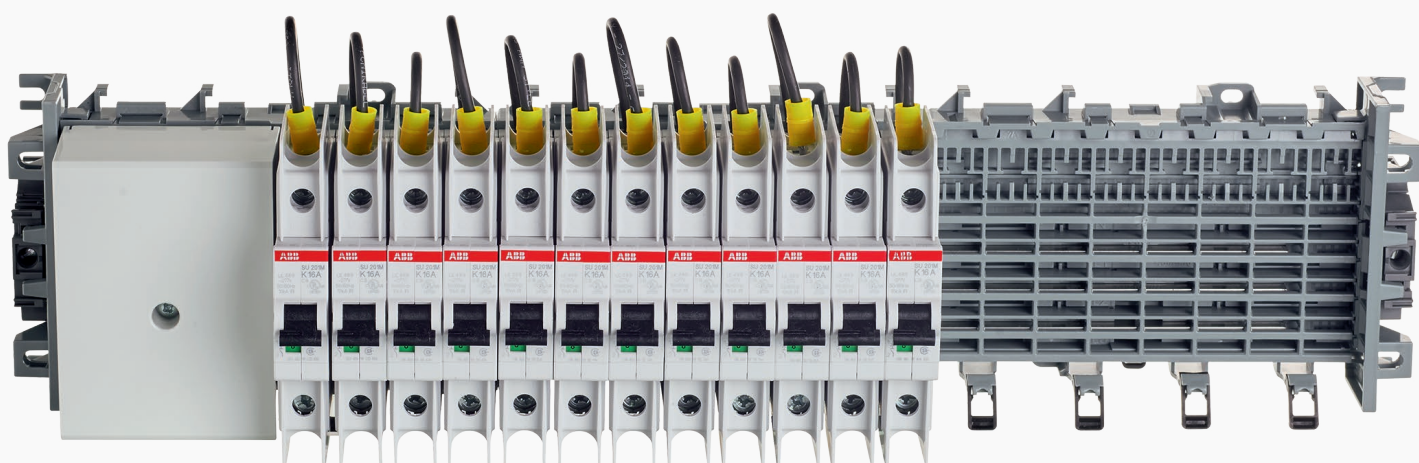


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Technical brochure UL

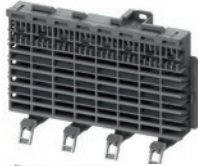
SMISSLINE TP



Sockets Touch proof

Busbar system 125 A/250 A

Socket base

	Description	Type name	ABB IT number	EAN number 761 227	Pack unit	Moduls	Weight in grams
	8-module socket Length 144 mm (includes base and cover)	ZLS908	2CCA183030R0001	141 3965	10	8	92
	6-module socket Length 108 mm (includes base and cover)	ZLS906	2CCA183035R0001	141 3958	10	6	71

Busbars for the sockets

	Description	Type name	ABB IT number	EAN number 761 227	Pack- aging unit	Module	Weight in grams
	125A busbar plated, 10x3 mm, for L1, L2, L3, N and PE – Delivery length 1979 mm	ZLS200	2CCF002772R0001	001 5702	10	110	640

Socket end piece

	Description	Type name	ABB IT number	EAN number 761 227	Pack- aging unit	Module
	To prevent displacement of sockets and busbars	ZLS920	2CCA183017R0001	141 5617	1	2 pieces, left and right

Incoming terminal block and components

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

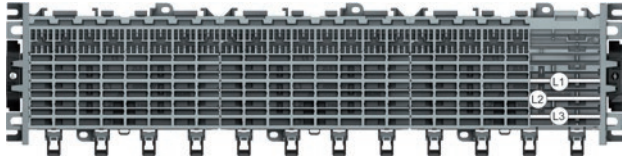
Standard incoming terminal block, complete with main terminals and cover, construction height 50 mm

