

Electrical installation solutions for buildings

SMISLINE TP plug-in system

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Plug-in system

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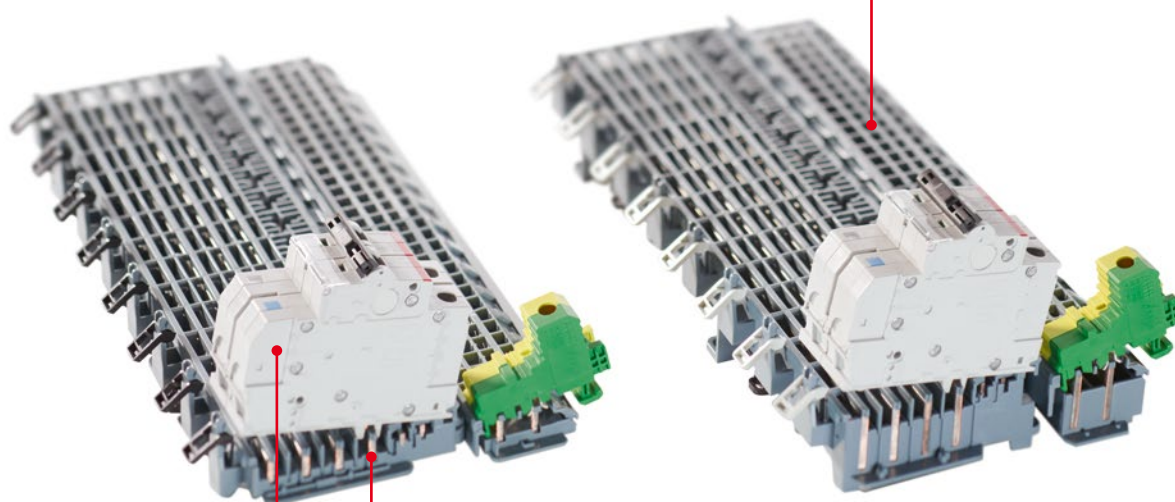
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SMISLINE TP plug-in system

Changes are never been easier

SMISLINE TP ensures that load-free devices and components can be snapped on and off under voltage without the need for additional personal protective equipment to guard against electrical hazards.

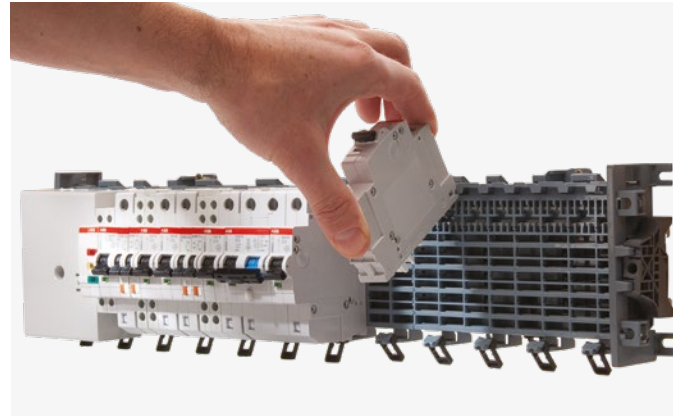
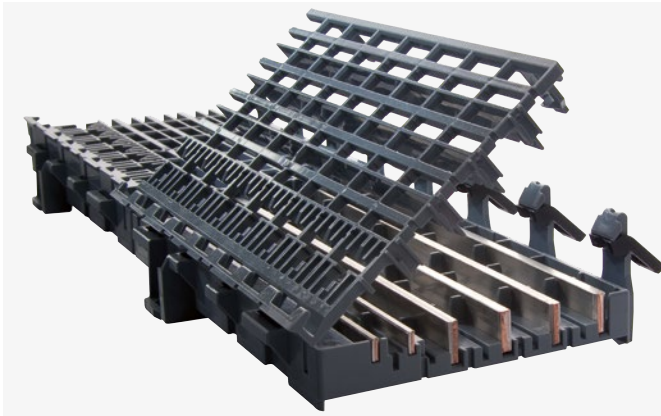


It opens up to a completely new prospects for you when it comes to installation, operation and flexibility.

The world's first pluggable socket system. 125A system and the new 250A Power Bar system.

SMISLINE TP plug-in system

Changes are never been easier



Even safer: Protection against electrical hazards

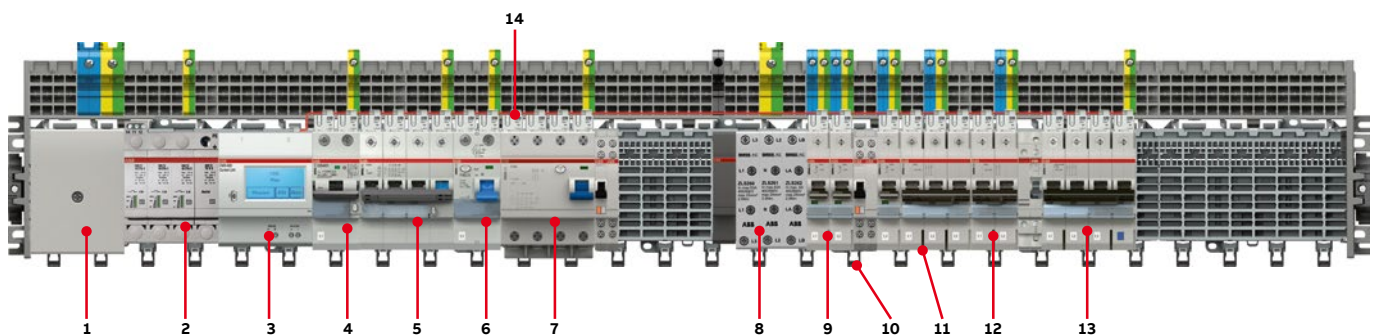
We have upgraded our unique SMISLINE socket system even further through the addition of a pioneering innovation. With the new SMISLINE TP system, components can now be plugged in or unplugged load-free without any risk from electrical current running through the body.

The SMISLINE TP pluggable socket system is completely finger-safe (IP2XB) – when devices are plugged in and unplugged, the system is always touch-proof. This means that SMISLINE TP prevents any danger to personnel from switching arcs or accidental arcing.

Even more flexible: make additions and changes during on-going operation

Pluggable devices can be added and changed quickly, safely and simply during ongoing operation. And this can be done without any need for personal protective equipment.

This means that you benefit from more flexibility, savings on installation and maintenance – and improved safety. SMISLINE TP provides greater availability and operating safety than conventional systems.



- 1 Incoming block 125/160A
- 2 Surge arrester
- 3 Control unit for Current measurement system
- 4 2-pole residual current operated circuit breaker with overcurrent protection
- 5 4-pole residual current operated circuit breaker with overcurrent protection

- 6 2-pole residual current operated circuit breaker
- 7 4-pole residual current operated circuit breaker
- 8 Incoming block 63A
- 9 Miniature circuit breaker 1 pole
- 10 Device latch
- 11 Miniature circuit breaker 3 poles

- 12 Miniature circuit breaker 2 poles
- 13 4-pole residual current operated circuit breaker with overcurrent protection
- 14 Current measurement sensor

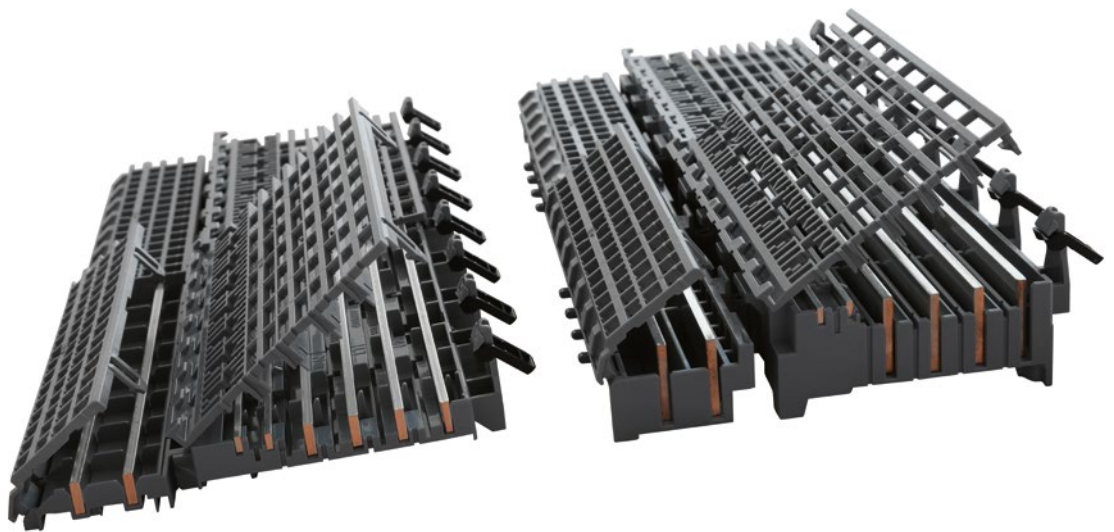
Power behind bars

The world's safest socket system

Small cause, large effect: as the world's first pluggable socket system, SMISSLINE TP ensures that load-free devices and components can be snapped on and off under voltage without the need for additional personal protective equipment to guard against electrical hazards. That opens up completely new prospects for you when it comes to installation, operation and flexibility.

New Power Bar System 250A

The new 250A system is now available in the shape of the SMISSLINE TP. The busbars have a rated amperage of 250A and therefore allow a end feed of 250A. This extends the spectrum of potential applications.



SMISLINE TP plug-in system

MCBs S 400 series

			S400M and S400 UC
General Data			IEC/EN 60898-1 S400 B,C,D,K°, IEC/EN 60947-2 S400 C,K,UCC, UCK
	Poles		1P, 1P+NP, 2P, 3P, 3P+NP
	Tripping characteristics		B,C,D,K, UCC, UCZ
	Rated current I _n	A	0.5 ... 63
	Rated frequency f	Hz	50/60 Hz (162/3 on request)
	Rated insulation voltage U _i acc. to DIN EN 60664-1	V	400 VAC
	Rated impulse withstand voltage U _{imp} . (1.2/50 μs)	kV	4 kV
	Overvoltage category		III
	Pollution degree		2
Data acc. to IEC/ EN 60898-1	Rated operational voltage U _e	V	1P: 230/400 V AC; 1P+N: 230 V AC ; 2...4P: 400 V AC; 3P+N: 400 V AC
	Max. power frequency recovery voltage (U _{max})	V	1P: 253 V AC; 1P+N: 253 V AC; 2P: 440 V AC; 3...4P: 440 V AC; 3P+N: 440 V AC; 1P: 72 V DC; 2P: 125 V DC
	Rated short-circuit capacity I _{cn}	kA	6 kA S400E 10 kA S400M
	Energy limiting class		3
	Reference temperature for tripping characteristics	°C	C, D: 30 °C
	Electrical and Mechanical Endurance	ops.	10 000 ops.
	Max. power frequency recovery voltage (U _{max})	V	254/440 V AC 1P: 60 V DC 2P: 125 V DC for S400M 1P: 125 V DC 2P: 250 V DC for S400 UCC and UCZ
Data acc. to IEC/ EN 60947-2	Rated ultimate short-circuit capacity I _{cu}	kA	25 kA (0,5 up to 16 A, 240/415 V) 0,5 to 2 A 50 kA on request 15 kA (20 up to 63 A, 240/415 V) 15 kA (0,5 up to 16 A, 254/440 V) 6 kA (20 up to 63 A, 254/440 V) S400UC: 10 kA (0,5.63A, 220 V d.c. 1pole) S400UC: 20 kA (0,5.63A, 110 V d.c. 1pole) S400UC: 25 kA (0,5.63A, 220 V d.c. 2pole) S400UC: 10 kA (0,5.63A, 440 V d.c. 2pole) S400UC: 10 kA (0,5.63A, 230/400 V)
	Rated service short-circuit capacity I _{cs}	kA	15 kA (0,5 up to 16 A, 240/415 V) 7,5 kA (20 up to 63 A, 240/415 V) 6 kA (0,5 up to 16 A, 254/440 V) 3 kA (20 up to 63 A, 254/440 V) S400UC: 10 kA (0,5.63A, 220 V d.c. 1pole) S400UC: 10 kA (0,5.63A, 110 V d.c. 1pole) S400UC: 20 kA (0,5.63A, 220 V d.c. 2pole) S400UC: 10 kA (0,5.63A, 440 V d.c. 2pole) S400UC: 6 kA (0,5.63A, 230/400 V)
	Dielectric test voltage	kV	
	Reference temperature for tripping characteristics	°C	C: 30 °C K: 40 °C
	Electrical and Mechanical Endurance	ops.	I _n < 32 A: 20 000 operating cycles I _n ≥ 32 A: 10 000 operating cycles
	Housing		Insulation group I, RAL 7035
	Toggle		Insulation group II, black, sealable
	Classification acc. To NF F 126-101, NF F 16-102		
	Protection degree acc. to EN 60529		IP20*, IP40 in enclosure with cover
Mechanical Data	Mechanical endurance	ops.	20 000 ops.
	Shock resistance acc. to IEC/EN 60068-2-30		
	Vibration resistance acc. to IEC/EN 60068-2-6		5 g – 20 cycles at 5 ... 150 ... 5 Hz with load 0.8 I _n
	Environmental conditions (damp heat) acc. to 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
	Standared Cross-section of conductors (top/ bottom)	mm ²	top 0.75–25 mm ² /bottom no terminal pluggable MCB
	Flexible Cross-section of conductors (top/ bottom)	mm ²	
	Tightening torque	Nm in-lbs.	2.8 Nm
Installation	Screwdriver		No. 2 Pozidrive
	Mounting		plug in on bus bar system SMISLINE
	Mounting position		any
	Supply		any
	Mounting dimensions acc. to DIN 43880		
Dimensions and weight	Pole dimensions (H x D x W)	mm	91x18x82
	Pole weight	g	110

SMISLINE TP plug-in system

MCBs S 400 M series 10 000 B characteristic



S 401 M



S 402 M



S 403 M

S400M Characteristic B

Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn=10kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
			In A	EAN			
1	4	0101214	S401 M-B 4	2CCS571001R0045		0.110	10
	6	0101221	S401 M-B 6	2CCS571001R0065		0.110	10
	8	0108411	S401 M-B 8	2CCS571001R0085		0.110	10
	10	0101238	S401 M-B 10	2CCS571001R0105		0.110	10
	13	0101245	S401 M-B 13	2CCS571001R0135		0.110	10
	16	0101252	S401 M-B 16	2CCS571001R0165		0.110	10
	20	0101269	S401 M-B 20	2CCS571001R0205		0.110	10
	25	0101276	S401 M-B 25	2CCS571001R0255		0.110	10
	32	0101283	S401 M-B 32	2CCS571001R0325		0.110	10
	40	0101290	S401 M-B 40	2CCS571001R0405		0.110	10
	50	0101306	S401 M-B 50	2CCS571001R0505		0.110	10
63	0101313	S401 M-B 63	2CCS571001R0635		0.110	10	
2	4	0101986	S402 M-B 4	2CCS572001R0045		0.221	5
	6	0101993	S402 M-B 6	2CCS572001R0065		0.221	5
	8	0108428	S402 M-B 8	2CCS572001R0085		0.221	5
	10	0102006	S402 M-B 10	2CCS572001R0105		0.221	5
	13	0102013	S402 M-B 13	2CCS572001R0135		0.221	5
	16	0102020	S402 M-B 16	2CCS572001R0165		0.221	5
	20	0102037	S402 M-B 20	2CCS572001R0205		0.221	5
	25	0102044	S402 M-B 25	2CCS572001R0255		0.221	5
	32	0102051	S402 M-B 32	2CCS572001R0325		0.221	5
	40	0102068	S402 M-B 40	2CCS572001R0405		0.221	5
	50	0102075	S402 M-B 50	2CCS572001R0505		0.221	5
63	0102082	S402 M-B 63	2CCS572001R0635		0.221	5	
3	4	0102754	S403 M-B 4	2CCS573001R0045		0.322	3
	6	0102761	S403 M-B 6	2CCS573001R0065		0.322	3
	8	0108435	S403 M-B 8	2CCS573001R0085		0.322	3
	10	0102778	S403 M-B 10	2CCS573001R0105		0.322	3
	13	0102785	S403 M-B 13	2CCS573001R0135		0.322	3
	16	0102792	S403 M-B 16	2CCS573001R0165		0.322	3
	20	0102808	S403 M-B 20	2CCS573001R0205		0.322	3
	25	0102815	S403 M-B 25	2CCS573001R0255		0.322	3
	32	0102822	S403 M-B 32	2CCS573001R0325		0.322	3
	40	0102839	S403 M-B 40	2CCS573001R0405		0.322	3
	50	0102846	S403 M-B 50	2CCS573001R0505		0.322	3
	63	0102853	S403 M-B 63	2CCS573001R0635		0.322	3

SMISLINE TP plug-in system

MCBs S 400 M series 10000 C characteristic



S 401 M



S 402 M



S 403 M

S400M Characteristic C

Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			In A	EAN	Type code	Order code	
1	0.5	0101320	S401 M-C 0.5	2CCS571001R0984		0.110	10
	1	0101337	S401 M-C 1	2CCS571001R0014		0.110	10
	1.6	0101344	S401 M-C 1.6	2CCS571001R0974		0.110	10
	2	0101351	S401 M-C 2	2CCS571001R0024		0.110	10
	3	0101368	S401 M-C 3	2CCS571001R0034		0.110	10
	4	0101375	S401 M-C 4	2CCS571001R0044		0.110	10
	6	0101382	S401 M-C 6	2CCS571001R0064		0.110	10
	8	0101399	S401 M-C 8	2CCS571001R0084		0.110	10
	10	0101405	S401 M-C 10	2CCS571001R0104		0.110	10
	13	0101412	S401 M-C 13	2CCS571001R0134		0.110	10
	16	0101429	S401 M-C 16	2CCS571001R0164		0.110	10
	20	0101436	S401 M-C 20	2CCS571001R0204		0.110	10
	25	0101443	S401 M-C 25	2CCS571001R0254		0.110	10
	32	0101450	S401 M-C 32	2CCS571001R0324		0.110	10
	40	0101467	S401 M-C 40	2CCS571001R0404		0.110	10
	50	0101474	S401 M-C 50	2CCS571001R0504		0.110	10
	63	0101481	S401 M-C 63	2CCS571001R0634		0.110	10
2	0.5	0102099	S402 M-C 0.5	2CCS572001R0984		0.221	5
	1	0102105	S402 M-C 1	2CCS572001R0014		0.221	5
	1.6	0102112	S402 M-C 1.6	2CCS572001R0974		0.221	5
	2	0102129	S402 M-C 2	2CCS572001R0024		0.221	5
	3	0102136	S402 M-C 3	2CCS572001R0034		0.221	5
	4	0102143	S402 M-C 4	2CCS572001R0044		0.221	5
	6	0102150	S402 M-C 6	2CCS572001R0064		0.221	5
	8	0102167	S402 M-C 8	2CCS572001R0084		0.221	5
	10	0102174	S402 M-C 10	2CCS572001R0104		0.221	5
	13	0102181	S402 M-C 13	2CCS572001R0134		0.221	5
	16	0102198	S402 M-C 16	2CCS572001R0164		0.221	5
	20	0102204	S402 M-C 20	2CCS572001R0204		0.221	5
	25	0102211	S402 M-C 25	2CCS572001R0254		0.221	5
	32	0102228	S402 M-C 32	2CCS572001R0324		0.221	5
	40	0102235	S402 M-C 40	2CCS572001R0404		0.221	5
	50	0102242	S402 M-C 50	2CCS572001R0504		0.221	5
	63	0102259	S402 M-C 63	2CCS572001R0634		0.221	5
3	0.5	0102860	S403 M-C 0.5	2CCS573001R0984		0.322	3
	1	0102877	S403 M-C 1	2CCS573001R0014		0.322	3
	1.6	0102884	S403 M-C 1.6	2CCS573001R0974		0.322	3
	2	0102891	S403 M-C 2	2CCS573001R0024		0.322	3
	3	0102907	S403 M-C 3	2CCS573001R0034		0.322	3
	4	0102914	S403 M-C 4	2CCS573001R0044		0.322	3
	6	0102921	S403 M-C 6	2CCS573001R0064		0.322	3
	8	0102938	S403 M-C 8	2CCS573001R0084		0.322	3
	10	0102945	S403 M-C 10	2CCS573001R0104		0.322	3
	13	0102952	S403 M-C 13	2CCS573001R0134		0.322	3
	16	0102969	S403 M-C 16	2CCS573001R0164		0.322	3
	20	0102976	S403 M-C 20	2CCS573001R0204		0.322	3
	25	0102983	S403 M-C 25	2CCS573001R0254		0.322	3
	32	0102990	S403 M-C 32	2CCS573001R0324		0.322	3
	40	0103003	S403 M-C 40	2CCS573001R0404		0.322	3
	50	0103010	S403 M-C 50	2CCS573001R0504		0.322	3
	63	0103027	S403 M-C 63	2CCS573001R0634		0.322	3

SMISLINE TP plug-in system

MCBs S 400 M series 10000 D characteristic



S 401 M



S 402 M



S 403 M

S400M Characteristic D

Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn=10kA

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	0101498	S401 M-D 6	2CCS571001R0061		0.110	10
	8	0101504	S401 M-D 8	2CCS571001R0081		0.110	10
	10	0101511	S401 M-D 10	2CCS571001R0101		0.110	10
	13	0101528	S401 M-D 13	2CCS571001R0131		0.110	10
	16	0101535	S401 M-D 16	2CCS571001R0161		0.110	10
	20	0101542	S401 M-D 20	2CCS571001R0201		0.110	10
	25	0101559	S401 M-D 25	2CCS571001R0251		0.110	10
	32	0101566	S401 M-D 32	2CCS571001R0321		0.110	10
	40	0101573	S401 M-D 40	2CCS571001R0401		0.110	10
	50	0101580	S401 M-D 50	2CCS571001R0501		0.110	10
	63	0101597	S401 M-D 63	2CCS571001R0631		0.110	10
2	6	0102266	S402 M-D 6	2CCS572001R0061		0.221	5
	8	0102273	S402 M-D 8	2CCS572001R0081		0.221	5
	10	0102280	S402 M-D 10	2CCS572001R0101		0.221	5
	13	0102297	S402 M-D 13	2CCS572001R0131		0.221	5
	16	0102303	S402 M-D 16	2CCS572001R0161		0.221	5
	20	0102310	S402 M-D 20	2CCS572001R0201		0.221	5
	25	0102327	S402 M-D 25	2CCS572001R0251		0.221	5
	32	0102334	S402 M-D 32	2CCS572001R0321		0.221	5
	40	0102341	S402 M-D 40	2CCS572001R0401		0.221	5
	50	0102358	S402 M-D 50	2CCS572001R0501		0.221	5
	63	0102365	S402 M-D 63	2CCS572001R0631		0.221	5
3	6	0103034	S403 M-D 6	2CCS573001R0061		0.322	3
	8	0103041	S403 M-D 8	2CCS573001R0081		0.322	3
	10	0103058	S403 M-D 10	2CCS573001R0101		0.322	3
	13	0103065	S403 M-D 13	2CCS573001R0131		0.322	3
	16	0103072	S403 M-D 16	2CCS573001R0161		0.322	3
	20	0103089	S403 M-D 20	2CCS573001R0201		0.322	3
	25	0103096	S403 M-D 25	2CCS573001R0251		0.322	3
	32	0103102	S403 M-D 32	2CCS573001R0321		0.322	3
	40	0103119	S403 M-D 40	2CCS573001R0401		0.322	3
	50	0103126	S403 M-D 50	2CCS573001R0501		0.322	3
	63	0103133	S403 M-D 63	2CCS573001R0631		0.322	3

SMISLINE TP plug-in system

MCBs S 400 M series 5000-15000 K characteristic



S 401



S 402 M



S 403 M

S400M Characteristic K

Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits. Advantages: no nuisance tripping in the case of functional peak currents up to $10 \times I_n$, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu = 50 kA \leq 2A, 25 kA for 3 A \leq 16A, 15 kA for 32 A \leq 63 A

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	0101603	S401 M-K 0.5	2CCS571001R0157		0.110	10
	1	0101610	S401 M-K 1	2CCS571001R0217		0.110	10
	1.6	0101627	S401 M-K 1.6	2CCS571001R0257		0.110	10
	2	0101634	S401 M-K 2	2CCS571001R0277		0.110	10
	3	0101641	S401 M-K 3	2CCS571001R0317		0.110	10
	4	0101658	S401 M-K 4	2CCS571001R0337		0.110	10
	6	0101665	S401 M-K 6	2CCS571001R0377		0.110	10
	8	0101672	S401 M-K 8	2CCS571001R0407		0.110	10
	10	0101689	S401 M-K 10	2CCS571001R0427		0.110	10
	13	0101696	S401 M-K 13	2CCS571001R0447		0.110	10
	16	0101702	S401 M-K 16	2CCS571001R0467		0.110	10
	20	0101719	S401 M-K 20	2CCS571001R0487		0.110	10
	25	0101726	S401 M-K 25	2CCS571001R0517		0.110	10
	32	0101733	S401 M-K 32	2CCS571001R0537		0.110	10
	40	0101740	S401 M-K 40	2CCS571001R0557		0.110	10
	50	0101757	S401 M-K 50	2CCS571001R0577		0.110	10
2	0.5	0102372	S402 M-K 0.5	2CCS572001R0157		0.221	5
	1	0102389	S402 M-K 1	2CCS572001R0217		0.221	5
	1.6	0102396	S402 M-K 1.6	2CCS572001R0257		0.221	5
	2	0102402	S402 M-K 2	2CCS572001R0277		0.221	5
	3	0102419	S402 M-K 3	2CCS572001R0317		0.221	5
	4	0102426	S402 M-K 4	2CCS572001R0337		0.221	5
	6	0102433	S402 M-K 6	2CCS572001R0377		0.221	5
	8	0102440	S402 M-K 8	2CCS572001R0407		0.221	5
	10	0102457	S402 M-K 10	2CCS572001R0427		0.221	5
	13	0102464	S402 M-K 13	2CCS572001R0447		0.221	5
	16	0102471	S402 M-K 16	2CCS572001R0467		0.221	5
	20	0102488	S402 M-K 20	2CCS572001R0487		0.221	5
	25	0102495	S402 M-K 25	2CCS572001R0517		0.221	5
	32	0102501	S402 M-K 32	2CCS572001R0537		0.221	5
	40	0102518	S402 M-K 40	2CCS572001R0557		0.221	5
	50	0102525	S402 M-K 50	2CCS572001R0577		0.221	5
3	0.5	0103140	S403 M-K 0.5	2CCS573001R0157		0.322	3
	1	0103157	S403 M-K 1	2CCS573001R0217		0.322	3
	1.6	0103164	S403 M-K 1.6	2CCS573001R0257		0.322	3
	2	0103171	S403 M-K 2	2CCS573001R0277		0.322	3
	3	0103188	S403 M-K 3	2CCS573001R0317		0.322	3
	4	0103195	S403 M-K 4	2CCS573001R0337		0.322	3
	6	0103201	S403 M-K 6	2CCS573001R0377		0.322	3
	8	0103218	S403 M-K 8	2CCS573001R0407		0.322	3
	10	0103225	S403 M-K 10	2CCS573001R0427		0.322	3
	13	0103232	S403 M-K 13	2CCS573001R0447		0.322	3
	16	0103249	S403 M-K 16	2CCS573001R0467		0.322	3
	20	0103256	S403 M-K 20	2CCS573001R0487		0.322	3
	25	0103263	S403 M-K 25	2CCS573001R0517		0.322	3
	32	0103270	S403 M-K 32	2CCS573001R0537		0.322	3
	40	0103287	S403 M-K 40	2CCS573001R0557		0.322	3
	50	0103294	S403 M-K 50	2CCS573001R0577		0.322	3
	63	0103300	S403 M-K 63	2CCS573001R0597		0.322	3

SMISLINE TP plug-in system

MCBs S 400 M series 10 000 B characteristic



S 402 M



S 403 M

S400M Characteristic B-NP

Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems. The neutral is full protected.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn=10 kA

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	6	0103317	S401 M-B 6NP	2CCS571103R8065		0.221	5
	8	0108473	S401 M-B 8NP	2CCS571103R8085		0.221	5
	10	0103324	S401 M-B 10NP	2CCS571103R8105		0.221	5
	13	0103331	S401 M-B 13NP	2CCS571103R8135		0.221	5
	16	0103348	S401 M-B 16NP	2CCS571103R8165		0.221	5
	20	0103355	S401 M-B 20NP	2CCS571103R8205		0.221	5
	25	0103362	S401 M-B 25NP	2CCS571103R8255		0.221	5
	32	0103379	S401 M-B 32NP	2CCS571103R8325		0.221	5
	40	0103386	S401 M-B 40NP	2CCS571103R8405		0.221	5
	50	0103393	S401 M-B 50NP	2CCS571103R8505		0.221	5
	63	0103409	S401 M-B 63NP	2CCS571103R8635		0.221	5
4	6	0103782	S403 M-B 6NP	2CCS573103R8065		0.428	2
	8	0108510	S403 M-B 8NP	2CCS573103R8085		0.428	2
	10	0103799	S403 M-B 10NP	2CCS573103R8105		0.428	2
	13	0103805	S403 M-B 13NP	2CCS573103R8135		0.428	2
	16	0103812	S403 M-B 16NP	2CCS573103R8165		0.428	2
	20	0103829	S403 M-B 20NP	2CCS573103R8205		0.428	2
	25	0103836	S403 M-B 25NP	2CCS573103R8255		0.428	2
	32	0103843	S403 M-B 32NP	2CCS573103R8325		0.428	2
	40	0103850	S403 M-B 40NP	2CCS573103R8405		0.428	2
	50	0103867	S403 M-B 50NP	2CCS573103R8505		0.428	2
	63	0103874	S403 M-B 63NP	2CCS573103R8635		0.428	2

