	120
2+N	480/277VAC	15	2N	OVRT22N15320PU	DS-CB	120
2+N	480/277VAC	40	2N	OVRT22N40320PTSU ⁽¹⁾	DS-CB	120
2+N	600/347VAC	40	2N	OVRT22N40440PTSU ⁽¹⁾	DS-CB	120
2+N	600/480VAC	40	2N	OVRT22N40550PTSU ⁽¹⁾	DS-CB	120
2+N	600/600VAC	40	2N	OVRT22N40660PTSU ⁽¹⁾	DS-CB	120

(1) TS contact for remote status of the surge protective device included



Type 2 OVR, Replacement cartridges

Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	150VAC	15	2N,2L	OVRT215-150CU	DS-CB	100
1	150VAC	40	2N,2L	OVRT240-150CU	DS-CB	100
1	320VAC	15	2N,2L	OVRT215-320CU	DS-CB	100
1	320VAC	40	2N,2L	OVRT240-320CU	DS-CB	100
1	440VAC	40	2N,2L	OVRT240-440CU	DS-CB	100
1	550VAC	40	2N,2L	OVRT240-550CU	DS-CB	100
1	660VAC	40	2N,2L	OVRT240-660CU	DS-CB	100
1	255VAC	70	2N	OVRT270-NCU	DS-CB	50



F1 : Priority to protection
 F2 : Priority to service
 If F1<100A Class) : F2 is optional
 If F1≥100A Class) : F2 is mandatory

Introduction

System Pro M Compact

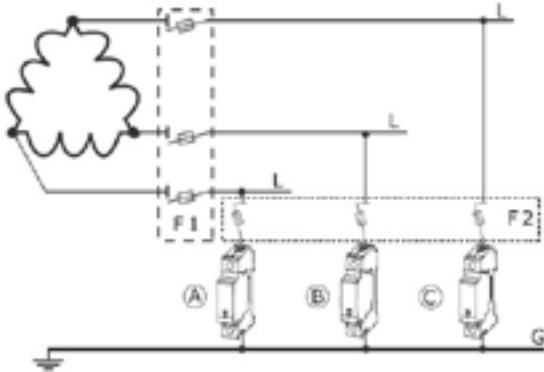


Type 2 OVR, Pluggable for 3 phase DELTA systems (1P)						
Poles	System nominal voltage	Maximum discharge	Type	Part number	Discount schedule	Weight
[Nbr]	[V]	[kA]				[g]
1	240VAC	15	A,B,C	OVRT215-320PU	DS-CB	120
1	240VAC	40	A,B,C	OVRT240-320PU	DS-CB	120
1	240VAC	40	A,B,C	OVRT240-320PTSU ⁽¹⁾	DS-CB	140
1	480VAC	40	A,B,C	OVRT240-550PTSU ⁽¹⁾	DS-CB	140
1	600VAC	40	A,B,C	OVRT240-660PTSU ⁽¹⁾	DS-CB	140

(1) TS contact for remote status of the surge protective device included



Type 2 OVR, Replacement cartridges						
Poles	Max.operating voltage	Maximum discharge	Type	Part number	Discount schedule	Weight
[Nbr]	[V]	[kA]				[g]
1	320VAC	15	A,B,C	OVRT215-320CU	DS-CB	100
1	320VAC	40	A,B,C	OVRT240-320CU	DS-CB	100
1	550VAC	40	A,B,C	OVRT240-550CU	DS-CB	100
1	660VAC	40	A,B,C	OVRT240-660CU	DS-CB	100



F1 : Priority to protection
 F2 : Priority to service
 If F1<100A Class J : F2 is optionnal
 If F1>100A Class J : F2 is mandatory

Modular protection devices

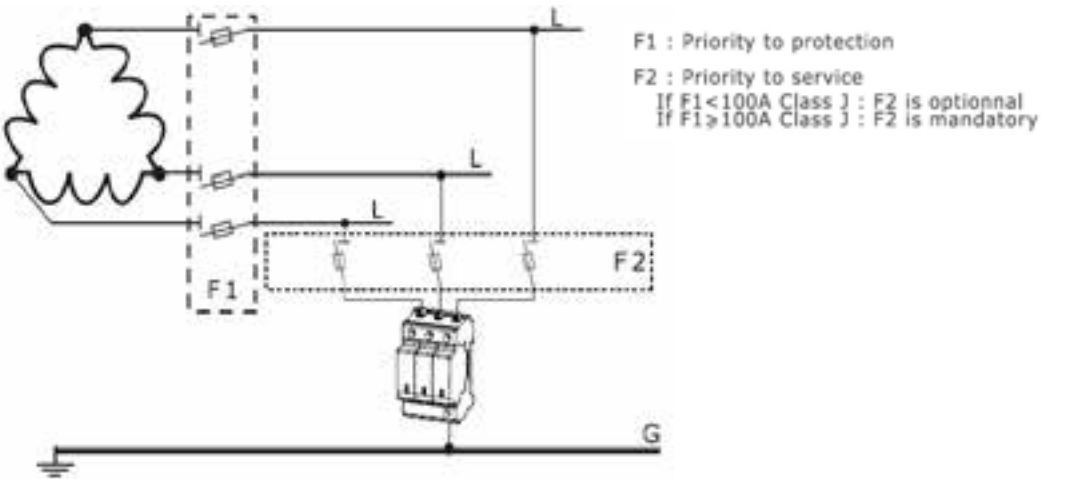
System Pro M Compact



Type 2 OVR, Pluggable for 3 phase DELTA systems (3P)						
Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
3	240VAC	15	3L	OVRT23L15320PU	DS-CB	360
3	240VAC	40	3L	OVRT23L40320PTSU ⁽¹⁾	DS-CB	360
3	480VAC	40	3L	OVRT23L40550PTSU ⁽¹⁾	DS-CB	360
3	600VAC	40	3L	OVRT23L40660PTSU ⁽¹⁾	DS-CB	360

(1) TS contact for remote status of the surge protective device included

Type 2 OVR, Replacement cartridges						
Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	320VAC	15	3L	OVRT215-320CU	DS-CB	100
1	320VAC	40	3L	OVRT240-320CU	DS-CB	100
1	550VAC	40	3L	OVRT240-550CU	DS-CB	100
1	660VAC	40	3L	OVRT240-660CU	DS-CB	100



Introduction

System Pro M Compact



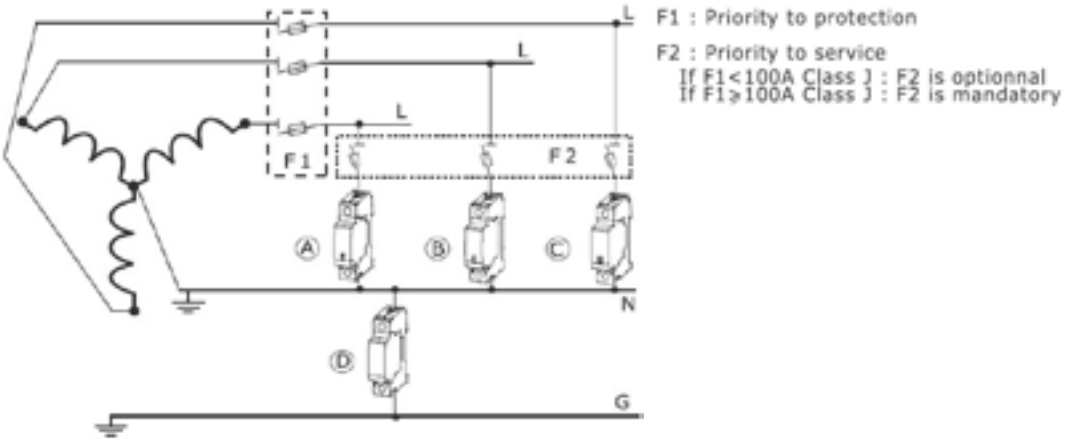
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Type 2 OVR, Pluggable for 3 phase WYE systems (1P)						
Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	208/120VAC	15	A,B,C	OVRT215-150PU	DS-CB	120
1	208/120VAC	40	A,B,C	OVRT240-150PU	DS-CB	120
1	208/120VAC	40	A,B,C	OVRT240-150PTSU ⁽¹⁾	DS-CB	140
1	415/240VAC	15	A,B,C	OVRT215-320PU	DS-CB	120
1	415/240VAC	40	A,B,C	OVRT240-320PU	DS-CB	120
1	415/240VAC	40	A,B,C	OVRT240-320PTSU	DS-CB	140
1	480/277VAC	15	A,B,C	OVRT215-320PU	DS-CB	120
1	480/277VAC	40	A,B,C	OVRT240-320PU	DS-CB	120
1	480/277VAC	40	A,B,C	OVRT240-320PTSU ⁽¹⁾	DS-CB	140
1	600/347VAC	40	A,B,C	OVRT240-440PTSU ⁽¹⁾	DS-CB	140
1	690/400VAC	40	A,B,C	OVRT240-550PTSU ⁽¹⁾	DS-CB	140
1	ALL	70	D	OVRT270-NPU	DS-CB	120

(1) TS contact for remote status of the surge protective device included

Type 2 OVR, Replacement cartridges						
Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	150VAC	15	A,B,C	OVRT215-150CU	DS-CB	100
1	150VAC	40	A,B,C	OVRT240-150CU	DS-CB	100
1	320VAC	15	A,B,C	OVRT215-320CU	DS-CB	100
1	320VAC	40	A,B,C	OVRT240-320CU	DS-CB	100
1	440VAC	40	A,B,C	OVRT240-440CU	DS-CB	100
1	550VAC	40	A,B,C	OVRT240-550CU	DS-CB	100
1	255VAC	70	D	OVRT270-NCU	DS-CB	50



Modular protection devices

System Pro M Compact



Type 2 OVR, Pluggable for 3 phase WYE systems (3P)

Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
3	208/120VAC	15	3L	OVRT23L15150PU	DS-CB	360
3	208/120VAC	40	3L	OVRT23L40150PTSU	DS-CB	360
3	415/240VAC	15	3L	OVRT23L15320PU	DS-CB	360
3	415/240VAC	40	3L	OVRT23L40320PTSU ⁽¹⁾	DS-CB	360
3	480/277VAC	15	3L	OVRT23L15320PU	DS-CB	360
3	480/277VAC	40	3L	OVRT23L40320PTSU ⁽¹⁾	DS-CB	360
3	600/347VAC	40	3L	OVRT23L40440PTSU ⁽¹⁾	DS-CB	360
3	690/400VAC	40	3L	OVRT23L40550PTSU ⁽¹⁾	DS-CB	360

(1) TS contact for remote status of the surge protective device included



Type 2 OVR, Pluggable for 3 phase WYE systems (3P+N)

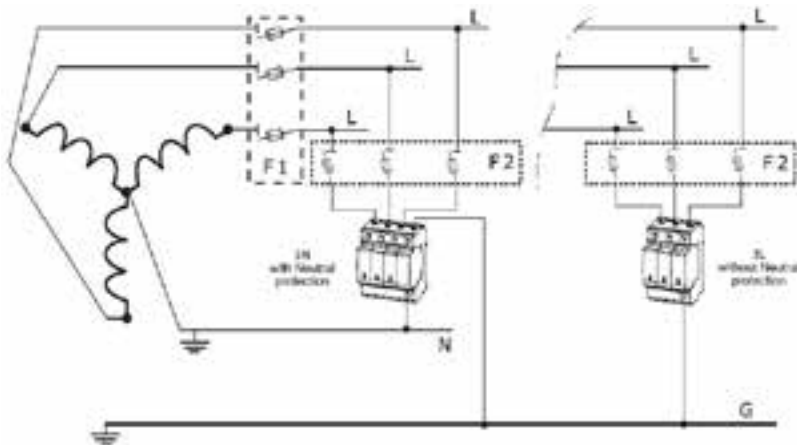
Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
3+N	208/120VAC	15	3N	OVRT23N15150PU	DS-CB	480
3+N	208/120VAC	40	3N	OVRT23N40150PTSU	DS-CB	480
3+N	415/240VAC	15	3N	OVRT23N15320PU	DS-CB	480
3+N	415/240VAC	40	3N	OVRT23N40320PTSU ⁽¹⁾	DS-CB	480
3+N	480/277VAC	15	3N	OVRT23N15320PU	DS-CB	480
3+N	480/277VAC	40	3N	OVRT23N40320PTSU ⁽¹⁾	DS-CB	480
3+N	600/347VAC	40	3N	OVRT23N40440PTSU ⁽¹⁾	DS-CB	480
3+N	690/400VAC	40	3N	OVRT23N40550PTSU ⁽¹⁾	DS-CB	480