	Description	Type name	ABB IT number	EAN number 761 227	Pack- aging unit	Module	Weight in grams
	50 mm ² (2 x 25 mm ²), 3LN left	ZLS224	2CCF015196R0001	001 9816	1	4	180
	50 mm ² (2 x 25 mm ²), 3LN right	ZLS224R	2CCA180152R0001	051 0726	1	4	180
	50 mm ² (2 x 25 mm ²), 3L left	ZLS225	2CCF015197R0001	001 9823	1	4	150
	50 mm ² (2 x 25 mm ²), 3L right	ZLS225R	2CCA180153R0001	051 0733	1	4	150
	Cover for standard incoming terminal block						
		ZLS235	2CCA180069R0001	002 1543	1	4	37
	Additional parts for standard incoming terminal block						
	N terminal for incoming terminal block	ZLS232	2CCF002785R0001	001 9144			30

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

	Version	Type name	ABB IT number	EAN number 761 227	Pack- aging unit	Module	Weight in grams
	Feeder component L1	ZLS251	2CCV672501R0001	050 5319	1	2	120
	Feeder component L2	ZLS252	2CCV672502R0001	050 5326	1	2	120
	Feeder component L3	ZLS253	2CCV672503R0001	050 5333	1	2	120
	Feeder component N	ZLS250	2CCV672500R0001	050 5340	1	2	120

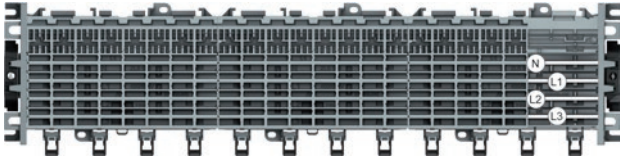
Starter pack Touch proof 3L



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

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Type name	ABB IT number	EAN number 761 227	Pack-aging	Weight in grams
18 PLE 3L	364	320	ZLS905E18-3L	2CCA183232R0001	142 6514	1	530
20 PLE 3L	401	357	ZLS905E20-3L	2CCA183100R0001	141 3231	1	637
22 PLE 3L	437	393	ZLS905E22-3L	2CCA183102R0001	141 3255	1	693
24 PLE 3L	473	429	ZLS905E24-3L	2CCA183104R0001	141 3279	1	749
26 PLE 3L	509	465	ZLS905E26-3L	2CCA183106R0001	141 3293	1	813
28 PLE 3L	545	501	ZLS905E28-3L	2CCA183108R0001	141 3415	1	848
30 PLE 3L	581	537	ZLS905E30-3L	2CCA183110R0001	141 3439	1	933
32 PLE 3L	617	573	ZLS905E32-3L	2CCA183112R0001	141 3453	1	981
34 PLE 3L	653	609	ZLS905E34-3L	2CCA183114R0001	141 3477	1	1044
36 PLE 3L	689	645	ZLS905E36-3L	2CCA183116R0001	141 3491	1	1100
38 PLE 3L	725	681	ZLS905E38-3L	2CCA183118R0001	141 3514	1	1156
40 PLE 3L	761	717	ZLS905E40-3L	2CCA183120R0001	141 3538	1	1212
42 PLE 3L	797	753	ZLS905E42-3L	2CCA183122R0001	141 3552	1	1276
44 PLE 3L	833	789	ZLS905E44-3L	2CCA183124R0001	141 3576	1	1332
46 PLE 3L	869	825	ZLS905E46-3L	2CCA183126R0001	141 3590	1	1388
48 PLE 3L	905	861	ZLS905E48-3L	2CCA183128R0001	141 3613	1	1444
50 PLE 3L	941	897	ZLS905E50-3L	2CCA183130R0001	141 3637	1	1508
52 PLE 3L	977	933	ZLS905E52-3L	2CCA183132R0001	141 3651	1	1564
54 PLE 3L	1013	969	ZLS905E54-3L	2CCA183134R0001	141 3675	1	1620
56 PLE 3L	1049	1005	ZLS905E56-3L	2CCA183136R0001	141 3699	1	1675
58 PLE 3L	1058	1041	ZLS905E58-3L	2CCA183138R0001	141 3712	1	1739
60 PLE 3L	1122	1078	ZLS905E60-3L	2CCA183140R0001	141 3736	1	1795
62 PLE 3L	1158	1114	ZLS905E62-3L	2CCA183142R0001	141 3750	1	1851
64 PLE 3L	1194	1150	ZLS905E64-3L	2CCA183144R0001	141 3774	1	1907
66 PLE 3L	1230	1186	ZLS905E66-3L	2CCA183146R0001	141 3798	1	1971
68 PLE 3L	1266	1222	ZLS905E68-3L	2CCA183148R0001	141 3811	1	2027
70 PLE 3L	1302	1258	ZLS905E70-3L	2CCA183150R0001	141 3835	1	2083
72 PLE 3L	1338	1294	ZLS905E72-3L	2CCA183152R0001	141 3859	1	2139
74 PLE 3L	1374	1330	ZLS905E74-3L	2CCA183154R0001	141 3873	1	2203
76 PLE 3L	1410	1366	ZLS905E76-3L	2CCA183156R0001	141 3897	1	2269
78 PLE 3L	1446	1402	ZLS905E78-3L	2CCA183158R0001	141 3910	1	2314
80 PLE 3L	1482	1438	ZLS905E80-3L	2CCA183160R0001	141 3934	1	2370