SMISLINE TP plug-in system

MCBs S 400 M series 10 000 C characteristic



S 402 M



S 403 M

S400M Characteristic C-NP

Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current. The neutral is full protected.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=10 kA

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	2	0108480	S401 M-C 2NP	2CCS571103R8024		0.221	5
	3	0108497	S401 M-C 3NP	2CCS571103R8034		0.221	5
	4	0108503	S401 M-C 4NP	2CCS571103R8044		0.221	5
	6	0103416	S401 M-C 6NP	2CCS571103R8064		0.221	5
	8	0103423	S401 M-C 8NP	2CCS571103R8084		0.221	5
	10	0103430	S401 M-C 10NP	2CCS571103R8104		0.221	5
	13	0103447	S401 M-C 13NP	2CCS571103R8134		0.221	5
	16	0103454	S401 M-C 16NP	2CCS571103R8164		0.221	5
	20	0103461	S401 M-C 20NP	2CCS571103R8204		0.221	5
	25	0103478	S401 M-C 25NP	2CCS571103R8254		0.221	5
	32	0103485	S401 M-C 32NP	2CCS571103R8324		0.221	5
	40	0103492	S401 M-C 40NP	2CCS571103R8404		0.221	5
	50	0103508	S401 M-C 50NP	2CCS571103R8504		0.221	5
	63	0103515	S401 M-C 63NP	2CCS571103R8634		0.221	5
4	2	0108527	S403 M-C 2NP	2CCS573103R8024		0.428	2
	3	0108534	S403 M-C 3NP	2CCS573103R8034		0.428	2
	4	0108541	S403 M-C 4NP	2CCS573103R8044		0.428	2
	6	0103881	S403 M-C 6NP	2CCS573103R8064		0.428	2
	8	0103898	S403 M-C 8NP	2CCS573103R8084		0.428	2
	10	0103904	S403 M-C 10NP	2CCS573103R8104		0.428	2
	13	0103911	S403 M-C 13NP	2CCS573103R8134		0.428	2
	16	0103928	S403 M-C 16NP	2CCS573103R8164		0.428	2
	20	0103935	S403 M-C 20NP	2CCS573103R8204		0.428	2
	25	0103942	S403 M-C 25NP	2CCS573103R8254		0.428	2
	32	0103959	S403 M-C 32NP	2CCS573103R8324		0.428	2
	40	0103966	S403 M-C 40NP	2CCS573103R8404		0.428	2
	50	0103973	S403 M-C 50NP	2CCS573103R8504		0.428	2
	63	0103980	S403 M-C 63NP	2CCS573103R8634		0.428	2

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 D characteristic



S 402 M



S 403 M

S400M Characteristic D-NP

Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps). The neutral is full protected.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn=10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
			Type code	Order code			
	In A	EAN				kg	pc.
2	10	0103522	S401 M-D 10NP	2CCS571103R8101		0.221	5
	13	0103539	S401 M-D 13NP	2CCS571103R8131		0.221	5
	16	0103546	S401 M-D 16NP	2CCS571103R8161		0.221	5
	20	0103553	S401 M-D 20NP	2CCS571103R8201		0.221	5
	25	0103560	S401 M-D 25NP	2CCS571103R8251		0.221	5
	32	0103577	S401 M-D 32NP	2CCS571103R8321		0.221	5
	40	0103584	S401 M-D 40NP	2CCS571103R8401		0.221	5
	50	0103591	S401 M-D 50NP	2CCS571103R8501		0.221	5
	63	0103607	S401 M-D 63NP	2CCS571103R8631		0.221	5
4	10	0103997	S403 M-D 10NP	2CCS573103R8101		0.428	2
	13	0104000	S403 M-D 13NP	2CCS573103R8131		0.428	2
	16	0104017	S403 M-D 16NP	2CCS573103R8161		0.428	2
	20	0104024	S403 M-D 20NP	2CCS573103R8201		0.428	2
	25	0104031	S403 M-D 25NP	2CCS573103R8251		0.428	2
	32	0104048	S403 M-D 32NP	2CCS573103R8321		0.428	2
	40	0104055	S403 M-D 40NP	2CCS573103R8401		0.428	2
	50	0104062	S403 M-D 50NP	2CCS573103R8501		0.428	2
	63	0104079	S403 M-D 63NP	2CCS573103R8631		0.428	2

SMISSLINE TP plug-in system

MCBs S 400 M series 5 000-15 000 K characteristic



S 402 M



S 403 M

S400M Characteristic K-NP

Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits.

Advantages: no nuisance tripping in the case of functional peak currents up to $10 \times I_n$, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines. The neutral is full protected.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

$I_{cu} = 50 \text{ kA} \leq 2 \text{ A}, 25 \text{ kA for } 3 \text{ A} \leq 16 \text{ A}, 15 \text{ kA for } 32 \text{ A} \leq 63 \text{ A}$

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	0.5	0103614	S401 M-K 0.5NP	2CCS571103R8157		0.221	5
	1	0103621	S401 M-K 1NP	2CCS571103R8217		0.221	5
	1.6	0103638	S401 M-K 1.6NP	2CCS571103R8257		0.221	5
	2	0103645	S401 M-K 2NP	2CCS571103R8277		0.221	5
	3	0103652	S401 M-K 3NP	2CCS571103R8317		0.221	5
	4	0103669	S401 M-K 4NP	2CCS571103R8337		0.221	5
	6	0103676	S401 M-K 6NP	2CCS571103R8377		0.221	5
	8	0103683	S401 M-K 8NP	2CCS571103R8407		0.221	5
	10	0103690	S401 M-K 10NP	2CCS571103R8427		0.221	5
	13	0103706	S401 M-K 13NP	2CCS571103R8447		0.221	5
	16	0103713	S401 M-K 16NP	2CCS571103R8467		0.221	5
	20	0103720	S401 M-K 20NP	2CCS571103R8487		0.221	5
	25	0103737	S401 M-K 25NP	2CCS571103R8517		0.221	5
	32	0103744	S401 M-K 32NP	2CCS571103R8537		0.221	5
	40	0103751	S401 M-K 40NP	2CCS571103R8557		0.221	5
	50	0103768	S401 M-K 50NP	2CCS571103R8577		0.221	5
	63	0103775	S401 M-K 63NP	2CCS571103R8597		0.221	5
4	0.5	0104086	S403 M-K 0.5NP	2CCS573103R8157		0.428	2
	1	0104093	S403 M-K 1NP	2CCS573103R8217		0.428	2
	1.6	0104109	S403 M-K 1.6NP	2CCS573103R8257		0.428	2
	2	0104116	S403 M-K 2NP	2CCS573103R8277		0.428	2
	3	0104123	S403 M-K 3NP	2CCS573103R8317		0.428	2
	4	0104130	S403 M-K 4NP	2CCS573103R8337		0.428	2
	6	0104147	S403 M-K 6NP	2CCS573103R8377		0.428	2
	8	0104154	S403 M-K 8NP	2CCS573103R8407		0.428	2
	10	0104161	S403 M-K 10NP	2CCS573103R8427		0.428	2
	13	0104178	S403 M-K 13NP	2CCS573103R8447		0.428	2
	16	0104185	S403 M-K 16NP	2CCS573103R8467		0.428	2
	20	0104192	S403 M-K 20NP	2CCS573103R8487		0.428	2
	25	0104208	S403 M-K 25NP	2CCS573103R8517		0.428	2
	32	0104215	S403 M-K 32NP	2CCS573103R8537		0.428	2
	40	0104222	S403 M-K 40NP	2CCS573103R8557		0.428	2
	50	0104239	S403 M-K 50NP	2CCS573103R8577		0.428	2
	63	0104246	S403 M-K 63NP	2CCS573103R8597		0.428	2

SMISLINE TP plug-in system

MCBs S 400 M-UC series 10000-25000 C characteristic,
DC application



1 P 220V d.c.



2 P 440V d.c.

S400UC Characteristic C

Function: protection and control of the circuits against overloads and short-circuits;
protection for resistive and inductive loads with low inrush current.

Applications: residential, commercial and industrial.

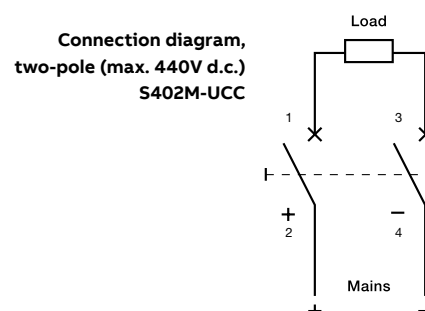
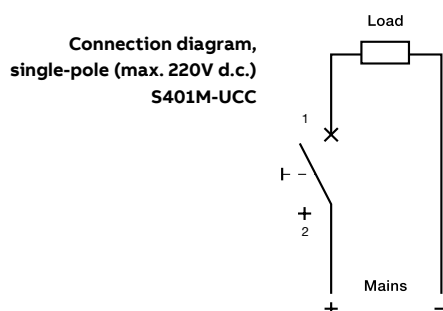
Standard: IEC/EN 60947-2

10 kA (0,5 up to 63 A, 220 V d.c. 1pole), 20 kA (0,5 up to 63 A, 110 V d.c. 1pole)

25 kA (0,5 up to 63 A, 220 V d.c. 2pole), 10 kA (0,5 up to 63 A, 440 V d.c. 2pole)

10 kA (0,5 up to 63 A, 230/400 V) a.c.

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	0109746	S401M-UCC0.5	2CCS561001R1984		0.110	10
	1	0109753	S401M-UCC1	2CCS561001R1014		0.110	10
	1.6	0109760	S401M-UCC1.6	2CCS561001R1974		0.110	10
	2	0109777	S401M-UCC2	2CCS561001R1024		0.110	10
	3	0109784	S401M-UCC3	2CCS571001R1034		0.110	10
	4	0109791	S401M-UCC4	2CCS571001R1044		0.110	10
	6	0109807	S401M-UCC6	2CCS571001R1064		0.110	10
	8	0109814	S401M-UCC8	2CCS571001R1084		0.110	10
	10	0109821	S401M-UCC10	2CCS571001R1104		0.110	10
	13	0109838	S401M-UCC13	2CCS571001R1134		0.110	10
	16	0109845	S401M-UCC16	2CCS571001R1164		0.110	10
	20	0109852	S401M-UCC20	2CCS571001R1204		0.110	10
	25	0109869	S401M-UCC25	2CCS571001R1254		0.110	10
	32	0109876	S401M-UCC32	2CCS571001R1324		0.110	10
	40	0109883	S401M-UCC40	2CCS571001R1404		0.110	10
	50	0109890	S401M-UCC50	2CCS571001R1504		0.110	10
	63	0109906	S401M-UCC63	2CCS571001R1634		0.110	10
2	0.5	0109913	S402M-UCC0.5	2CCS562001R1984		0.221	5
	1	0109920	S402M-UCC1	2CCS562001R1014		0.221	5
	1.6	0109937	S402M-UCC1.6	2CCS562001R1974		0.221	5
	2	0109944	S402M-UCC2	2CCS562001R1024		0.221	5
	3	0109951	S402M-UCC3	2CCS572001R1034		0.221	5
	4	0109968	S402M-UCC4	2CCS572001R1044		0.221	5
	6	0109975	S402M-UCC6	2CCS572001R1064		0.221	5
	8	0109982	S402M-UCC8	2CCS572001R1084		0.221	5
	10	0109999	S402M-UCC10	2CCS572001R1104		0.221	5
	13	0110001	S402M-UCC13	2CCS572001R1134		0.221	5
	16	0110018	S402M-UCC16	2CCS572001R1164		0.221	5
	20	0110025	S402M-UCC20	2CCS572001R1204		0.221	5
	25	0110032	S402M-UCC25	2CCS572001R1254		0.221	5
	32	0110049	S402M-UCC32	2CCS572001R1324		0.221	5
	40	0110056	S402M-UCC40	2CCS572001R1404		0.221	5
	50	0110063	S402M-UCC50	2CCS572001R1504		0.221	5
	63	0110070	S402M-UCC63	2CCS572001R1634		0.221	5



SMISLINE TP plug-in system

MCBs S 400 M-UC series 10000-25000 Z characteristic,
DC application



1 P 220V d.c.



2 P 440V d.c.

S400UC Characteristic Z

Function: protection and control of the electronic circuits against weak and long duration overloads and short-circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

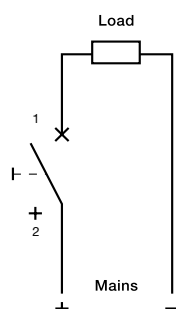
10 kA (0,5 up to 63 A, 220 V d.c. 1pole), 20 kA (0,5 up to 63 A, 110 V d.c. 1pole)

25 kA (0,5 up to 63 A, 220 V d.c. 2pole), 10 kA (0,5 up to 63 A, 440 V d.c. 2pole)

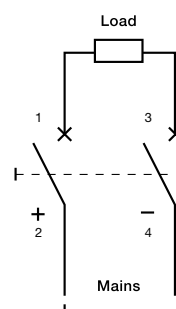
10 kA (0,5 up to 63 A, 230/400 V) a.c.

Number of poles	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	0110087	S401M-UCZ0.5	2CCS561001R1988		0.110	10
	1	0110094	S401M-UCZ1	2CCS561001R1018		0.110	10
	1.6	0110100	S401M-UCZ1.6	2CCS561001R1978		0.110	10
	2	0110117	S401M-UCZ2	2CCS561001R1028		0.110	10
	3	0110124	S401M-UCZ3	2CCS571001R1038		0.110	10
	4	0110131	S401M-UCZ4	2CCS571001R1048		0.110	10
	6	0110148	S401M-UCZ6	2CCS571001R1068		0.110	10
	8	0110155	S401M-UCZ8	2CCS571001R1088		0.110	10
	10	0110162	S401M-UCZ10	2CCS571001R1108		0.110	10
	13	0110179	S401M-UCZ13	2CCS571001R1138		0.110	10
	16	0110186	S401M-UCZ16	2CCS571001R1168		0.110	10
	20	0110193	S401M-UCZ20	2CCS571001R1208		0.110	10
	25	0110209	S401M-UCZ25	2CCS571001R1258		0.110	10
	32	0110216	S401M-UCZ32	2CCS571001R1328		0.110	10
	40	0110223	S401M-UCZ40	2CCS571001R1408		0.110	10
	50	0110230	S401M-UCZ50	2CCS571001R1508		0.110	10
	63	0110247	S401M-UCZ63	2CCS571001R1638		0.110	10
2	0.5	0110254	S402M-UCZ0.5	2CCS562001R1988		0.221	10
	1	0110261	S402M-UCZ1	2CCS562001R1018		0.221	10
	1.6	0110278	S402M-UCZ1.6	2CCS562001R1978		0.221	10
	2	0110285	S402M-UCZ2	2CCS562001R1028		0.221	10
	3	0110292	S402M-UCZ3	2CCS572001R1038		0.221	10
	4	0110308	S402M-UCZ4	2CCS572001R1048		0.221	10
	6	0110315	S402M-UCZ6	2CCS572001R1068		0.221	10
	8	0110322	S402M-UCZ8	2CCS572001R1088		0.221	10
	10	0110339	S402M-UCZ10	2CCS572001R1108		0.221	10
	13	0110346	S402M-UCZ13	2CCS572001R1138		0.221	10
	16	0110353	S402M-UCZ16	2CCS572001R1168		0.221	10
	20	0110360	S402M-UCZ20	2CCS572001R1208		0.221	10
	25	0110377	S402M-UCZ25	2CCS572001R1258		0.221	10
	32	0110384	S402M-UCZ32	2CCS572001R1328		0.221	10
	40	0110391	S402M-UCZ40	2CCS572001R1408		0.221	10
	50	0110407	S402M-UCZ50	2CCS572001R1508		0.221	10
	63	0110414	S402M-UCZ63	2CCS572001R1638		0.221	10

Connection diagram,
single-pole (max. 220V d.c.)
S401M-UCZ



Connection diagram,
two-pole (max. 440V d.c.)
S402M-UCZ

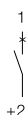


SMISLINE TP plug-in system

Miniature circuit breaker (MCB) S400 M-UC, DC application, $I_{cu} = 10 \dots 25 \text{ kA}$



1 P 220V=



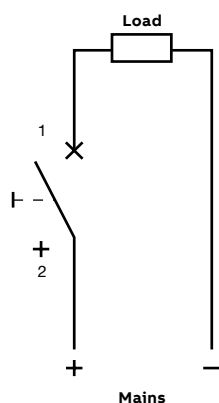
2 P 440V=



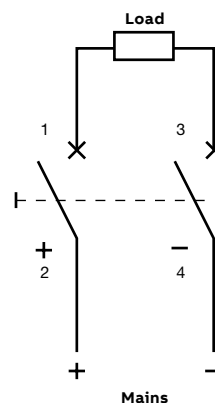
Z according to IEC/EN 60947-2

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
			Type code	Order code			
1	In A	EAN				kg	pc.
	0.5	011 0087	S401M-UCZ0.5	2CCS561001R1988		0.110	10
	1	011 0094	S401M-UCZ1	2CCS561001R1018		0.110	10
	1.6	011 0100	S401M-UCZ1.6	2CCS561001R1978		0.110	10
	2	011 0117	S401M-UCZ2	2CCS561001R1028		0.110	10
	3	011 0124	S401M-UCZ3	2CCS571001R1038		0.110	10
	4	011 0131	S401M-UCZ4	2CCS571001R1048		0.110	10
	6	011 0148	S401M-UCZ6	2CCS571001R1068		0.110	10
	8	011 0155	S401M-UCZ8	2CCS571001R1088		0.110	10
	10	011 0162	S401M-UCZ10	2CCS571001R1108		0.110	10
	13	011 0179	S401M-UCZ13	2CCS571001R1138		0.110	10
	16	011 0186	S401M-UCZ16	2CCS571001R1168		0.110	10
	20	011 0193	S401M-UCZ20	2CCS571001R1208		0.110	10
	25	011 0209	S401M-UCZ25	2CCS571001R1258		0.110	10
	32	011 0216	S401M-UCZ32	2CCS571001R1328		0.110	10
	40	011 0223	S401M-UCZ40	2CCS571001R1408		0.110	10
	50	011 0230	S401M-UCZ50	2CCS571001R1508		0.110	10
	63	011 0247	S401M-UCZ63	2CCS571001R1638		0.110	10
2	0.5	011 0254	S402M-UCZ0.5	2CCS562001R1988		0.221	10
	1	011 0261	S402M-UCZ1	2CCS562001R1018		0.221	10
	1.6	011 0278	S402M-UCZ1.6	2CCS562001R1978		0.221	10
	2	011 0285	S402M-UCZ2	2CCS562001R1028		0.221	10
	3	011 0292	S402M-UCZ3	2CCS572001R1038		0.221	10
	4	011 0308	S402M-UCZ4	2CCS572001R1048		0.221	10
	6	011 0315	S402M-UCZ6	2CCS572001R1068		0.221	10
	8	011 0322	S402M-UCZ8	2CCS572001R1088		0.221	10
	10	011 0339	S402M-UCZ10	2CCS572001R1108		0.221	10
	13	011 0346	S402M-UCZ13	2CCS572001R1138		0.221	10
	16	011 0353	S402M-UCZ16	2CCS572001R1168		0.221	10
	20	011 0360	S402M-UCZ20	2CCS572001R1208		0.221	10
	25	011 0377	S402M-UCZ25	2CCS572001R1258		0.221	10
	32	011 0384	S402M-UCZ32	2CCS572001R1328		0.221	10
	40	011 0391	S402M-UCZ40	2CCS572001R1408		0.221	10
	50	011 0407	S402M-UCZ50	2CCS572001R1508		0.221	10
	63	011 0414	S402M-UCZ63	2CCS572001R1638		0.221	10

Connection diagram, single-pole (max. 220 V=) S401M-UCZ



Connection diagram, two-pole (max. 440 V=) S402M-UCZ



SMISLINE TP plug-in system

Miniature circuit breaker (MCB) for UL489 240V SU401 technical features

Technical Data

General Data	
Standards	UL 489, CSA 22.2 No. 5
Poles	1P
Tripping characteristics	K
Rated current I_n	2 to 32 A
Rated frequency f	50/60 Hz
Overvoltage category	III
Pollution degree	3
Calibration temperature	40 °C
Mechanical Data	
Housing	RAL 7035
Contact position indication	Real CPI (green OFF / red ON)
Protection degree acc. to EN 60529	IP20*, IP40 in enclosure with cover
Mechanical endurance	10,000 ops.
Vibration resistance acc. to IEC/EN 60068-2-6	Frequency 2 – 13.2 Hz @ 1 mm Displacement; 13.2 – 100 Hz @ 0.7 g Frequency 5 – 150 – 5 Hz @ 1 g, 4 Sweeps
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90–96% and 25 °C/95–100%
Ambient temperature	–13 F... +131 F; –25... +55 °C
Storage temperature	–40 F... +158 F; –40... +70 °C
Installation	
Terminal at load side	Bi-directional cylinder-lift terminal
Cross-section of conductors	Solid, stranded: 35 mm ² / 35 mm ² single conductor CU only Flexible: 25 mm ² / 25 mm ² single conductor CU only AWG 14-8 single conductor CU only
Torque	2.8 Nm, 25 in. lbs.
Wire temperature	60/75 °C
Screwdriver	No. 2 Pozidrive
Mounting	SMISLINE TP only
Mounting position	Any
Pole weight	114 g

* Also fulfilling the requirement acc. to protection degree IPXXB

SMISLINE TP plug-in system

Miniature circuit breaker (MCB) SU401 M-K for UL489 I_{cu} 10 kA



Ordering Data						
Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece
			Type code	Order code		
	In A	EAN				kg
1	2	1493059	SU401M-K2	2CCF330023A0001		0.114
	3	1493073	SU401M-K3	2CCF330024A0001		0.114
	4	1493097	SU401M-K4	2CCF330025A0001		0.114
	6	1493110	SU401M-K6	2CCF330026A0001		0.114
	8	1493134	SU401M-K8	2CCF330027A0001		0.114
	10	1493158	SU401M-K10	2CCF330028A0001		0.114
	13	1493172	SU401M-K13	2CCF330029A0001		0.114
	16	1493196	SU401M-K16	2CCF330030A0001		0.114
	20	1493219	SU401M-K20	2CCF330031A0001		0.114
	25	1493233	SU401M-K25	2CCF330032A0001		0.114
	30	1493257	SU401M-K30	2CCF330033A0001		0.114
	32	1493271	SU401M-K32	2CCF330034A0001		0.114

SMISLINE TP plug-in system

Miniature circuit breaker (MCB) for UL489 277/480 V AC SUP400 technical features

Technical Data

General Data	
Standards	UL 489, CSA 22.2 No. 5
Rated voltage	277/480 V AC
Poles	1P, 2P, 3P
Tripping characteristics	K
Rated current I_n	2 to 30 A
Rated frequency f	50/60 Hz
Short circuit current rating (acc. to UL 489)	10 kA
Overvoltage category	III
Pollution degree	2
Calibration temperature	40 °C
Mechanical Data	
Housing	RAL 7035
Toggle	Black sealable
Contact position indication	Real CPI (green OFF / red ON)
L1/L2/L3 position indication	Yes
Protection degree acc. to EN 60529	IP20*, IP40 in enclosure with cover
Label holder	Yes
Mechanical endurance	10,000 ops.
Shock resistance acc. to IEC/EN 61373	5 g/30 ms, 3 shocks
Vibration resistance acc. to IEC/EN 60068-2-6	2 ... 13.2 Hz/1 mm 13.2 ... 100 Hz/0.7 g, 5 cycles 5 ... 150 ... 5 Hz/1 g, 4 sweeps
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90 ... 96 % and 25 °C/95 ... 100 %
Ambient temperature	−13 °F ... +131 °F; −25 ... +55 °C
Storage temperature	−40 °F ... +158 °F; −40 ... +70 °C
Installation	
Terminal at load side	Failsafe bi-directional cylinder-lift terminal with double slot 35/10 mm ²
Cross-section of conductors	Solid, stranded: 0.75 ÷ 35 mm ² (front slot), 0.75 ÷ 10 mm ² (rear slot), single conductor Cu only Flexible: 0.75 ÷ 25 mm ² (front side), 0.75 ÷ 10 mm ² (rear slot), single conductor CU only AWG 14-8 single conductor CU only
Torque	2.8 Nm, 25 in. lbs.
Stripping length	12.5 mm
Wire temperature	60/75 °C
Screwdriver	No. 2 Pozidrive
Terminal at line side	Movable plug-on terminal L1, L2, L3
Mounting	SMISLINE TP socket system only
Mounting position	Any
Dimensions and weight	
Pole weight	120 g

* Also fulfilling the requirement acc. to protection degree IPXXB

The devices are suitable with
 – S2C-H6RU (auxiliary contact)
 – S2C-S6RU (signal/auxiliary contact)
 – E210-DH (false pole 1/2 module)
 – SA (locking device)

SMISLINE TP plug-in system

Miniature circuit breaker SUP400 for branch circuit protection acc. to UL489

File E312425



Ordering Data


Number of poles	Rated current I _n	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	A	EAN	Type code	Order code		kg	pc.
1	2	1506759	SUP401M-K2	2CCG000142R0001		0.120	10
	3	1506766	SUP401M-K3	2CCG000143R0001		0.120	10
	4	1506773	SUP401M-K4	2CCG000144R0001		0.120	10
	5	1506865	SUP401M-K5	2CCG000153R0001		0.120	10
	6	1506780	SUP401M-K6	2CCG000145R0001		0.120	10
	8	1506797	SUP401M-K8	2CCG000146R0001		0.120	10
	10	1506803	SUP401M-K10	2CCG000147R0001		0.120	10
	13	1506810	SUP401M-K13	2CCG000148R0001		0.120	10
	15	1506872	SUP401M-K15	2CCG000154R0001		0.120	10
	16	1506827	SUP401M-K16	2CCG000149R0001		0.120	10
	20	1506834	SUP401M-K20	2CCG000150R0001		0.120	10
	25	1506841	SUP401M-K25	2CCG000151R0001		0.120	10
	30	1506858	SUP401M-K30	2CCG000152R0001		0.120	10

Ordering Data

Number of poles	Rated current I _n	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	A	EAN	Type code	Order code		kg	pc.
2	2	1506384	SUP402M-K2	2CCG000106R0001		0.240	5
	3	1506391	SUP402M-K3	2CCG000107R0001		0.240	5
	4	1506506	SUP402M-K4	2CCG000108R0001		0.240	5
	5	1506599	SUP402M-K5	2CCG000117R0001		0.240	5
	6	1506513	SUP402M-K6	2CCG000109R0001		0.240	5
	8	1506520	SUP402M-K8	2CCG000110R0001		0.240	5
	10	1506537	SUP402M-K10	2CCG000111R0001		0.240	5
	13	1506544	SUP402M-K13	2CCG000112R0001		0.240	5
	15	1506605	SUP402M-K15	2CCG000118R0001		0.240	5
	16	1506551	SUP402M-K16	2CCG000113R0001		0.240	5
	20	1506568	SUP402M-K20	2CCG000114R0001		0.240	5
	25	1506575	SUP402M-K25	2CCG000115R0001		0.240	5
	30	1506582	SUP402M-K30	2CCG000116R0001		0.240	5
3	2	1506612	SUP403M-K2	2CCG000119R0001		0.360	3
	3	1506629	SUP403M-K3	2CCG000120R0001		0.360	3
	4	1506636	SUP403M-K4	2CCG000121R0001		0.360	3
	5	1506728	SUP403M-K5	2CCG000130R0001		0.360	3
	6	1506643	SUP403M-K6	2CCG000122R0001		0.360	3
	8	1506650	SUP403M-K8	2CCG000123R0001		0.360	3
	10	1506667	SUP403M-K10	2CCG000124R0001		0.360	3
	13	1506674	SUP403M-K13	2CCG000125R0001		0.360	3
	15	1506735	SUP403M-K15	2CCG000131R0001		0.360	3
	16	1506681	SUP403M-K16	2CCG000126R0001		0.360	3
	20	1506698	SUP403M-K20	2CCG000127R0001		0.360	3
	25	1506704	SUP403M-K25	2CCG000128R0001		0.360	3
	30	1506711	SUP403M-K30	2CCG000129R0001		0.360	3



SMISSLINE TP plug-in system

RCCBs F400 series, A  type



F402



F404

F402 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n} = 30 \text{ mA}$) contacts.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Marking: according to EN 61008

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 801254 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	10	25	2037033	F402 A 25/0.01	2CSF502110R0250		0.250	1
	30	25	2034339	F402 A 25/0.03	2CSF502110R1250		0.250	1
	30	40	2036937	F402 A 40/0.03	2CSF502110R1400		0.250	1
	100	40	2034230	F402 A 40/0.1	2CSF502110R2400		0.250	1

F404 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n} = 30 \text{ mA}$) contacts. Product helpful where for installation habits, for wiring with busbars or cables, for special needs neutral on the left is needed.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Marking: according to EN 61008

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	25	0104253	F404 A 25/0.03	2CCF544110E0250		0.430	1
	30	40	0104260	F404 A 40/0.03	2CCF544110E0400		0.430	1
	100	40	0104277	F404 A 40/0.1	2CCF544120E0400		0.430	1
	300	40	0104284	F404 A 40/0.3	2CCF544130E0400		0.430	1
	30	63	0104291	F404 A 63/0.03	2CCF544110E0630		0.430	1
	100	63	0104307	F404 A 63/0.1	2CCF544120E0630		0.430	1
	300	63	0104314	F404 A 63/0.3	2CCF544130E0630		0.430	1

F404 A type $16\frac{2}{3} \text{ Hz}$

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n} = 30 \text{ mA}$) contacts.