(1) TS contact for remote status of the surge protective device included



Type 2 OVR, Replacement cartridges

Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	150VAC	15	3L,3N	OVRT215-150CU	DS-CB	100
1	150VAC	40	3L,3N	OVRT240-150CU	DS-CB	100
1	320VAC	15	3L,3N	OVRT215-320CU	DS-CB	100
1	320VAC	40	3L,3N	OVRT240-320CU	DS-CB	100
1	440VAC	40	3L,3N	OVRT240-440CU	DS-CB	100
1	550VAC	40	3L,3N	OVRT240-550CU	DS-CB	100
1	255VAC	70	3N	OVRT270-NCU	DS-CB	50



F1 : Priority to protection

F2 : Priority to service

If F1<100A Class J : F2 is optional

If F1>100A Class J : F2 is mandatory

Introduction

System Pro M Compact



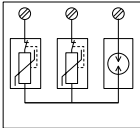
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Type TC OVR, Pluggable for telecom / dataline systems on DC networks						
Poles	System nominal voltage	Maximum discharge	Type	Part number	Discount schedule	Weight
[Nbr]	[V]	[kA]				[g]
1	6VDC	10	TC	OVRTC-06VUS	DS-CB	50
1	12VDC	10	TC	OVRTC-12VUS	DS-CB	50
1	24VDC	10	TC	OVRTC-24VUS	DS-CB	50
1	48VDC	10	TC	OVRTC-48VUS	DS-CB	50
1	200VDC	10	TC	OVRTC-200VUS	DS-CB	50
1	200VDC	10	TC	OVRTC-200FRVUS	DS-CB	50

Type TC OVR, base					
Poles	Description	Type	Part number	Discount schedule	Weight
[Nbr]					[g]
1	RJ11 type base	TC	OVRTC-RJ11	DS-CB	20
2	RJ45 type base	TC	OVRTC-RJ45	DS-CB	20

Modular protection devices

System Pro M Compact



Type 2 OVRPV, Pluggable for photovoltaic systems (IEC only)						
Poles [Nbr]	System nominal voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
3	600VDC	40	PV	OVRPV40-600P	DS-CB	270
3	600VDC	40	PV	OVRPV40-600PTS ⁽¹⁾	DS-CB	270
3	1000VDC	40	PV	OVRPV40-1000P	DS-CB	270
3	1000VDC	40	PV	OVRPV40-1000PTS ⁽¹⁾	DS-CB	270

(1) TS contact for remote status of the surge protective device included

Type 2 OVR, Replacement cartridges						
Poles [Nbr]	Max.operating voltage [V]	Maximum discharge [kA]	Type	Part number	Discount schedule	Weight [g]
1	670VDC	40	PV	OVRPV40-600C	DS-CB	100
1	1000VDC	40	PV	OVRPV40-1000C	DS-CB	100
1	1000VDC	70	PV	OVRPV-MC	DS-CB	100

Introduction

System Pro M Compact

Electrical features	E90/30	E90/32	E90H/32	E90/32PV
Standard	UL 4248-1	UL 4248-1	UL 4248-1	IEC 60947-3
Fuse type	CC (30A max)	Midget (30A max)	Midget (30A max)	Midget (32A max)
Fuse dimensions (L x D)	[mm] 38 x 10.4	38 x 10.3	38 x 10.3	38 x 10.3
Current type	AC/DC	AC/DC	AC/DC	DC
Nominal voltage U _n	[V] 600	600	600	1000
Rated current	[A] 30	32	32	32
Short circuit withstand rating	[kA] AC: 200 / DC: 100	AC: 200 / DC: 100	AC: 200 / DC: 100	100
Max. power dissipation	[W] 3	3	3	3
Tightening torque	[Nm] 2-2.5	2-2.5	2-2.5	2-2.5
Terminal cross section	[mm ²] 25	25	25	25
Protection degree	IP20	IP20	IP20	IP20
Marking	cURus	cURus	cURus	IEC
Characteristic	Fuse holder	Fuse switch disc.	Fuse holder	Fuse switch disc.
Switching under load	NO	NO	NO	YES

Modular protection devices

System Pro M Compact



E90 fuse holders for class CC fuses (30A max fuses)					
Poles	Rated Current	Number of modules	Part number	Discount schedule	Weight
[Nbr]	[A]	[Nbr]			[g]
1	30	1	E91/30	DS-CB	61
1	30	1	E91/30S ⁽¹⁾	DS-CB	62
1+N	30	2	E91N/30	DS-CB	130
2	30	2	E92/30	DS-CB	122
3	30	3	E93/30	DS-CB	183
3+N	30	4	E93N/30	DS-CB	252
4	30	4	E94/30	DS-CB	244

(1) Version with blown fuse indicator light



E90 fuse holders for Midget class fuses (30A max fuses)					
Poles	Rated Current	Number of modules	Part number	Discount schedule	Weight
[Nbr]	[A]	[Nbr]			[g]
1	32	1	E91/32	DS-CB	61
1	32	1	E91/32S ⁽¹⁾	DS-CB	62
1+N	32	2	E91N/32	DS-CB	130
2	32	2	E92/32	DS-CB	122
3	32	3	E93/32	DS-CB	183
3+N	32	4	E93N/32	DS-CB	252
4	32	4	E94/32	DS-CB	244

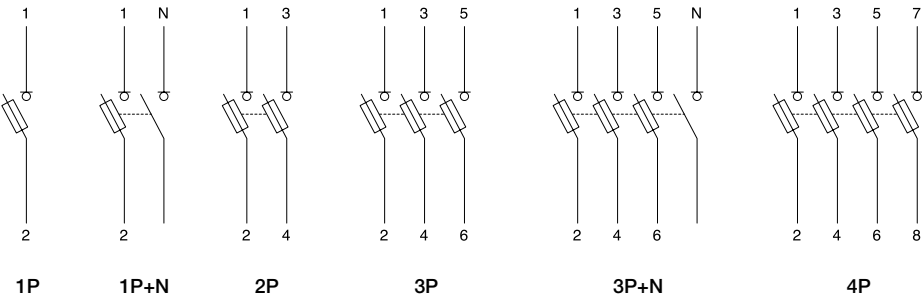
(1) Version with blown fuse indicator light



E90 fuse holders for Midget class fuses (30A max fuses)					
Poles	Rated Current	Number of modules	Part number	Discount schedule	Weight
[Nbr]	[A]	[Nbr]			[g]
1+N	32	1	E91HN/32	DS-CB	70
1+N	32	1	E91HN/32S ⁽¹⁾	DS-CB	71
3+N	32	3	E93HN/32	DS-CB	192

(1) Version with blown fuse indicator light

Electrical symbols



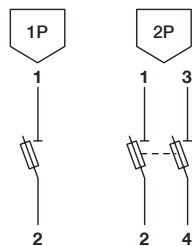
Introduction

System Pro M Compact

E90PV fuse switch disconnecter for photovoltaic applications (IEC only)					
Poles	Rated Current	Number of modules	Part number	Discount schedule	Weight
[Nbr]	[A]	[Nbr]			[g]
1	32	1	E91/32PV	DS-CB	61
1	32	1	E91/32PVS ⁽¹⁾	DS-CB	62
2	32	2	E92/32PV	DS-CB	122
2	32	2	E92/32PVS ⁽¹⁾	DS-CB	233

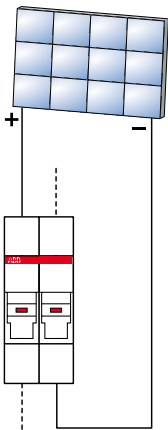
(1) Version with blown fuse indicator light

Electrical symbols



Wiring of E90PV with blown fuse indicator light in DC

In direct current systems, since the LED allows the current to flow only from positive to negative, the wiring of the blown fuse indicator version should follow the current direction as shown in the diagram



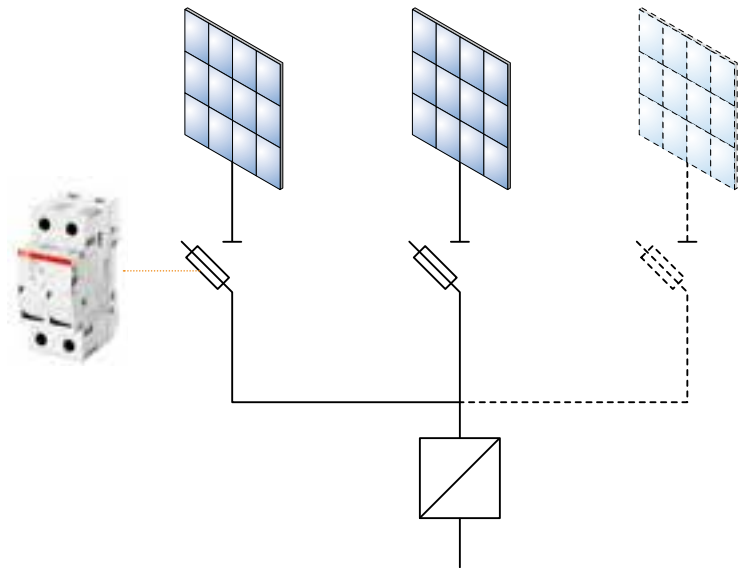
Modular protection devices

System Pro M Compact

Protection and disconnection of 1000V DC lines

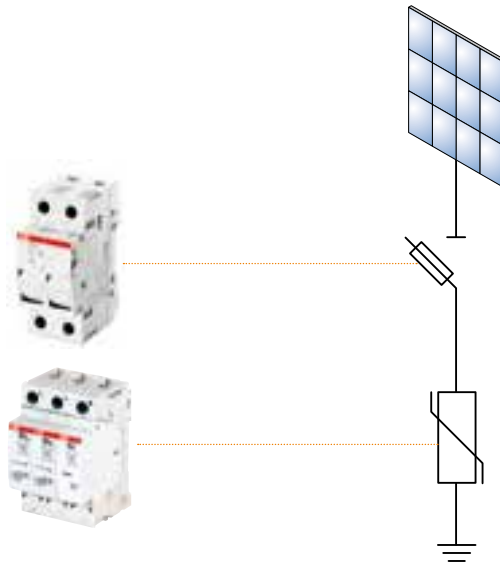
String protection

To avoid equipments damage on DC lines and to ensure isolation of the PV system in case of maintenance, E90 PV disconnectors fuses can be installed downstream the inverter to protect each single string. The fuses must be selected according to the rated current of the line and to the maximum dissipated power.



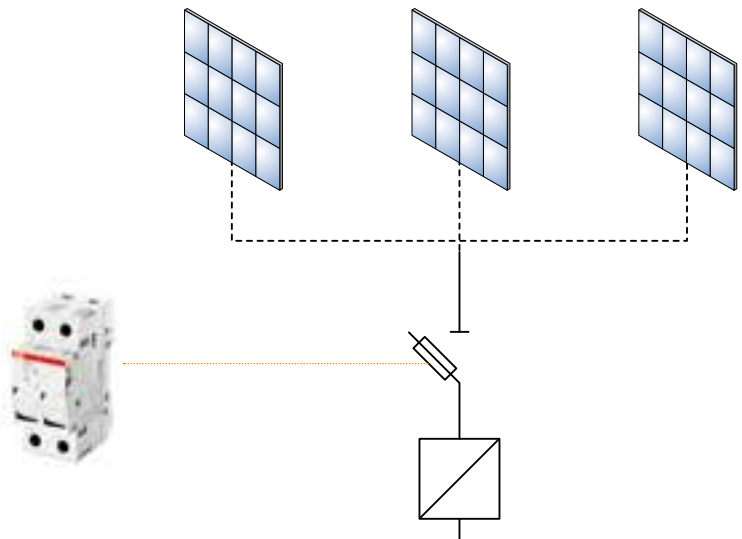
Back-Up Download

When the lcc short circuit current, at the point of installation, is greater than 100 A DC, the OVR PVs Surge Protective Devices require a back-up protection with a specific type gR fuse.



DC side of the inverter

For small size photovoltaic systems, E 90 PV fuse disconnectors can be used to protect the DC side of the inverter. The fuse should be chosen according to the rated current of the inverter.



For your notes

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For your notes

Handwriting practice lines consisting of 20 horizontal dotted lines.