Starter pack Touch proof 3LN



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

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Type name	ABB IT number	EAN number 761 227	Pack-aging	Weight in grams
18 PLE 3LN	364	320	ZLS905E18-3LN	2CCA183234R0001	142 6521	1	615
20 PLE 3LN	401	357	ZLS905E20-3LN	2CCA183101R0001	141 3248	1	724
22 PLE 3LN	437	393	ZLS905E22-3LN	2CCA183103R0001	141 3262	1	789
24 PLE 3LN	473	429	ZLS905E24-3LN	2CCA183105R0001	141 3286	1	800
26 PLE 3LN	509	465	ZLS905E26-3LN	2CCA183107R0001	141 3408	1	926
28 PLE 3LN	545	501	ZLS905E28-3LN	2CCA183109R0001	141 3422	1	970
30 PLE 3LN	581	537	ZLS905E30-3LN	2CCA183111R0001	141 3446	1	1046
32 PLE 3LN	617	573	ZLS905E32-3LN	2CCA183113R0001	141 3460	1	1120
34 PLE 3LN	653	609	ZLS905E34-3LN	2CCA183115R0001	141 3484	1	1193
36 PLE 3LN	689	645	ZLS905E36-3LN	2CCA183117R0001	141 3507	1	1257
38 PLE 3LN	725	681	ZLS905E38-3LN	2CCA183119R0001	141 3521	1	1322
40 PLE 3LN	761	717	ZLS905E40-3LN	2CCA183121R0001	141 3545	1	1387
42 PLE 3LN	797	753	ZLS905E42-3LN	2CCA183123R0001	141 3569	1	1459
44 PLE 3LN	833	789	ZLS905E44-3LN	2CCA183125R0001	141 3583	1	1524
46 PLE 3LN	869	825	ZLS905E46-3LN	2CCA183127R0001	141 3606	1	1589
48 PLE 3LN	905	861	ZLS905E48-3LN	2CCA183129R0001	141 3620	1	1653
50 PLE 3LN	941	897	ZLS905E50-3LN	2CCA183131R0001	141 3644	1	1726
52 PLE 3LN	977	933	ZLS905E52-3LN	2CCA183133R0001	141 3668	1	1791
54 PLE 3LN	1013	969	ZLS905E54-3LN	2CCA183135R0001	141 3682	1	1855
56 PLE 3LN	1049	1005	ZLS905E56-3LN	2CCA183137R0001	141 3705	1	1920
58 PLE 3LN	1058	1041	ZLS905E58-3LN	2CCA183139R0001	141 3729	1	1992
60 PLE 3LN	1122	1078	ZLS905E60-3LN	2CCA183141R0001	141 3743	1	2057
62 PLE 3LN	1158	1114	ZLS905E62-3LN	2CCA183143R0001	141 3767	1	2122
64 PLE 3LN	1194	1150	ZLS905E64-3LN	2CCA183145R0001	141 3781	1	2186
66 PLE 3LN	1230	1186	ZLS905E66-3LN	2CCA183147R0001	141 3804	1	2259
68 PLE 3LN	1266	1222	ZLS905E68-3LN	2CCA183149R0001	141 3828	1	2324
70 PLE 3LN	1302	1258	ZLS905E70-3LN	2CCA183151R0001	141 3842	1	2388
72 PLE 3LN	1338	1294	ZLS905E72-3LN	2CCA183153R0001	141 3866	1	2453
74 PLE 3LN	1374	1330	ZLS905E74-3LN	2CCA183155R0001	141 3880	1	2526
76 PLE 3LN	1410	1366	ZLS905E76-3LN	2CCA183157R0001	141 3903	1	2590
78 PLE 3LN	1446	1402	ZLS905E78-3LN	2CCA183159R0001	141 3927	1	2655
80 PLE 3LN	1482	1438	ZLS905E80-3LN	2CCA183161R0001	141 3941	1	2719