The RCCB F200 $16\frac{2}{3} \text{ Hz}$ can work at rated frequency of $16\frac{2}{3} \text{ Hz}$ which is common in railways applications

Application: railways

Standard: IEC/ EN 61008

Marking: according to EN 61008

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	63	0104376	F404 A-LF 63/0.03	2CCF544110E0631		0.430	1
	300	63	0104383	F404 A-LF 63/0.3	2CCF544130E0631		0.430	1

SMISSLINE TP plug-in system

RCCBs F400 series, A APR  type



F402

	F402...K	F404...K	F404...S	F404...B
Rated voltage U_n :	230V	230/400V	230/400V	230/400V
Number of poles:	2	4	4	4
Rated frequency f_n :	45 ... 60Hz	45 ... 60Hz	45 ... 60Hz	45 ... 60Hz
Resistance to surge current:	3 kA 8/20 μ s	3 kA 8/20 μ s	5 kA 8/20 μ s	1000 A \leq 300 ms \geq 40 ms
Total trip time (average value)				
– at $I_{\Delta n}$	240ms	120 ... 300ms	150 ... 500ms	
– at 5 $I_{\Delta n}$	\leq 40ms		40 ... 150ms	
Delay time at 5 $I_{\Delta n}$:	10ms	10ms	90 ms	
Resistance to short circuits (kA):	10kA in conjunction with an upstream fuse gL / gG 100A or or a high performance MCB S800 100A	10kA	10kA	10,000 electrical operating cycles 20,000 mechanical operating cycles
Connection load side terminal	Double lift terminal touch finger-proof, suitable for connecting single-, multi- and fine-wire conductors of up to 25mm ²			
Degree of protection:	IP20 in panel IP40	IP20 in panel IP40	IP20 in panel IP40	IP20 in panel IP40
Endurance:	> 5000 operating cycles	> 5000 operating cycles	> 5000 operating cycles	
Resistance to climate acc. to:	EN 61008	EN 61008	EN 61008	EN 62423
Mounting position:	any	any	any	any
Ambient temperature:	–25°C ... +40°C	–25°C ... +55°C	–25°C ... +40°C	–25°C ... +40°C
Vibration resistance:	5 g 5 ... 150 ... 5 Hz	5 g 5 ... 150 ... 5 Hz	5 g 5 ... 150 ... 5 Hz	5 g 5 ... 150 ... 5 Hz
Plastic parts:	halogen-free	halogen-free	halogen-free	halogen-free
Contacts:	cadmium-free	cadmium-free	cadmium-free	cadmium-free

SMISSLINE TP plug-in system

RCCB F404 series - B   type for continuous, selective continuous type fault currents technical features



F 404 B

F404 B RCCBs provide additional protection against direct contact and are the right choice to ensure maximum system safety thanks to early detection of fault currents with continuous waveforms or high frequencies.

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	25	1506285	F404B-25/0.03	2CCG000052R0001		0.435	1
4	30	40	1506292	F404B-40/0.03	2CCG000053R0001		0.435	1
4	30	63	1506308	F404B-63/0.03	2CCG000054R0001		0.435	1
4	300	25	1506315	F404B-25/0.3	2CCG000055R0001		0.435	1
4	300	40	1506322	F404B-40/0.3	2CCG000056R0001		0.435	1
4	300	63	1506339	F404B-63/0.3	2CCG000057R0001		0.435	1

SMISSLINE TP plug-in system

RCCBs F400 series, A K  type



F402

F402 A K type, short-time delayed

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct ($I_{\Delta n} = 30 \text{ mA}$) contacts.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Surge current resistance (wave 8/20) = 3000 A

Marking: according to EN 61008

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
2	30	40	0104482	F402 A-K 40/0.03	2CCF552310E0400		0.250	1



FS 404 K and S

F404 A K type, short-time delayed

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct ($I_{\Delta n} = 30 \text{ mA}$) contacts.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Surge current resistance (wave 8/20) = 3000 A

Marking: according to EN 61008

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	30	40	0104321	F404 A-K 40/0.03	2CCF544310E0400		0.430	1
	100	40	0104338	F404 A-K 40/0.1	2CCF544320E0400		0.430	1
	30	63	0104345	F404 A-K 63/0.03	2CCF544310E0630		0.430	1

F404 A selective type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents with an intentional tripping delay, which permits to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide); protection against indirect contacts.

Application: commercial, industrial.


Standard: IEC/EN 61008

Surge current resistance (wave 8/20) = 5000 A

Marking: according to EN 61008

Number of poles	Rated residual current $I_{\Delta n} \text{ mA}$	Rated current $I_n \text{ A}$	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
4	100	63	0104352	F404 A-S 63/0.1	2CCF544220E0630		0.430	1
	300	63	0104369	F404 A-S 63/0.3	2CCF544230E0630		0.430	1

SMISLINE TP plug-in system

RCBOs FS401 series 10000-6000 A and F  type



FS 401 M

	FS401	FS401 Type A and F, short delay ARP
Rated voltage Un:	240V~	
Number of poles:	2-pole (1PN)	
Rated frequency fn:	50/60Hz	
Rated breaking capacity Icn:	10kA – 240V~	
	6kA – 240V~	
Current limitation class:	3	
Total cut-off time (average value) acc. to	EN 61009-1 EN 61009 max. 300 ms; 10 – 300 ms Type F max. 40 ms; 10 – 400 ms Type F	EN 61009-1 EN 61009 max. 300 ms; 10 – 300 ms Type F max. 40 ms; 10 – 400 ms Type F
Connection cross-sections	Opposing action stroke clamp on cylinder, touch finger-proof. Suitable for connecting	
Terminal at load end	single, multi- and fine-wire conductors of up to 25mm ²	
Degree of protection:	IP20 inside panel IP40	
Endurance:	> 5000 operating cycles	
Resistance to climate, acc. to:	EN 61009	
Mounting position:	any	
Ambient temperature:	–25°C ... +40°C	
Vibration resistance:	5g 5 ... 150 ... 5 Hz	
Plastic parts:	halogen-free	
Contacts:	cadmium-free	
Standard	EN61009-1, SEV, VDE	

Please notice:


For the influence of the ambient temperature and the thermal influences of row mounted RCBO's it is necessary to calculate with the same correction factors like with MCB's.

Residual current operated circuit breakers with overcurrent protection (RCBO)

The SMISLINE residual current operated circuit breakers with overcurrent protection (RCBO) are ideal for protecting people and property in all new and existing distribution systems. The combination of standby current and cable protection in one single device greatly simplifies planning and offers cost benefits. Using a RCBO can e.g. satisfy the minimum level of protection required by regulations in an apartment or in a particular distribution system. Should a residual current arise, only the circuit directly affected is switched off while all other circuits remain in operation.

The short time-delayed residual current operated circuit breaker with overcurrent protection FS401 K is a version particularly suited to unfavourable distribution and load situations. Without limiting the personal protection function in any way, the electronic short time delay prevents nuisance tripping which may arise as a result of capacitive discharge currents.

SMISLINE TP plug-in system

RCBOs FS401 series 10 000-6000 A  type



FS 401 M

FS401E A type, B and C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I\Delta n=30\text{ mA}$).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009, $I_{cn}=6\text{ kA}$, $I_{cn}=10\text{ kA}$

B, 6 kA according to EN 61009-1

$I\Delta n$	I_n	I_{cn}	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
[mA]	[A]	[kA]	EAN	Type code	Order code		kg	pc.
30	10	6	1472825	FS401 E-B 10/0.03	2CCL562111E1105	2	0.2	1
30	13	6	0108558	FS401 E-B 13/0.03	2CCL562111E0135	2	0.2	1
30	16	6	0108565	FS401 E-B 16/0.03	2CCL562111E0165	2	0.2	1
30	20	6	0109692	FS401 E-B 20/0.03	2CCL562111E0205	2	0.2	1
30	25	6	0109708	FS401 E-B 25/0.03	2CCL562111E0255	2	0.2	1
30	32	6	0109715	FS401 E-B 32/0.03	2CCL562111E0325	2	0.2	1

C, 6 kA according to EN 61009-1

30	6	6	1472788	FS401 E-C 6/0.03	2CCL562111E1064	2	0.2	1
30	10	6	1472801	FS401 E-C 10/0.03	2CCL562111E1104	2	0.2	1
30	13	6	0108572	FS401 E-C 13/0.03	2CCL562111E0134	2	0.2	1
30	16	6	0108589	FS401 E-C 16/0.03	2CCL562111E0164	2	0.2	1
30	20	6	0104574	FS401 E-C 20/0.03	2CCL562110E0204	2	0.2	1
30	25	6	0104581	FS401 E-C 25/0.03	2CCL562110E0254	2	0.2	1
30	32	6	0104598	FS401 E-C 32/0.03	2CCL562110E0324	2	0.2	1


B, 10 kA according to EN 61009-1

30	6	10	1472641	FS401 M-B 6/0.03	2CCL562110E1065	2	0.2	1
30	10	10	0109685	FS401 M-B 10/0.03	2CCL562110E0105	2	0.2	1
30	13	10	0104505	FS401 M-B 13/0.03	2CCL562110E0135	2	0.2	1
30	16	10	0104512	FS401 M-B 16/0.03	2CCL562110E0165	2	0.2	1
30	20	10	1472689	FS401 M-B 20/0.03	2CCL562110E1205	2	0.2	1
30	25	10	1472726	FS401 M-B 25/0.03	2CCL562110E1255	2	0.2	1
30	32	10	1472764	FS401 M-B 32/0.03	2CCL562110E1325	2	0.2	1

C, 10 kA according to EN 61009-1

30	6	10	1406905	FS401 M-C 6/0.03	2CCL562010E0064	2	0.2	1
30	10	10	0104543	FS401 M-C 10/0.03	2CCL562110E0104	2	0.2	1
30	13	10	0104550	FS401 M-C 13/0.03	2CCL562110E0134	2	0.2	1
30	16	10	0104567	FS401 M-C 16/0.03	2CCL562110E0164	2	0.2	1
30	20	10	1472665	FS401 M-C 20/0.03	2CCL562110E1204	2	0.2	1
30	25	10	1472702	FS401 M-C 25/0.03	2CCL562110E1254	2	0.2	1
30	32	10	1472740	FS401 M-C 32/0.03	2CCL562110E1324	2	0.2	1
100	6	10	142 4534	FS401M-C6/0.1	2CCL562120E0064	2	0.2	1
100	10	10	1413217	FS401M-C10/0.1	2CCL562120E0104	2	0.2	1
100	13	10	1490706	FS401M-C13/0.1	2CCL562120E0134	2	0.2	1
100	16	10	1421618	FS401M-C16/0.1	2CCL562120E0164	2	0.2	1
100	20	10	1490720	FS401M-C20/0.1	2CCL562122E0204	2	0.2	1
100	25	10	1490744	FS401M-C25/0.1	2CCL562122E0254	2	0.2	1
100	32	10	1490768	FS401M-C32/0.1	2CCL562122E0324	2	0.2	1

SMISLINE TP plug-in system

RCBOs FS401 series $\boxed{10\,000}$ A K  Type F



F401 M A K type, short-time delayed

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct ($I_{\Delta n} = 30\text{ mA}$) contact; protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009

$I_{cn} = 10\text{ kA}$

B, 10 kA according to EN 61009-1

$I_{\Delta n}$	I_n	I_{cn}	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
[mA]	[A]	[kA]	EAN	Type code	Order code		kg	pc.
30	6	10	1472849	FS401 M K-B 6/0.03	2CCL562130E1035	2	0.2	1
30	10	10	1472887	FS401 M K-B 10/0.03	2CCL562310E1105	2	0.2	1
30	13	10	1472900	FS401 M K-B 13/0.03	2CCL562310E1135	2	0.2	1
30	16	10	1472924	FS401 M K-B 16/0.03	2CCL562310E1165	2	0.2	1
30	20	6	1472962	FS401 M K-B 20/0.03	2CCL562310E1205	2	0.2	1
30	25	6	1473006	FS401 M K-B 25/0.03	2CCL562310E1255	2	0.2	1
30	32	6	1473044	FS401 M K-B 32/0.03	2CCL562310E1325	2	0.2	1

C, 10 kA according to EN 61009-1

30	6	10	1404031	FS401 M K-C 6/0.03	2CCL562330E1064	2	0.2	1
30	10	10	1404031	FS401 M K-C 10/0.03	2CCL562310E0104	2	0.2	1
30	13	10	0104604	FS401 M K-C 13/0.03	2CCL562310E0134	2	0.2	1
30	16	10	0104611	FS401 M K-C 16/0.03	2CCL562310E0164	2	0.2	1
30	20	6	0104642	FS401 M K-C 20/0.03	2CCL562310E1204	2	0.2	1
30	25	6	0104642	FS401 M K-C 25/0.03	2CCL562310E1254	2	0.2	1
30	32	6	0104642	FS401 M K-C 32/0.03	2CCL562310E1324	2	0.2	1

C, 10 kA according to EN 61009-1

300	6	10	1473068	FS401 M K-C 6/0.3	2CCL562130E3034	2	0.2	1
300	10	10	1473082	FS401 M K-C 10/0.3	2CCL562330E1104	2	0.2	1
300	13	10	1473105	FS401 M K-C 13/0.3	2CCL562330E1134	2	0.2	1
300	16	10	1473143	FS401 M K-C 16/0.3	2CCL562330E1164	2	0.2	1
300	20	10	1473181	FS401 M K-C 20/0.3	2CCL562330E1204	2	0.2	1
300	25	10	1473228	FS401 M K-C 25/0.3	2CCL562330E1254	2	0.2	1
300	32	10	1473266	FS401 M K-C 32/0.3	2CCL562330E1324	2	0.2	1

SMISSLINE TP plug-in system

RCBOs FS403 series $\boxed{10000}$ - $\boxed{6000}$ A $\boxed{\Delta}$ type and short time delay Type F



FS 403 M

FS403	
Rated voltage Un	240/415V
Number of poles	4
Rated frequency fn	50/60Hz
Rated breaking capacity Icn	10 kA (10A to 16A) 6 kA (20A to 32A)
Current limitation class	3
Total cut-off time acc. to EN 61009	
at In	40ms
at 5x In	25ms
Connection cross-section	max. 25 mm ² flexible wire with wire end sleeve
Terminal at load side	Possible to connect 2 wires in one chamber. Both chambers could be used with two different cross-sections.
Tightening torque	2.8Nm
Degree of protection	IP20
Endurance	>5000
Resistance to climate	EN 61009
Ambient temperature	-25°C ... +40°C
Mounting position	any
Vibration resistance	EN 61009
Plastic parts	halogen-free
Contacts	cadmium-free
Standard	EN61009-1, SEV, VDE

Accessory:

Auxiliary- and signal contacts are to attach on to the left of the device through the customer.

Please notice:

For the influence of the ambient temperature and the thermal influences of row mounted RCBO's it is necessary to calculate with the same correction factors like with MCBs.

Please see in Chapter 2 of Electrical installation solutions for buildings - Technical details.

4-pole RCBO from the ABB SMISSLINE protective devices range

The combination of circuit protection and a residual current protection in one device as 4-pole RCBO simplifies both – planning and installation. It enables you to provide perfect protection in one device. This protection consists of:

- Short circuit protection
- Overload protection
- Residual current protection
- Preventive fire protection

High rated short-circuit breaking capacity of 10kA, conforming to EN 61009-1


The I_{cn} 10kA short-circuit breaking capacity of the RCBO complies with standard EN 61009-1. This standard specifies testing and usage of RCBO's for household and similar uses.

The devices can also be used by non-professionals.

Features and benefits of the new devices:

- Overall width of 72mm (4 modules)
- Rated sensitivity 30mA
- Current rating 10A to 32A
- B and C tripping characteristics
- Easy Drive double deck terminals on the output side for connecting two conductors in one chamber. The two chambers can accommodate conductors with different cross sections.

SMISLINE TP plug-in system

RCBOs FS403 series 10000-6000 A  type and short time delay Type F



FS 403 M

FS403 M A type, B and C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n} = 30 \text{ mA}$).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009, $I_{cn} = 6 \text{ kA}$, $I_{cn} = 10 \text{ kA}$

B, 10kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
					EA	Type code			
		$I_{\Delta n} \text{ mA}$	$I_n \text{ A}$		EA	Type code	Order code	kg	pc.
4	30	6	10	1434434	FS403M-B6/0.03	2CCL564110E0065		0.410	1
			10	1407612	FS403M-B10/0.03	2CCL564110E0105		0.410	1
			13	1407629	FS403M-B13/0.03	2CCL564110E0135		0.410	1
			16	1407636	FS403M-B16/0.03	2CCL564110E0165		0.410	1
			20	1442576	FS403M-B20/0.03	2CCL563110E0205		0.410	1
			25	1442590	FS403M-B25/0.03	2CCL563110E0255		0.410	1
			32	1442613	FS403M-B32/0.03	2CCL563110E0325		0.410	1

C, 6kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
					EA	Type code			
		$I_{\Delta n} \text{ mA}$	$I_n \text{ A}$		EA	Type code	Order code	kg	pc.
4	30	6	6	1419141	FS403E-C6/0.03	2CCL564111E0064		0.410	1
			10	1434489	FS403E-C10/0.03	2CCL564111E0104		0.410	1
			13	1434519	FS403E-C13/0.03	2CCL564111E0134		0.410	1
			16	1434601	FS403E-C16/0.03	2CCL564111E0164		0.410	1
			20	1409609	FS403E-C20/0.03	2CCL564111E0203		0.410	1
			25	1408770	FS403E-C25/0.03	2CCL564111E0254		0.410	1
			32	1408787	FS403E-C32/0.03	2CCL564111E0324		0.410	1

C, 10kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
					EA	Type code			
		$I_{\Delta n} \text{ mA}$	$I_n \text{ A}$		EA	Type code	Order code	kg	pc.
4	30	6	10	1419127	FS403M-C6/0.03	2CCL564110E0064		0.410	1
			10	1407674	FS403M-C10/0.03	2CCL564110E0104		0.410	1
			13	1407681	FS403M-C13/0.03	2CCL564110E0134		0.410	1
			16	1407698	FS403M-C16/0.03	2CCL564110E0164		0.410	1
			20	1442569	FS403M-C20/0.03	2CCL563110E0204		0.410	1
			25	1442583	FS403M-C25/0.03	2CCL563110E0254		0.410	1
			32	1442606	FS403M-C32/0.03	2CCL563110E0324		0.410	1

C, 10kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
					EA	Type code			
		$I_{\Delta n} \text{ mA}$	$I_n \text{ A}$		EA	Type code	Order code	kg	pc.
4	100	6	6	1424527	FS403M-C6/0.1	2CCL564121E0064		0.410	1
			10	1424510	FS403M-C10/0.1	2CCL564121E0104		0.410	1
			13	1442620	FS403M-C13/0.1	2CCL563120E0134		0.410	1
			16	1420109	FS403M-C16/0.1	2CCL564120E0164		0.410	1
			20	1442637	FS403M-C20/0.1	2CCL563120E0204		0.410	1
			25	1442644	FS403M-C25/0.1	2CCL563120E0254		0.410	1
			32	1442651	FS403M-C32/0.1	2CCL563120E0324		0.410	1

SMISLINE TP plug-in system

RCBOs FS403 series $\boxed{10000}$ - $\boxed{6000}$ A $\boxed{\Delta}$ type and short time delay Type F



FS 403 M

B, 10 kA according to EN61009-1 short time delayed (APR) Type F

Poles	Sensi- tivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	I Δ n mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	10	1470951	FS403MK-B6/0.03	2CCL564310E0065		0.410	1
		10	10	1470999	FS403MK-B10/0.03	2CCL564310E0105		0.410	1
		13	10	1471033	FS403MK-B13/0.03	2CCL564310E0135		0.410	1
		16	10	1471071	FS403MK-B16/0.03	2CCL564310E0165		0.410	1
		20	10	1470777	FS403MK-B20/0.03	2CCL564310E0205		0.410	1
		25	10	1470814	FS403MK-B25/0.03	2CCL564310E0255		0.410	1
		32	10	1470852	FS403MK-B32/0.03	2CCL564310E0325		0.410	1

C, 10 kA according to EN61009-1 short time delayed (APR) Type F

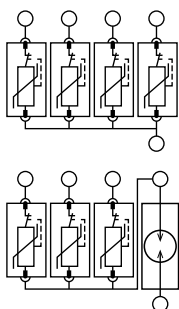
Poles	Sensi- tivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	I Δ n mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	10	1470937	FS403MK-C6/0.03	2CCL564310E0064		0.410	1
		10	10	1470975	FS403MK-C10/0.03	2CCL564310E0104		0.410	1
		13	10	1471019	FS403MK-C13/0.03	2CCL564310E0134		0.410	1
		16	10	1471057	FS403MK-C16/0.03	2CCL564310E0164		0.410	1
		20	10	1470753	FS403MK-C20/0.03	2CCL564310E0204		0.410	1
		25	10	1470791	FS403MK-C25/0.03	2CCL564310E0254		0.410	1
		32	10	1470838	FS403MK-C32/0.03	2CCL564310E0324		0.410	1

C, 10kA according to EN 61009-1

Poles	Sensi- tivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	I Δ n mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	300	6	10	1471095	FS403MK-C6/0.3	2CCL564330E0064		0.410	1
		10	10	1471118	FS403MK-C10/0.3	2CCL564330E0104		0.410	1
		13	10	1471132	FS403MK-C13/0.3	2CCL564330E0134		0.410	1
		16	10	1471156	FS403MK-C16/0.3	2CCL564330E0164		0.410	1
		20	10	1470876	FS403MK-C20/0.3	2CCL563330E0204		0.410	1
		25	10	1470890	FS403MK-C25/0.3	2CCL563330E0254		0.410	1
		32	10	1470913	FS403MK-C32/0.3	2CCL563330E0324		0.410	1

SMISLINE TP plug-in system

Surge arrester



The type 2 surge arresters in the QuickSafe product range are suitable for protecting electrical low voltage systems and terminals in the 240/415V system. The devices can be used as type 2 surge arresters within the scope of the lightning protection zone concept at zone transition 0B-1 and higher. The high nominal discharge capability of 20 kA makes it possible for the equipment to have a longer service life in comparison to the minimum requirements of the standard. The devices consist of a basic unit and pluggable protection modules, which can be removed extremely easily to carry out insulation measurement. They are fully compatible with SMISLINE installation devices and the surge arresters in the ABB System pro M model series. The surge arresters are tested as type 2 arresters in accordance with the EN/IEC 61643-11 test standard.

Mounting

Installation and electrical connection

The over voltage protection device "OVR" will be installed near the front of the protected consumers conditioning.

The surge arrester is to be mounted right after the Incoming block of the socket system. The OVR404 is snapped directly onto the SMISLINE bus bar system.

SMISLINE TP plug-in system

Surge arrester

Type	OVR404 4L 40-275 P TS QS	OVR404 3N 40-275 P TS QS
Technologie	varistor	Varistor/gaz tube (N)
System network	TNS	TT-TNS
Electrical features		
Standard	IEC 61643-11/EN 61643-11	IEC 61643-11/EN 61643-11
Type / test class	Type 2	Type 2
Number of pole	4	4
Nominal voltage U_N (L-N, L-L)	240/415 V	240/415 V
Type of voltage	a.c. 45–65 Hz	a.c. 45–65 Hz
Max. cont. operating voltage U_c	275 V AC	275 V AC
Nominal discharge current I_n (8/20)	20 kA	20 kA
Maximum discharge current I_{max} (8/20)	40 kA	40 kA
Maximum impulse current I_{imp} (10/350)	2 kV	2 kA
Voltage protection level U_p at I_n (L-N / N-PE / L-PE)	1.5 kV	1.25/1.4/1.5 kV
Voltage protection level U_p at 3 kA (L-N / N-PE / L-PE)	0.5 kV	0.8/1.4/0.85 kV
Voltage protection level U_p at 5 kA (L-N / N-PE / L-PE)	0.7 kV	0.85/1.4/0.95 kV
Voltage protection level U_p at 10 kA (L-N / N-PE / L-PE)	0.9 kV	1/1.4/1.15 kV
TOV (Temporary overvoltage) withstand U_t (L-N: 5s./N-PE: 200ms)	337/-V	337/1200 V
Response time	≤ 25 ns	≤ 25 ns
Short-circuit withstand capability I_{sc}	100 kA	100 kA
Back up protection circuit breaker	≤ 125 A; S800S B	≤ 125 A; S800S B
Pluggable cartridge	Yes	Yes
Integrated QuickSafe® technology	Yes	Yes
State indicator	Yes	Yes
Auxiliary contact (TS)	Yes	Yes
Installation		
Wire range (L, N, PE)	2.5...25 mm ² cable or rope	2.5...25 mm ² cable or rope
Connection cross-section	2.5...16 mm ² litz wire with ferrule	2.5...16 mm ² litz wire with ferrule
Tightening torque	2.8 Nm	2.8 Nm
Auxiliary contact (TS)		
Contacts information	1 NO – 1 NC	1 NO – 1 NC
Max. load/current	12 V DC – 10 mA	12 V DC – 10 mA
Min. load/current	250 V AC – 1 A	250 V AC – 1 A
	1.5 mm ²	1.5 mm ²
Operating temperature	–25 °C – +60 °C	–25 °C – +60 °C
Stocking temperature	–25 °C – +80 °C	–25 °C – +80 °C

Back up protection

Typ 2 QuickSafe® Surge Protective Devices	Prospective short circuit current at SPD location (I_p)	Circuit breaker maximum ratings 1) curve B or C	Fuse 2) (gL - gG)
Maximum ratings			
I_n : 5, 20, 30 kA	$0,625 \text{ kA} < I_p < 100 \text{ kA}$	S800S B or C – 125 A ²⁾	125 A fuse
U_c : 275, 350, 440, 600 V			

1) Maximum ratings, must be in accordance with the installation to follow coordination rules with main or upstream short circuit protection(s).

2) up to $I_p \leq 50 \text{ kA}$

SMISSLINE TP plug-in system

Surge arrester



OVR404

Surge arrester OVR404						
Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
Isn (8/20µs) kA	EAN	Type code	Order code	kg	pc.	
20	1455491	OVR404 4L 40-275 P TS QS	2CCF606000R0001	0.470	1	
20	1455507	OVR404 3N 40-275 P TS QS	2CCF606002R0001	0.450	1	

SMISLINE TP plug-in system

Switch disconnecter



IS404 63

Technical data for switch disconnecter IS404

Rated voltage Un	230/400 V~
Rated current In	63 A
Rated frequency fn	50 Hz
Number of poles	4
Rated impulse withstand voltage	6 kV
Connection cross-sections Cu	At top, touch finger-proof. Suitable for connecting up single-, multi- and fine-wire conductors of up to 25 mm ²
Degree of protection	IP40
Endurance, mechanical/electrical	5000 operating cycles
Mounting position	any
Ambient temperature	-25°C ... +40°C
Specifications	EN/IEC 60947-3
Approvals	SEV
Weight (approx.)	250 g
Switching duty	AC-22A
Plastic parts	halogen-free
Contacts	cadmium-free

General switch disconnecter

When used in a smissline socket system, the switch disconnecter can be used instead of the incoming terminal block for up to 63 A.

With the smissline IS404 switch disconnecter, individual loads, groups of loads or entire system parts can be separated or connected to the input supply.