Command devices

System Pro M Compact

Technical specifications E210 switches

Technical features	6/2
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Part numbers for E210 switches

E211 ON-OFF switches	6/3
E211X ON-OFF switches with yellow LED	6/3
E213 change-over switches	6/4
E214 group switches (I-O-II, manual-OFF-automatic)	6/4
E218 control switches	6/4

Technical specifications E210 pushbuttons & indicator lights

Technical features	6/5
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Part numbers for E210 pushbuttons & indicator lights

E215 pushbuttons	6/6
E217 luminous pushbuttons	6/7
E219 indicator lights	6/8

Command devices

System Pro M Compact

Technical features		E210 switches
Rated voltage U _n	[V]	240
Rated current I _n	[A]	16, 25, 32
LED current	[mA]	5
Frequency	[Hz]	50/60
Sealable		In ON and OFF position
Ambient temperature	[°C]	-25...+55
Storage temperature	[°C]	-40...+70
Connection capacity	[mm²]	1...6 Solid wire, 0.75...2x 1.5 Flexible wire
Tightening torque	[Nm]	1.8
Approvals		VDE, GOST, UL, CSA
Markings		cUR, CE

Command devices

System Pro M Compact

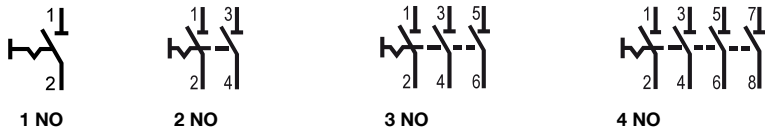


E211-16-10 E211-16-20

E211 ON-OFF switches							
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	LED voltage [V]	Part number	Discount schedule	Weight [g]
1 NO	240VAC	16	0.32	-	E211-16-10	DS-CB	35
1 NO	240VAC	25	0.75	-	E211-25-10	DS-CB	35
1 NO	240VAC	32	1.12	-	E211-32-10	DS-CB	35
2 NO	240VAC	16	0.82	-	E211-16-20	DS-CB	45
2 NO	240VAC	25	1.95	-	E211-25-20	DS-CB	45
2 NO	240VAC	32	2.73	-	E211-32-20	DS-CB	45
3 NO	240VAC	16	1.14	-	E211-16-30	DS-CB	80
3 NO	240VAC	25	2.70	-	E211-25-30	DS-CB	80
3 NO	240VAC	32	3.85	-	E211-32-30	DS-CB	80
4 NO	240VAC	16	1.64	-	E211-16-40	DS-CB	90
4 NO	240VAC	25	3.90	-	E211-25-40	DS-CB	90
4 NO	240VAC	32	5.46	-	E211-32-40	DS-CB	90

Terminal assignment

ON / OFF switch

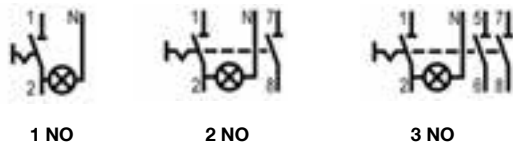


E211X-16-10 E211X-16-20

E211X ON-OFF switches & yellow LED for contact indication							
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	LED voltage [V]	Part number	Discount schedule	Weight [g]
1 NO	240VAC	16	0.50	110-240VAC	E211X-16-10	DS-CB	40
1 NO	240VAC	25	1.15	110-240VAC	E211X-25-10	DS-CB	40
2 NO	240VAC	16	1.00	110-240VAC	E211X-16-20	DS-CB	50
2 NO	240VAC	25	2.30	110-240VAC	E211X-25-20	DS-CB	50
3 NO	240VAC	16	1.50	110-240VAC	E211X-16-30	DS-CB	60
3 NO	240VAC	25	3.45	110-240VAC	E211X-25-30	DS-CB	60

Terminal assignment

OFF switches with indicator lamps



Command devices

System Pro M Compact

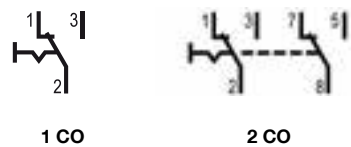


E213-16-001 E213-16-002

E213 Change-over switches							
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	LED voltage [V]	Part number	Discount schedule	Weight [g]
1 CO	240VAC	16	0.32	-	E213-16-001	DS-CB	41
1 CO	240VAC	25	0.40	-	E213-25-001	DS-CB	41
2 CO	240VAC	16	0.82	-	E213-16-002	DS-CB	82
2 CO	240VAC	25	0.88	-	E213-25-002	DS-CB	82

Terminal assignment

Change over switches



E214-16-101 E214-16-202

E214 Group switches I-O-II, manual-OFF-auto							
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	LED voltage [V]	Part number	Discount schedule	Weight [g]
1 CO	240VAC	16	0.32	-	E214-16-101	DS-CB	41
1 CO	240VAC	25	0.40	-	E214-25-101	DS-CB	41
2 CO	240VAC	16	0.82	-	E214-16-202	DS-CB	82
2 CO	240VAC	25	0.88	-	E214-25-202	DS-CB	82

Terminal assignment

Group switches

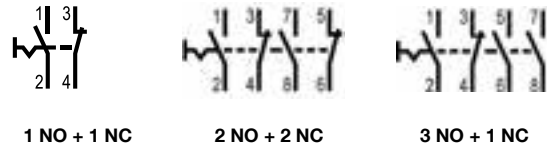


E218-16-11 E218-16-22

E218 Control switches I-O-II, manual-OFF-auto							
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	LED voltage [V]	Part number	Discount schedule	Weight [g]
1NO+1NC	240VAC	16	0.50	-	E218-16-11	DS-CB	41
1NO+1NC	240VAC	25	0.75	-	E218-25-11	DS-CB	41
2NO+2NC	240VAC	16	1.00	-	E218-16-22	DS-CB	82
3NO+1NC	240VAC	16	1.50	-	E218-16-31	DS-CB	82

Terminal assignment

Control switches



Command devices

System Pro M Compact

Technical features		E210 pushbuttons & indicator lights
Rated voltage U _n	[V]	250 VAC (LED ranges 12/48V AC/DC, 115/250 VAC, 110/220 VDC)
Rated current I _n	[A]	16
LED current	[mA]	5
Frequency	[Hz]	50/60
Sealable		In ON and OFF position
Ambient temperature	[°C]	-25...+55
Storage temperature	[°C]	-40...+70
Connection capacity	[mm²]	1...6 Solid wire, 0.75...2x 1.5 Flexible wire
Tightening torque	[Nm]	1.8
Approvals		VDE, GOST, UL, CSA
Markings		cUR, CE

Command devices

System Pro M Compact

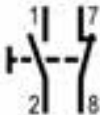


E215-16-11D

E215 Pushbuttons							
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	Button colour	Part number	Discount schedule	Weight [g]
1NO+1NC	250VAC	16	0.50	GREY	E215-16-11B	DS-CB	40
1NO+1NC	250VAC	16	0.50	RED	E215-16-11C	DS-CB	40
1NO+1NC	250VAC	16	0.50	GREEN	E215-16-11D	DS-CB	50
1NO+1NC	250VAC	16	0.50	YELLOW	E215-16-11E	DS-CB	50
1NO+1NC	250VAC	16	0.50	BLACK	E215-16-11F	DS-CB	60
1NO+1NC	250VAC	16	0.50	BLUE	E215-16-11G	DS-CB	60

Terminal assignment

Pushbutton



Command devices

System Pro M Compact

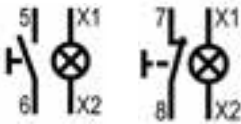


E217-16-10G

E217 Luminous pushbuttons with LED								
Contacts	Rated Voltage [V]	Rated amperage [A]	Power loss [W]	LED colour	LED voltage [V]	Part number	Discount schedule	Weight [g]
1 NO	250VAC	16	1.10	WHITE	110-240VAC	E217-16-10B	DS-CB	50
1 NO	250VAC	16	1.10	RED	110-240VAC	E217-16-10C	DS-CB	50
1 NO	250VAC	16	1.10	GREEN	110-240VAC	E217-16-10D	DS-CB	50
1 NO	250VAC	16	1.10	YELLOW	110-240VAC	E217-16-10E	DS-CB	50
1 NO	250VAC	16	1.10	BLUE	110-240VAC	E217-16-10G	DS-CB	50
1 NC	250VAC	16	1.10	WHITE	110-240VAC	E217-16-01B	DS-CB	50
1 NC	250VAC	16	1.10	RED	110-240VAC	E217-16-01C	DS-CB	50
1 NC	250VAC	16	1.10	GREEN	110-240VAC	E217-16-01D	DS-CB	50
1 NC	250VAC	16	1.10	YELLOW	110-240VAC	E217-16-01E	DS-CB	50
1 NC	250VAC	16	1.10	BLUE	110-240VAC	E217-16-01G	DS-CB	50
1 NO	250VAC	16	0.72	WHITE	12-48V AC/DC	E217-16-10B48	DS-CB	50
1 NO	250VAC	16	0.72	RED	12-48V AC/DC	E217-16-10C48	DS-CB	50
1 NO	250VAC	16	0.72	GREEN	12-48V AC/DC	E217-16-10D48	DS-CB	50
1 NO	250VAC	16	0.72	YELLOW	12-48V AC/DC	E217-16-10E48	DS-CB	50
1 NO	250VAC	16	0.72	BLUE	12-48V AC/DC	E217-16-10G48	DS-CB	50
1 NC	250VAC	16	0.72	WHITE	12-48V AC/DC	E217-16-01B48	DS-CB	50
1 NC	250VAC	16	0.72	RED	12-48V AC/DC	E217-16-01C48	DS-CB	50
1 NC	250VAC	16	0.72	GREEN	12-48V AC/DC	E217-16-01D48	DS-CB	50
1 NC	250VAC	16	0.72	YELLOW	12-48V AC/DC	E217-16-01E48	DS-CB	50
1 NC	250VAC	16	0.72	BLUE	12-48V AC/DC	E217-16-01G48	DS-CB	50
1 NO	250VAC	16	1.50	WHITE	110-220V AC/DC	E217-16-10B220	DS-CB	50
1 NO	250VAC	16	1.50	RED	110-220V AC/DC	E217-16-10C220	DS-CB	50
1 NO	250VAC	16	1.50	GREEN	110-220V AC/DC	E217-16-10D220	DS-CB	50
1 NO	250VAC	16	1.50	YELLOW	110-220V AC/DC	E217-16-10E220	DS-CB	50
1 NO	250VAC	16	1.50	BLUE	110-220V AC/DC	E217-16-10G220	DS-CB	50
1 NC	250VAC	16	1.50	WHITE	110-220V AC/DC	E217-16-01B220	DS-CB	50
1 NC	250VAC	16	1.50	RED	110-220V AC/DC	E217-16-01C220	DS-CB	50
1 NC	250VAC	16	1.50	GREEN	110-220V AC/DC	E217-16-01D220	DS-CB	50
1 NC	250VAC	16	1.50	YELLOW	110-220V AC/DC	E217-16-01E220	DS-CB	50
1 NC	250VAC	16	1.50	BLUE	110-220V AC/DC	E217-16-01G220	DS-CB	50

Terminal assignment

Luminous Pushbutton



Command devices System Pro M Compact



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E219 LED indicator lights					
LED colour	Rated Voltage [V]	Power loss [W]	Part number	Discount schedule	Weight [g]
WHITE	110-250 VAC	0.47	E219-B	DS-CB	40
RED	110-250 VAC	0.47	E219-C	DS-CB	40
GREEN	110-250 VAC	0.47	E219-D	DS-CB	40
YELLOW	110-250 VAC	0.47	E219-E	DS-CB	40
BLUE	110-250 VAC	0.47	E219-G	DS-CB	40
WHITE	12-48V AC/DC	0.40	E219-B48	DS-CB	40
RED	12-48V AC/DC	0.40	E219-C48	DS-CB	40
GREEN	12-48V AC/DC	0.40	E219-D48	DS-CB	40
YELLOW	12-48V AC/DC	0.40	E219-E48	DS-CB	40
BLUE	12-48V AC/DC	0.40	E219-G48	DS-CB	40
WHITE	110-220 VDC	1.00	E219-B220	DS-CB	40
RED	110-220 VDC	1.00	E219-C220	DS-CB	40
GREEN	110-220 VDC	1.00	E219-D220	DS-CB	40
YELLOW	110-220 VDC	1.00	E219-E220	DS-CB	40
BLUE	110-220 VDC	1.00	E219-G220	DS-CB	40

Terminal assignment

Indicator Light



For your notes

Handwriting practice lines consisting of 20 horizontal dotted lines.