Socket accessories

Intermediate piece



light grey, fills shock-proof empty module spaces 18mm
– bag containing 5 items

Type name	ABB IT number	EAN number 761 227	Pack- aging unit	Module	Weight in grams
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ZLS725	2CCS500900R0181	010 0989	1	1	100
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Busbar insulator



dark grey
for isolation and spacing of separate busbar sections, 18mm

ZLS938	2CCA205611R0001	141 8205	1	1	1
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Busbar cover



electrically protected cover for main and auxiliary busbars. The 4 modules cover can be divided. Suitable to accept extension adapter ZLS 101 4x18mm
– bag containing 5 items

ZLS100	2CCF002762R0001	001 5603	1	1	95
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Universaladapter for Pro M MCB SU200 M

Universaladapter 25 A and 45 A for use UL489



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

	Type name	ABB IT number	EAN number 761 227	Pack- aging unit	Module	Weight in grams
L1 or L2 or L3 wire top	ZLS970UL	2CCA337020R0001	144 4822	10	1	21
L1 or L2 or L3 wire bottom	ZLS971UL	2CCA337021R0001	144 4839	10	1	21

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

L1 or L2 or L3 wire top	ZLS972UL	2CCA337024R0001	144 4860	10	1	25
L1 or L2 or L3 wire bottom	ZLS973UL	2CCA337025R0001	144 4877	10	1	25

Accessory



Dummy housing

	ZLS964	2CCA180550R0001	144 4556	10	1	11
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Connector for multi-pole adapter

Bag with 30 pcs. 2 connectors are needed to connect further adapters	E210-SPV	2CCC703715R0001	141 4801	Set of 30 pcs.		50
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Miniature Circuit Breaker SU200 M UL489