The key features of the switch disconnecter

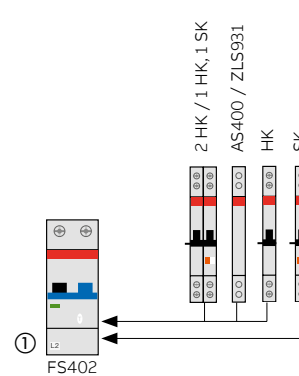
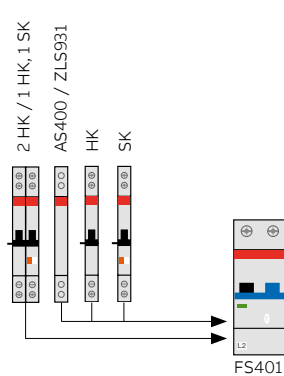
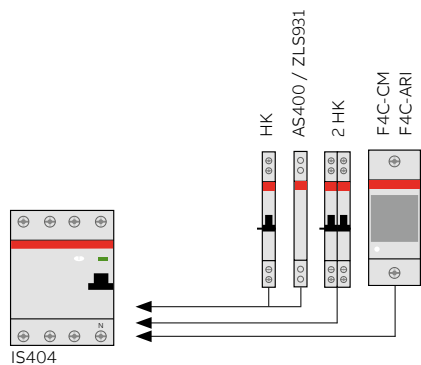
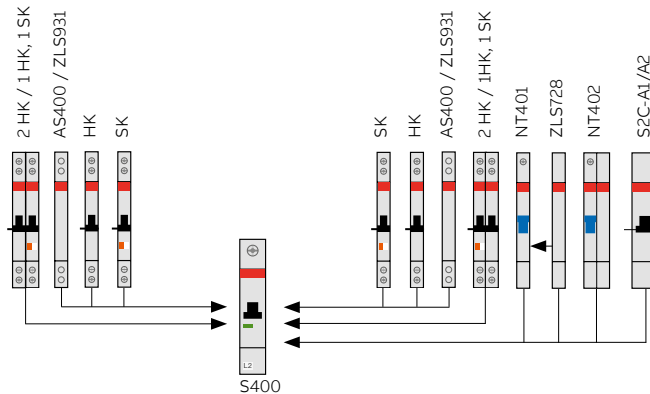
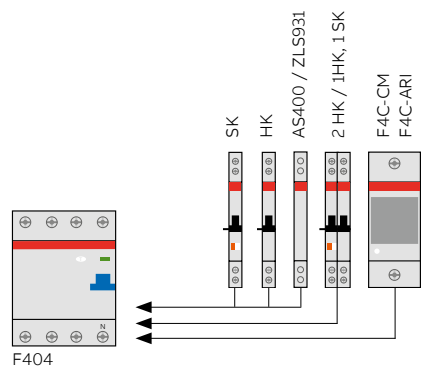
- Input supply switch
- On-Off function
- Clear indication of switching position
- Snap-on auxiliary switch available
- Uniform smissline design

Switch disconnecter IS404

Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
In kA	EAN	Type code	Order code		kg	pc.
63	0104390	IS404 63	2CCF544160E0630		0.380	1

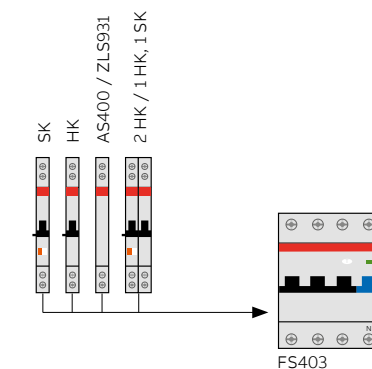
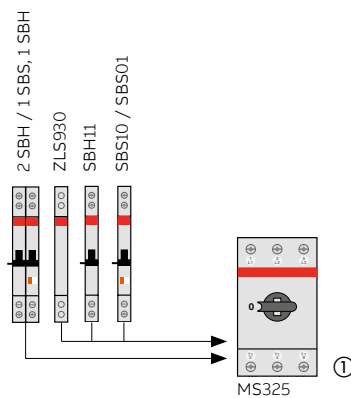
SMISSLINE TP plug-in system

Auxiliary elements and accessories

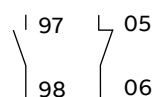


On each protective device can be mounted:

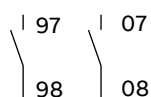
- 1 auxiliary switch
- or 1 signal contact
- or 2 auxiliary contact switches
- or 1 auxiliary switch and 1 signal contact



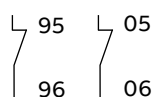
Contact description signal contact



SK40011

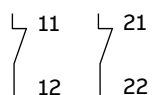
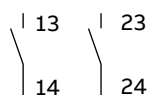
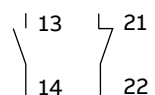


SK40020



SK40002

Contact description auxiliary switch



① If you use an auxiliary switch and a signal contact you must connect first the signal contact on the MS325

SMISLINE TP plug-in system

Adapter for motor starter MS116, MS132, MS325



Adapter for MS116, MS132

Designation	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Adapter MS116/132 L123 wire bottom feed	1414597	ZMS930	2CCA182520R0001		0.030	1
Adapter MS116/132 L123LALB wire bottom feed	1414580	ZMS931	2CCA182522R0001		0.062	1
Adapter MS116/132 L123 wire top feed	1414573	ZMS932	2CCA182524R0001		0.030	1
Adapter MS116/132 L123LALB wire top feed	1414566	ZMS933	2CCA182526R0001		0.062	1
Adapter MS116/132 empty	1414559	ZMS934	2CCA182512R0001		0.034	1
Intermediate piece 9 mm	1414412	ZMS935	2CCA182616R0001		0.007	1
Adapter MS116/132 L123LA wire top feed	1424626	ZMS937	2CCA182525R0001		0.058	1
Adapter MS116/132 L123LA wire bottom feed	1424619	ZMS936	2CCA182521R0001		0.058	1
Adapter for MS116, MS132 Push in terminals						
Adapter MS116/132 L123 wire bottom for push in terminals	1503215	ZMS930-PI	2CCF182550R0001		0.058	1
Adapter MS116/132 L123 wire top for push in terminals	1503208	ZMS932-PI	2CCF182551R0001		0.058	1

Adapter plate for MS325 contact to busbars with plug contacts

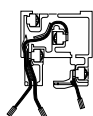
	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
3L	0021215	ZMS915	2CCF002817R0001		0.030	1

Auxiliary switch and signal contacts, connection support

Contact pin, short

	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
for power supply via auxiliary busbars	0019526		2CCF002794R0001		0.002	1

ZMS 915 → MS325 /
ZLS 5.., I_n max. 32 A



SMISLINE TP plug-in system

Auxiliary switch and signal contacts

MCB S400, RCCB F404, RCCB F402, RCBO FS401

Technical data for auxiliary switch and signal contact

	Signal contact SK400	Auxiliary switch HK400
Rated voltage U_n	400 V	400 V
Rated impulse withstand voltage	4 kV	4 kV
Rated current		
– I_{th}	6 A	6 A
– AC15	2 A/230 V / 1 A/400 V	2 A/230 V / 1 A/400 V
– DC13	0.55 A/125 V=	0.55 A/125 V=
– DC13	0.27 A/250 V=	0.27 A/250 V=
Minimum current/voltage (to ensure reliable electrical operation)	10 mA 12 V=	10 mA 12 V=
Connection cross-sections	2 x 1.5 mm ² strand with sleeve	2 x 1.5 mm ² strand with sleeve
Plastic parts	Free of halogen und cadmium	Free of halogen und cadmium
Internal resistance R_i	0.0065 Ω	0.0065 Ω
Power loss at rated current P_v	0.24 W	0.24 W
Ambient temperature	Tmax. +55 °C Tmin –25 °C	Tmax. +55 °C Tmin –25 °C
Tightening torque	1 Nm	1 Nm

SMISLINE TP plug-in system

Auxiliary switch and signal contacts

MCB S400, RCCB F404, RCCB F402, RCBO FS401



HK400..L



HK400..R



SK400..L



SK400..R

Auxiliary switch

The auxiliary switch and signal contacts are supplied with one contacting piece. The signal contact collective alarm are supplied with two contacting pieces.

for left side mounting on MCB S400, RCCB F402, RCBO FS401, FS403

	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1NO and 1NC	0100910	HK40011-L	2CCS500900R0081		0.045	10
2NO	0111183	HK40020-L	2CCF201112R0001		0.040	10
2NC	0111190	HK40002-L	2CCF201114R0001		0.040	10

for right side mounting on RCCB F404, MCB S400 and IS404

1NO and 1NC	0108619	HK40011-R	2CCS500900R0214		0.045	10
2NO	0111206	HK40020-R	2CCF201113R0001		0.040	10
2NC	0111213	HK40002-R	2CCF201115R0001		0.040	10

Signal contacts

for left side mounting on MCB S400, RCCB F402, RCBO FS401, FS403

	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1NO and 1NC	0100934	SK40011-L	2CCS500900R0101		0.045	10
2NO	0111107	SK40020-L	2CCF201162R0001		0.040	10
2NC	0111114	SK40002-L	2CCF201164R0001		0.040	10

for right side mounting on RCCB F404 and MCB S400

1NO and 1NC	0108626	SK40011-R	2CCS500900R0215		0.045	10
2NO	0111121	SK40020-R	2CCF201163R0001		0.040	10
2NC	0111138	SK40002-R	2CCF201165R0001		0.040	10

Signal contact collective alarm and auxiliary contact

for left side mounting

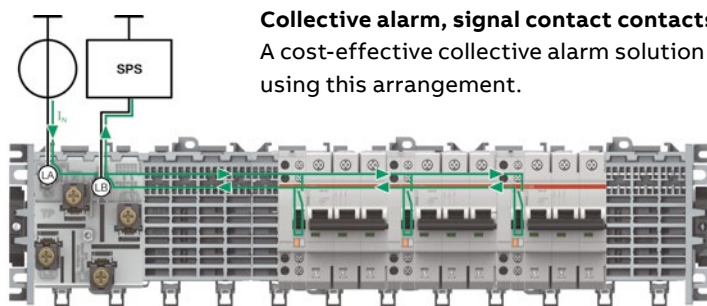
	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1NO	0107964	SK40010-L SA	2CCS500900R0141		0.045	10
1NO	1407902	HK40010-L SA	2CCF201212R0001		0.045	10

for right side mounting

1NO	0108633	SK40010-R SA	2CCS500900R0216		0.045	10
1NO	1407919	HK40010-R SA	2CCF201213R0001		0.045	10

Collective alarm, signal contact contacts the auxiliary busbars LA, LB

A cost-effective collective alarm solution can be implemented without additional wiring by using this arrangement.



SMISLINE TP plug-in system

Dummy, housing, Neutral disconnecter, shunt trip



Connection support dummy housing

for left or right side mounting on MCB S400, RCCB F402, RCCB F404, RCBO FS401

Connection support	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	100958	AS400	2CCS500900R0151		0.045	10

Dummy housing

Compensation to 18mm	0100965	ZLS931	2CCS500900R0161		0.035	10
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Contacting pieces for auxiliary switch and signal contacts

Connection support	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Contacting piece for HK/SK LA, LB Pack contains 100 items	0100972	ZLS632	2CCS500900R0171		0.200	Pack contains 100 items
Contacting piece for HK/SK LA, LB Pack contains 10 items	0109265	ZLS635	2CC5201307R0171		0.020	Pack contains 10 items
Contact Pin	0108640	ZLS633	2CCS500900R0201			Pack contains 10 items

Neutral disconnecter

On the load side terminal two separate conductors can be clamped



Connection support	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Neutral disconnecter 9mm	0100859	NT401 63	2CCS500900R0021		0.045	10
Neutral disconnecter 18mm	0100842	NT402 63	2CCS500900R0011		0.058	10
Compensation to 18mm for NT401 63	0104710	ZLS728	2CCS400900R0101		0.015	1 Bag contains 5 items

Shunt trip

Function: remote opening of the device when a voltage is applied.

Suitable for MCBs S400 series.



S2C-A

Rated voltage	Bbn 801254	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
12–60VAC/DC	2570992	S 2C-A1	2CDS200909R0001		0.150	1
110–415VAC/DC, 110–250VDC	2571005	S 2C-A2	2CDS200908R0002		0.150	1

Orders for this two types can be done over DESTO

SMISSLINE TP plug-in system

Approvals according to IEC/EN 61439-6. Busbar system 125 A.

Busbar system touch proof:

Use only for wall mounted application (horizontal or vertical).

When installed correctly the requirements of EN/IEC 61439-2 are met.

Number of poles	max. 6 to 110 3p+N / 2 additional bars PE+N
Rated operational voltage (U_e)	690 V AC, 1000 V DC (400 V AC, 250 V DC when used for load-free snap on and off under power)
Rated insulation voltage (U_i)	690 V AC, 1000 V DC
IP Code	IP20B
Mounting position	horizontal or vertical, direct mounting or mounting on DIN rail acc. to EN 60715 35 mm
Pollution degree	3 (690 V AC) 2 (1000 V DC)
Rated impulse voltage (U_{imp})	8 kV (L1L2L3N)
Rated current of the assembly (I_n)	Max. 125 A side feeding Max. 200 A (center feeding) Max. 250 A (Double feed side or center)
Auxiliary circuit	max. 40 A
Rated current of a circuit (I_{nc})	Main circuit: Max. 125 A
Rated current of Auxiliary circuit	40 A
Rated short-time withstand current (I_{cw})	10 kA / 300 ms
Auxiliary circuit	4 kA / 50 ms
Rated peak withstand current (I_{pk})	Main circuit: 30 kA
Auxiliary circuit	6 kA
Rated frequency (f)	50/60 Hz
Rated conditional short-circuit current (I_{cc})	100 kA (415 V, 50 kA)
Ambient air temperature	max. 60°C
Size of CU bars 3P+N+PE	3x10 mm (30 mm ²)
Size of CU auxiliary bars La Lb	2x5 mm (10 mm ²)

Rated conditional short-circuit current (I_{cc})	Incoming current of main busbars (L1, L2, L3, N)	Short circuit protection device (SCPD)	
		Fuse	MCCB
50 kA (690 V)	250 A		ABB T_{max} 250 A
	200 A	NH1 gG 690 V/200 A	ABB T_{max} 250 A
	160 A	NH1 gG 690 V/160 A	ABB T_{max} 250 A
	63 A	NH00 gG 690 V/63 A	ABB Type S803S in combination with Type S803S-SCL63-SR
	Incoming current of auxiliary busbars (La Lb)		
50 kA (415 V)	40 A	NH00 gG 690 V/40 A	ABB Type S800 with 240 V/415 V

Rated Voltage (U_e)	Rated conditional short-circuit current (I_{cc})	Incoming current of main busbars (L1, L2, L3, N)	Short circuit protection device (SCPD)	
			Fuse	MCCB
415 V	100 kA	250 A	NH1 gG 690 V/250 A	ABB T_{max} T4/XT4 250 A
690 V	25 kA	250 A	NH1 gG 690 V/250 A	ABB T_{max} T4/XT4 250 A
Incoming current of auxiliary busbars (La Lb)				
	25 kA	40 A	NH00 gG 415 V/40 A	ABB Type S800 with (240 V/415 V AC)

SMISLINE TP plug-in system

Busbar system 125A

**SMISLINE TP system for UL 508 – Industrial Control Equipment,
CSA C22.2 No. 14 – Industrial Control Equipment UL File E222110**

Technical data UL508 Industrial Control Equipment SMISLINE TP busbar system

Rated Voltage: 600 VAC

Rated Current (End feed, left and right): 125A left, 125A right

Rated Current (Center Feed): 250A max. if used with two feeder blocks.

Short Circuit Ratings: 50kA, max. 480VAC and 480Y/277V and 240VAC or 30kA, max. 600VAC and 600Y/347V

Technical data UL508 Industrial Control Equipment (ZLS906, ZLS908, ZLS920, ZLS926, ZLS928)

	Busbar ZLS200	Feeder ZLS924	Feeder block ZLS95X	Combimodule ZLS840X, 842X	Universal- adapter ZLS97X	Terminals ZLS95XUL, 91XUL	Combi modul ZMS132X	Adapter moter strater ZMS93X
Maximum rated voltage	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC
Maximum rated current	125 A	150 A	150A	30 A	32 A, 63 A	32 A, 100 A, 150 A	32 A	32 A

Terminals for 125A SMISLINE TP System

ZLS954UL - Terminal 150A (Neutral)

ZLS959UL - Terminal (PE)

ZLS918UL – Terminal 32A (Neutral)

ZLS919UL - Terminal (PE)

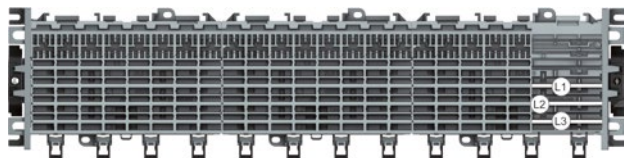
ZLS929UL - Terminal (PE)

Circuit breaker accessories UL489 universal adapter

	970UL, 971UL, 972UL or 973UL
Maximum nominal voltage	600 V
Maximum nominal current	25 A, 45 A

SMISLINE TP plug-in system

Starter pack Touch proof 3L – 125A system

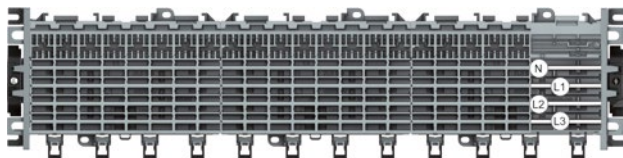


Starter Pack 3L: L1, L2, L3 inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
18 PLE 3L	364	320	1426514	ZLS905E18-3L	2CCA183232R0001		0.530	1
20 PLE 3L	401	355	1413231	ZLS905E20-3L	2CCA183100R0001		0.637	1
22 PLE 3L	437	391	1413255	ZLS905E22-3L	2CCA183102R0001		0.693	1
24 PLE 3L	473	427	1413279	ZLS905E24-3L	2CCA183104R0001		0.749	1
26 PLE 3L	509	463	1413293	ZLS905E26-3L	2CCA183106R0001		0.813	1
28 PLE 3L	545	499	1413415	ZLS905E28-3L	2CCA183108R0001		0.848	1
30 PLE 3L	581	535	1413439	ZLS905E30-3L	2CCA183110R0001		0.933	1
32 PLE 3L	617	571	1413453	ZLS905E32-3L	2CCA183112R0001		0.981	1
34 PLE 3L	653	607	1413477	ZLS905E34-3L	2CCA183114R0001		1.044	1
36 PLE 3L	689	643	1413491	ZLS905E36-3L	2CCA183116R0001		1.100	1
38 PLE 3L	725	679	1413514	ZLS905E38-3L	2CCA183118R0001		1.156	1
40 PLE 3L	761	715	1413538	ZLS905E40-3L	2CCA183120R0001		1.212	1
42 PLE 3L	797	751	1413552	ZLS905E42-3L	2CCA183122R0001		1.276	1
44 PLE 3L	833	787	1413576	ZLS905E44-3L	2CCA183124R0001		1.332	1
46 PLE 3L	869	823	1413590	ZLS905E46-3L	2CCA183126R0001		1.388	1
48 PLE 3L	905	859	1413613	ZLS905E48-3L	2CCA183128R0001		1.444	1
50 PLE 3L	941	896	1413637	ZLS905E50-3L	2CCA183130R0001		1.508	1
52 PLE 3L	977	932	1413651	ZLS905E52-3L	2CCA183132R0001		1.564	1
54 PLE 3L	1013	968	1413675	ZLS905E54-3L	2CCA183134R0001		1.620	1
56 PLE 3L	1049	1004	1413699	ZLS905E56-3L	2CCA183136R0001		1.675	1
58 PLE 3L	1058	1040	1413712	ZLS905E58-3L	2CCA183138R0001		1.739	1
60 PLE 3L	1122	1076	1413736	ZLS905E60-3L	2CCA183140R0001		1.795	1
62 PLE 3L	1158	1112	1413750	ZLS905E62-3L	2CCA183142R0001		1.851	1
64 PLE 3L	1194	1148	1413774	ZLS905E64-3L	2CCA183144R0001		1.907	1
66 PLE 3L	1230	1184	1413798	ZLS905E66-3L	2CCA183146R0001		1.971	1
68 PLE 3L	1266	1220	1413811	ZLS905E68-3L	2CCA183148R0001		2.027	1
70 PLE 3L	1302	1256	1413835	ZLS905E70-3L	2CCA183150R0001		2.083	1
72 PLE 3L	1338	1292	1413859	ZLS905E72-3L	2CCA183152R0001		2.139	1
74 PLE 3L	1374	1328	1413873	ZLS905E74-3L	2CCA183154R0001		2.203	1
76 PLE 3L	1410	1364	1413897	ZLS905E76-3L	2CCA183156R0001		2.269	1
78 PLE 3L	1446	1400	1413910	ZLS905E78-3L	2CCA183158R0001		2.314	1
80 PLE 3L	1482	1436	1413934	ZLS905E80-3L	2CCA183160R0001		2.370	1

SMISLINE TP plug-in system

Starter pack Touch proof 3LN – 125 A system

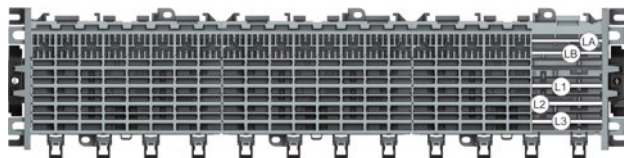


Starter Pack 3LN: L1, L2, L3, N inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
18 PLE 3LN	364	320	1426521	ZLS905E18-3LN	2CCA183234R0001		0.615	1
20 PLE 3LN	401	355	1413248	ZLS905E20-3LN	2CCA183101R0001		0.724	1
22 PLE 3LN	437	391	1413262	ZLS905E22-3LN	2CCA183103R0001		0.789	1
24 PLE 3LN	473	427	1413286	ZLS905E24-3LN	2CCA183105R0001		0.800	1
26 PLE 3LN	509	463	1413408	ZLS905E26-3LN	2CCA183107R0001		0.926	1
28 PLE 3LN	545	499	1413422	ZLS905E28-3LN	2CCA183109R0001		0.970	1
30 PLE 3LN	581	535	1413446	ZLS905E30-3LN	2CCA183111R0001		1.046	1
32 PLE 3LN	617	571	1413460	ZLS905E32-3LN	2CCA183113R0001		1.120	1
34 PLE 3LN	653	607	1413484	ZLS905E34-3LN	2CCA183115R0001		1.193	1
36 PLE 3LN	689	643	1413507	ZLS905E36-3LN	2CCA183117R0001		1.2.57	1
38 PLE 3LN	725	679	1413521	ZLS905E38-3LN	2CCA183119R0001		1.322	1
40 PLE 3LN	761	715	1413545	ZLS905E40-3LN	2CCA183121R0001		1.387	1
42 PLE 3LN	797	751	1413569	ZLS905E42-3LN	2CCA183123R0001		1.459	1
44 PLE 3LN	833	787	1413583	ZLS905E44-3LN	2CCA183125R0001		1.524	1
46 PLE 3LN	869	823	1413606	ZLS905E46-3LN	2CCA183127R0001		1.589	1
48 PLE 3LN	905	859	1413620	ZLS905E48-3LN	2CCA183129R0001		1.653	1
50 PLE 3LN	941	896	1413644	ZLS905E50-3LN	2CCA183131R0001		1.726	1
52 PLE 3LN	977	932	1413668	ZLS905E52-3LN	2CCA183133R0001		1.791	1
54 PLE 3LN	1013	968	1413682	ZLS905E54-3LN	2CCA183135R0001		1.855	1
56 PLE 3LN	1049	1004	1413705	ZLS905E56-3LN	2CCA183137R0001		1.920	1
58 PLE 3LN	1058	1040	1413729	ZLS905E58-3LN	2CCA183139R0001		1.992	1
60 PLE 3LN	1122	1076	1413743	ZLS905E60-3LN	2CCA183141R0001		2.057	1
62 PLE 3LN	1158	1112	1413767	ZLS905E62-3LN	2CCA183143R0001		2.122	1
64 PLE 3LN	1194	1148	1413781	ZLS905E64-3LN	2CCA183145R0001		2.186	1
66 PLE 3LN	1230	1184	1413804	ZLS905E66-3LN	2CCA183147R0001		2.259	1
68 PLE 3LN	1266	1220	1413828	ZLS905E68-3LN	2CCA183149R0001		2.324	1
70 PLE 3LN	1302	1256	1413842	ZLS905E70-3LN	2CCA183151R0001		2.388	1
72 PLE 3LN	1338	1292	1413866	ZLS905E72-3LN	2CCA183153R0001		2.453	1
74 PLE 3LN	1374	1328	1413880	ZLS905E74-3LN	2CCA183155R0001		2.526	1
76 PLE 3LN	1410	1364	1413903	ZLS905E76-3LN	2CCA183157R0001		2.590	1
78 PLE 3LN	1446	1400	1413927	ZLS905E78-3LN	2CCA183159R0001		2.655	1
80 PLE 3LN	1482	1436	1413941	ZLS905E80-3LN	2CCA183161R0001		2.719	1

SMISLINE TP plug-in system

Starter pack Touch proof 3L LA LB – 125 A system

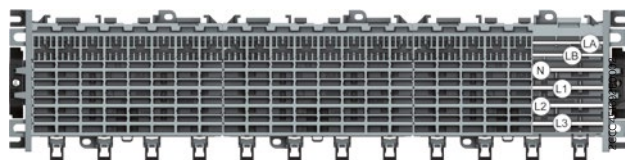


Starter Pack 3LLALB: L1, L2, L3, LA, LB inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
18 PLE 3L LA LB	364	320	1426538	ZLS905E18-3LLALB	2CCA183233R0001		0.586	1
20 PLE 3L LA LB	401	355	1416904	ZLS905E20-3LLALB	2CCA183162R0001		0.753	1
22 PLE 3L LA LB	437	391	1416911	ZLS905E22-3LLALB	2CCA183164R0001		0.821	1
24 PLE 3L LA LB	473	427	1416928	ZLS905E24-3LLALB	2CCA183166R0001		0.835	1
26 PLE 3L LA LB	509	463	1416935	ZLS905E26-3LLALB	2CCA183168R0001		0.964	1
28 PLE 3L LA LB	545	499	1416942	ZLS905E28-3LLALB	2CCA183170R0001		1.011	1
30 PLE 3L LA LB	581	535	1416959	ZLS905E30-3LLALB	2CCA183172R0001		1.107	1
32 PLE 3L LA LB	617	571	1416966	ZLS905E32-3LLALB	2CCA183174R0001		1.167	1
34 PLE 3L LA LB	653	607	1416973	ZLS905E34-3LLALB	2CCA183176R0001		1.242	1
36 PLE 3L LA LB	689	643	1416980	ZLS905E36-3LLALB	2CCA183178R0001		1.310	1
38 PLE 3L LA LB	725	679	1416997	ZLS905E38-3LLALB	2CCA183180R0001		1.377	1
40 PLE 3L LA LB	761	715	1417000	ZLS905E40-3LLALB	2CCA183182R0001		1.445	1
42 PLE 3L LA LB	797	751	1417017	ZLS905E42-3LLALB	2CCA183184R0001		1.520	1
44 PLE 3L LA LB	833	787	1417024	ZLS905E44-3LLALB	2CCA183186R0001		1.588	1
46 PLE 3L LA LB	869	823	1417031	ZLS905E46-3LLALB	2CCA183188R0001		1.656	1
48 PLE 3L LA LB	905	859	1417048	ZLS905E48-3LLALB	2CCA183190R0001		1.723	1
50 PLE 3L LA LB	941	896	1417055	ZLS905E50-3LLALB	2CCA183192R0001		1.799	1
52 PLE 3L LA LB	977	932	1417062	ZLS905E52-3LLALB	2CCA183194R0001		1.866	1
54 PLE 3L LA LB	1013	968	1417079	ZLS905E54-3LLALB	2CCA183196R0001		1.934	1
56 PLE 3L LA LB	1049	1004	1417086	ZLS905E56-3LLALB	2CCA183198R0001		2.001	1
58 PLE 3L LA LB	1058	1040	1417093	ZLS905E58-3LLALB	2CCA183200R0001		2.077	1
60 PLE 3L LA LB	1122	1076	1417109	ZLS905E60-3LLALB	2CCA183202R0001		2.144	1
62 PLE 3L LA LB	1158	1112	1417116	ZLS905E62-3LLALB	2CCA183204R0001		2.212	1
64 PLE 3L LA LB	1194	1148	1417123	ZLS905E64-3LLALB	2CCA183206R0001		2.279	1
66 PLE 3L LA LB	1230	1184	1417130	ZLS905E66-3LLALB	2CCA183208R0001		2.355	1
68 PLE 3L LA LB	1266	1220	1417147	ZLS905E68-3LLALB	2CCA183210R0001		2.423	1
70 PLE 3L LA LB	1302	1256	1417154	ZLS905E70-3LLALB	2CCA183212R0001		2.490	1
72 PLE 3L LA LB	1338	1292	1417161	ZLS905E72-3LLALB	2CCA183214R0001		2.558	1
74 PLE 3L LA LB	1374	1328	1417178	ZLS905E74-3LLALB	2CCA183216R0001		2.633	1
76 PLE 3L LA LB	1410	1364	1417185	ZLS905E76-3LLALB	2CCA183218R0001		2.701	1
78 PLE 3L LA LB	1446	1400	1417192	ZLS905E78-3LLALB	2CCA183220R0001		2.768	1
80 PLE 3L LA LB	1482	1436	1417208	ZLS905E80-3LLALB	2CCA183222R0001		2.836	1