Technical details & dimensions

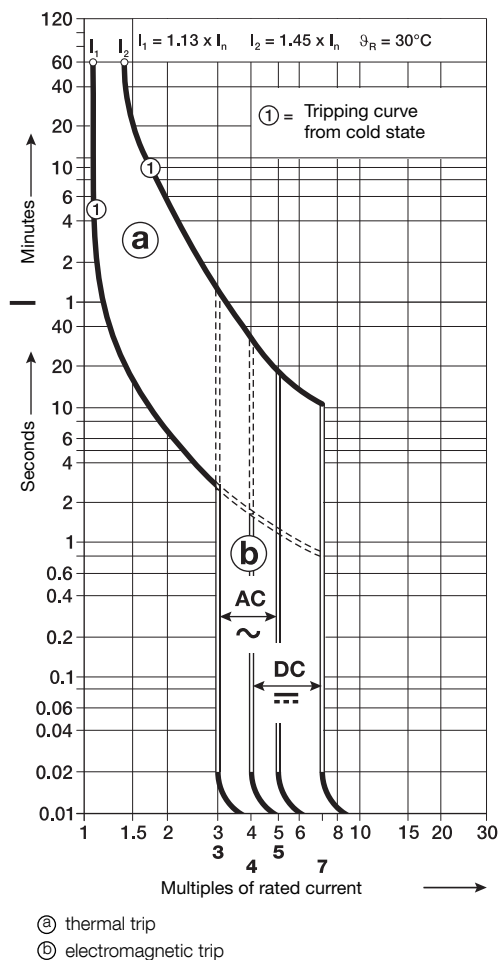
System Pro M Compact

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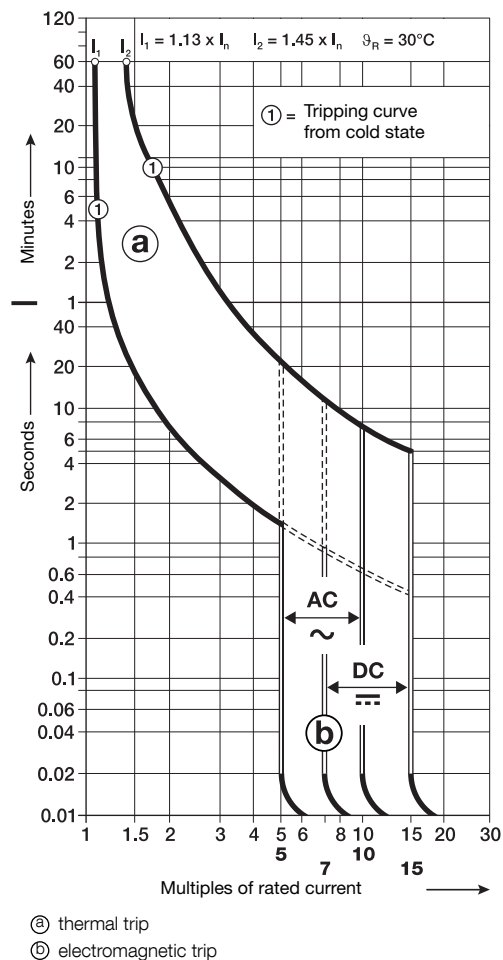
Technical details & dimensions

System Pro M Compact

Characteristic B



Characteristic C



B characteristic

Available with the S200 with rated current of 6 through 63 amperes in 10 steps. The “B” time-current curve is designed primarily for use in cable protection applications. Instantaneous tripping occurs between approximately 3-5 times the rated current in 50/60 Hz systems. This quick trip curve maximizes protection of control circuits under low short circuit fault levels that could damage control wiring.

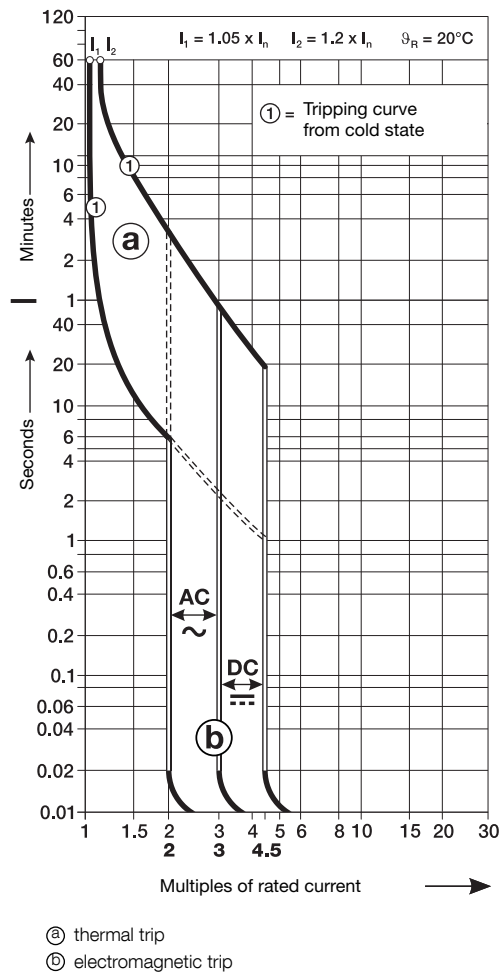
C characteristic

Available with the S200 with rated current of up to 63 amperes. The “C” time-current curve is designed for medium magnetic start-up currents. Instantaneous tripping occurs between approximately 5-10 times the rated current in 50/60 Hz systems.

Technical details & dimensions

System Pro M Compact

Characteristic Z



Z characteristic

Also available up to 63 amperes, the "Z" characteristic offers instantaneous tripping between 2-3 times the rated current in 50/60 Hz systems. Many applications requires a very low short-circuit trip setting in order to protect semiconductors or other sensitive devices. The "Z" curve may provide maximum protection and service in these applications

Technical details & dimensions

System Pro M Compact

Internal resistance and power losses for S200 series (values per pole)

Amperage [A]	B, C, D type ⁽¹⁾		K type		Z type	
	[mΩ / pole]	[W / pole]	[mΩ / pole]	[W / pole]	[mΩ / pole]	[W / pole]
0.5	6500	1.4	6340	1.6	10100	2.5
1	1440	1.4	1550	1.6	2270	2.3
1.6	630	1.6	695	1.8	1100	2.8
2	460	1.8	460	1.9	619	2.5
3	150	1.3	165	1.5	202	1.8
4	110	1.8	120	2.0	149	2.4
6	55	2.0	52	1.9	104	3.7
8	15	1.0	38	2.5	53.9	3.45
10	13.3	1.3	12.6	1.26	17.5	1.7
13	13.3	2.3	12.6	2.1	-	-
16	7	1.8	7.7	2.0	10.9	2.8
20	6.25	2.5	6.7	2.7	6.0	2.4
25	5	3.2	4.6	2.9	4.1	2.6
32	3.6	3.7	3.5	3.6	2.8	2.9
40	3	4.8	2.8	4.5	2.5	4.1
50	1.3	3.25	1.25	3.1	1.8	4.4
63	1.2	4.8	0.7	2.8	1.3	5.2

(1) Current intensities 0.5 to 4 only to C and D types.

Internal resistance and power losses for S800U series (values per pole)

Amperage [A]	K type		Z type	
	[mΩ / pole]	[W / pole]	[mΩ / pole]	[W / pole]
10	15.2	1.5	15.2	1.5
15	12.1	2.7	12.1	2.7
20	8.7	3.5	8.7	3.5
25	6.8	4.2	6.8	4.2
30	3.1	2.8	3.1	2.8
40	2.3	3.7	2.3	3.7
50	1.7	4.3	1.7	4.3
60	1.6	5.8	1.6	5.8
70	1.0	4.9	1.0	4.9
80	1.0	6.4	1.0	6.4
90	0.8	6.5	0.8	6.5
100	0.8	8.3	0.8	8.3

Internal resistances are subject to application-specific and environment-specific conditions. They are therefore to be considered as typical values

Technical details & dimensions

System Pro M Compact

Internal resistance and power losses for S800PV series (values per pole)

Amperage	PV-S type		PV-M type	
[A]	[mΩ / pole]	[W / pole]	[mΩ / pole]	[W / pole]
10	15.2	1.5	-	-
13	12.1	2.0	-	-
16	12.1	3.1	-	-
20	8.7	3.5	-	-
25	6.8	4.3	-	-
32	3.1	3.2	1.8	1.8
40	2.3	3.7	-	-
50	1.7	4.3	-	-
63	1.6	6.4	-	-
80	1.0	6.4	-	-
100	0.8	8.0	-	-
125	0.6	9.4	0.5	7.8

Internal resistance and power losses for S800PV series (values per pole)

Amperage	K type		UC-K type	
[A]	[Ω / pole]	[W / pole]	[mΩ / pole]	[W / pole]
0.10 ... 0.15	78.0	1.76	84.0	1.89
0.14 ... 0.21	48.0	2.12	51.0	2.25
0.20 ... 0.30	23.5	2.12	25.5	2.30
0.28 ... 0.42	12.3	2.17	12.8	2.26
0.38 ... 0.58	6.60	2.22	7.0	2.35
0.53 ... 0.80	3.50	2.24	3.6	2.30
0.73 ... 1.10	2.00	2.42	2.04	2.47
1.00 ... 1.50	1.05	2.36	1.08	2.43
1.40 ... 2.10	0.68	3.00	0.68	3.00
2.00 ... 3.00	0.35	3.15	0.35	3.15
2.80 ... 4.20	0.175	3.09	0.175	3.09
3.80 ... 5.80	0.095	3.20	0.095	3.20
5.30 ... 8.00	0.055	3.52	0.055	3.52
7.30 ... 11.0	0.035	4.24	0.035	4.24
10.0 ... 15.0	0.023	5.18	0.023	5.18
14.0 ... 20.0	0.012	4.80	0.012	4.80
18.0 ... 26.0	0.008	5.41	0.008	5.41
23.0 ... 32.0	0.0055	5.63	0.0055	5.63
29.0 ... 37.0	0.0035	4.79	0.0035	4.79
34.0 ... 41.0	0.0025	4.20	0.0025	4.20
38.0 ... 45.0	0.0017	3.44	0.0017	3.44

Internal resistances are subject to application-specific and environment-specific conditions. They are therefore to be considered as typical values

Technical details & dimensions

System Pro M Compact

Derating of load capability of MCBs

Derating of MCBs load capability takes into consideration 3 factors

- A) Ambient temperature
- B) Continuity (duration of the load)
- C) Influence of adjacent devices

The rules to obtain the effective value of I_n are listed below

1) Deviating ambient temperatures

S200 series with type B, C, D characteristics max. operating current depending on the ambient temperature												
Rated current	Ambient temperature											
[A]	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
0.5	0.67A	0.65A	0.62A	0.6A	0.58A	0.55A	0.53A	0.5A	0.47A	0.44A	0.41A	0.37A
1.0	1.33A	1.29A	1.25A	1.20A	1.15A	1.11A	1.05A	1.00A	0.94A	0.88A	0.82A	0.75A
1.6	2.13A	2.07A	2.00A	1.92A	1.85A	1.77A	1.69A	1.60A	1.51A	1.41A	1.31A	1.19A
2.0	2.67A	2.58A	2.49A	2.40A	2.31A	2.21A	2.11A	2.00A	1.89A	1.76A	1.63A	1.49A
3.0	4.00A	3.90A	3.70A	3.60A	3.50A	3.30A	3.20A	3.00A	2.80A	2.60A	2.40A	2.20A
4.0	5.30A	5.20A	5.00A	4.80A	4.60A	4.40A	4.20A	4.00A	3.80A	3.50A	3.30A	3.00A
6.0	8.00A	7.70A	7.50A	7.20A	6.90A	6.60A	6.30A	6.00A	5.70A	5.30A	4.90A	4.50A
8.0	10.7A	10.3A	10.0A	9.60A	9.20A	8.80A	8.40A	8.00A	7.50A	7.10A	6.50A	6.00A
10.0	13.3A	12.9A	12.5A	12.0A	11.5A	11.1A	10.5A	10.0A	9.40A	8.80A	8.20A	7.50A
13.0	17.3A	16.8A	16.2A	15.6A	15.0A	14.4A	13.7A	13.0A	12.3A	11.5A	10.6A	9.70A
16.0	21.3A	20.7A	20.0A	19.2A	18.5A	17.7A	16.9A	16.0A	15.1A	14.1A	13.1A	11.9A
20.0	26.7A	25.8A	24.9A	24.0A	23.1A	22.1A	21.1A	20.0A	18.9A	17.6A	16.3A	14.9A
25.0	33.3A	32.3A	31.2A	30.0A	28.9A	27.6A	26.4A	25.0A	23.6A	22.0A	20.4A	18.6A
32.0	42.7A	41.3A	39.9A	38.5A	37.0A	35.4A	33.7A	32.0A	30.2A	28.2A	26.1A	23.9A
40.0	53.3A	51.6A	49.9A	48.1A	46.2A	44.2A	42.2A	40.0A	37.7A	35.3A	32.7A	29.8A
50.0	66.7A	64.5A	62.4A	60.1A	57.7A	55.3A	52.7A	50.0A	47.1A	44.1A	40.8A	37.3A
63.0	84.0A	81.3A	78.6A	75.7A	72.7A	69.6A	66.4A	63.0A	59.4A	55.6A	51.4A	47.0A