Ordering data characteristic C

	Number of poles	Rated current In A	Type	Order code	Weight per PCE kg	Packing unit PCE
	1	0.5	SU201M-C0,5	2CDS271337R0984	0.125	10
		1	SU201M-C1	2CDS271337R0014	0.125	10
		1.6	SU201M-C1,6	2CDS271337R0974	0.125	10
		2	SU201M-C2	2CDS271337R0024	0.125	10
		3	SU201M-C3	2CDS271337R0034	0.125	10
		4	SU201M-C4	2CDS271337R0044	0.125	10
		5	SU201M-C5	2CDS271337R0054	0.125	10
		6	SU201M-C6	2CDS271337R0064	0.125	10
		8	SU201M-C8	2CDS271337R0084	0.125	10
		10	SU201M-C10	2CDS271337R0104	0.125	10
		13	SU201M-C13	2CDS271337R0134	0.125	10
		15	SU201M-C15	2CDS271337R0154	0.125	10
		16	SU201M-C16	2CDS271337R0164	0.125	10
		20	SU201M-C20	2CDS271337R0204	0.125	10
		25	SU201M-C25	2CDS271337R0254	0.125	10
		30	SU201M-C30	2CDS271337R0304	0.125	10
		32	SU201M-C32	2CDS271337R0324	0.125	10
		35	SU201M-C35	2CDS271337R0354	0.125	10
		40	SU201M-C40	2CDS271337R0404	0.125	10
	2	0.5	SU202M-C0,5	2CDS272337R0984	0.250	5
		1	SU202M-C1	2CDS272337R0014	0.250	5
		1.6	SU202M-C1,6	2CDS272337R0974	0.250	5
		2	SU202M-C2	2CDS272337R0024	0.250	5
		3	SU202M-C3	2CDS272337R0034	0.250	5
		4	SU202M-C4	2CDS272337R0044	0.250	5
		5	SU202M-C5	2CDS272337R0054	0.250	5
		6	SU202M-C6	2CDS272337R0064	0.250	5
		8	SU202M-C8	2CDS272337R0084	0.250	5
		10	SU202M-C10	2CDS272337R0104	0.250	5
		13	SU202M-C13	2CDS272337R0134	0.250	5
		15	SU202M-C15	2CDS272337R0154	0.250	5
		16	SU202M-C16	2CDS272337R0164	0.250	5
		20	SU202M-C20	2CDS272337R0204	0.250	5
		25	SU202M-C25	2CDS272337R0254	0.250	5
		30	SU202M-C30	2CDS272337R0304	0.250	5
		32	SU202M-C32	2CDS272337R0324	0.250	5
		35	SU202M-C35	2CDS272337R0354	0.250	5
		40	SU202M-C40	2CDS272337R0404	0.250	5

Miniature Circuit Breaker SU200 M UL489

Ordering data characteristic C

	Number of poles	Rated current In A	Type	Order code	Weight per PCE kg	Packing unit PCE
	3	0.5	SU203M-C0,5	2CDS273337R0984	0.375	3
		1	SU203M-C1	2CDS273337R0014	0.375	3
		1.6	SU203M-C1,6	2CDS273337R0974	0.375	3
		2	SU203M-C2	2CDS273337R0024	0.375	3
		3	SU203M-C3	2CDS273337R0034	0.375	3
		4	SU203M-C4	2CDS273337R0044	0.375	3
		5	SU203M-C5	2CDS273337R0054	0.375	3
		6	SU203M-C6	2CDS273337R0064	0.375	3
		8	SU203M-C8	2CDS273337R0084	0.375	3
		10	SU203M-C10	2CDS273337R0104	0.375	3
		13	SU203M-C13	2CDS273337R0134	0.375	3
		15	SU203M-C15	2CDS273337R0154	0.375	3
		16	SU203M-C16	2CDS273337R0164	0.375	3
		20	SU203M-C20	2CDS273337R0204	0.375	3
		25	SU203M-C25	2CDS273337R0254	0.375	3
		30	SU203M-C30	2CDS273337R0304	0.375	3
		32	SU203M-C32	2CDS273337R0324	0.375	3
		35	SU203M-C35	2CDS273337R0354	0.375	3
		40	SU203M-C40	2CDS273337R0404	0.375	3
	4	0.5	SU204M-C0,5	2CDS274337R0984	0.500	2
		1	SU204M-C1	2CDS274337R0014	0.500	2
		1.6	SU204M-C1,6	2CDS274337R0974	0.500	2
		2	SU204M-C2	2CDS274337R0024	0.500	2
		3	SU204M-C3	2CDS274337R0034	0.500	2
		4	SU204M-C4	2CDS274337R0044	0.500	2
		5	SU204M-C5	2CDS274337R0054	0.500	2
		6	SU204M-C6	2CDS274337R0064	0.500	2
		8	SU204M-C8	2CDS274337R0084	0.500	2
		10	SU204M-C10	2CDS274337R0104	0.500	2
		13	SU204M-C13	2CDS274337R0134	0.500	2
		15	SU204M-C15	2CDS274337R0154	0.500	2
		16	SU204M-C16	2CDS274337R0164	0.500	2
		20	SU204M-C20	2CDS274337R0204	0.500	2
		25	SU204M-C25	2CDS274337R0254	0.500	2
		30	SU204M-C30	2CDS274337R0304	0.500	2
		32	SU204M-C32	2CDS274337R0324	0.500	2
		35	SU204M-C35	2CDS274337R0354	0.500	2
		40	SU204M-C40	2CDS274337R0404	0.500	2