SMISLINE TP plug-in system

Starter pack Touch proof 3LN LA LB – 125 A system

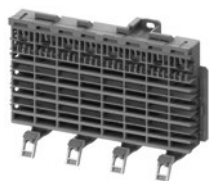


Starter Pack 3LNLALB: L1, L2, L3, N, LA, LB inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Bbn 761227 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
18 PLE 3LN LA LB	364	320	1426545	ZLS905E18-3LNLALB	2CCA183235R0001		0.671	1
20 PLE 3LN LA LB	401	355	1417215	ZLS905E20-3LNLALB	2CCA183163R0001		0.841	1
22 PLE 3LN LA LB	437	391	1417222	ZLS905E22-3LNLALB	2CCA183165R0001		0.917	1
24 PLE 3LN LA LB	473	427	1417239	ZLS905E24-3LNLALB	2CCA183167R0001		0.939	1
26 PLE 3LN LA LB	509	463	1417246	ZLS905E26-3LNLALB	2CCA183169R0001		1.078	1
28 PLE 3LN LA LB	545	499	1417253	ZLS905E28-3LNLALB	2CCA183171R0001		1.133	1
30 PLE 3LN LA LB	581	535	1417260	ZLS905E30-3LNLALB	2CCA183173R0001		1.238	1
32 PLE 3LN LA LB	617	571	1417277	ZLS905E32-3LNLALB	2CCA183175R0001		1.306	1
34 PLE 3LN LA LB	653	607	1417284	ZLS905E34-3LNLALB	2CCA183177R0001		1.391	1
36 PLE 3LN LA LB	689	643	1417291	ZLS905E36-3LNLALB	2CCA183179R0001		1.467	1
38 PLE 3LN LA LB	725	679	1417307	ZLS905E38-3LNLALB	2CCA183181R0001		1.543	1
40 PLE 3LN LA LB	761	715	1417314	ZLS905E40-3LNLALB	2CCA183183R0001		1.619	1
42 PLE 3LN LA LB	797	751	1417321	ZLS905E42-3LNLALB	2CCA183185R0001		1.704	1
44 PLE 3LN LA LB	833	787	1417338	ZLS905E44-3LNLALB	2CCA183187R0001		1.780	1
46 PLE 3LN LA LB	869	823	1417345	ZLS905E46-3LNLALB	2CCA183189R0001		1.856	1
48 PLE 3LN LA LB	905	859	1417352	ZLS905E48-3LNLALB	2CCA183191R0001		1.933	1
50 PLE 3LN LA LB	941	896	1417369	ZLS905E50-3LNLALB	2CCA183193R0001		2.017	1
52 PLE 3LN LA LB	977	932	1417376	ZLS905E52-3LNLALB	2CCA183195R0001		2.093	1
54 PLE 3LN LA LB	1013	968	1417383	ZLS905E54-3LNLALB	2CCA183197R0001		2.169	1
56 PLE 3LN LA LB	1049	1004	1417390	ZLS905E56-3LNLALB	2CCA183199R0001		2.246	1
58 PLE 3LN LA LB	1058	1040	1417406	ZLS905E58-3LNLALB	2CCA183201R0001		2.330	1
60 PLE 3LN LA LB	1122	1076	1417413	ZLS905E60-3LNLALB	2CCA183203R0001		2.406	1
62 PLE 3LN LA LB	1158	1112	1417505	ZLS905E62-3LNLALB	2CCA183205R0001		2.482	1
64 PLE 3LN LA LB	1194	1148	1419172	ZLS905E64-3LNLALB	2CCA183207R0001		2.559	1
66 PLE 3LN LA LB	1230	1184	1417420	ZLS905E66-3LNLALB	2CCA183209R0001		2.643	1
68 PLE 3LN LA LB	1266	1220	1417437	ZLS905E68-3LNLALB	2CCA183211R0001		2.719	1
70 PLE 3LN LA LB	1302	1256	1417444	ZLS905E70-3LNLALB	2CCA183213R0001		2.796	1
72 PLE 3LN LA LB	1338	1292	1417451	ZLS905E72-3LNLALB	2CCA183215R0001		2.872	1
74 PLE 3LN LA LB	1374	1328	1417468	ZLS905E74-3LNLALB	2CCA183217R0001		2.956	1
76 PLE 3LN LA LB	1410	1364	1417475	ZLS905E76-3LNLALB	2CCA183219R0001		3.032	1
78 PLE 3LN LA LB	1446	1400	1417482	ZLS905E78-3LNLALB	2CCA183221R0001		3.109	1
80 PLE 3LN LA LB	1482	1436	1417499	ZLS905E80-3LNLALB	2CCA183223R0001		3.185	1

SMISLINE TP plug-in system

Socket



ZLS90

Socket bases ZLS906, ZLS908

The SMISLINE socket system is a totally new kind of assembly and connection technology for the construction of distributions. Besides the classic method of snapping the devices onto 35-mm mounting rails, the new family of devices can be directly attached to the socket bases with integrated busbars. The time-consuming process of connecting up the supply is thereby no longer needed. In addition, in the event of rearrangement or expansion, the replacement of devices in existing systems is made significantly easier.

The socket sections and the wide range of accessories make it possible to plan with the capability for expansion and to construct distribution systems of any desired size in a short period of time.

6- and 8-module sockets are installed either by screwing them onto any flat surface or by snapping them onto a 35 mm DIN mounting rail. Lateral movement or detachment of the sockets again is possible before final fixing.

In order to determine the required socket length, the space necessary for

- the devices required
- the incoming terminal block and
- any reserve spaces needed must be determined.

Snap mounting

Pull down the slide with a screwdriver until it latches (socket can be moved).

Press on front of slid:

Fixed position

(Sockets fixed)

The key features

- System of any desired length (even number of poles)
- Integrated busbars
- Simple device change
- Long-term planning and problem free extension possible
- Significant time savings during assembly and connection

Socket base

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
8-module socket Length 144 mm (includes base and cover)	1413965	ZLS908	2CCA183030R0001		0.092	10
6-module socket Length 108 mm (includes base and cover)	1413958	ZLS906	2CCA183035R0001		0.071	10

Busbars for the sockets and additional socket ZLS200

The busbars of size 10x3 mm can be loaded with currents up to 125 A. They are plated for perfect contact with the devices plug-in contacts. The maximum available busbar length is

SMISLINE TP plug-in system

Busbars, Socket end piece – 125 A system



ZLS20

1979 mm. The same busbar type is used, regardless whether it is fitted in the socket (L1, L2, L3, N) or in the additional socket (N, PE). The busbars are inserted in to the socket from the front.

Auxiliary busbars for the socket ZLS202

The 5x2 mm auxiliary busbars are intended for a common power supply of auxiliary switches and signal contacts. They are also plated and their max. delivery length is 1979 mm.

Like the main busbars, the auxiliary busbars are inserted in holders LA and LB from the front. Of course, only on auxiliary busbar can be fitted.

Busbars for the sockets

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
125 A busbar plated, 10x3 mm, for L1, L2, L3, N and PE – Delivery length 1979 mm	0015702	ZLS200	2CCF002772R0001		0.640	10
40 A auxiliary busbar plated, 5x2 mm, for LA und LB – Delivery length 1979 mm	0015719	ZLS202	2CCF002773R0001		0.240	10

Socket end piece ZLS920

To prevent displacement of sockets and busbars (particulary when installed vertically) end pieces can be fitted at the start and finish of each row of sockets. These simultaneously ensure electrically protected covering of the busbar end faces and mechanical fixing of the sockets oh the mounting rail.



ZLS920

Socket end piece

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
To prevent displacement of sockets and busbars	1415617	ZLS920	2CCA183017R0001			1

SMISSLINE TP plug-in system

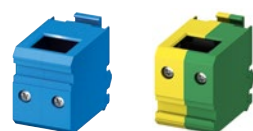
Incoming terminal block and components – 125A system



ZLS26



ZLS25



ZLS95

Incoming terminal blocks ZLS260 to 262

Compact terminal block with the construction width of 18 mm for 2 poles. The maximum rated current is 63 A for L1, L2, L3N and 6 A for LA, LB.

Incoming terminal block 18 mm, 63 A 2,5 mm² to 25 mm² max. 1 wire

1 contact above 1 contact bottom

Version	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
L1, L3 63 A	0111572	ZLS260	2CCA205305R0001		0.090	1
L2, N 63 A	0111589	ZLS261	2CCA205306R0001		0.090	1
LA, LB 6 A	0111596	ZLS262	2CCA205307R0001		0.090	1

Incoming terminal component ZLS250-253; 954, 955

The incoming terminal component, with an installation width of 36 mm is available as a single-pole component for the line conductors L1, L2, L3 and as neutral. The terminals act directly on the busbars and thereby fix the incoming terminal component. The incoming terminal component, L1, L2, L3 and N can be combined to meet specific needs. A maximum cable cross-section of 95 mm² can be connected to the incoming terminal component.

Incoming terminal component 10 mm² to 95 mm² max. 1 wire

Version	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Feeder component L1	0505319	ZLS251	2CCV672501R0001		0.120	1
Feeder component L2	0505326	ZLS252	2CCV672502R0001		0.120	1
Feeder component L3	0505333	ZLS253	2CCV672503R0001		0.120	1
Feeder component N	0505340	ZLS250	2CCV672500R0001		0.120	1
Feeder component N additional socket	1424404	ZLS954	2CCV672508R0001		0.100	1
Feeder component PE additional socket	1487164	ZLS959	2CCA672510R0001		0.100	1
Feeder component N additional socket (2 holes)	1452797	ZLS954-1	2CCF183335R0001		0.100	1

SMISLINE TP plug-in system

Incoming terminal block and components – 125 A system



General

The incoming terminal block is used to connect cables directly to the busbars. The terminals act directly on the busbars and therefore fix the incoming terminal block. Removable terminal tops permit the connection of continuous conductors (risers) while horizontal or vertical cable entry is also possible.

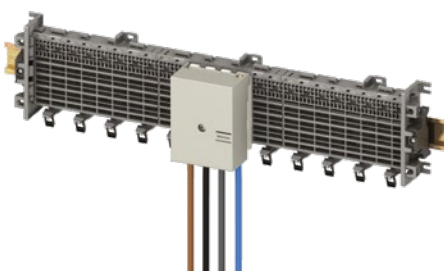
Instead of using the incoming terminal block, the power supply can also be realized via a device (e.g. residual current operated circuit breaker, miniature circuit breaker or switch disconnector).

Power supply left or right, maximum 125 A.



Power supply in centre, maximum 160 A.

A maximum of 125 A is permitted on either side. A total of 160 A must not be exceeded.



Incoming terminal blocks ZLS924

A standard incoming terminal block whose cover provides protection against accidental contact. Construction height 50 mm. The base plate can be fitted with a maximum of 4 main terminals L1, L2, L3 and N for the busbars, and 2 auxiliary terminals LA and LB for the auxiliary busbars.

SMISLINE TP plug-in system

Incoming terminal block and components

Crosstable old to new

Old range Incoming block		New range incoming block	
Type code	Order code	Type code	Order code
ZLS225	2CCF015197R0001	ZLS924-3L	2CCF181816R0001
ZLS224	2CCF015196R0001	ZLS924-3LN	2CCF181818R0001
ZLS225LALB	2CCA180155R0001	ZLS924-3LNAB	2CCF181820R0001
ZLS224LAB	2CCA180154R0001	ZLS924-3LNAB	2CCF181820R0001
ZLS225R	2CCA180153R0001	ZLS924-3L-R	2CCF181817R0001
ZLS224R	2CCA180152R0001	ZLS924-3LN-R	2CCF181819R0001
ZLS232	2CCF002785R0001	ZLS936	2CCF181805R0001
ZLS233	2CCF002786R0001	ZLS937	2CCF181807R0001
ZLS235	2CCA180069R0001	ZLS939	2CCF181812R0001
ZLS229	2CCF015201R0001	ZLS924-3L	2CCF181816R0001
ZLS228	2CCF015200R0001	ZLS924-3LN	2CCF181818R0001
ZLS229R	2CCF180158R0001	ZLS924-3L-R	2CCF181817R0001
ZLS228R	2CCF180157R0001	ZLS924-3LN-R	2CCF181819R0001

Sales start new range June 2019

Incoming terminal blocks 6 mm² to 50 mm² (2 × 25 mm²) + 2 × 10 mm² (LA, LB)

Module Bbn		Price		Weight	Pack
761227		1 piece		1 piece	unit
		EAN	Type code	Order code	kg pc.
50 mm ² (2×25 mm ²) 4	1503086	ZLS924-3L	2CCF181816R0001	0.140	1
3L left					
50 mm ² (2×25 mm ²) 4	1503093	ZLS924-3LN	2CCF181818R0001	0.168	1
3L+N left					
50 mm ² (2×25 mm ²) 4	1503109	ZLS924-3LNAB	2CCF181820R0001	0.188	1
3L+N+LA+LB left					
50 mm ² (2×25 mm ²) 4	1503116	ZLS924-3L-R	2CCF181817R0001	0.140	1
3L right					
50 mm ² (2×25 mm ²) 4	1503123	ZLS924-3LN-R	2CCF181819R0001	0.168	1
3L+N right					
50 mm ² (2×25 mm ²) 4	1503130	ZLS924-3LNAB-R	2CCF181821R0001	0.188	1
3L+N+LA+LB right					

Terminals for incoming block

Version		Module Bbn		Price		Weight	Pack
		761227		1 piece		1 piece	unit
		EAN	Type code	Order code	kg	pc.	
Terminal L	–	1503147	ZLS936	2CCF181805R0001	0.028	1	
Terminal LA LB	–	1503154	ZLS937	2CCF181807R0001	0.010	1	

Cover for incoming terminal block

Version		Module Bbn		Price		Weight	Pack
		761227		1 piece		1 piece	unit
		EAN	Type code	Order code	kg	pc.	
4		1503161	ZLS939	2CCF181812R0001	0.026	1	





SMISSLINE TP plug-in system

Terminals for additional socket – 125 A system



ZLS928



ZLS926

Additional socket

The additional socket can easily be fitted onto the socket base to accomodate the external N and/or PE busbars. This enables neutral connections to be made where single-pole miniature circuit breakers are used with unswitched neutral. Neutral terminals are clipped onto the additional socket and can be used as detachable neutral connections. One N busbar and/or one PE busbar can be fitted. Each socket base can be equipped with an additional socket. Because it contains an integrated 35 mm DIN-rail snap-on feature, the external N or PE busbars can be fitted anywhere in the distribution panel, even separatly from the system. The additional sockets can be covered to prevent accidental contact with live parts.

Additional socket for external N and PE busbars

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
8-module socket (suitable for 8-module socket)	1420444	ZLS928	2CCA183630R0001		0.034	10
6-module socket (suitable for 6-module socket)	1420437	ZLS926	2CCA183635R0001		0.026	10

SMISLINE TP plug-in system

Terminals TP, additional socket



N terminals and PE terminals

Corresponding N terminals (blue) or PE terminals (yellow-green) are available for the power supply and the outgoing conductors of the external N and PE busbars for cross sections. The terminals are fitted with label holders which can be used with the marking adapter or the self-adhesive marking label (Phoenix Contact type Cipline UC-TM):

Connection for the terminals

ZLS918, 919	0.75 mm ² up to 10 mm ² litz wire with ferrule 1 mm ² up to 10 mm ² strand 2x1.5 mm ² or 2x2.5 mm ² allowed, all other combinations it is only allowed with one wire
ZLS913, 929	16 mm ² up to 35 mm ² wire with ferrule, max. 1 wire
ZLS954, 959	50 mm ² up to 95 mm ² wire with ferrule, max. 1 wire

N terminal for additional socket light blue, for external busbars

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
N 10 mm ²	1487027	ZLS918	2CCA183440R0001		0.012	Set à 10
N 35 mm ²	1421304	ZLS913	2CCA183470R0001		0.030	10
N 95 mm ²	1424404	ZLS954	2CCV672508R0001		0.100	1

PE terminal for additional socket yellow-green, for external busbars

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
PE 10 mm ²	1487041	ZLS919	2CCA183441R0001		0.012	Set à 10
PE 35 mm ²	1486921	ZLS929	2CCA183387R0001		0.030	10
PE 95 mm ²	1487164	ZLS959	2CCA672510R0001		0.100	1

Red/orange terminals for additional socket

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
10 mm ²	1487089	ZLS918/Red	2CCA183443R0001		0.012	10
10 mm ²	1487102	ZLS919/Orange	2CCA183444R0001		0.012	10
35 mm ²	1421342	ZLS913/Red	2CCA183465R0001		0.030	10
35 mm ²	1421366	ZLS916/Orange	2CCA183466R0001		0.030	10

Insulator block

The dark grey insulator block isolates the interrupted bus bar ends from one another and simultaneously marks the disconnection point externally.

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	1487065	ZLS927	2CCA183442R0001		0.006	10

SMISLINE TP plug-in system

Terminal range UL

Connection for the terminals

ZLS918UL, 919UL	0.75 mm ² up to 10 mm ² litz wire with ferrule 1 mm ² up to 10 mm ² strand 2x1.5 mm ² or 2x2.5 mm ² allowed, all other combinatins it is only allowed with one wire
ZLS913UL, 929UL	16 mm ² up to 35 mm ² wire with ferrule, max. 1 wire
ZLS954UL, 959UL	50 mm ² up to 95 mm ² wire with ferrule, max. 1 wire

N terminal for additional socket light grey, for external busbars

Description/ application	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
N 10 mm ² max. 8AWG	1493301	ZLS918UL	2CCA183446R0001	0.5	0.011	1
N 35 mm ² max. 2AWG	1486945	ZLS913UL	2CCA183398R0001	1	0.030	1
N 95 mm ² max. 1/0AWG	1487188	ZLS954UL	2CCA672511R0001	2	0.088	1

PE terminal for additional socket grey-green, for external busbars

Description/ application	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
PE 10 mm ² max. 8AWG	1487140	ZLS919UL	2CCA183447R0001	0.5	0.011	1
PE 35 mm ² max. 2AWG	1486969	ZLS929UL	2CCA183399R0001	1	0.030	1
PE 95 mm ² max. 1/0AWG	1487201	ZLS959UL	2CCA672512R0001	2	0.088	1

Insulator block

The dark grey insulator block isolates the interrupted bus bar ends from one another and simultaneously marks the disconnection point externally.

Description/ application	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code			
dark gray, to isolate the N bus bar on the additional socket	1487065	ZLS927	2CCA183442R0001	0.5	0.009	1



SMISLINE TP plug-in system

Socket accessories



Intermediate piece ZLS725

The light grey intermediate piece matches the device profile and fills empty module spaces. The busbars are safely covered, so that they cannot be touched and at the same time the corresponding openings in the cover are closed up.

Intermediate piece

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
light grey, fills shock-proof empty module spaces 18 mm – bag containing 5 items	0100989	ZLS725	2CCS500900R0181		0.100	1
Compensation piece to 18 mm for NT 9 mm – bag containing 5 items	0104710	ZLS728	2CCS400900R0101		0.070	1



Busbar insulator ZLS938

The dark grey busbar insulator electrically isolates the separated busbar ends from each other (e.g. when using several RCD protected groups) and also identifies the isolation point from outside. It conforms with the device profile and its space requirement is 1 module.

Busbar insulator

dark grey, for isolation and spacing of separate busbar sections, 18 mm	1418205	ZLS938	2CCA205611R0001		0.001	1
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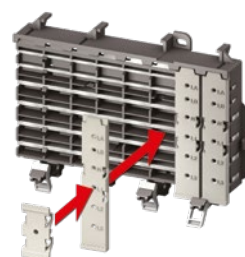


Busbar cover ZLS100

If component modules or spare modules are not required, the busbar cover ensures electrically protected covering of the main and auxiliary busbars. The cover (4 modules) can be divided anywhere. The openings allow voltage measurements on the busbars without removing the cover.

Busbar cover

electrically protected covering of main and auxiliary busbars. The 4 modules cover can be divided. Suitable to accept extension adapter ZLS 101 4x18 mm – bag containing 5 items	0015603	ZLS100	2CCF002762R0001		0.095	1
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Extension adapter ZLS101

The extension adapter, single or several side by side, can be plugged into the busbar cover via the built-in holding device. This enables conventional DIN devices with 45 mm cap size to be snapped onto the SMISLINE socket. By plugging in several extension adapters one on top of the other, heights can be adjusted in multiples of 7 mm

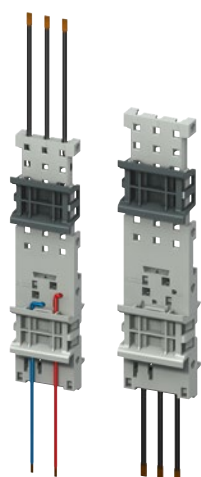
Add-on adapter

18 mm wide, can be plugged on busbar cover ZLS100. To mount conventional DIN devices with 45 mm cap size. – bag containing 10 items	0015610	ZLS101	2CCF002763R0001		0.002	10
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SMISSLINE TP plug-in system

Combi module 32 A (IN), 6 A (IA, IB)

MS116/132 + AF contactor



Combi module for MS116/MS132 and AF contactor

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
Combi module L1,L2,L3 top feed	1414641	ZMS132-3L	2CCA182500R0001		0.095	1
Combi module L1,L2,L3 top feed	1414634	ZMS132-3LA	2CCA182502R0001		0.098	1
Combi module L1,L2,L3 top feed	1414627	ZMS132-3LB	2CCA182504R0001		0.098	1
Combi module L1,L2,L3 top feed	1414610	ZMS132- 3LAB	2CCA182506R0001		0.102	1
Combi module without plug-in contacts	1414603	ZMS137	2CCA182508R0001		0.075	1
Connection pin to mont 2 combi moduls together	1414801	E210-SPV	2CCC703715R0001		0.010	Set à 30
Intermediate piece 9mm	1414412	ZMS935	2CCA182616R0001		0.006	1
Adapter MS116/132 L123L wire bottom feed	1503208	ZMS132- 3LWB	2CCF182543R0001		0.105	1

Combi module for MS116/MS132 and AF contactors for push in terminals

Adapter MS116/132 L123 wire top feed For push terminals	1503178	ZMS132- 3L-PI	2CCF182540R0001		0.105	1
Adapter MS116/132 L123LB wire top feed For push terminals	1503185	ZMS132- 3LB-PI	2CCF182541R0001		0.105	1
Adapter MS116/132 L123LAB wire top feed For push terminals	1503192	ZMS132- 3LAB-PI	2CCF182542R0001		0.105	1

The 9 mm wide additional housing is need to use when an unequal number (1, 3, 5, ...) of combi modules or adapter are plugged on the socket. This is needed to fill the space into a full module (18 mm).

The 9 mm wide additional housing can be also use when on one side of the manual motor starter an auxiliary contact is mounted. The order codes of manual motor starter and the contactors auf in the ABB catalogue DOC 1SBC100155C0202 or in the local ABB catalogue.

SMISLINE TP plug-in system

Combi module 32 A (IN), 6 A (IA, IB)

MS116/132 + AF contactor



Adapter for manual motor starter MS116 and MS132

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code			
Adapter MS116/132 L123 wire bottom feed	1414597	ZMS930	2CCA182520R0001		0.030	1
Adapter MS116/132 L123LALB wire bottom feed	1414580	ZMS931	2CCA182522R0001		0.062	1
Adapter MS116/132 L123 wire top feed	1414573	ZMS932	2CCA182524R0001		0.030	1
Adapter MS116/132 L123LALB wire top feed	1414566	ZMS933	2CCA182526R0001		0.062	1
Adapter MS116/132 empty	1414559	ZMS934	2CCA182512R0001		0.034	1
Intermediate piece 9mm	1414412	ZMS935	2CCA182616R0001		0.006	1
Adapter MS116/132 L123LA wire bottom feed	1424619	ZMS936	2CCA182521R0001		0.058	1
Adapter MS116/132 L123LA wire top feed	1424626	ZMS937	2CCA182525R0001		0.058	1
Adapter for AF contactor no wires	1414542	ZMS938	2CCA182510R0001		0.034	1
Adapter for MS116/MS132 for push in terminals						
Adapter MS116/132 L123 bottom for push in terminals	1503215	ZMS930-PI	2CCF182550R0001		0.058	1
Adapter MS116/132 L123 top for push in terminals	1503208	ZMS932-PI	2CCF182551R0001		0.058	1

The 9 mm wide additional housing is need to use when an unequal number (1, 3, 5, ...) of combi modules or adapter are plugged on the socket. This is needed to fill the space into a full module (18 mm).

The 9 mm wide additional housing can be also use when on one side of the manual motor starter an auxiliary contact is mounted.

The order codes of manual motor starter and the contactors auf in the ABB catalogue DOC 1SBC100155C0202 or in the local ABB catalogue.



SMISLINE TP plug-in system

Locking device

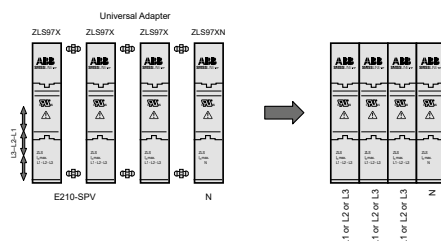


SA

Locking device					
Padlock adapter 3 mm – Bag containing 10 items	0104833	SA 1	GJF1101903R0001	0.023	1
Padlock	0104857	SA 2	GJF1101903R0002	0.020	1

SMISSLINE TP plug-in system

Universal adapters 32A and 63A



Multipole universal adapter can plugged together with single adapters and the connection piece E210SPV.

32A and 63A universal adapters

Adapter 32A

Designation	Module	Bbn 761227	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			EAN	Type code Order code			
L1/L2/L3 wire top	1	144 4563	ZLS970	2CCA180551R0001		0.020	1
L1/L2/L3 wire bottom ZLS971	1	144 4570	ZLS971	2CCA180552R0001		0.020	1
N wire top ZLS970N	1	144 4587	ZLS970N	2CCA180553R0001		0.020	1
N wire bottom ZLS971N	1	144 4570	ZLS971N	2CCA180554R0001		0.020	1

Adapter 63A

L1/L2/L3 wire top ZLS972	1	144 4709	ZLS972	2CCA180555R0001		0.024	1
L1/L2/L3 wire bottom ZLS973	1	144 4716	ZLS973	2CCA180556R0001		0.024	1
N wire top ZLS972N	1	144 4808	ZLS972N	2CCA180557R0001		0.024	1
N wire bottom ZLS973N	1	144 4730	ZLS973N	2CCA180558R0001		0.024	1

Adapter 32A with 300mm wire

L1/L2/L3 wire top ZLS970	1	144 4747	ZLS970300	2CCA180559R0001		0.026	1
L1/L2/L3 wire bottom ZLS971	1	144 4754	ZLS971300	2CCA180560R0001		0.026	1
N wire top ZLS970N	1	144 4761	ZLS970N300	2CCA180561R0001		0.026	1
N wire bottom ZLS971N	1	144 4778	ZLS971N300	2CCA180562R0001		0.026	1

Adapter 63A with 300mm wire

L1/L2/L3 Litze o. ZLS972	1	144 4785	ZLS972300	2CCA180563R0001		0.037	1
L1/L2/L3 Litze u. ZLS973	1	144 4792	ZLS973300	2CCA180564R0001		0.037	1
N wire top ZLS972N	1	144 4808	ZLS972N300	2CCA180565R0001		0.037	1
N wire bottom ZLS973N	1	144 4815	ZLS973N300	2CCA180566R0001		0.037	1

Adapter 25A UL489, adapter can be only used together with ABB Pro M MCB S200 UL489

L1/L2/L3 Litze o. ZLS970 UL	1	144 4822	ZLS970UL	2CCA337020R0001		0.021	1
L1/L2/L3 Litze u. ZLS971 UL	1	144 4839	ZLS971UL	2CCA337021R0001		0.021	1

Adapter 45A UL489, adapter can be only used together with ABB Pro M MCB S200 UL489

L1/L2/L3 Litze o. ZLS972 UL	1	144 4860	ZLS972UL	2CCA337024R0001		0.025	1
L1/L2/L3 Litze u. ZLS973 UL	1	144 4877	ZLS973UL	2CCA337025R0001		0.025	1

Dummy housing

1	144 4556	ZLS964	2CCA180550R0001		0.011	1
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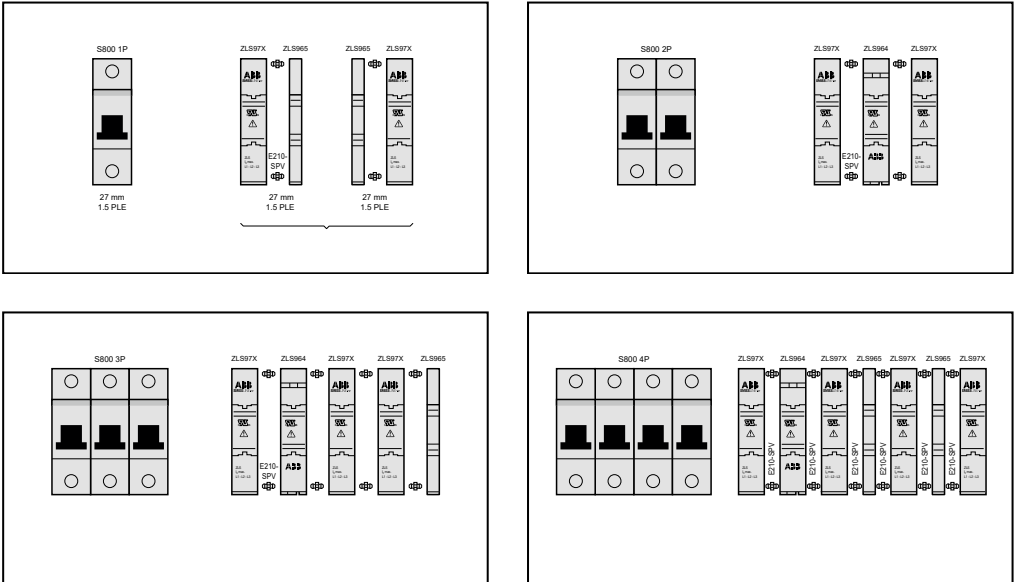
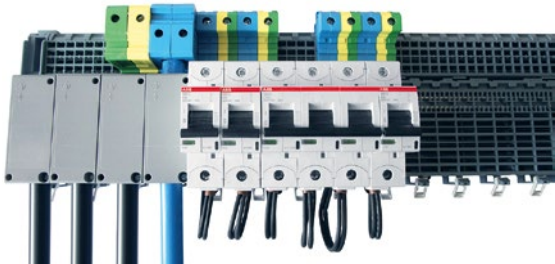
Connector for multi- pole adapter

Bag with 30 pcs. 10	1414801	E210-SPV	2CCC703715R0001		0.050	Set of 30 pcs.
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SMISLINE TP plug-in system

Universal adapters - 27mm wide Solution for S800

Simple mounting S800 MCB on SMISLINE TP system with 27mm wide universal adapter. Assembly to plug-in socket system with universal adapter and S800. Maximum rated current of outgoing circuits (Inc) max. 50A for S800 with ZLS972X, ZLS973X.