S200 series with type K and Z characteristics max. operating current depending on the ambient temperature												
Rated current	Ambient temperature											
[A]	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
0.5	0.66A	0.64A	0.61A	0.59A	0.56A	0.53A	0.50A	0.47A	0.43A	0.40A	0.35A	0.31A
1.0	1.32A	1.27A	1.22A	1.17A	1.12A	1.06A	1.00A	0.94A	0.87A	0.79A	0.71A	0.61A
1.6	2.12A	2.04A	1.96A	1.88A	1.79A	1.70A	1.60A	1.50A	1.39A	1.26A	1.13A	0.98A
2.0	2.65A	2.55A	2.45A	2.35A	2.24A	2.12A	2.00A	1.87A	1.73A	1.58A	1.41A	1.22A
3.0	4.00A	3.80A	3.70A	3.50A	3.40A	3.20A	3.00A	2.80A	2.60A	2.40A	2.10A	1.80A
4.0	5.30A	5.10A	4.90A	4.70A	4.50A	4.20A	4.00A	3.70A	3.50A	3.20A	2.80A	2.40A
6.0	7.90A	7.60A	7.30A	7.00A	6.70A	6.40A	6.00A	5.60A	5.20A	4.70A	4.20A	3.70A
8.0	10.8A	10.2A	9.80A	9.40A	8.90A	8.50A	8.00A	7.50A	6.90A	6.30A	5.70A	4.90A
10.0	13.2A	12.7A	12.2A	11.7A	11.2A	10.6A	10.0A	9.40A	8.70A	7.90A	7.10A	6.10A
13.0	17.2A	16.6A	15.9A	15.2A	14.5A	13.8A	13.0A	12.2A	11.3A	10.3A	9.20A	8.00A
16.0	21.2A	20.4A	19.6A	18.8A	17.9A	17.0A	16.0A	15.0A	13.9A	12.6A	11.3A	9.80A
20.0	26.5A	25.5A	24.5A	23.5A	22.4A	21.2A	20.0A	18.7A	17.3A	15.8A	14.1A	12.2A
25.0	33.1A	31.9A	30.6A	29.3A	28.0A	26.5A	25.0A	23.4A	21.7A	19.8A	17.7A	15.3A
32.0	42.3A	40.8A	39.2A	37.5A	35.8A	33.9A	32.0A	29.9A	27.7A	25.3A	22.6A	19.6A
40.0	52.9A	51.0A	49.0A	46.9A	44.7A	42.4A	40.0A	37.4A	34.6A	31.6A	28.3A	24.5A
50.0	66.1A	63.7A	61.2A	58.6A	55.9A	53.0A	50.0A	46.8A	43.3A	39.5A	35.4A	30.6A
63.0	83.3A	80.3A	77.2A	73.9A	70.4A	66.8A	63.0A	58.9A	54.6A	49.8A	44.5A	38.6A

Technical details & dimensions

System Pro M Compact

S800U series with type K and Z characteristics max. operating current depending on the ambient temperature

Rated current	Ambient temperature										
[A]	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
10	10.9A	10.7A	10.4A	10.0A	9.60A	9.30A	9.00A	8.70A	8.40A	8.00A	7.60A
15	16.5A	16.0A	15.6A	15.0A	14.4A	14.0A	13.5A	13.0A	12.6A	12.0A	11.4A
20	22.0A	21.4A	20.8A	20.0A	19.2A	18.6A	18.8A	17.4A	16.8A	16.0A	15.2A
25	27.5A	26.8A	26.0A	25.0A	24.0A	23.3A	22.5A	21.8A	21.0A	20.0A	19.0A
30	33.1A	32.1A	31.2A	30.0A	28.8A	27.9A	27.0A	26.1A	25.2A	24.0A	22.9A
40	44.0A	42.8A	41.6A	40.0A	38.4A	37.2A	36.0A	34.8A	33.6A	32.0A	30.9A
50	55.1A	53.5A	52.0A	50.0A	48.0A	46.5A	45.0A	43.5A	42.0A	40.0A	38.3A
60	66.2A	64.2A	62.4A	60.0A	57.6A	55.8A	54.0A	52.2A	52.4A	48.0A	46.0A
70	76.9A	74.9A	72.8A	70.0A	67.2A	65.1A	63.0A	60.9A	58.8A	56.0A	53.4A
80	88.0A	85.6A	83.2A	80.0A	76.8A	74.4A	72.0A	69.6A	67.1A	64.0A	61.6A
90	99.1A	96.3A	93.6A	90.0A	86.4A	83.7A	81.0A	78.3A	75.6A	72.0A	69.5A
100	110.5A	107.0A	104.0A	100.0A	96.0A	93.0A	90.0A	87.0A	83.8A	80.0A	77.8A

S800PV-S series max. operating current depending on the ambient temperature

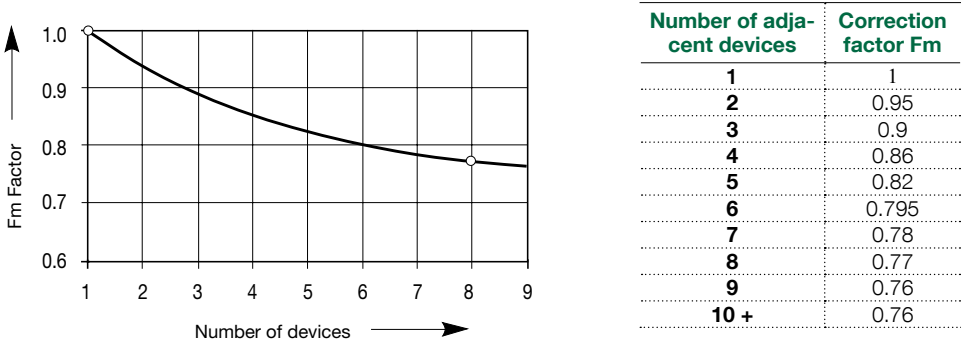
Rated current	Ambient temperature										
[A]	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
10	11.2A	11.0A	10.7A	10.4A	10.0A	9.60A	9.30A	9.00A	8.70A	8.40A	8.00A
13	14.6A	14.3A	13.9A	13.5A	13.0A	12.5A	12.1A	11.7A	11.3A	10.9A	10.4A
16	17.9A	17.6A	17.1A	16.6A	16.0A	15.4A	14.9A	14.4A	13.9A	13.4A	12.8A
20	22.4A	22.0A	21.4A	20.8A	20.0A	19.2A	18.6A	18.0A	17.4A	16.8A	16.0A
25	28.0A	27.5A	26.8A	26.0A	25.0A	24.0A	23.3A	22.5A	21.8A	21.0A	20.0A
32	35.8A	35.2A	34.2A	33.3A	32.0A	30.7A	29.8A	28.8A	27.8A	26.9A	25.6A
40	44.8A	44.0A	42.8A	41.6A	40.0A	38.4A	37.2A	36.0A	34.8A	33.6A	32.0A
50	56.0A	55.0A	53.5A	52.0A	50.0A	48.0A	46.5A	45.0A	43.5A	42.0A	40.0A
63	70.6A	69.3A	67.4A	65.5A	63.0A	60.5A	58.6A	56.7A	54.8A	52.9A	50.4A
80	89.6A	88.0A	85.6A	83.2A	80.0A	76.8A	74.4A	72.0A	69.6A	67.2A	64.0A
100	112.0A	110.0A	107.0A	104.0A	100.0A	96.0A	93.0A	90.0A	87.0A	84.0A	80.0A
125	140.0A	137.5A	133.8A	130.0A	125.0A	120.0A	116.3A	112.5A	108.8A	105.0A	100.0A

Technical details & dimensions

System Pro M Compact

2) Adjacent devices

Multiply the rated current (equivalent) referring to the new temperature by another factor only in case of presence of several devices installed alongside each other. See the following table



Example: S202-C16 with T = 40°C

Type of use	Value to use	Formula	Calculation	Result
Load at ambient temperature	In (amb. T°) see tables			In = 15.1A
Load at ambient temperature with 8 adj. devices	In (amb. T°) see tables - Fm (0.77)	In (amb. t°) x 0.77	15.1 x 0.77	In = 11.63A

Performance in altitude of MCBs

Up to the height of 2000m, MCBs do not undergo any alterations in their rated performances. Over this height, the properties of the atmosphere change in terms of composition, dielectric capacity, cooling capacity and pressure. Therefore, the performance of the MCBs undergo derating, which ca basically be measured in terms of variations in the rated current

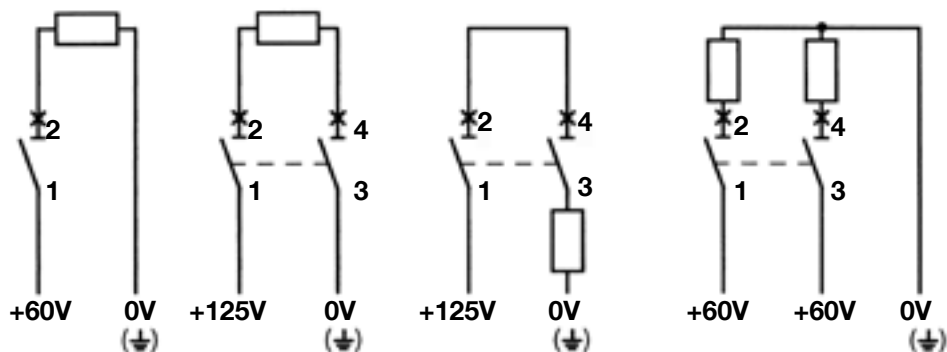
Altitude	2000m	3000m	4000m
Rated current In	In	In x 0.96	In x 0.93

Technical details & dimensions

System Pro M Compact

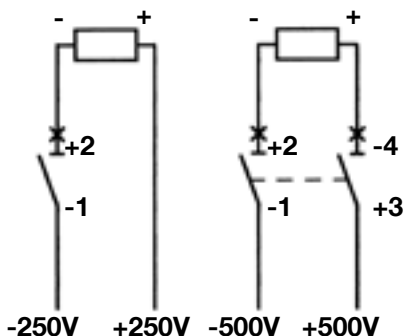
S200 series in DC circuits

In DC systems up to 60V DC or, as the case may be, series connection up to 125V DC, customary S200 series MCBs can be used. Polarity does not need to be taken into consideration, the outgoing circuit may be implemented from above or below the device



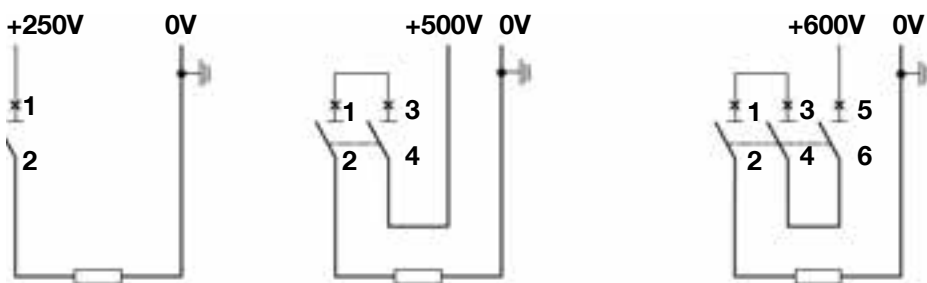
S280UC series in DC circuits

In DC systems up to 250V DC or, as the case may be, series connection up to 500V DC, customary S280UC series MCBs can be used. The S280UC includes a permanent magnet which aids in the extinguishing of the arc during medium and high level faults. **It is necessary to observe and follow the correct polarity and current direction when connecting them**



S500UCK series in DC circuits

In DC systems up to 250V DC or, as the case may be, series connection up to 600V DC, customary S500UCK series MCBs can be used.