Miniature Circuit Breaker SU200 M UL489

Ordering data characteristic K

	Number of poles	Rated current In A	Type	Order code	Weight per PCE kg	Packing unit PCE
	1	0.2	SU201M-K0,2	2CDS271337R0087	0.125	10
		0.3	SU201M-K0,3	2CDS271337R0117	0.125	10
		0.5	SU201M-K0,5	2CDS271337R0157	0.125	10
		0.75	SU201M-K0,75	2CDS271337R0187	0.125	10
		1	SU201M-K1	2CDS271337R0217	0.125	10
		1.6	SU201M-K1,6	2CDS271337R0257	0.125	10
		2	SU201M-K2	2CDS271337R0277	0.125	10
		3	SU201M-K3	2CDS271337R0317	0.125	10
		4	SU201M-K4	2CDS271337R0337	0.125	10
		5	SU201M-K5	2CDS271337R0357	0.125	10
		6	SU201M-K6	2CDS271337R0377	0.125	10
		8	SU201M-K8	2CDS271337R0407	0.125	10
		10	SU201M-K10	2CDS271337R0427	0.125	10
		13	SU201M-K13	2CDS271337R0447	0.125	10
		15	SU201M-K15	2CDS271337R0457	0.125	10
		16	SU201M-K16	2CDS271337R0467	0.125	10
		20	SU201M-K20	2CDS271337R0487	0.125	10
		25	SU201M-K25	2CDS271337R0517	0.125	10
		30	SU201M-K30	2CDS271337R0527	0.125	10
		32	SU201M-K32	2CDS271337R0537	0.125	10
		35	SU201M-K35	2CDS271337R0547	0.125	10
		40	SU201M-K40	2CDS271337R0557	0.125	10
	2	0.2	SU202M-K0,2	2CDS272337R0087	0.250	5
		0.3	SU202M-K0,3	2CDS272337R0117	0.250	5
		0.5	SU202M-K0,5	2CDS272337R0157	0.250	5
		0.75	SU202M-K0,75	2CDS272337R0187	0.250	5
		1	SU202M-K1	2CDS272337R0217	0.250	5
		1.6	SU202M-K1,6	2CDS272337R0257	0.250	5
		2	SU202M-K2	2CDS272337R0277	0.250	5
		3	SU202M-K3	2CDS272337R0317	0.250	5
		4	SU202M-K4	2CDS272337R0337	0.250	5
		5	SU202M-K5	2CDS272337R0357	0.250	5
		6	SU202M-K6	2CDS272337R0377	0.250	5
		8	SU202M-K8	2CDS272337R0407	0.250	5
		10	SU202M-K10	2CDS272337R0427	0.250	5
		13	SU202M-K13	2CDS272337R0447	0.250	5
		15	SU202M-K15	2CDS272337R0457	0.250	5
		16	SU202M-K16	2CDS272337R0467	0.250	5
		20	SU202M-K20	2CDS272337R0487	0.250	5
		25	SU202M-K25	2CDS272337R0517	0.250	5
		30	SU202M-K30	2CDS272337R0527	0.250	5
		32	SU202M-K32	2CDS272337R0537	0.250	5
		35	SU202M-K35	2CDS272337R0547	0.250	5
		40	SU202M-K40	2CDS272337R0557	0.250	5