Description	Bbn	Order details		Module	Weight	Pack
	761227	Type code	Order code		1 piece	unit
9mm wide	1501440	ZLS965	2CCA180545R1001	0.5	0.005	Set of 5

SMISLINE TP plug-in system

Busbars 40 A and 125 A

40 A and 125 A busbars / selection table for sockets

Bbn 761227	Order details		Price 1 piece	ZL S908	ZL S906	Mod- ule	Length incl. end piece	Busbar length	Bbn 761227	Order details		Price 1 piece
EAN	busbar 125 A Type code	Order code						mm	EAN	busbar 40 A Type code	Order code	
006778	ZLS201E6	2CCF800158R0001	–	1	6	148	103		007966	ZLS203E6	2CCF800218R0001	
006983	ZLS201E8	2CCF800159R0001	1	–	8	186	139		008178	ZLS203E8	2CCF800219R0001	
006211	ZLS201E12	2CCF800160R0001	–	2	12	256	211		007409	ZLS203E12	2CCF800220R0001	
006310	ZLS201E14	2CCF800161R0001	1	1	14	292	247		007508	ZLS203E14	2CCF800221R0001	
006334	ZLS201E16	2CCF800162R0001	2	–	16	328	283		007522	ZLS203E16	2CCF800222R0001	
006358	ZLS201E18	2CCF800163R0001	–	3	18	364	319		007546	ZLS203E18	2CCF800223R0001	
006372	ZLS201E20	2CCF800164R0001	1	2	20	401	355		007560	ZLS203E20	2CCF800224R0001	
006396	ZLS201E22	2CCF800165R0001	2	1	22	437	391		007584	ZLS203E22	2CCF800225R0001	
006419	ZLS201E24	2CCF800166R0001	3	–	24	473	427		007607	ZLS203E24	2CCF800226R0001	
006433	ZLS201E26	2CCF800167R0001	1	3	26	509	463		007621	ZLS203E26	2CCF800227R0001	
006457	ZLS201E28	2CCF800168R0001	2	2	28	545	499		007645	ZLS203E28	2CCF800228R0001	
006471	ZLS201E30	2CCF800169R0001	3	1	30	581	535		007669	ZLS203E30	2CCF800229R0001	
006495	ZLS201E32	2CCF800170R0001	4	–	32	617	571		007683	ZLS203E32	2CCF800230R0001	
006518	ZLS201E34	2CCF800171R0001	2	3	34	653	607		007706	ZLS203E34	2CCF800231R0001	
006532	ZLS201E36	2CCF800172R0001	3	2	36	689	643		007720	ZLS203E36	2CCF800232R0001	
006556	ZLS201E38	2CCF800173R0001	4	1	38	725	679		007744	ZLS203E38	2CCF800233R0001	
006570	ZLS201E40	2CCF800174R0001	5	–	40	761	715		007768	ZLS203E40	2CCF800234R0001	
006594	ZLS201E42	2CCF800175R0001	3	3	42	797	751		007782	ZLS203E42	2CCF800235R0001	
006617	ZLS201E44	2CCF800176R0001	4	2	44	833	787		007805	ZLS203E44	2CCF800236R0001	
006631	ZLS201E46	2CCF800177R0001	5	1	46	869	823		007829	ZLS203E46	2CCF800237R0001	
006655	ZLS201E48	2CCF800178R0001	6	–	48	905	859		007843	ZLS203E48	2CCF800238R0001	
006679	ZLS201E50	2CCF800179R0001	4	3	50	941	895		007867	ZLS203E50	2CCF800239R0001	
006693	ZLS201E52	2CCF800180R0001	5	2	52	977	932		007881	ZLS203E52	2CCF800240R0001	
006716	ZLS201E54	2CCF800181R0001	6	1	54	1013	968		007904	ZLS203E54	2CCF800241R0001	
006730	ZLS201E56	2CCF800182R0001	7	–	56	1049	1004		007928	ZLS203E56	2CCF800242R0001	
006754	ZLS201E58	2CCF800183R0001	5	3	58	1085	1040		007942	ZLS203E58	2CCF800243R0001	
006785	ZLS201E60	2CCF800184R0001	6	2	60	1122	1076		007973	ZLS203E60	2CCF800244R0001	
006808	ZLS201E62	2CCF800185R0001	7	1	62	1158	1112		007997	ZLS203E62	2CCF800245R0001	
006822	ZLS201E64	2CCF800186R0001	8	–	64	1194	1148		008017	ZLS203E64	2CCF800246R0001	
006846	ZLS201E66	2CCF800187R0001	6	3	66	1230	1184		008031	ZLS203E66	2CCF800247R0001	
006860	ZLS201E68	2CCF800188R0001	7	2	68	1266	1220		008055	ZLS203E68	2CCF800248R0001	
006884	ZLS201E70	2CCF800189R0001	8	1	70	1302	1256		008079	ZLS203E70	2CCF800249R0001	
006907	ZLS201E72	2CCF800190R0001	9	–	72	1338	1292		008093	ZLS203E72	2CCF800250R0001	
006921	ZLS201E74	2CCF800191R0001	7	3	74	1374	1328		008116	ZLS203E74	2CCF800251R0001	
006945	ZLS201E76	2CCF800192R0001	8	2	76	1410	1364		008130	ZLS203E76	2CCF800252R0001	
006969	ZLS201E78	2CCF800193R0001	9	1	78	1446	1400		008154	ZLS203E78	2CCF800253R0001	
006990	ZLS201E80	2CCF800194R0001	10	–	80	1482	1436		008185	ZLS203E80	2CCF800254R0001	
007010	ZLS201E82	2CCF800195R0001	8	3	82	1518	1472		008208	ZLS203E82	2CCF800255R0001	
007034	ZLS201E84	2CCF800196R0001	9	2	84	1554	1508		008222	ZLS203E84	2CCF800256R0001	
007058	ZLS201E86	2CCF800197R0001	10	1	86	1590	1544		008246	ZLS203E86	2CCF800257R0001	
007072	ZLS201E88	2CCF800198R0001	11	–	88	1626	1580		008260	ZLS203E88	2CCF800258R0001	
007096	ZLS201E90	2CCF800199R0001	9	3	90	1662	1616		008284	ZLS203E90	2CCF800259R0001	
007119	ZLS201E92	2CCF800200R0001	10	2	92	1698	1652		008307	ZLS203E92	2CCF800260R0001	
007133	ZLS201E94	2CCF800201R0001	11	1	94	1734	1688		008321	ZLS203E94	2CCF800261R0001	
007157	ZLS201E96	2CCF800202R0001	12	–	96	1770	1724		008345	ZLS203E96	2CCF800262R0001	
007171	ZLS201E98	2CCF800203R0001	10	3	98	1806	1760		008369	ZLS203E98	2CCF800263R0001	
006006	ZLS201E100	2CCF800204R0001	11	2	100	1843	1796		007195	ZLS203E100	2CCF800264R0001	
006020	ZLS201E102	2CCF800205R0001	12	1	102	1879	1832		007218	ZLS203E102	2CCF800265R0001	
006044	ZLS201E104	2CCF800206R0001	13	–	104	1915	1868		007232	ZLS203E104	2CCF800266R0001	
006068	ZLS201E106	2CCF800207R0001	11	3	106	1951	1904		007256	ZLS203E106	2CCF800267R0001	
006082	ZLS201E108	2CCF800208R0001	12	2	108	1987	1940		007270	ZLS203E108	2CCF800268R0001	

Planning for the incorporation of feeder block and spare places should be taken into account.
The total lengths given above were calculated taking socket spacings and tolerances into account.
For this reason, the indicated busbar length is not necessarily a multiple of 18 mm (1 Module).

SMISLINE TP plug-in system

Technical data according to IEC/EN 61439-6

Power Bar System 250 A

Busbar system touch proof:

Use only for wall mounted application (horizontal or vertical).

When installed correctly the requirements of EN/IEC 61439-2 are met.

Number of poles:	6 to 110 3p+N / 2 additional bars PE+N
Rated operational voltage (U_o):	690 VAC, 1000 VDC (400 VAC, 250 VDC when used for load-free snap on and off under power)
Rated insulation voltage (U_i) Main circuit:	690 VAC, 1000 VDC
Rated insulation voltage (U_i) Auxiliary circuit:	415 VAC
IP Code:	IP20B
Mounting position:	horizontal or vertical, direct mounting or mounting on DIN rail acc. to EN 60715 35 mm
Pollution degree:	3 (690 V a.c.) 2 (1000 V d.c.)
Rated impulse voltage (U_{imp}):	8 kV Main circuit; 6 kV Auxiliary circuit
Rated current of the assembly (I_n A):	max. 250 A side feeding
Rated current of a circuit (I_{nc}):	Main circuit: Max. 100 A
Rated current of Auxiliary circuit:	40 A
Rated short-time withstand current (I_{cw}):	15 kA/100 ms Main circuit 4 kA / 50 ms Auxiliary circuit
Rated peak withstand current Main circuit (I_{pk}):	Main circuit: 30 kA
Rated peak withstand current Auxiliary circuit (I_{pk}):	6 kA
Rated frequency (f):	50/60 Hz
Rated conditional short-circuit current (I_{cc}):	see table below
Ambient air temperature:	max. 60°C
Size of CU bars 3P+N+PE:	3x25 mm (75 mm ²)
Size of CU auxiliary bars La Lb:	2x5 mm (10 mm ²)

Rated Voltage (U_o)	Rated conditional short-circuit current (I_{cc})	Incoming current of main busbars (L1, L2, L3, N)	Short circuit protection device (SCPD)	
			Fuse	MCCB
415 V	100 kA	250 A	NH1 gG 690V/250A	ABB T _{max} T4/XT4 250 A
690 V	25 kA	250 A	NH1 gG 690V/250A	ABB T _{max} T4/XT4 250 A
Incoming current of auxiliary busbars (La Lb)				
	25 kA	40 A	NH00 gG 415 V/40 A	ABB Type S800(240/415VAC)

SMISLINE TP plug-in system

Busbar system 250 A

Technical data data UL508; Approvals for US and CA: cULus

SMISLINE TP system for UL 508 – Industrial Control Equipment,

CSA C22.2 No. 14 – Industrial Control Equipment UL File E222110

Technical data UL508 Industrial Control Equipment SMISLINE TP busbar system

Rated Voltage: 600 V AC

Rated Current (End feed, left and right): 250 A left or right

Short Circuit Ratings: 50 kA, max. 480 V AC, 480 Y/277 V and 240 V AC, or 30 kA, max. 600 V AC and 600 Y/347 V

Technical data UL508 Industrial Control Equipment (ZLSP906, ZLSP908, ZLSP920)

	Busbar ZLSP200	Feeder ZLS934	Feeder block ZLS924, 95X	Combimodule ZLS840X, 842X	Universal- adapter ZLS97X	Terminals ZLS95XUL, 91XUL	Combi modul ZMS132X	Adapter moter strater ZMS93X
Maximum rated voltage	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC	600 V AC
Maximum rated current	250 A	250 A	150 A	30 A	32 A, 63 A	32 A, 100 A, 150 A	32 A	32 A

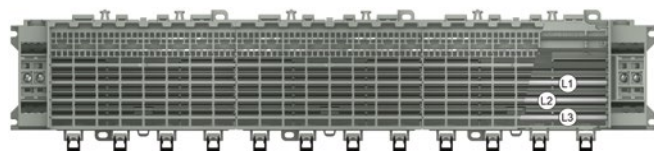
Circuit breaker accessories UL489 universal adapter

	970UL, 971UL, 972UL or 973UL
Maximum nominal voltage	600 V
Maximum nominal current	25 A, 45 A

SMISLINE TP plug-in system

Starter 3L

Power Bar System 250 A



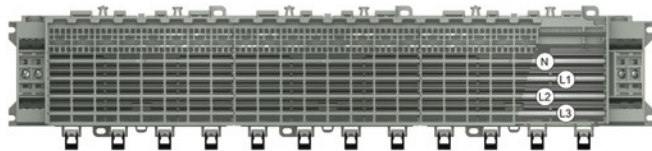
Starter Pack 3L: L1, L2, L3 included socket end piece

Solutions available	Type name	ABB IT number	EAN number 761 227	Pack unit	Moduls (1 PLE 18mm)	Weight in grams
Starter Pack 3L PLE 30	ZLSP950E30-3L	2CCF212200A0001	148 8246	1	30PLE-3L	1755
Starter Pack 3L PLE 32	ZLSP950E32-3L	2CCF212201A0001	148 8260	1	32PLE-3L	1863
Starter Pack 3L PLE 34	ZLSP950E34-3L	2CCF212202A0001	148 8284	1	34PLE-3L	1981
Starter Pack 3L PLE 36	ZLSP950E36-3L	2CCF212203A0001	148 8307	1	36PLE-3L	2088
Starter Pack 3L PLE 38	ZLSP950E38-3L	2CCF212204A0001	148 8321	1	38PLE-3L	2195
Starter Pack 3L PLE 40	ZLSP950E40-3L	2CCF212205A0001	148 8345	1	40PLE-3L	2303
Starter Pack 3L PLE 42	ZLSP950E42-3L	2CCF212206A0001	148 8369	1	42PLE-3L	2421
Starter Pack 3L PLE 44	ZLSP950E44-3L	2CCF212207A0001	148 8383	1	44PLE-3L	2528
Starter Pack 3L PLE 46	ZLSP950E46-3L	2CCF212208A0001	148 8406	1	46PLE-3L	2635
Starter Pack 3L PLE 48	ZLSP950E48-3L	2CCF212209A0001	148 8420	1	48PLE-3L	2742
Starter Pack 3L PLE 50	ZLSP950E50-3L	2CCF212210A0001	148 8444	1	50PLE-3L	2861
Starter Pack 3L PLE 52	ZLSP950E52-3L	2CCF212211A0001	148 8468	1	52PLE-3L	2968
Starter Pack 3L PLE 54	ZLSP950E54-3L	2CCF212212A0001	148 8482	1	54PLE-3L	3075
Starter Pack 3L PLE 56	ZLSP950E56-3L	2CCF212213A0001	148 8505	1	56PLE-3L	3182
Starter Pack 3L PLE 58	ZLSP950E58-3L	2CCF212214A0001	148 8529	1	58PLE-3L	3301
Starter Pack 3L PLE 60	ZLSP950E60-3L	2CCF212215A0001	148 8543	1	60PLE-3L	3408
Starter Pack 3L PLE 62	ZLSP950E62-3L	2CCF212216A0001	148 8567	1	62PLE-3L	3515
Starter Pack 3L PLE 64	ZLSP950E64-3L	2CCF212217A0001	148 8581	1	64PLE-3L	3622
Starter Pack 3L PLE 66	ZLSP950E66-3L	2CCF212218A0001	148 8604	1	66PLE-3L	3741
Starter Pack 3L PLE 68	ZLSP950E68-3L	2CCF212219A0001	148 8628	1	68PLE-3L	3848
Starter Pack 3L PLE 70	ZLSP950E70-3L	2CCF212220A0001	148 8642	1	70PLE-3L	3955
Starter Pack 3L PLE 72	ZLSP950E72-3L	2CCF212221A0001	148 8666	1	72PLE-3L	4062
Starter Pack 3L PLE 74	ZLSP950E74-3L	2CCF212222A0001	148 8680	1	74PLE-3L	4180
Starter Pack 3L PLE 76	ZLSP950E76-3L	2CCF212223A0001	148 8703	1	76PLE-3L	4288
Starter Pack 3L PLE 78	ZLSP950E78-3L	2CCF212224A0001	148 8727	1	78PLE-3L	4395
Starter Pack 3L PLE 80	ZLSP950E80-3L	2CCF212225A0001	148 8741	1	80PLE-3L	4502
Starter Pack 3L PLE 82	ZLSP950E82-3L	2CCF212226A0001	148 8765	1	82PLE-3L	4620
Starter Pack 3L PLE 84	ZLSP950E84-3L	2CCF212227A0001	148 8789	1	84PLE-3L	4728
Starter Pack 3L PLE 86	ZLSP950E86-3L	2CCF212228A0001	148 8802	1	86PLE-3L	4835
Starter Pack 3L PLE 88	ZLSP950E88-3L	2CCF212229A0001	148 8826	1	88PLE-3L	4942
Starter Pack 3L PLE 90	ZLSP950E90-3L	2CCF212230A0001	148 8840	1	90PLE-3L	5060
Starter Pack 3L PLE 92	ZLSP950E92-3L	2CCF212231A0001	148 8864	1	92PLE-3L	5167
Starter Pack 3L PLE 94	ZLSP950E94-3L	2CCF212232A0001	148 8888	1	94PLE-3L	5275
Starter Pack 3L PLE 96	ZLSP950E96-3L	2CCF212233A0001	148 8901	1	96PLE-3L	5382
Starter Pack 3L PLE 98	ZLSP950E98-3L	2CCF212234A0001	148 8925	1	98PLE-3L	5500
Starter Pack 3L PLE 100	ZLSP950E100-3L	2CCF212235A0001	148 8949	1	100PLE-3L	5607
Starter Pack 3L PLE 102	ZLSP950E102-3L	2CCF212236A0001	148 8963	1	102PLE-3L	5715
Starter Pack 3L PLE 104	ZLSP950E104-3L	2CCF212237A0001	148 8987	1	104PLE-3L	5822
Starter Pack 3L PLE 106	ZLSP950E106-3L	2CCF212238A0001	148 9007	1	106PLE-3L	5940
Starter Pack 3L PLE 108	ZLSP950E108-3L	2CCF212239A0001	148 9021	1	108PLE-3L	6047
Starter Pack 3L PLE 110	ZLSP950E110-3L	2CCF212240A0001	148 9045	1	110PLE-3L	6121

SMISLINE TP plug-in system

Starter 3LN

Power Bar System 250 A



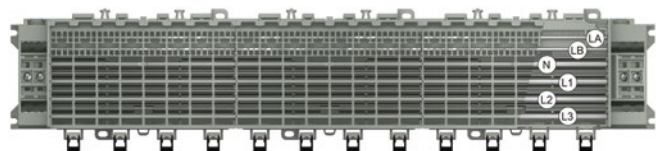
Starter Pack 3L: L1, L2, L3, N included socket end piece

Solutions available	Type name	ABB IT number	EAN number 761 227	Pack unit	Moduls (1 PLE 18mm)	Weight in grams
Starter Pack 3LN PLE 30	ZLSP950E30-3LN	2CCF212300A0001	148 9069	1	30PLE-3LN	2122
Starter Pack 3LN PLE 32	ZLSP950E32-3LN	2CCF212301A0001	148 9083	1	32PLE-3LN	2253
Starter Pack 3LN PLE 34	ZLSP950E34-3LN	2CCF212302A0001	148 9106	1	34PLE-3LN	2396
Starter Pack 3LN PLE 36	ZLSP950E36-3LN	2CCF212303A0001	148 9120	1	36PLE-3LN	2527
Starter Pack 3LN PLE 38	ZLSP950E38-3LN	2CCF212304A0001	148 9144	1	38PLE-3LN	2659
Starter Pack 3LN PLE 40	ZLSP950E40-3LN	2CCF212305A0001	148 9168	1	40PLE-3LN	2791
Starter Pack 3LN PLE 42	ZLSP950E42-3LN	2CCF212306A0001	148 9182	1	42PLE-3LN	2933
Starter Pack 3LN PLE 44	ZLSP950E44-3LN	2CCF212307A0001	148 9205	1	44PLE-3LN	3065
Starter Pack 3LN PLE 46	ZLSP950E46-3LN	2CCF212308A0001	148 9229	1	46PLE-3LN	3197
Starter Pack 3LN PLE 48	ZLSP950E48-3LN	2CCF212309A0001	148 9243	1	48PLE-3LN	3328
Starter Pack 3LN PLE 50	ZLSP950E50-3LN	2CCF212310A0001	148 9267	1	50PLE-3LN	3471
Starter Pack 3LN PLE 52	ZLSP950E52-3LN	2CCF212311A0001	148 9281	1	52PLE-3LN	3603
Starter Pack 3LN PLE 54	ZLSP950E54-3LN	2CCF212312A0001	148 9304	1	54PLE-3LN	3734
Starter Pack 3LN PLE 56	ZLSP950E56-3LN	2CCF212313A0001	148 9328	1	56PLE-3LN	3866
Starter Pack 3LN PLE 58	ZLSP950E58-3LN	2CCF212314A0001	148 9342	1	58PLE-3LN	4008
Starter Pack 3LN PLE 60	ZLSP950E60-3LN	2CCF212315A0001	148 9366	1	60PLE-3LN	4140
Starter Pack 3LN PLE 62	ZLSP950E62-3LN	2CCF212316A0001	148 9380	1	62PLE-3LN	4272
Starter Pack 3LN PLE 64	ZLSP950E64-3LN	2CCF212317A0001	148 9403	1	64PLE-3LN	4403
Starter Pack 3LN PLE 66	ZLSP950E66-3LN	2CCF212318A0001	148 9427	1	66PLE-3LN	4546
Starter Pack 3LN PLE 68	ZLSP950E68-3LN	2CCF212319A0001	148 9441	1	68PLE-3LN	4678
Starter Pack 3LN PLE 70	ZLSP950E70-3LN	2CCF212320A0001	148 9465	1	70PLE-3LN	4809
Starter Pack 3LN PLE 72	ZLSP950E72-3LN	2CCF212321A0001	148 9489	1	72PLE-3LN	4941
Starter Pack 3LN PLE 74	ZLSP950E74-3LN	2CCF212322A0001	148 9502	1	74PLE-3LN	5084
Starter Pack 3LN PLE 76	ZLSP950E76-3LN	2CCF212323A0001	148 9526	1	76PLE-3LN	5215
Starter Pack 3LN PLE 78	ZLSP950E78-3LN	2CCF212324A0001	148 9540	1	78PLE-3LN	5347
Starter Pack 3LN PLE 80	ZLSP950E80-3LN	2CCF212325A0001	148 9564	1	80PLE-3LN	5478
Starter Pack 3LN PLE 82	ZLSP950E82-3LN	2CCF212326A0001	148 9588	1	82PLE-3LN	5621
Starter Pack 3LN PLE 84	ZLSP950E84-3LN	2CCF212327A0001	148 9601	1	84PLE-3LN	5753
Starter Pack 3LN PLE 86	ZLSP950E86-3LN	2CCF212328A0001	148 9625	1	86PLE-3LN	5884
Starter Pack 3LN PLE 88	ZLSP950E88-3LN	2CCF212329A0001	148 9649	1	88PLE-3LN	6016
Starter Pack 3LN PLE 90	ZLSP950E90-3LN	2CCF212330A0001	148 9663	1	90PLE-3LN	6159
Starter Pack 3LN PLE 92	ZLSP950E92-3LN	2CCF212331A0001	148 9687	1	92PLE-3LN	6290
Starter Pack 3LN PLE 94	ZLSP950E94-3LN	2CCF212332A0001	148 9700	1	94PLE-3LN	6422
Starter Pack 3LN PLE 96	ZLSP950E96-3LN	2CCF212333A0001	148 9724	1	96PLE-3LN	6554
Starter Pack 3LN PLE 98	ZLSP950E98-3LN	2CCF212334A0001	148 9748	1	98PLE-3LN	6696
Starter Pack 3LN PLE 100	ZLSP950E100-3LN	2CCF212335A0001	148 9762	1	100PLE-3LN	6828
Starter Pack 3LN PLE 102	ZLSP950E102-3LN	2CCF212336A0001	148 9786	1	102PLE-3LN	6959
Starter Pack 3LN PLE 104	ZLSP950E104-3LN	2CCF212337A0001	148 9809	1	104PLE-3LN	7091
Starter Pack 3LN PLE 106	ZLSP950E106-3LN	2CCF212338A0001	148 9823	1	106PLE-3LN	7234
Starter Pack 3LN PLE 108	ZLSP950E108-3LN	2CCF212339A0001	148 9847	1	108PLE-3LN	7365
Starter Pack 3LN PLE 110	ZLSP950E110-3LN	2CCF212340A0001	148 9861	1	110PLE-3LN	7463

SMISLINE TP plug-in system

Starter 3LN LA LB

Power Bar System 250 A



Starter Pack 3L: L1, L2, L3,N, LA, LB included socket end piece

Solutions available	Type name	ABB IT number	EAN number 761 227	Pack unit	Moduls (1 PLE 18mm)	Weight in grams
Starter Pack 3LN LA LB PLE 30	ZLSP950E30-3LNLALB	2CCF212400A0001	148 9885	1	30PLE-3LNLALB	2480
Starter Pack 3LN LA LB PLE 32	ZLSP950E32-3LNLALB	2CCF212401A0001	148 9908	1	32PLE-3LNLALB	2611
Starter Pack 3LN LA LB PLE 34	ZLSP950E34-3LNLALB	2CCF212402A0001	148 9922	1	34PLE-3LNLALB	2754
Starter Pack 3LN LA LB PLE 36	ZLSP950E36-3LNLALB	2CCF212403A0001	148 9946	1	36PLE-3LNLALB	2885
Starter Pack 3LN LA LB PLE 38	ZLSP950E38-3LNLALB	2CCF212404A0001	148 9960	1	38PLE-3LNLALB	3017
Starter Pack 3LN LA LB PLE 40	ZLSP950E40-3LNLALB	2CCF212405A0001	148 9984	1	40PLE-3LNLALB	3149
Starter Pack 3LN LA LB PLE 42	ZLSP950E42-3LNLALB	2CCF212406A0001	149 0003	1	42PLE-3LNLALB	3291
Starter Pack 3LN LA LB PLE 44	ZLSP950E44-3LNLALB	2CCF212407A0001	149 0027	1	44PLE-3LNLALB	3423
Starter Pack 3LN LA LB PLE 46	ZLSP950E46-3LNLALB	2CCF212408A0001	149 0041	1	46PLE-3LNLALB	3555
Starter Pack 3LN LA LB PLE 48	ZLSP950E48-3LNLALB	2CCF212409A0001	149 0065	1	48PLE-3LNLALB	3686
Starter Pack 3LN LA LB PLE 50	ZLSP950E50-3LNLALB	2CCF212410A0001	149 0089	1	50PLE-3LNLALB	3829
Starter Pack 3LN LA LB PLE 52	ZLSP950E52-3LNLALB	2CCF212411A0001	149 0102	1	52PLE-3LNLALB	3961
Starter Pack 3LN LA LB PLE 54	ZLSP950E54-3LNLALB	2CCF212412A0001	149 0126	1	54PLE-3LNLALB	4092
Starter Pack 3LN LA LB PLE 56	ZLSP950E56-3LNLALB	2CCF212413A0001	149 0140	1	56PLE-3LNLALB	4224
Starter Pack 3LN LA LB PLE 58	ZLSP950E58-3LNLALB	2CCF212414A0001	149 0164	1	58PLE-3LNLALB	4366
Starter Pack 3LN LA LB PLE 60	ZLSP950E60-3LNLALB	2CCF212415A0001	149 0188	1	60PLE-3LNLALB	4498
Starter Pack 3LN LA LB PLE 62	ZLSP950E62-3LNLALB	2CCF212416A0001	149 0201	1	62PLE-3LNLALB	4630
Starter Pack 3LN LA LB PLE 64	ZLSP950E64-3LNLALB	2CCF212417A0001	149 0225	1	64PLE-3LNLALB	4761
Starter Pack 3LN LA LB PLE 66	ZLSP950E66-3LNLALB	2CCF212418A0001	149 0249	1	66PLE-3LNLALB	4904
Starter Pack 3LN LA LB PLE 68	ZLSP950E68-3LNLALB	2CCF212419A0001	149 0263	1	68PLE-3LNLALB	5036
Starter Pack 3LN LA LB PLE 70	ZLSP950E70-3LNLALB	2CCF212420A0001	149 0287	1	70PLE-3LNLALB	5167
Starter Pack 3LN LA LB PLE 72	ZLSP950E72-3LNLALB	2CCF212421A0001	149 0300	1	72PLE-3LNLALB	5299
Starter Pack 3LN LA LB PLE 74	ZLSP950E74-3LNLALB	2CCF212422A0001	149 0324	1	74PLE-3LNLALB	5442
Starter Pack 3LN LA LB PLE 76	ZLSP950E76-3LNLALB	2CCF212423A0001	149 0348	1	76PLE-3LNLALB	5573
Starter Pack 3LN LA LB PLE 78	ZLSP950E78-3LNLALB	2CCF212424A0001	149 0362	1	78PLE-3LNLALB	5705
Starter Pack 3LN LA LB PLE 80	ZLSP950E80-3LNLALB	2CCF212425A0001	149 0386	1	80PLE-3LNLALB	5836
Starter Pack 3LN LA LB PLE 82	ZLSP950E82-3LNLALB	2CCF212426A0001	149 0409	1	82PLE-3LNLALB	5979
Starter Pack 3LN LA LB PLE 84	ZLSP950E84-3LNLALB	2CCF212427A0001	149 0423	1	84PLE-3LNLALB	6111
Starter Pack 3LN LA LB PLE 86	ZLSP950E86-3LNLALB	2CCF212428A0001	149 0447	1	86PLE-3LNLALB	6242
Starter Pack 3LN LA LB PLE 88	ZLSP950E88-3LNLALB	2CCF212429A0001	149 0461	1	88PLE-3LNLALB	6374
Starter Pack 3LN LA LB PLE 90	ZLSP950E90-3LNLALB	2CCF212430A0001	149 0485	1	90PLE-3LNLALB	6517
Starter Pack 3LN LA LB PLE 92	ZLSP950E92-3LNLALB	2CCF212431A0001	149 0508	1	92PLE-3LNLALB	6648
Starter Pack 3LN LA LB PLE 94	ZLSP950E94-3LNLALB	2CCF212432A0001	149 0522	1	94PLE-3LNLALB	6780
Starter Pack 3LN LA LB PLE 96	ZLSP950E96-3LNLALB	2CCF212433A0001	149 0546	1	96PLE-3LNLALB	6912
Starter Pack 3LN LA LB PLE 98	ZLSP950E98-3LNLALB	2CCF212434A0001	149 0560	1	98PLE-3LNLALB	7054
Starter Pack 3LN LA LB PLE 100	ZLSP950E100-3LNLALB	2CCF212435A0001	149 0584	1	100PLE-3LNLALB	7186
Starter Pack 3LN LA LB PLE 102	ZLSP950E102-3LNLALB	2CCF212436A0001	149 0607	1	102PLE-3LNLALB	7317
Starter Pack 3LN LA LB PLE 104	ZLSP950E104-3LNLALB	2CCF212437A0001	149 0621	1	104PLE-3LNLALB	7449
Starter Pack 3LN LA LB PLE 106	ZLSP950E106-3LNLALB	2CCF212438A0001	149 0645	1	106PLE-3LNLALB	7592
Starter Pack 3LN LA LB PLE 108	ZLSP950E108-3LNLALB	2CCF212439A0001	149 0669	1	108PLE-3LNLALB	7723
Starter Pack 3LN LA LB PLE 110	ZLSP950E110-3LNLALB	2CCF212440A0001	149 0683	1	110PLE-3LNLALB	7821