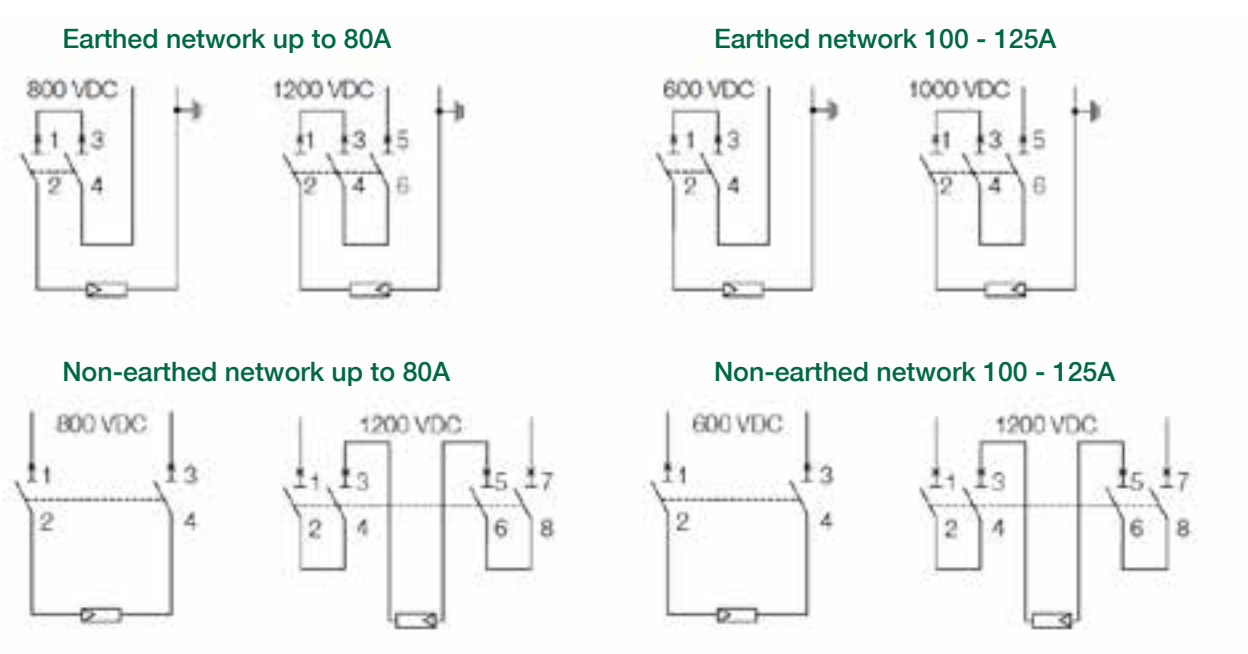


Technical details & dimensions

System Pro M Compact

S800PV series in DC circuits

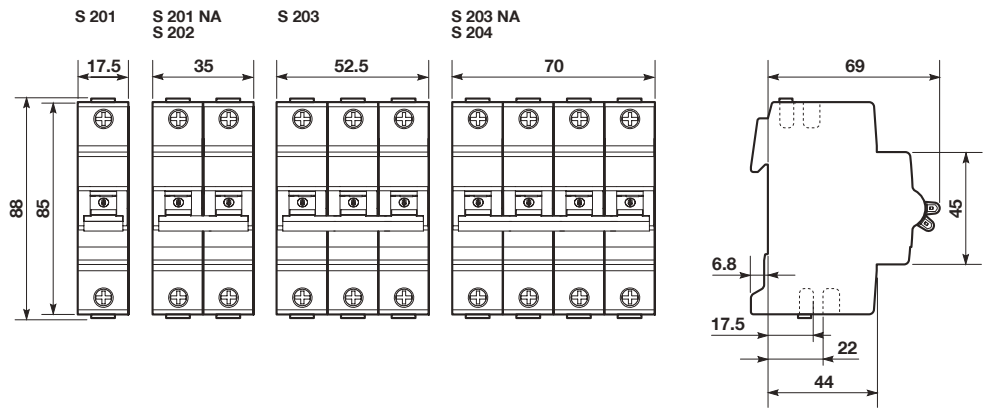
In DC systems up to 1200V DC customary S800PV series MCBs can be used.