Miniature Circuit Breaker SU200 M UL489

Ordering data characteristic K

	Number of poles	Rated current In A	Type	Order code	Weight per PCE kg	Packing unit PCE
	3	0.2	SU203M-K0,2	2CDS273337R0087	0.375	3
		0.3	SU203M-K0,3	2CDS273337R0117	0.375	3
		0.5	SU203M-K0,5	2CDS273337R0157	0.375	3
		0.75	SU203M-K0,75	2CDS273337R0187	0.375	3
		1	SU203M-K1	2CDS273337R0217	0.375	3
		1.6	SU203M-K1,6	2CDS273337R0257	0.375	3
		2	SU203M-K2	2CDS273337R0277	0.375	3
		3	SU203M-K3	2CDS273337R0317	0.375	3
		4	SU203M-K4	2CDS273337R0337	0.375	3
		5	SU203M-K5	2CDS273337R0357	0.375	3
		6	SU203M-K6	2CDS273337R0377	0.375	3
		8	SU203M-K8	2CDS273337R0407	0.375	3
		10	SU203M-K10	2CDS273337R0427	0.375	3
		13	SU203M-K13	2CDS273337R0447	0.375	3
		15	SU203M-K15	2CDS273337R0457	0.375	3
		16	SU203M-K16	2CDS273337R0467	0.375	3
		20	SU203M-K20	2CDS273337R0487	0.375	3
		25	SU203M-K25	2CDS273337R0517	0.375	3
		30	SU203M-K30	2CDS273337R0527	0.375	3
		32	SU203M-K32	2CDS273337R0537	0.375	3
		35	SU203M-K35	2CDS273337R0547	0.375	3
		40	SU203M-K40	2CDS273337R0557	0.375	3
	4	0.2	SU204M-K0,2	2CDS274337R0087	0.500	2
		0.3	SU204M-K0,3	2CDS274337R0117	0.500	2
		0.5	SU204M-K0,5	2CDS274337R0157	0.500	2
		0.75	SU204M-K0,75	2CDS274337R0187	0.500	2
		1	SU204M-K1	2CDS274337R0217	0.500	2
		1.6	SU204M-K1,6	2CDS274337R0257	0.500	2
		2	SU204M-K2	2CDS274337R0277	0.500	2
		3	SU204M-K3	2CDS274337R0317	0.500	2
		4	SU204M-K4	2CDS274337R0337	0.500	2
		5	SU204M-K5	2CDS274337R0357	0.500	2
		6	SU204M-K6	2CDS274337R0377	0.500	2
		8	SU204M-K8	2CDS274337R0407	0.500	2
		10	SU204M-K10	2CDS274337R0427	0.500	2
		13	SU204M-K13	2CDS274337R0447	0.500	2
		15	SU204M-K15	2CDS274337R0457	0.500	2
		16	SU204M-K16	2CDS274337R0467	0.500	2
		20	SU204M-K20	2CDS274337R0487	0.500	2
		25	SU204M-K25	2CDS274337R0517	0.500	2
		30	SU204M-K30	2CDS274337R0527	0.500	2
		32	SU204M-K32	2CDS274337R0537	0.500	2
		35	SU204M-K35	2CDS274337R0547	0.500	2
		40	SU204M-K40	2CDS274337R0557	0.500	2