SMISLINE TP plug-in system

Sockets and Incoming components

Power Bar System 250 A



Socket base

Description	Type name	ABB IT number	EAN number 761 227	Pack unit	Moduls (1 PLE 18mm)	Weight in grams
6-module socket Length 108 mm (includes base and cover)	ZLSP906	2CCF212053A0001	148 7324	10	6	113
8-module socket Length 144 mm (includes base and cover)	ZLSP908	2CCF212052A0001	148 7300	10	8	147

Busbars for the sockets

Description	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
250A busbar plated, 25x3 mm, for L1, L2, L3, N and PE – Delivery length 1979 mm	ZLSP1250	2CCF212100M0110	148 8222	1	110	1343
40A auxiliary busbar plated, 5x2 mm, for LA und LB – Delivery length 1979 mm	ZLS202	2CCF002773R0001	001 5719	10	110	240



ZLSP920



ZLSP921

Socket end piece

Description	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
End piece main socket ZLSP906 or ZLSP908	ZLSP920	2CCF212082A0001	148 7386	1	2	103
End piece additional socket ZLSP926 or ZLSP928	ZLSP921	2CCF212085A0001	148 7409	1	2	54

Incoming terminal component

50 mm² up to 120 mm² flex wire with ferrule, max. 1 wire

10 mm²–25 mm² 2 wires with ferrule

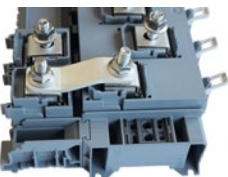
Version	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
Feeder component N	ZLSP250	2CCV672600R0001	149 0782	1	2	112
Feeder component L1	ZLSP251	2CCV672601R0001	149 0805	1	2	112
Feeder component L2	ZLSP252	2CCV672602R0001	149 0829	1	2	112
Feeder component L3	ZLSP253	2CCV672603R0001	149 0843	1	2	112
Feeder component N additional socket	ZLSP954	2CCV672608R0001	149 0867	1	2	100
Feeder component PE additional socket	ZLSP959	2CCV672609R0001	149 0881	1	2	100
Feeder component N additional socket (2 holes)	ZLSP954-1	2CCR183393A7001	145 2797	1		100



SMISSLINE TP plug-in system

Incoming bolt-on solution

Power Bar System 250 A



Incoming bolt-on solution M8 50 mm² up to 150 mm or 4/0AWG for UL
This solution is only possible to mount on a ZLSP908 (not on ZLSP906, ZLS906, ZLS908).

Description	Bbn 761227			Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Incoming terminal block 3L 8PLE left 250A	1506124	ZLSP934-3L-1	2CCG000036R0001		0.438	1
Incoming terminal block 3L+N 8PLE left 250A	1506148	ZLSP934-3LN	2CCG000038R0001		0.528	1
Incoming terminal block 3L 8PLE right 250A	1506155	ZLSP934-3L-R-1	2CCG000039R0001		0.438	1
Incoming terminal block 3L+N 8PLE right 250A	1506179	ZLSP934-3LN-R	2CCG000041R0001		0.528	1
Incoming terminal block additional socket N PE left 250A 8PLE	1506186	ZLSP935-8NPE	2CCG000042R0001		0.268	1
Incoming terminal block additional socket PE left 250A 8PLE	1506193	ZLSP935-8PE	2CCG000043R0001		0.178	1
Incoming terminal block additional socket N PE right 250A 8PLE	1506223	ZLSP935-8NPE-R	2CCG000046R0001		0.268	1
Incoming terminal block additional socket PE right 250A 8PLE	1506230	ZLSP935-8PE-R	2CCG000047R0001		0.178	1
Covers for ZLSP934						
Cover for Incoming terminal block 250A	1506278	ZLSP963	2CCG000051R0001		0.018	1
Cover an connection N-N 250A	1506261	ZLSP963N-N	2CCG000050R0001		0.074	1
Cover for connection with the cables on one terminal	1507541	ZLSP964	2CCG000207R0001		0.034	4

SMISLINE TP plug-in system

Additional socket

Power Bar System 250 A

Additional socket

The additional socket can easily be fitted onto the socket base to accommodate the external N and/or PE busbars. This enables neutral connections to be made where single-pole miniature circuit breakers are used with unswitched neutral. Neutral terminals are clipped onto the additional socket and can be used as detachable neutral connections. One N busbar and/or one PE busbar can be fitted. Each socket base can be equipped with an additional socket.

Additional socket for external N and PE busbars

	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
– 8-module socket (suitable for 8-module socket)	ZLSP928	2CCF212060A0001	148 7348	10	8	67
– 6-module socket (suitable for 6-module socket)	ZLSP926	2CCF212061A0001	148 7362	10	6	53



Busbar insulator

	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
dark grey, 20 for isolation and spacing of separate busbar sections, 18 mm	ZLS938	2CCA205611R0001	141 8205	1	1	1



Busbar cover

	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
electrically protected covering of main and auxiliary busbars. The 4 modules cover can be divided. Suitable to accept extension adapter ZLS 101 4x18 mm – bag containing 5 items	ZLS100	2CCF002762R0001	001 5603	1	1	95



Din rail clip

	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
Din rail clip ZLSP926 and ZLSP928. This item is need if the additional socket will be mounted on a DIN rail. 1 pcs. every 30 cm.	ZLSP937	2CCA212012R0001	498 306	Bag of 5		18



SMISLINE TP plug-in system

Busbars Power Bar System 250A and 40A

250A and 40A busbars / selection table for sockets

Order data busbar 250A	ABB IT number	EAN number 761227	ZLSP908	ZLSP906	Pack unit	Moduls (1 PLE 18mm)	Weight in grams	Busbar length in mm	Order data busbar 40A	ABB IT number	EAN number 761 227
ZLSP1250E30	2CCF212100M0030	148 7423	3	1	1	30	366	535	ZLS203E30	2CCF800229R0001	001 7669
ZLSP1250E32	2CCF212100M0032	148 7447	4	–	1	32	391	571	ZLS203E32	2CCF800230R0001	001 7683
ZLSP1250E34	2CCF212100M0034	148 7461	2	3	1	34	415	607	ZLS203E34	2CCF800231R0001	001 7706
ZLSP1250E36	2CCF212100M0036	148 7485	3	2	1	36	439	643	ZLS203E36	2CCF800232R0001	001 7720
ZLSP1250E38	2CCF212100M0038	148 7508	4	1	1	38	464	679	ZLS203E38	2CCF800233R0001	001 7744
ZLSP1250E40	2CCF212100M0040	148 7522	5	–	1	40	488	715	ZLS203E40	2CCF800234R0001	001 7768
ZLSP1250E42	2CCF212100M0042	148 7546	3	3	1	42	513	751	ZLS203E42	2CCF800235R0001	001 7782
ZLSP1250E44	2CCF212100M0044	148 7560	4	2	1	44	537	787	ZLS203E44	2CCF800236R0001	001 7805
ZLSP1250E46	2CCF212100M0046	148 7584	5	1	1	46	561	823	ZLS203E46	2CCF800237R0001	001 7829
ZLSP1250E48	2CCF212100M0048	148 7607	6	–	1	48	586	859	ZLS203E48	2CCF800238R0001	001 7843
ZLSP1250E50	2CCF212100M0050	148 7621	4	3	1	50	610	895	ZLS203E50	2CCF800239R0001	001 7867
ZLSP1250E52	2CCF212100M0052	148 7645	5	2	1	52	635	932	ZLS203E52	2CCF800240R0001	001 7881
ZLSP1250E54	2CCF212100M0054	148 7669	6	1	1	54	659	968	ZLS203E54	2CCF800241R0001	001 7904
ZLSP1250E56	2CCF212100M0056	148 7683	7	–	1	56	683	1004	ZLS203E56	2CCF800242R0001	001 7928
ZLSP1250E58	2CCF212100M0058	148 7706	5	3	1	58	708	1040	ZLS203E58	2CCF800243R0001	001 7942
ZLSP1250E60	2CCF212100M0060	148 7720	6	2	1	60	732	1076	ZLS203E60	2CCF800244R0001	001 7973
ZLSP1250E62	2CCF212100M0062	148 7744	7	1	1	62	757	1112	ZLS203E62	2CCF800245R0001	001 7997
ZLSP1250E64	2CCF212100M0064	148 7768	8	–	1	64	781	1148	ZLS203E64	2CCF800246R0001	001 8017
ZLSP1250E66	2CCF212100M0066	148 7782	6	3	1	66	806	1184	ZLS203E66	2CCF800247R0001	001 8031
ZLSP1250E68	2CCF212100M0068	148 7805	7	2	1	68	830	1220	ZLS203E68	2CCF800248R0001	001 8055
ZLSP1250E70	2CCF212100M0070	148 7829	8	1	1	70	854	1256	ZLS203E70	2CCF800249R0001	001 8079
ZLSP1250E72	2CCF212100M0072	148 7843	9	–	1	72	879	1292	ZLS203E72	2CCF800250R0001	001 8093
ZLSP1250E74	2CCF212100M0074	148 7867	7	3	1	74	903	1328	ZLS203E74	2CCF800251R0001	001 8116
ZLSP1250E76	2CCF212100M0076	148 7881	8	2	1	76	928	1364	ZLS203E76	2CCF800252R0001	001 8130
ZLSP1250E78	2CCF212100M0078	148 7904	9	1	1	78	952	1400	ZLS203E78	2CCF800253R0001	001 8154
ZLSP1250E80	2CCF212100M0080	148 7928	10	–	1	80	976	1436	ZLS203E80	2CCF800254R0001	001 8185
ZLSP1250E82	2CCF212100M0082	148 7942	8	3	1	82	1001	1472	ZLS203E82	2CCF800255R0001	001 8208
ZLSP1250E84	2CCF212100M0084	148 7966	9	2	1	84	1025	1508	ZLS203E84	2CCF800256R0001	001 8222
ZLSP1250E86	2CCF212100M0086	148 7980	10	1	1	86	1050	1544	ZLS203E86	2CCF800257R0001	001 8246
ZLSP1250E88	2CCF212100M0088	148 8000	11	–	1	88	1074	1580	ZLS203E88	2CCF800258R0001	001 8260
ZLSP1250E90	2CCF212100M0090	148 8024	9	3	1	90	1098	1616	ZLS203E90	2CCF800259R0001	001 8284
ZLSP1250E92	2CCF212100M0092	148 8048	10	2	1	92	1123	1652	ZLS203E92	2CCF800260R0001	001 8307
ZLSP1250E94	2CCF212100M0094	148 8062	11	1	1	94	1147	1688	ZLS203E94	2CCF800261R0001	001 8321
ZLSP1250E96	2CCF212100M0096	148 8086	12	–	1	96	1172	1724	ZLS203E96	2CCF800262R0001	001 8345
ZLSP1250E98	2CCF212100M0098	148 8109	10	3	1	98	1196	1760	ZLS203E98	2CCF800263R0001	001 8369
ZLSP1250E100	2CCF212100M0100	148 8123	11	2	1	100	1220	1796	ZLS203E100	2CCF800264R0001	001 7195
ZLSP1250E102	2CCF212100M0102	148 8147	12	1	1	102	1245	1832	ZLS203E102	2CCF800265R0001	001 7218
ZLSP1250E104	2CCF212100M0104	148 8161	13	–	1	104	1269	1868	ZLS203E104	2CCF800266R0001	001 7232
ZLSP1250E106	2CCF212100M0106	148 8185	11	3	1	106	1294	1904	ZLS203E106	2CCF800267R0001	001 7256
ZLSP1250E108	2CCF212100M0108	148 8208	12	2	1	108	1318	1940	ZLS203E108	2CCF800268R0001	001 7270

Planning for the incorporation of feeder block and spare places should be taken into account.
The total lengths given above were calculated taking socket spacings and tolerances into account.
For this reason, the indicated busbar length is not necessarily a multiple of 18mm (1 Module).

SMISLINE TP plug-in system

One system with many options

SMISLINE TP protective devices with plug-in technology – the individual way in switchgear technology

Five modern protective devices in the same design are simply plugged onto a busbar system. The complex feed-in and connection work is already done. In addition to this time and cost savings, it is crucial to be able to quickly and easily replace equipment. Third-party devices can be integrated into the busbar system by using adapters. The system was developed for commercial and industrial switchgear technology. Installation and wiring times can be greatly reduced by using the directly attachable system.

Together with the ABB STRIEBEL & JOHN switchgear system, optimum space utilization, easy changes and expansion of the switch cabinet and its installations can be achieved thanks to horizontal or vertical installation options. The individual components are coordinated with each other, such as the length of the plug-in socket and the modular components of the switch cabinets. Of course, mixed installation options of conventional modular devices can also easily be realized, such as pro M Compact. The configured ABB STRIEBEL & JOHN expansion products make this possible.

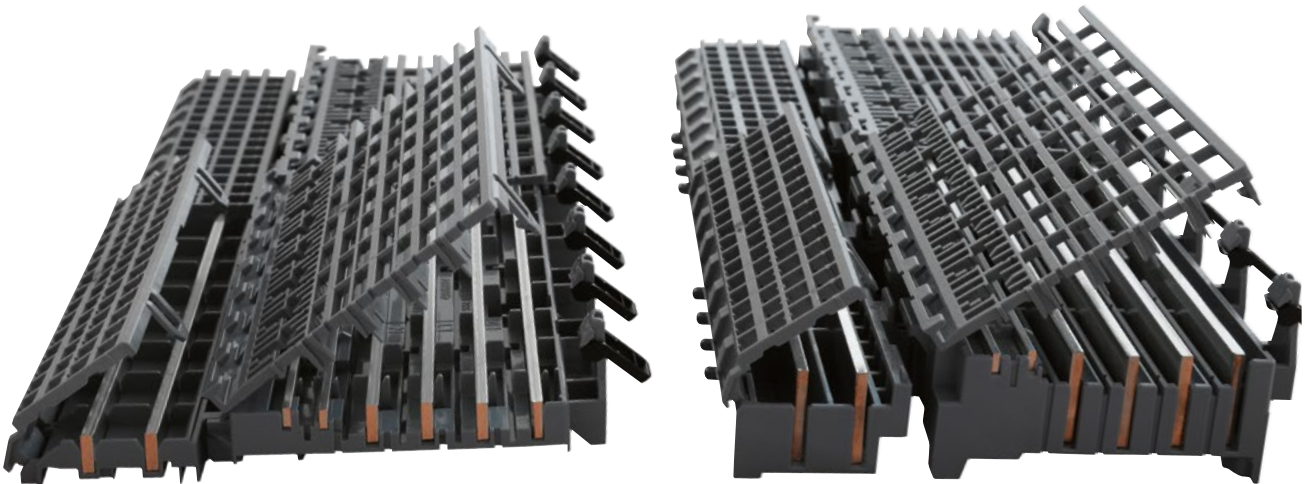
A powerful 250 A system is now available with the SMISLINE TP Power Bar system. The busbars have a rated amperage of 250 A and therefore allow a end feed of 250 A, which significantly expands the system's range of application.

SMISLINE TP and ABB STRIEBEL & JOHN – the cabinet system at a glance:

- Flexible and modular
- Freedom in concept and arrangement
- Time saved during planning and execution
- Quick adaptation when expanding
- Allows for the load-free connection and disconnection of devices and components under voltage without the need for additional personal protective equipment to guard against electrical hazards
- Coordinated product components
- SMISLINE TP modules can be combined with other ABB STRIEBEL & JOHN distribution panels and modules

Small cause, large effect

As the world's first pluggable socket system, SMISLINE TP allows devices and components to be snapped on and off, load-free and under voltage, without having to take additional personal protective measures. It opens up to a completely new prospects when it comes to installation, operation and flexibility.



SMISLINE TP plug-in system

One system with many options



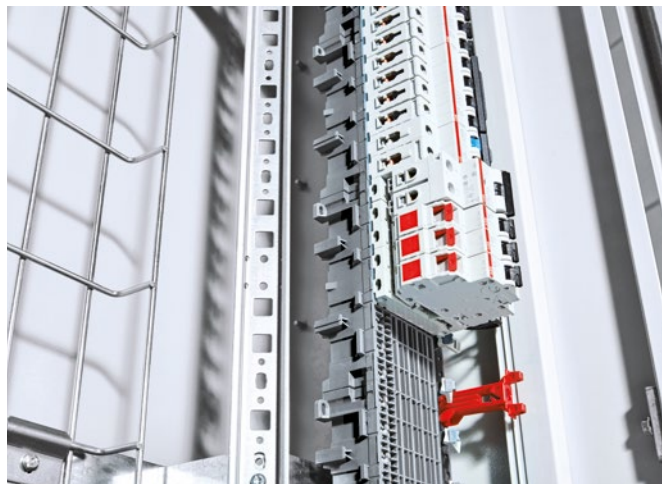
—
01
The outlet wiring is done directly on the installed devices. The N and PE terminals are assigned to the devices accordingly. The outlet cables are affixed in a mesh cable tray neatly and clearly arranged.

—
02
A cabinet equipped with modules for accommodating SMISLINE TP devices with third-party device adapters and pro M modular devices.

—
01



—
02



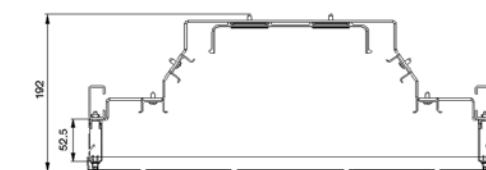
SMISLINE TP plug-in system

CombiLine modules view

Horizontal modules are suitable for mounting on WR or EDF profiles. From cabinet depth of 215 mm. The WR or EDF mounting frame must be ordered separately.



Sectional drawing from above,
example MC203HS

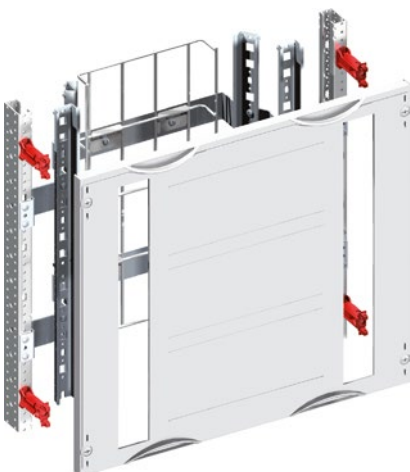
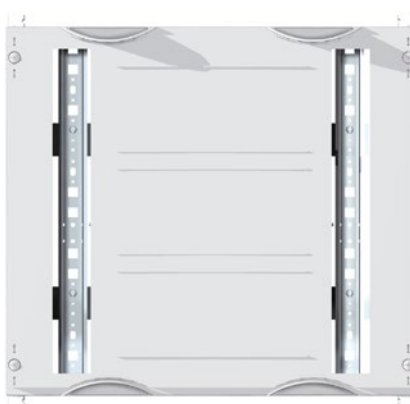


Sectional drawing from above,
example MC203VS

Front view



Front view



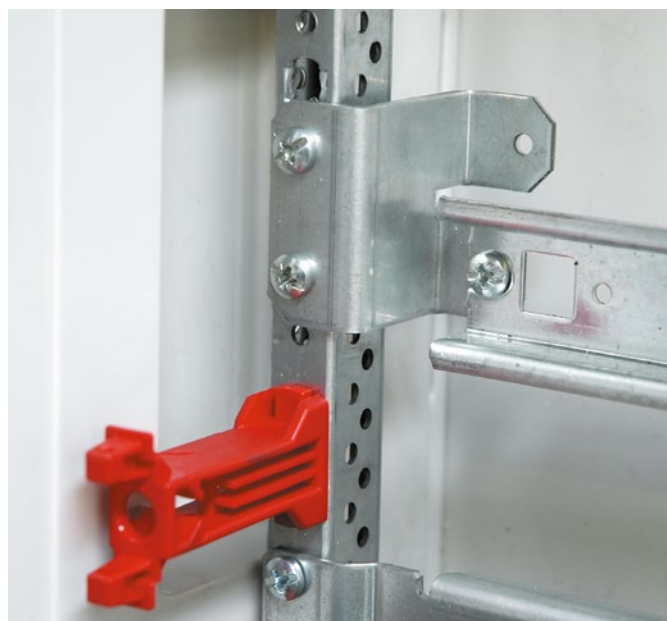
SMISLINE TP 125 A interior expansion with CombiLine

Options for assembly in an enclosure

For a horizontal device arrangement, the DIN rail can be set in conjunction with mounting adapters. The Busbar systems cannot be through-connected from one panel to the next. The DIN rail is mounted to a 2-stage bracket (in front upon delivery). The front position is for the plug-in socket assembly. The SMISLINE TP devices will directly be mounted. The back position is for mounting the socket bases for devices with universal adapters.

For a vertical device arrangement, the existing cover holders are replaced with cover holders ED137P4 with spacers ED135P4 in conjunction with mounting adapters. In addition, a cover raising frame is required, so that there is more space under the cover. All devices using mounting adapters are to be arranged under a separate cover. Cable lying grids are installed for modules with a vertical device arrangement in order to attach the lines. The DIN rails are designed to be equipped with the SMISLINE TP socket base rows. It is also possible to connect the SMISLINE TP additional socket (N/PE terminals).

Horizontal device arrangement



Vertical device arrangement



Important: It is recommended to provide at least a 150 mm high terminal or wiring space on the cable entry side.

SMISLINE TP 125 A interior expansion with CombiLine

For horizontal and vertical device arrangement



MC203HS



MC303HS

- SMISLINE TP modules for horizontal device arrangement
- Extension with DIN rails 35 x 15 mm
- Distance between DIN rails 150 mm
- From 3 panels on the DIN rails are equipped, with additional stabilization rail
- Important: The SMISLINE TP busbar system cannot be through-connected from one module to the next
- The mounting frame must be ordered separately

Height		Width		Socket base length		From cabinet depth		FLATPACK not installed		MOUNTED and installed in the cabinet	
OH	mm	PW	mm	PLE	EDF ¹	WR ²	mm	Type	Order code	Type	Order code
2	300	2	500	2 x 22	●	●	215	MBC202HS	2CPX042155R9999	MC202HS	2CPX042132R9999
	300	3	750	2 x 36	●	●	215	MBC302HS	2CPX042156R9999	MC302HS	2CPX042133R9999
3	450	2	500	3 x 22	●	●	215	MBC203HS	2CPX042157R9999	MC203HS	2CPX042134R9999
	450	3	750	3 x 36	●	●	215	MBC303HS	2CPX042158R9999	MC303HS	2CPX042135R9999
4	600	2	500	4 x 22	●	●	215	MBC204HS	2CPX042159R9999	MC204HS	2CPX042136R9999
	600	3	750	4 x 36	●	●	215	MBC304HS	2CPX042160R9999	MC304HS	2CPX042137R9999
5	750	2	500	5 x 22	●	●	215	MBC205HS	2CPX042161R9999	MC205HS	2CPX042138R9999
	750	3	750	5 x 36	●	●	215	MBC305HS	2CPX042162R9999	MC305HS	2CPX042139R9999



MC103VS



MC203VS



MC305VS

- SMISLINE TP modules for vertical device arrangement
- Extension with DIN rails 35 x 15 mm
- The DIN rails in the back are designed for standard N (N disconnect terminals) and PE terminals
- A cable laying grid is included for cable fixing
- The DIN rails and cable laying grids are flush with the module
- Important: Vertical modules cannot be mounted directly on central support rails and horizontal cross members
- The mounting frame must be ordered separately

3	450	1	250	1 x 22	●	275	MBC103VS	2CPX042163R9999	MC103VS	2CPX042140R9999
	450	2	500	2 x 22	●	275	MBC203VS	2CPX042164R9999	MC203VS	2CPX042141R9999
4	600	1	250	1 x 30	●	275	MBC104VS	2CPX042165R9999	MC104VS	2CPX042142R9999
	600	2	500	2 x 30	●	275	MBC204VS	2CPX042166R9999	MC204VS	2CPX042143R9999
	600	3	750	2 x 30	●	275	-	-	MC304VS	2CPX042913R9999
5	750	1	250	1 x 38	●	275	MBC105VS	2CPX042167R9999	MC105VS	2CPX042144R9999
	750	2	500	2 x 38	●	275	MBC205VS	2CPX042168R9999	MC205VS	2CPX042145R9999
	750	3	750	2 x 38	●	275	MBC305VS	2CPX042911R9999	MC305VS	2CPX042910R9999

¹ Expansion on EDF mounting frame ² Expansion on WR mounting frame

SMISLINE TP Power Bar 250 A interior expansion with CombiLine

For horizontal and vertical device arrangement



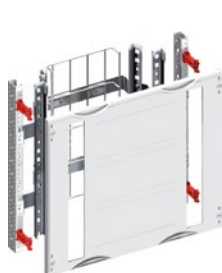
MC203HS



MC303HS

- SMISLINE TP modules for horizontal device arrangement
- Extension with DIN rails 35 x 15 mm
- Distance between DIN rails 150 mm
- From 3 panels on the DIN rails are equipped, with additional stabilization rail
- Important: The SMISLINE TP busbar system cannot be through-connected from one module to the next
- The mounting frame must be ordered separately

Height		Width		Socket base length		Down Cabinet depth		FLATPACK not installed		MOUNTED and installed in the cabinet	
OH	mm	PW	mm	PLE	EDF*1	WR*2	mm	Type	Item number	Type	Item number
2	300	2	500	2 x 22	●	●	215	MBC202HS	2CPX042155R9999	MC202HS	2CPX042132R9999
	300	3	750	2 x 36	●	●	215	MBC302HS	2CPX042156R9999	MC302HS	2CPX042133R9999
3	450	2	500	3 x 22	●	●	215	MBC203HS	2CPX042157R9999	MC203HS	2CPX042134R9999
	450	3	750	3 x 36	●	●	215	MBC303HS	2CPX042158R9999	MC303HS	2CPX042135R9999
4	600	2	500	4 x 22	●	●	215	MBC204HS	2CPX042159R9999	MC204HS	2CPX042136R9999
	600	3	750	4 x 36	●	●	215	MBC304HS	2CPX042160R9999	MC304HS	2CPX042137R9999
5	750	2	500	5 x 22	●	●	215	MBC205HS	2CPX042161R9999	MC205HS	2CPX042138R9999
	750	3	750	5 x 36	●	●	215	MBC305HS	2CPX042162R9999	MC305HS	2CPX042139R9999