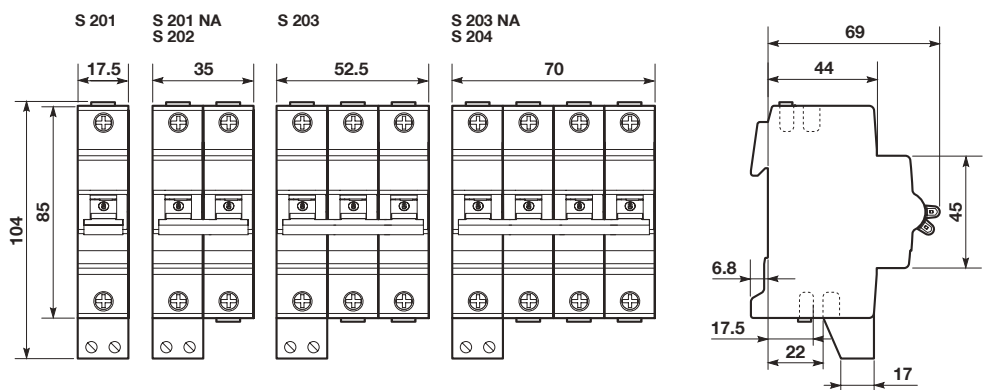
Technical details & dimensions

System Pro M Compact

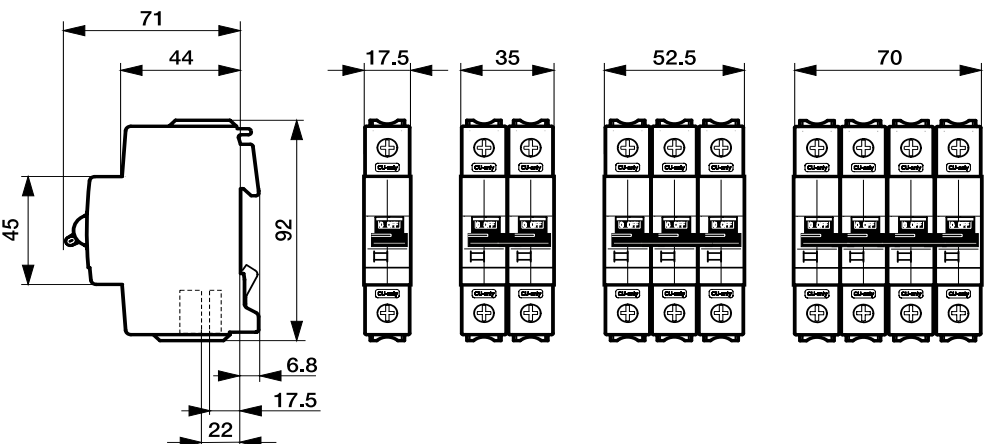
S200 series



S200 series with bottom-fitting auxiliary contact



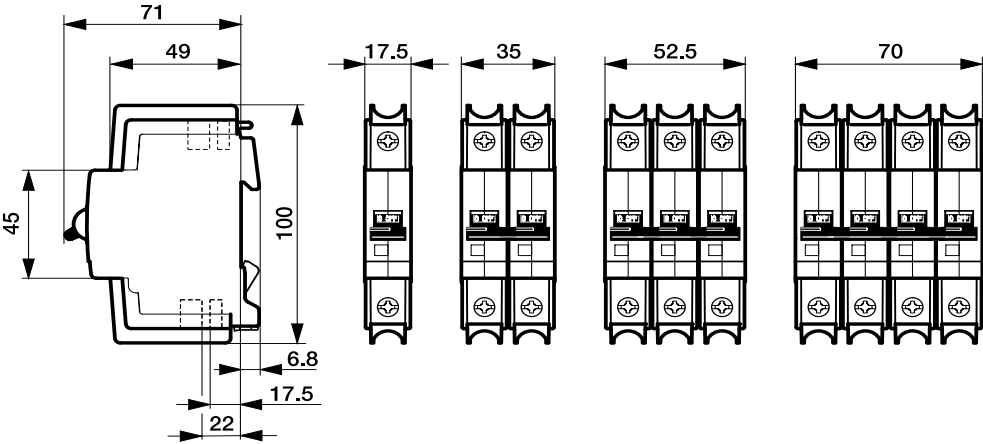
S200U/UDC series



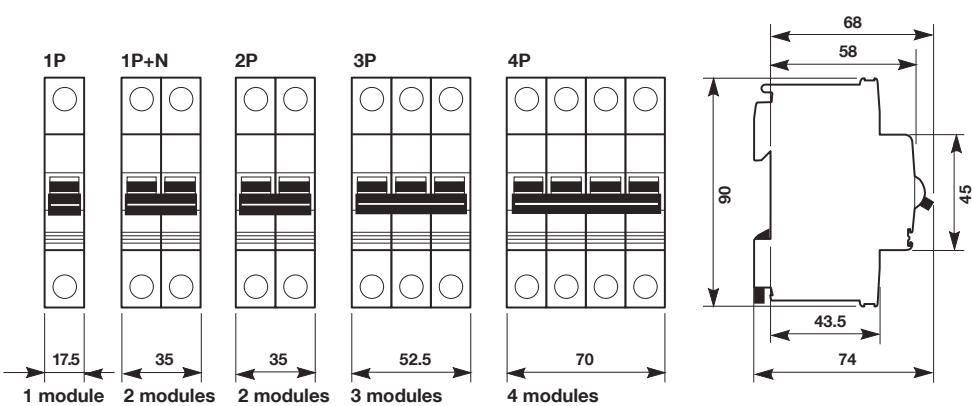
Technical details & dimensions

System Pro M Compact

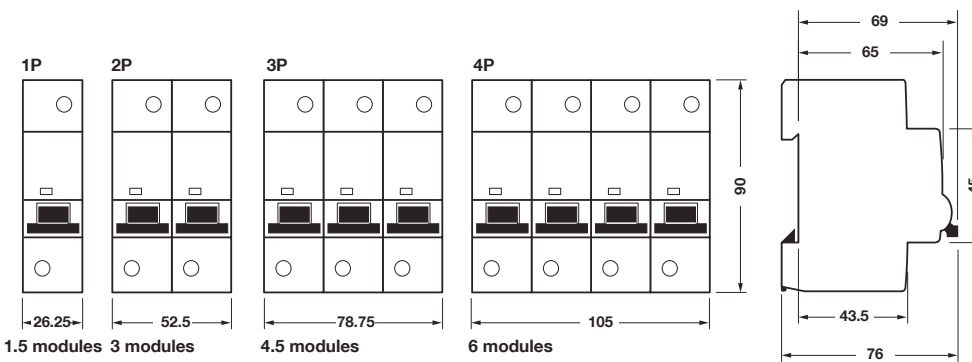
S200UP series



S280 series



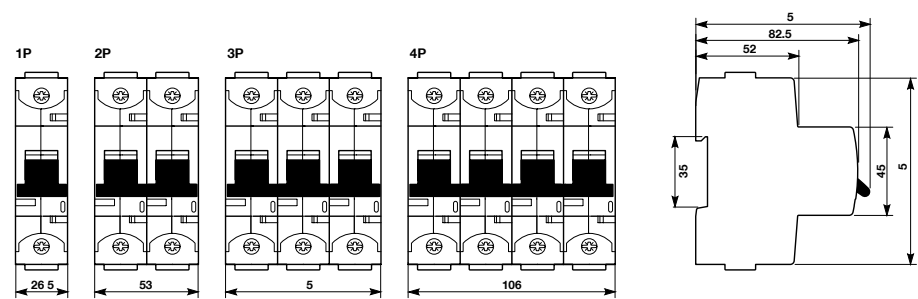
S290 series



Technical details & dimensions

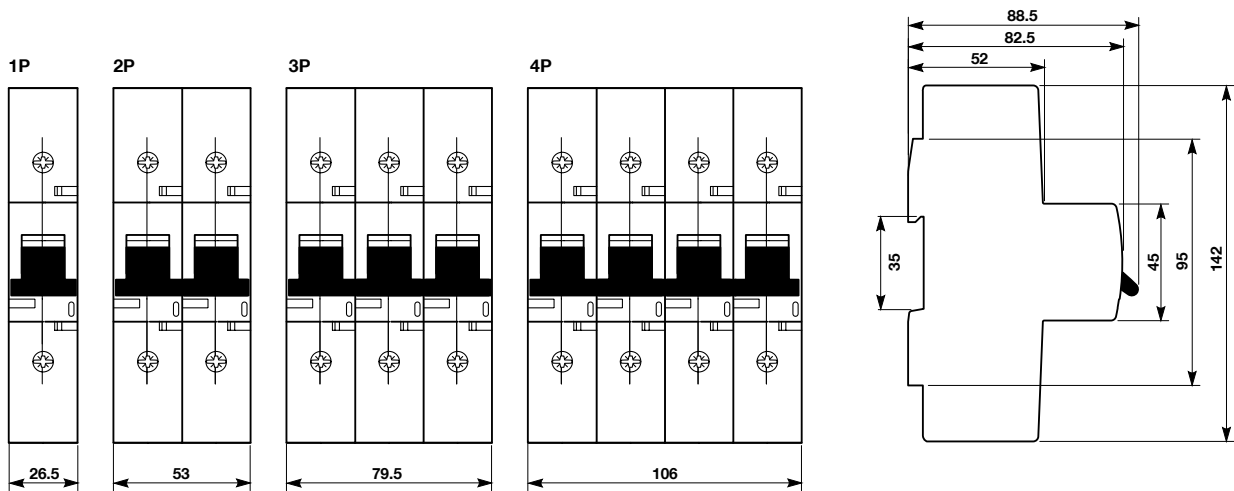
System Pro M Compact

S800U - S800PV series

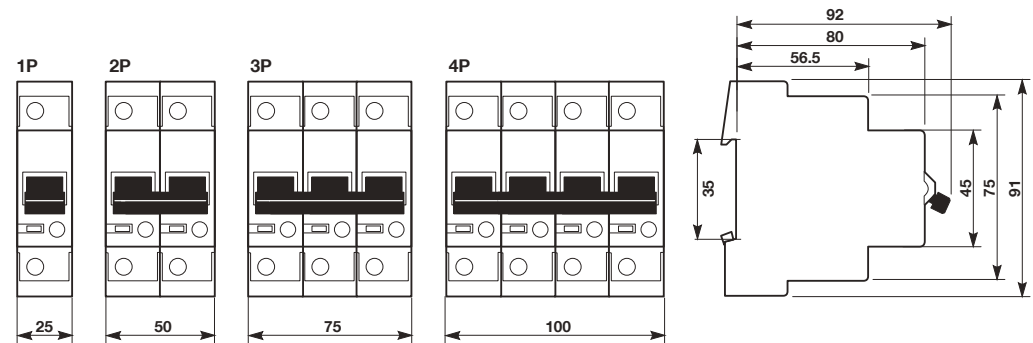


S800U - S800PV series with ring terminals

7



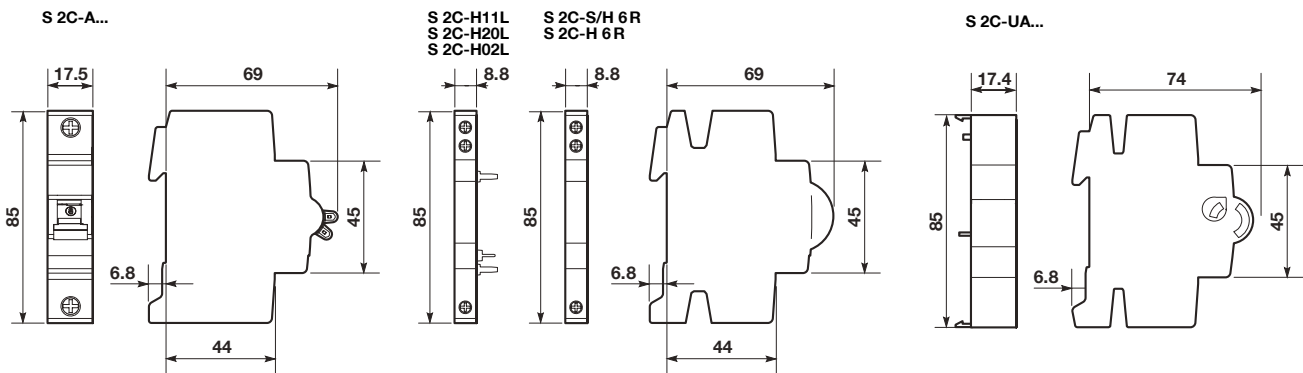
S500 series



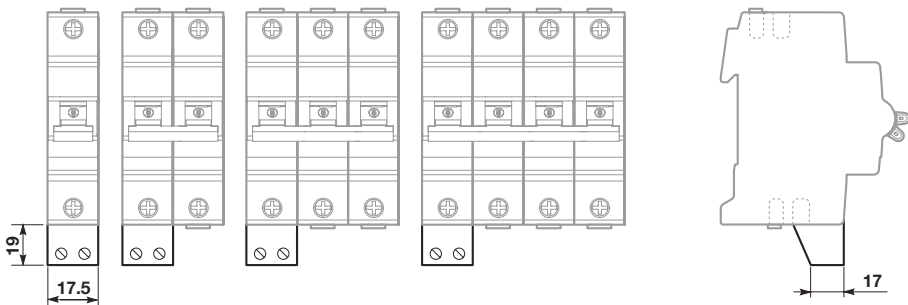
Technical details & dimensions

System Pro M Compact

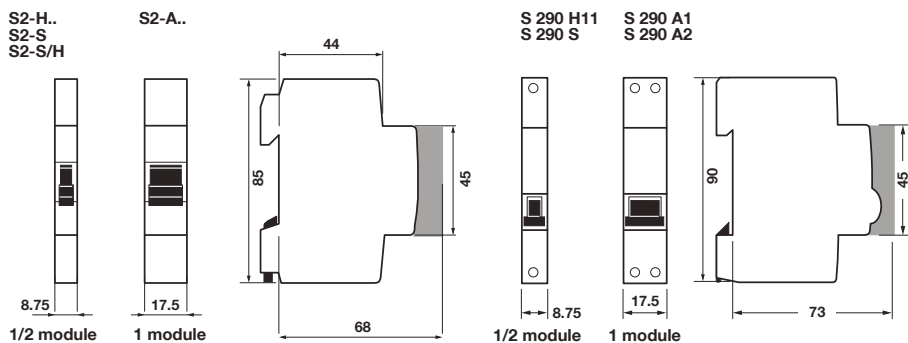
Auxiliary elements for S200 series



Bottom fitting auxiliary contact (with S200 MCB)



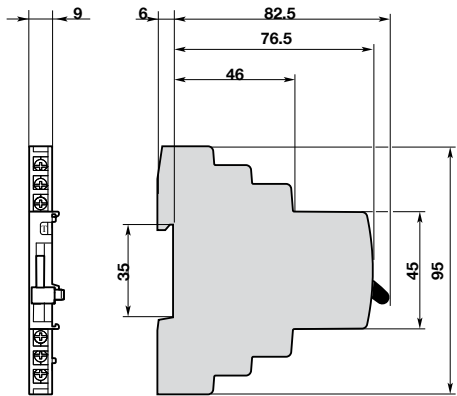
Auxiliary elements for S280 and S290 series



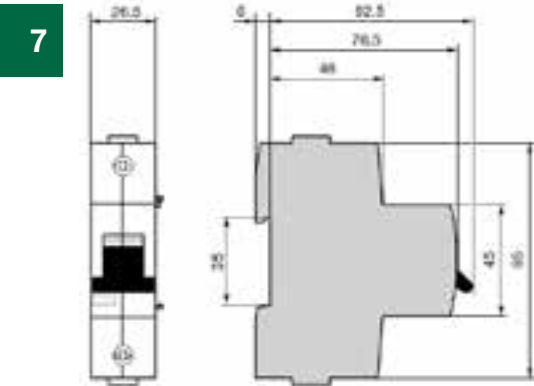
Technical details & dimensions

System Pro M Compact

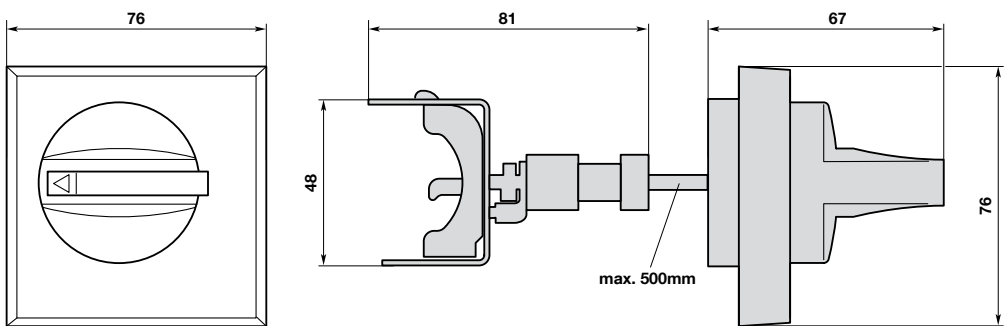
S800-AUX, S800-AUX/ALT



S800-SOR, S800-UVR



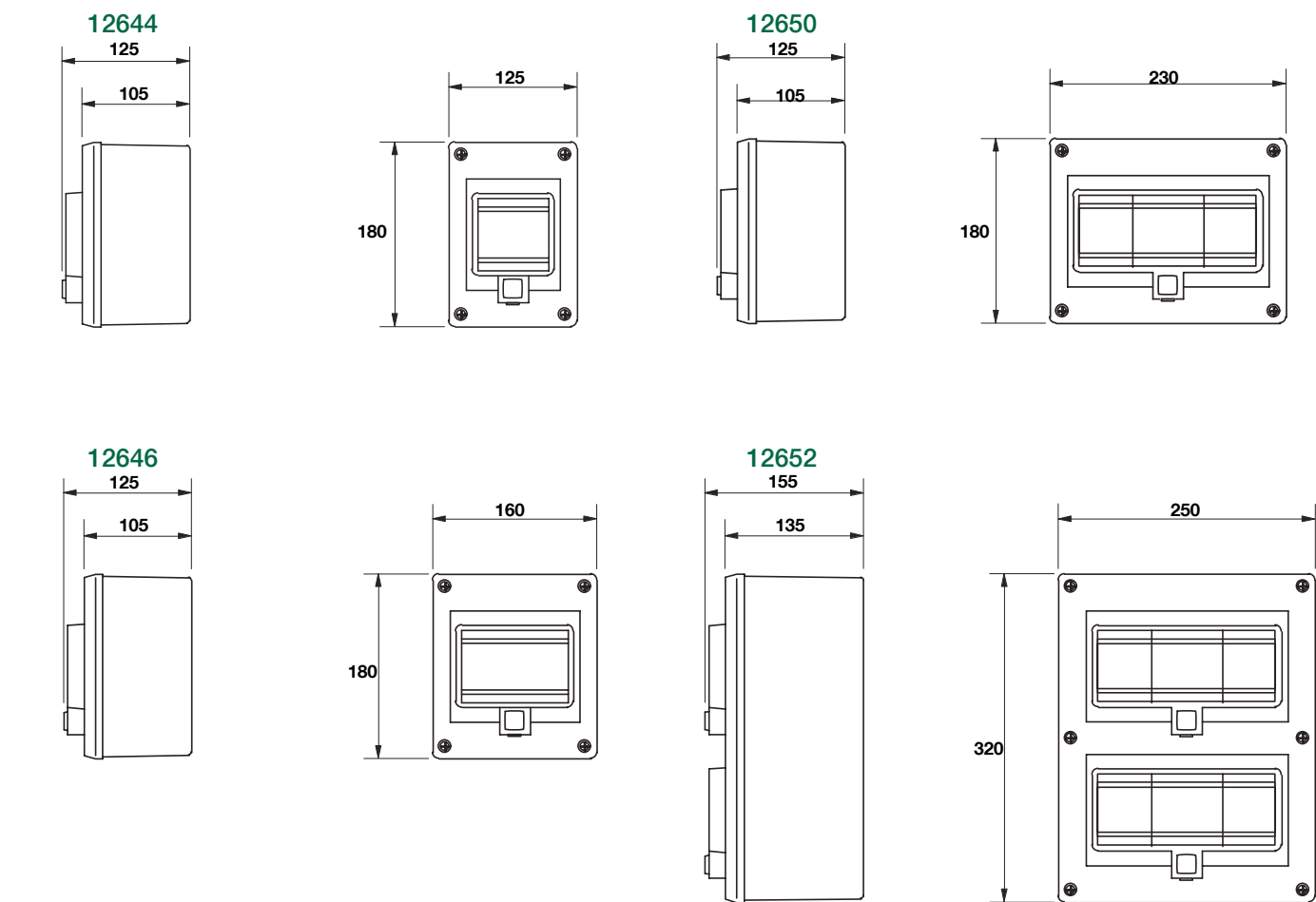
S800-RD + S800-RHE



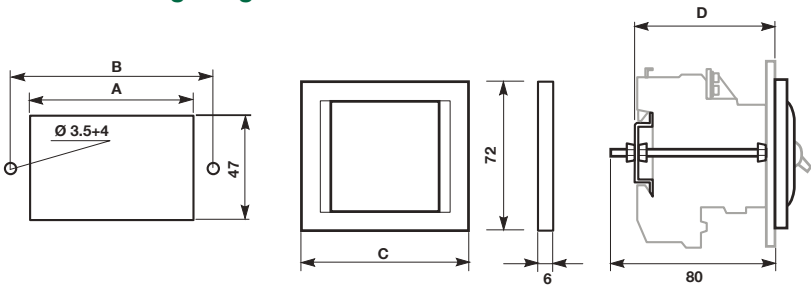
Technical details & dimensions

System Pro M Compact

IP55 Plastic enclosures for S200 series



Rear mounting flange



Type	A	B	C
ME1-1	18	40	50
ME2-2	36	57.5	67
ME3-3	54	75.5	85
ME4-4	72	93	103
ME6-6	108	129	139
ME8-8	144	164	172

Technical details & dimensions

System Pro M Compact



Functions and classification criteria for RCDs

A residual current operated circuit-breaker is an amperometric protection device which is tripped when the system leaks a significant current to earth.

This device continuously calculates the vector sum of the single-phase or three-phase system line currents and while the sum is equal to zero allows electricity to be supplied. This supply is rapidly interrupted if the sum exceeds a value preset according to the sensitivity of the device.

Residual current operated circuit-breakers can be classed according to four parameters:

- type of construction
- detectable wave form
- tripping sensitivity
- tripping time.

Depending on the type of construction, RCDs may be classed as:

- RCCBs (without overcurrent protection releaser incorporated)

RCCBs are only sensitive to current leakage to earth. They must be used in series with an MCB or fuse which protects them from the potentially damaging thermal and dynamic stresses of any overcurrents.