MC203VS



MC305VS

- SMISLINE TP Power Bar 250 A modules for vertical device arrangement
- Extension with DIN rails 35 x 15 mm
- The DIN rails in the back are designed for standard N (N disconnect terminals) and PE terminals
- A cable laying grid is included for cable fixing
- The DIN rails and cable laying grids are flush with the module
- Important: Vertical modules cannot be mounted directly on central support rails and horizontal cross members.
- The mounting frame must be ordered separately

3	450	2	500	2 x 22	●		275	MBC203VP	2CPX043369R9999	MC203VP	2CPX043349R9999
4	600	2	500	2 x 30	●		275	MBC204VP	2CPX043371R9999	MC204VP	2CPX043351R9999
	600	3	750	2 x 30	●		275	MBC304VP	2CPX043376R9999	MC304VP	2CPX043374R9999
5	750	2	500	2 x 38	●		275	MBC205VP	2CPX043373R9999	MC205VP	2CPX043353R9999
	750	3	750	2 x 38	●		275	MBC305VP	2CPX043377R9999	MC305VP	2CPX043375R9999

*1 Expansion on EDFmounting frame *2 Expansion on WRmounting frame

SMISLINE TP plug-in system

Cable laying grids, DIN rails, fixing brackets



ZW430



ZW436



ZW470



ZW257



ZW359



ED73



ED52



ZX399



ZW590



ZW592

Article	Use for...	VE/pc.	Type	Order code
Cable laying grids width 100 mm				
Length				
450 mm	M(B)C103VS	1	ZW430	2CPX042170R9999
600 mm	M(B)C104VS	1	ZW431	2CPX042171R9999
750 mm	M(B)C105VS	1	ZW432	2CPX042172R9999
Cable laying grids width 200 mm				
Length				
450 mm	M(B)C203VS	1	ZW436	2CPX042176R9999
600 mm	M(B)C204VS	1	ZW437	2CPX042177R9999
750 mm	M(B)C205VS	1	ZW438	2CPX042178R9999
3000 mm	-	1	ZW460	2CPX073256R9999
Cable laying grids width 300 mm				
Length				
3000 mm	-	1	ZW470	2CPX073257R9999
Fixing bracket for cable laying grids				
SMISLINE TP system 125 A				
For cabinet depth from 275 mm				
1 panel wide	M(B)C1...VS	1	ZW257	2CPX042182R9999
2 panel wide	M(B)C2...VS	1	ZW258	2CPX042183R9999
3 panel wide	M(B)C3...VS	1	ZW359	2CPX042912R9999
Vertical DIN rails				
For module height				
450 mm	M(B)C...03VS	1	ED73	2CPX042184R9999
600 mm	M(B)C...04VS	1	ED74	2CPX042185R9999
750 mm	M(B)C...05VS	1	ED75	2CPX042186R9999
Horizontal DIN rails				
2 panel wide	M(B)C2...HS	1	ED52	2CPX039252R9999
3 panel wide	M(B)C3...HS	1	ED53	2CPX039253R9999
Fixing bracket				
For horizontal DIN rails, 1 set left / right				
	M(B)C...HS	1	ZX399	2CPX062669R9999
Mounting bracket for cable laying grids				
Power Bar 250 A				
For cabinet depth from 275 mm				
1 panel wide	M(B)C1...VP	1	ZW590	2CPX042922R9999
2 panel wide	M(B)C2...VP	1	ZW591	2CPX042923R9999
3 panel wide	M(B)C3...VP	1	ZW592	2CPX042924R9999

SMISLINE TP plug-in system

Cover holders, panel connectors, raising frames



ED137P4



ED138P12



ED135P4



ED50P12



ED30P2



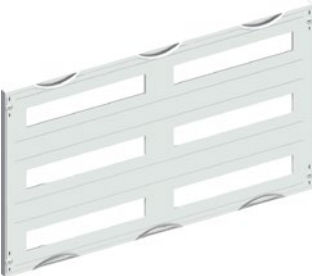
ED213

Article	VE/pc.	Type	Order code
Cover holder 45 mm high, required when changing the cover height when installing mounting adapters in the cover height when installing vertical modules	4	ED137P4	2CPX062600R9999
Cover holder 52.5 mm high	12	ED138P12	2CPX062602R9999
	40	ED138P40	2CPX062603R9999
Space To extend the cover holder by 25 mm	4	ED135P4	2CPX062610R9999
90 degree press and turn closure	12	ED50P12	2CPX062337R9999
Panel connector Used to join distribution panels or combination sets with each other up to a maximum Overall height 5 (9 RE)	2	ED30P2	2CPX062302R9999
Raising frame for covers Required to change the cover height when installing mounting device adapters in vertical modules			
External dimensions (H x W)			
450 x 250 mm	1	ED213	2CPX062783R9999
600 x 250 mm	1	ED214	2CPX062784R9999
750 x 250 mm	1	ED215	2CPX062785R9999
450 x 500 mm	1	ED223	2CPX062788R9999
600 x 500 mm	1	ED224	2CPX062789R9999
750 x 500 mm	1	ED225	2CPX062790R9999
450 x 750 mm	1	ED233	2CPX062793R9999
600 x 750 mm	1	ED234	2CPX062794R9999
750 x 750 mm	1	ED235	2CPX062795R9999

SMISSLINE TP plug-in system
Plastic cover horizontal



AS22H



AS32H

Article	Use for...	VE/pc.	Type	Order code
Plastic cover horizontal With device slot, 2 panel wide				
External dimensions (H x W)				
300 x 500 mm	M(B)C202HS	1	AS22H	2CPX062764R9999
450 x 500 mm	M(B)C203HS	1	AS23H	2CPX062765R9999
600 x 500 mm	M(B)C204HS	1	AS24H	2CPX062766R9999
750 x 500 mm	M(B)C205HS	1	AS25H	2CPX062767R9999
Plastic cover horizontal With device slot, 3 panel wide				
External dimensions (H x W)				
300 x 750 mm	M(B)C302HS	1	AS32H	2CPX062768R9999
450 x 750 mm	M(B)C303HS	1	AS33H	2CPX062769R9999
600 x 750 mm	M(B)C304HS	1	AS34H	2CPX062770R9999
750 x 750 mm	M(B)C305HS	1	AS35H	2CPX062771R9999

SMISLINE TP plug-in system

Plastic cover vertical



AS13V



AS23V

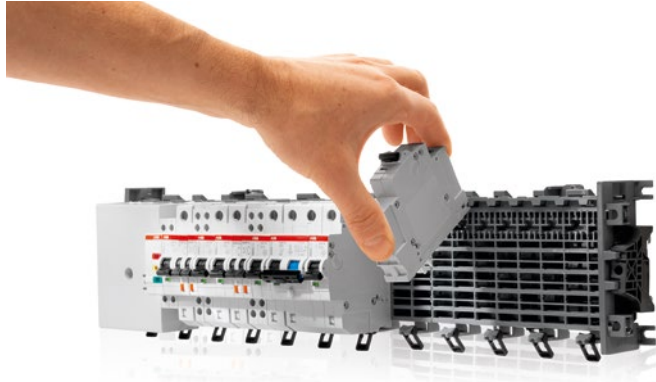


AS35V

Article	Use for...	VE/pc.	Type	Order code
Plastic cover vertical				
With device slot, 1 panel wide				
External dimensions (H x W)				
450 x 250 mm	M(B)C103VS	1	AS13V	2CPX062772R9999
600 x 250 mm	M(B)C104VS	1	AS14V	2CPX062773R9999
750 x 250 mm	M(B)C105VS	1	AS15V	2CPX062774R9999
Plastic cover vertical				
With device slot, 2 panel wide				
External dimensions (H x W)				
450 x 500 mm	M(B)C203VS	1	AS23V	2CPX062775R9999
600 x 500 mm	M(B)C204VS	1	AS24V	2CPX062776R9999
750 x 500 mm	M(B)C205VS	1	AS25V	2CPX062777R9999
Plastic cover vertical				
With device slot, 3 panel wide				
External dimensions (H x W)				
750 x 750 mm	M(B)C305VS	1	AS35V	2CPX062796R9999

SMISSLINE TP plug-in system

Socket calculation with e-Design and Panel Design Configurator



In our Panel Design Configurator: SMISSLINE TP Designer

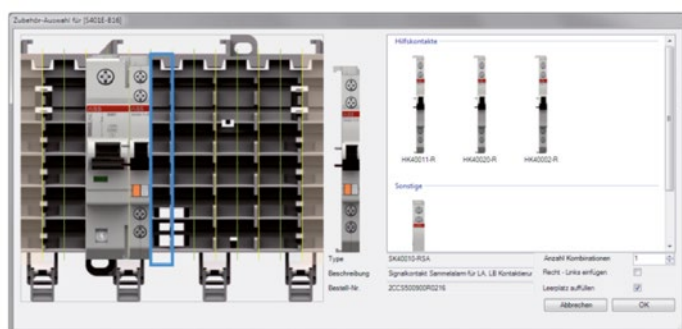
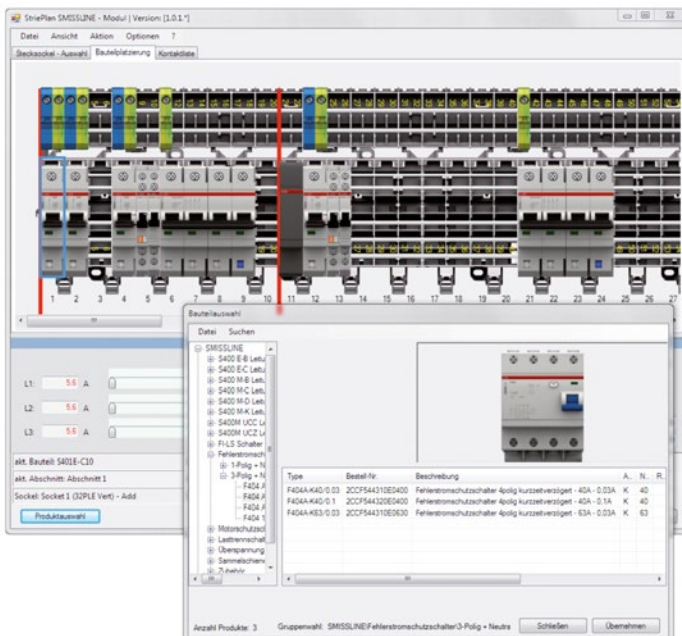
The SMISSLINE TP Designer is integrated in the StriePlan basic version. StriePlan thus offers a simple configuration and calculation of the SMISSLINE TP pluggable socket system. The SMISSLINE TP Designer makes it possible to select and configure ABB SMISSLINE TP products in a graphic environment:

Advantages at a glance:

- Complete integration in StriePlan
- Cabinet and module selection possible in StriePlan specifically for SMISSLINE TP plug-in socket
- Graphic equipping of the plug-in socket
- Complete selection of SMISSLINE TP products
- Configuration of accessories
- Automatic equipping
- Supported placement of the feed-in

Information about:

- Incoming and outgoing current
- Control and display of the units, the current and the power loss
- Technical specifications of the devices, including price calculation (in StriePlan)
- Print or export (in StriePlan) of BOMs, design drawings or tender texts



Accessories dialog

The combination of devices and additional components (e.g.: auxiliary and signal contacts) is comprehensively supported

- Automatic insertion of component combinations
- Automatic component selection for right/left positioning

The fully machined sockets will continue to be managed in StriePlan.

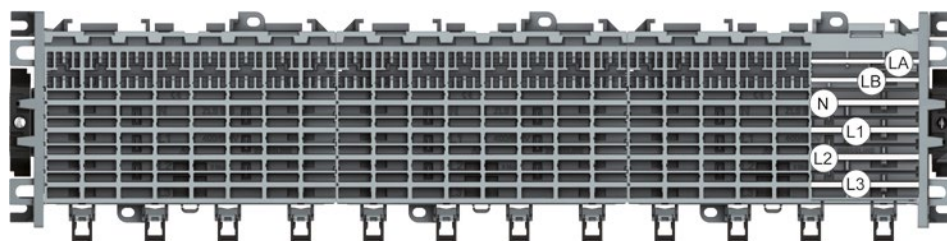
SMISLINE TP plug-in system

Comparison of starting package with plug-in socket in individual parts

Solution of plug-in socket starting package

The plug-in socket and busbars are already assembled. Different lengths are available. The assignment of the appropriate ABB STRIEBEL & JOHN modules to the starting packages is described on the following pages – planning aid for SMISLINE TP plug-in socket.

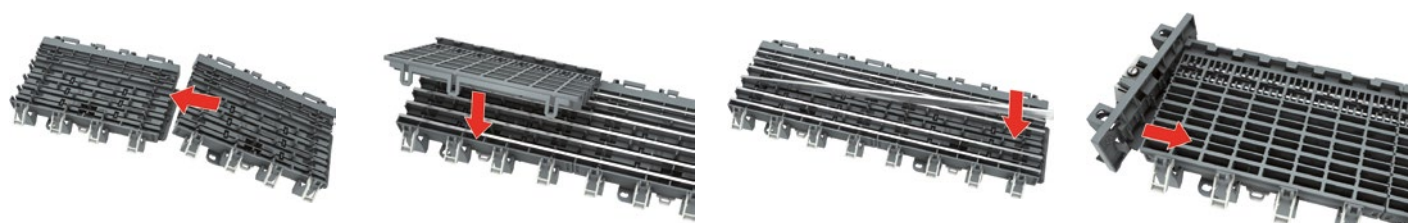
The detailed solutions of the plug-in socket and starting package are evident in the technical catalog SMISLINE TP or the catalog low-voltage material of ABB-Stotz Kontakt and ABB STRIEBEL & JOHN.



Solution of plug-in socket in individual parts

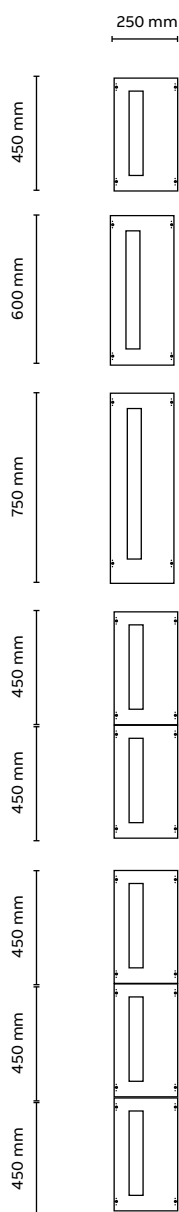
You can assemble plug-in sockets, busbars and socket end pieces on your own from the individual components. Plug-in sockets with 8 units (144 mm) and 6 units (108 mm) can be selected and assembled in any number up to 110 PLE.

The busbars can be ordered in the length of 1979 mm and shortened accordingly. It is also possible to order busbars from ABB already cut to length.



SMISLINE TP plug-in system

Assignment of CombiLine modules



Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 275 mm		Grid units	Socket base length
Combination sets type	CombiLine mounted	CombiLine flatpack	GU	SU
1 x ED103VS	1 x MC103VS	1 x MBC103VS	3 RE	22 PLE
1 x ED104VS	1 x MC104VS	1 x MBC104VS	4 RE	30 PLE
1 x ED105VS	1 x MC105VS	1 x MBC105VS	5 RE	38 PLE
2 x ED103VS	2 x MC103VS	2 x MBC103VS	6 RE	46 PLE
3 x ED103VS	3 x MC103VS	3 x MBC103VS	9 RE	72 PLE

Information about planning

When positioning incoming terminal blocks under cover joints, lower feed-in blocks ZLS228 or ZLS229 are to be used.

Vertical modules cannot be mounted directly on central support rails and horizontal cross members.

SMISLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	Type	Order code	Unit	Space units	Type	Order code
1	ZLS905E22-3L	2CCA183102R0001	2	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E22-3LN*	2CCA183103R0001	3/4*	-	ZLS201E22 (Copper rail)	2CCF800169R0001
1	ZLS905E30-3L	2CCA183110R0001	3	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E30-3LN*	2CCA183111R0001	3/4*	-	ZLS201E38 (Copper rail)	2CCF800173R0001
1	ZLS905E38-3L	2CCA183118R0001	4	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E38-3LN*	2CCA183119R0001	3/4*	-	ZLS201E46 (Copper rail)	2CCF800177R0001
1	ZLS905E46-3L	2CCA183126R0001	5	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
	ZLS905E46-3LN*	2CCA183127R0001	1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E72-3L	2CCA183152R0001	9	8	ZLS908	2CCA183030R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E72-3LN*	2CCA183153R0001	3/4*	-	ZLS201E72 (Copper rail)	2CCF800190R0001

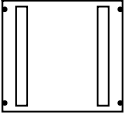
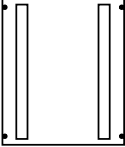
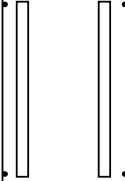
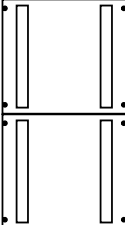
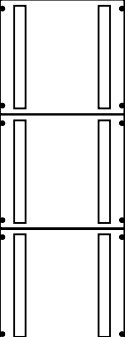
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISLINE TP plug-in system

Assignment of CombiLine modules

		Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 275 mm		Grid units	Socket base length
		Combination sets type	CombiLine mounted	CombiLine Flatpack	GU	SU
450 mm		1 x ED203VS	1 x MC203VS	1 x MBC203VS	3 GU	2 x 22 SU
600 mm		1 x ED204VS	1 x MC204VS 1 x MC304VS	1 x MBC204VS	4 GU	2 x 30 SU
750 mm		1 x ED205VS	1 x MC205VS 1 x MC305VS	1 x MBC205VS 1 x MBC305VS	5 GU	2 x 38 SU
450 mm 450 mm		2 x ED203VS	2 x MC203VS	2 x MBC203VS	6 GU	2 x 46 SU
450 mm 450 mm 450 mm		3 x ED203VS	3 x MC203VS	3 x MBC203VS	9 GU	2 x 72 SU

Information about planning

When positioning incoming terminal blocks under cover joints, lower feed-in blocks ZLS228 or ZLS229 are to be used.

Vertical modules cannot be mounted directly on central support rails and horizontal cross members.

SMISLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	Type	Order code	Unit	Space units	Type	Order code
2	ZLS905E22-3L	2CCA183102R0001	4	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E22-3LN*	2CCA183103R0001	6/8*	-	ZLS201E22 (copper rail)	2CCF800165R0001
2	ZLS905E30-3L	2CCA183110R0001	6	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E30-3LN*	2CCA183111R0001	6/8*	-	ZLS201E30 (copper rail)	2CCF800169R0001
2	ZLS905E38-3L	2CCA183118R0001	8	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E38-3LN*	2CCA183119R0001	6/8*	-	ZLS201E38 (copper rail)	2CCF800173R0001
2	ZLS905E46-3L	2CCA183126R0001	10	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E46-3LN*	2CCA183127R0001	6/8*	-	ZLS201E46 (copper rail)	2CCF800177R0001
2	ZLS905E72-3L	2CCA183152R0001	18	8	ZLS908	2CCA183030R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E72-3LN*	2CCA183153R0001	6/8*	-	ZLS201E72 (copper rail)	2CCF800190R0001

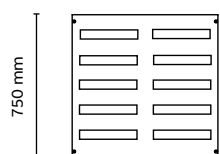
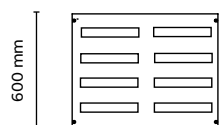
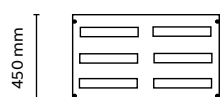
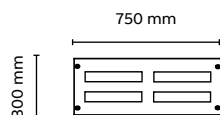
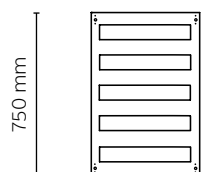
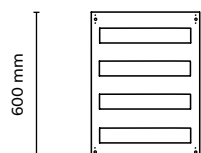
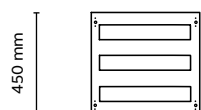
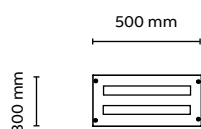
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISLINE TP plug-in system

Assignment of CombiLine modules



Combination sets type	Modules for cabinets from a cabinet depth of 215 mm		Grid units	Socket base length
	CombiLine mounted	CombiLine flatpack	GU	SU
–	1 x MC202HS	1 x MBC202HS	2 GU	2 x 22 SU
1 x ED203HS	1 x MC203HS	1 x MBC203HS	3 GU	3 x 22 SU
1 x ED204HS	1 x MC204HS	1 x MBC204HS	4 GU	4 x 22 SU
1 x ED205HS	1 x MC205HS	1 x MBC205HS	5 GU	5 x 22 SU
–	1 x MC302HS	1 x MBC302HS	2 GU	2 x 36 SU
1 x ED303HS	1 x MC3032HS	1 x MBC303HS	3 GU	3 x 36 SU
1 x ED304HS	1 x MC304HS	1 x MBC304HS	4 GU	4 x 36 SU
1 x ED305HS	1 x MC305HS	1 x MBC305HS	5 GU	5 x 36 SU

Information about planning

For modules of 3 panel width the incoming terminal block serves as centre supply.

SMISLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	Type	Order code	Unit	Space units	Type	Order code
2	ZLS905E22-3L	2CCA183102R0001	4	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E22-3LN*	2CCA183103R0001	6/8*	-	ZLS201E22 (copper rail)	2CCF800165R0001
3	ZLS905E22-3L	2CCA183102R0001	6	8	ZLS908	2CCA183030R0001
			3	6	ZLS906	2CCA183035R0001
			3	-	ZLS920 (end piece)	2CCA183017R0001
3	ZLS905E22-3LN*	2CCA183103R0001	9/12*	-	ZLS201E22 (copper rail)	2CCF800165R0001
4	ZLS905E22-3L	2CCA183102R0001	8	8	ZLS908	2CCA183030R0001
			4	6	ZLS906	2CCA183035R0001
			4	-	ZLS920 (end piece)	2CCA183017R0001
4	ZLS905E22-3LN*	2CCA183103R0001	12/16*	-	ZLS201E22 (copper rail)	2CCF800165R0001
5	ZLS905E22-3L	2CCA183102R0001	10	8	ZLS908	2CCA183030R0001
			5	6	ZLS906	2CCA183035R0001
			5	-	ZLS920 (end piece)	2CCA183017R0001
5	ZLS905E22-3LN*	2CCA183103R0001	15/20*	-	ZLS201E22 (copper rail)	2CCF800165R0001
2	ZLS905E36-3L	2CCA183116R0001	6	8	ZLS908	2CCA183030R0001
			4	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E36-3LN*	2CCA183117R0001	6/8*	-	ZLS201E36 (copper rail)	2CCF800172R0001
3	ZLS905E36-3L	2CCA183116R000	9	8	ZLS908	2CCA183030R0001
			6	6	ZLS906	2CCA183035R0001
			3	-	ZLS920 (end piece)	2CCA183017R0001
3	ZLS905E36-3LN*	2CCA183117R0001	9/12*	-	ZLS201E36 (copper rail)	2CCF800172R0001
4	ZLS905E36-3L	2CCA183116R000	12	8	ZLS908	2CCA183030R0001
			8	6	ZLS906	2CCA183035R0001
			4	-	ZLS920 (end piece)	2CCA183017R0001
4	ZLS905E36-3LN*	2CCA183117R0001	12/16*	-	ZLS201E36 (copper rail)	2CCF800172R0001
5	ZLS905E36-3L	2CCA183116R000	15	8	ZLS908	2CCA183030R0001
			10	6	ZLS906	2CCA183035R0001
			5	-	ZLS920 (end piece)	2CCA183017R0001
5	ZLS905E36-3LN*	2CCA183117R0001	15/20*	-	ZLS201E36 (copper rail)	2CCF800172R0001

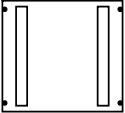
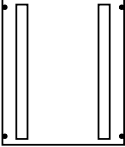
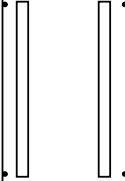
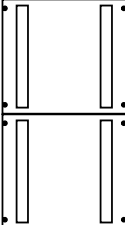
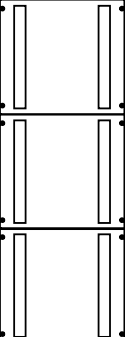
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISLINE TP plug-in system

Assignment of CombiLine modules

		Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 275 mm		Grid units	Socket base length
		Combination sets type	CombiLine mounted	CombiLine Flatpack	GU	SU
450 mm		1 x ED203VS	1 x MC203VS	1 x MBC203VS	3 GU	2 x 22 SU
600 mm		1 x ED204VS	1 x MC204VS 1 x MC304VS	1 x MBC204VS	4 GU	2 x 30 SU
750 mm		1 x ED205VS	1 x MC205VS 1 x MC305VS	1 x MBC205VS 1 x MBC305VS	5 GU	2 x 38 SU
450 mm 450 mm		2 x ED203VS	2 x MC203VS	2 x MBC203VS	6 GU	2 x 46 SU
450 mm 450 mm 450 mm		3 x ED203VS	3 x MC203VS	3 x MBC203VS	9 GU	2 x 72 SU

Information about planning

When positioning incoming terminal blocks under cover joints, lower feed-in blocks ZLS228 or ZLS229 are to be used.

Vertical modules cannot be mounted directly on central support rails and horizontal cross members.

SMISLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	Type	Order code	Unit	Space units	Type	Order code
	-	-	-	-	-	-
			-	-	-	-
			-	-	-	-
	-	-	-	-	-	-
2	ZLSP950E30-3L	2CCF212200A0001	6	8	ZLSP908	2CCF212052A0001
			2	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLS905E30-3LN*	2CCF212300A0001	6/8*	-	ZLSP1250E30	2CCF212100M0030
2	ZLSP950E38-3L	2CCF212204A0001	8	8	ZLSP908	2CCF212052A0001
			2	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLSP950E38-3LN*	2CCF212304A0001	6/8*	-	ZLSP1250E38	2CCF212100M0038
2	ZLSP950E46-3L	2CCF212208A0001	10	8	ZLSP908	2CCF212052A0001
			2	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLSP950E46-3LN*	2CCF212308A0001	6/8*	-	ZLSP1250E46	2CCF212100M0046
2	ZLSP950E72-3L	2CCF212221A0001	18	8	ZLSP908	2CCF212052A0001
			2	-	ZLSP906	2CCF212053A0001
2	ZLSP950E72-3LN*	2CCF212321A0001	6/8*	-	ZLSP920	2CCF212082A0001 socket
				-	ZLSP1250E72	2CCF212100M0072

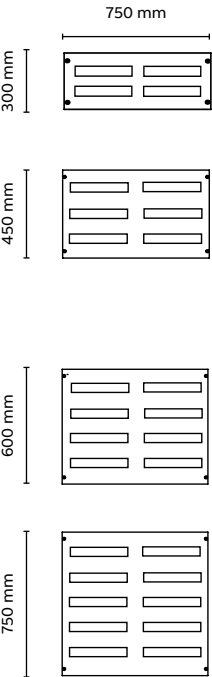
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISSLINE TP plug-in system

Assignment of CombiLine modules



Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 215 mm		Grid units	Socket base length
Combination sets type	CombiLine mounted	CombiLine kit	GU	SU
–	1 x MC302HS	1 x MBC302HS	2 GU	2 x 36 SU
1 x ED303HS	1 x MC3032HS	1 x MBC303HS	3 GU	3 x 36 SU
1 x ED304HS	1 x MC304HS	1 x MBC304HS	4 GU	4 x 36 SU
1 x ED305HS	1 x MC305HS	1 x MBC305HS	5 GU	5 x 36 SU

Information about planning

For modules of 3 panel width the incoming terminal block serves as centre supply.

SMISLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	Type	Order code	Unit	Space units	Type	Order code
2	ZLSP950E36-3L	2CCF212203A0001	6	8	ZLSP908	2CCF212052A0001
			4	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLSP950E36-3LN*	2CCF212303A0001	6/8*	-	ZLSP1250E36	2CCF212100M0036
3	ZLSP950E36-3L	2CCF212203A0001	9	8	ZLSP908	2CCF212052A0001
			6	6	ZLSP906	2CCF212053A0001
			3	-	ZLSP920	2CCF212082A0001 socket
3	ZLS905E36-3LN*	2CCF212303A0001	9/12*	-	ZLSP1250E36	2CCF212100M0036
4	ZLSP950E36-3L	2CCF212203A0001	12	8	ZLSP908	2CCF212052A0001
			8	6	ZLSP906	2CCF212053A0001
			4	-	ZLSP920	2CCF212082A0001 socket
4	ZLSP950E36-3LN*	2CCF212303A0001	12/16*	-	ZLSP1250E36	2CCF212100M0036
5	ZLSP950E36-3L	2CCF212203A0001	15	8	ZLSP908	2CCF212052A0001
			10	6	ZLSP906	2CCF212053A0001
			5	-	ZLSP920	2CCF212082A0001 socket
5	ZLSP950E36-3LN*	2CCF212303A0001	15/20*	-	ZLSP1250E36	2CCF212100M0036

* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