These devices are used in systems already equipped with MCBs which preferably limit the specific energy passing through, also acting as the main disconnecting switches upstream of any derived MCBs (e.g.: domestic consumer unit).

According to the wave form of the earth leakage currents they are sensitive to, the RCDs may be classed as:

- AC type (for alternating current only)
- A type (for alternating and/or pulsating current with DC components)

AC type RCDs are suitable for all systems where users have sinusoidal earth current.

They are not sensitive to impulsive leakage currents up to a peak of 250 A (8/20 wave form) such as those which may occur due to overlapping voltage impulses on the mains (e.g.: insertion of fluorescent bulbs, X-ray equipment, data processing systems and SCR controls).

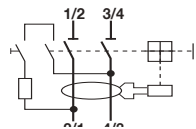
A type RCDs are not sensitive to impulsive currents up to a peak of 250 A (8/20 wave form).

They are particularly suitable for protecting systems in which the user equipment has electronic devices for rectifying the current or phase cutting adjustment of a physical quantity (speed temperature, light intensity, etc.) supplied directly by the mains without the insertion of transformers and insulated in class I (class II is, by definition, free of faults to earth). These devices may generate a pulsating fault current with DC components which the A type RCD can recognise.

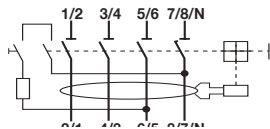
Technical details & dimensions

System Pro M Compact

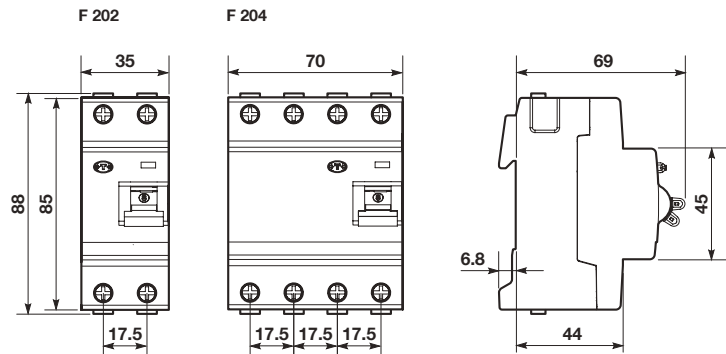
F202



F204



Dimensions



Technical details & dimensions

System Pro M Compact

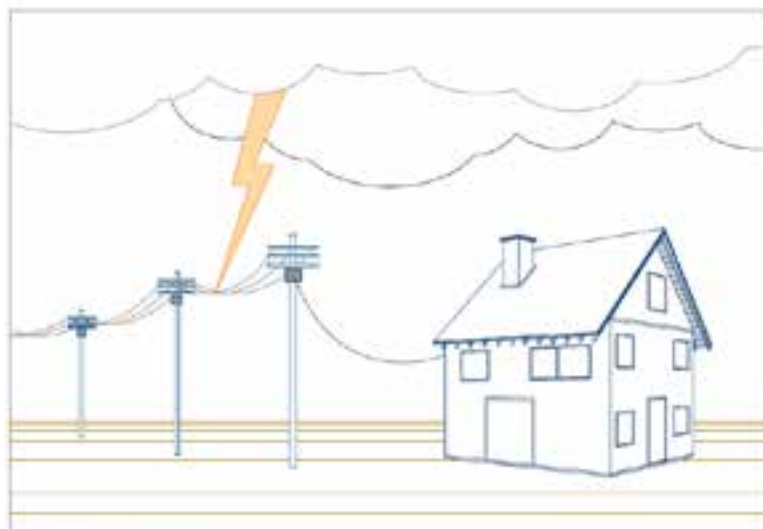
Overvoltages due to direct lightning strikes

These can take two forms

- When lightning strikes a lightning conductor or the roof of a building which is earthed, the lightning current is dissipated into the ground. The impedance of the ground and current flowing through it, create large difference of potential; this is the overvoltage. This overvoltage then propagates throughout the building via cables, damaging equipment along the way
- When lightning strikes a low voltage overhead cable, it will conduct high intensity currents. These will penetrate the building, also creating high voltages. The damage caused by this type of overvoltage is usually considerable and can have major financial consequences. For example, a fire in the electrical switchboard can destroy industrial equipment and even the building itself.



Direct lightning strike on a lightning conductor or the roof of a building



Direct lightning strike on an overhead line

Technical details & dimensions

System Pro M Compact

Overvoltages due to the indirect effects of lightning strikes

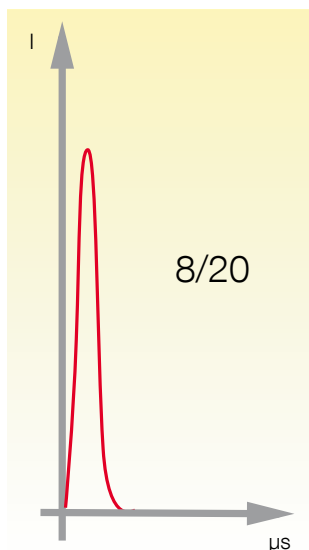
The overvoltage mentioned above can also occur when lightning strikes close to a building, due to the increase in potential of the ground at the point of impact.

The electro-magnetic fields created by the lightning current will generate inductive and capacitive couplings, resulting in other overvoltages. Within a radius of several hundreds of meters, or even several kilometres, the electro-magnetic field caused by lightnings in the clouds can also create sudden increases in voltage. Although the consequences are less serious than in the previous case, irreparable damage is caused to sensitive pieces of equipment such as fax machines, computer power supplies and safety and communication systems.



Technical details & dimensions

System Pro M Compact



Type 2 Surge Arresters
 I_{max} : current wave

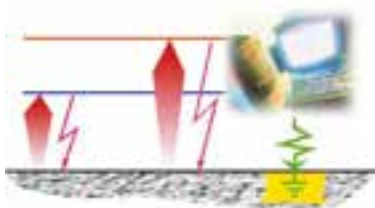
8/20 wave:

Current waveform which passes through equipment when subjected to an overvoltage (low energy).

Type 2 surge arrester:

Surge arrester designed to run-off energy caused by an overvoltage comparable to that of an indirect lightning strike or an operating overvoltage. It has successfully passed testing to the standard with the 8/20 wave (class II test).

7



Common mode and/or differential mode protection

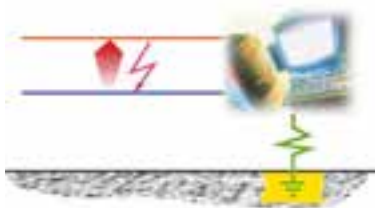
Common mode

Common mode overvoltages appear between the live conductors and earth, e.g. phase/earth or neutral/earth.

A live conductor not only refers to the phase conductors but also to the neutral conductor.

This overvoltage mode destroys equipment connected to earth (class I equipment) and also equipment not connected to earth (class II equipment) which is located near an earthed mass and which does not have sufficient electrical isolation (a few kilovolts).

Class II equipment not located near an earthed mass is theoretically protected from this type of attack.



Differential mode

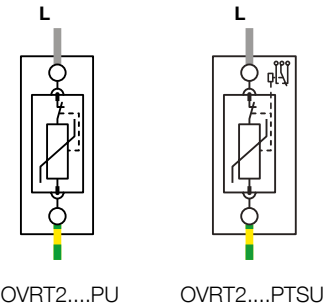
Differential mode overvoltages circulate between live conductors: phase/phase or phase/neutral.

These overvoltages have a potentially high damaging effect for all equipment connected to the electrical network, especially 'sensitive' equipment.

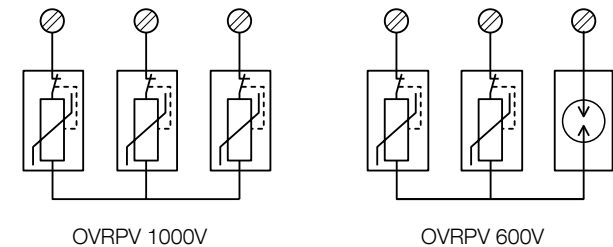
Technical details & dimensions

System Pro M Compact

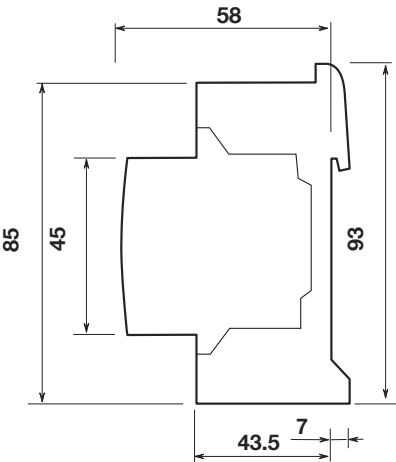
Pluggable Type 2 SPD



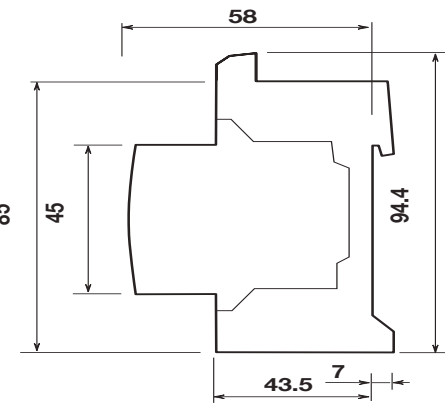
Photovoltaic SPD



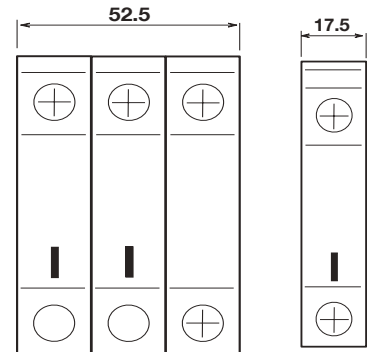
OVRT2...PU



OVRT2...PTSU



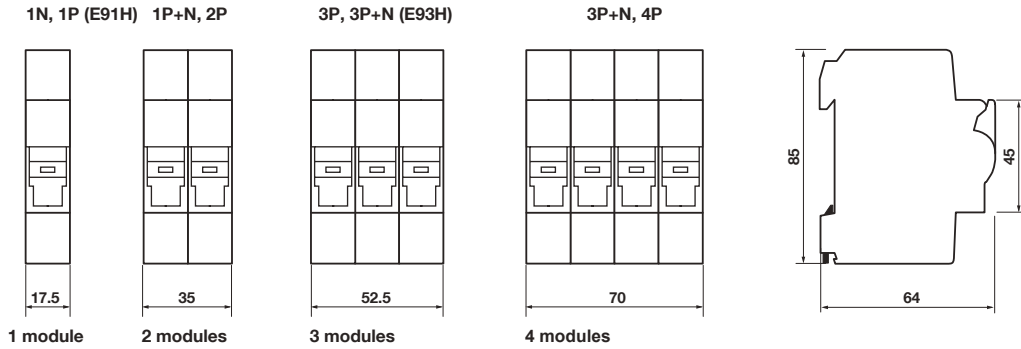
OVRPV



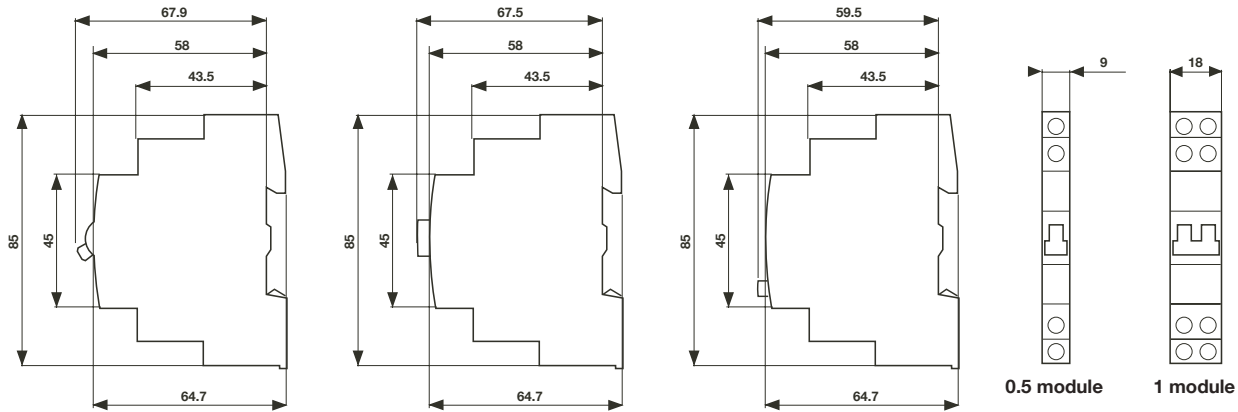
Technical details & dimensions

System Pro M Compact

E90 series



E210 series



For your notes

Handwriting practice lines consisting of 20 horizontal dotted lines.

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