Miniature Circuit Breaker SU200 M UL489

Ordering data characteristic Z

	Number of poles	Rated current I _n A	Type	Order code	Weight per PCE kg	Packing unit PCE
	1	0.5	SU201M-Z0,5	2CDS271337R0158	0.125	10
		1	SU201M-Z1	2CDS271337R0218	0.125	10
		1.6	SU201M-Z1,6	2CDS271337R0258	0.125	10
		2	SU201M-Z2	2CDS271337R0278	0.125	10
		3	SU201M-Z3	2CDS271337R0318	0.125	10
		4	SU201M-Z4	2CDS271337R0338	0.125	10
		5	SU201M-Z5	2CDS271337R0358	0.125	10
		6	SU201M-Z6	2CDS271337R0378	0.125	10
		8	SU201M-Z8	2CDS271337R0408	0.125	10
		10	SU201M-Z10	2CDS271337R0428	0.125	10
		13	SU201M-Z13	2CDS271337R0448	0.125	10
		15	SU201M-Z15	2CDS271337R0458	0.125	10
		16	SU201M-Z16	2CDS271337R0468	0.125	10
		20	SU201M-Z20	2CDS271337R0488	0.125	10
		25	SU201M-Z25	2CDS271337R0518	0.125	10
		30	SU201M-Z30	2CDS271337R0528	0.125	10
		32	SU201M-Z32	2CDS271337R0538	0.125	10
		35	SU201M-Z35	2CDS271337R0548	0.125	10
		40	SU201M-Z40	2CDS271337R0558	0.125	10
	2	0.5	SU202M-Z0,5	2CDS272337R0158	0.250	5
		1	SU202M-Z1	2CDS272337R0218	0.250	5
		1.6	SU202M-Z1,6	2CDS272337R0258	0.250	5
		2	SU202M-Z2	2CDS272337R0278	0.250	5
		3	SU202M-Z3	2CDS272337R0318	0.250	5
		4	SU202M-Z4	2CDS272337R0338	0.250	5
		5	SU202M-Z5	2CDS272337R0358	0.250	5
		6	SU202M-Z6	2CDS272337R0378	0.250	5
		8	SU202M-Z8	2CDS272337R0408	0.250	5
		10	SU202M-Z10	2CDS272337R0428	0.250	5
		13	SU202M-Z13	2CDS272337R0448	0.250	5
		15	SU202M-Z15	2CDS272337R0458	0.250	5
		16	SU202M-Z16	2CDS272337R0468	0.250	5
		20	SU202M-Z20	2CDS272337R0488	0.250	5
		25	SU202M-Z25	2CDS272337R0518	0.250	5
		30	SU202M-Z30	2CDS272337R0528	0.250	5
		32	SU202M-Z32	2CDS272337R0538	0.250	5
		35	SU202M-Z35	2CDS272337R0548	0.250	5
		40	SU202M-Z40	2CDS272337R0558	0.250	5

Miniature Circuit Breaker SU200 M UL489

Ordering data characteristic Z

	Number of poles	Rated current I _n A	Type	Order code	Weight per PCE kg	Packing unit PCE
	3	0.5	SU203M-Z0,5	2CDS273337R0158	0.375	3
		1	SU203M-Z1	2CDS273337R0218	0.375	3
		1.6	SU203M-Z1,6	2CDS273337R0258	0.375	3
		2	SU203M-Z2	2CDS273337R0278	0.375	3
		3	SU203M-Z3	2CDS273337R0318	0.375	3
		4	SU203M-Z4	2CDS273337R0338	0.375	3
		5	SU203M-Z5	2CDS273337R0358	0.375	3
		6	SU203M-Z6	2CDS273337R0378	0.375	3
		8	SU203M-Z8	2CDS273337R0408	0.375	3
		10	SU203M-Z10	2CDS273337R0428	0.375	3
		13	SU203M-Z13	2CDS273337R0448	0.375	3
		15	SU203M-Z15	2CDS273337R0458	0.375	3
		16	SU203M-Z16	2CDS273337R0468	0.375	3
		20	SU203M-Z20	2CDS273337R0488	0.375	3
		25	SU203M-Z25	2CDS273337R0518	0.375	3
		30	SU203M-Z30	2CDS273337R0528	0.375	3
		32	SU203M-Z32	2CDS273337R0538	0.375	3
		35	SU203M-Z35	2CDS273337R0548	0.375	3
		40	SU203M-Z40	2CDS273337R0558	0.375	3
	4	0.5	SU204M-Z0,5	2CDS274337R0158	0.500	2
		1	SU204M-Z1	2CDS274337R0218	0.500	2
		1.6	SU204M-Z1,6	2CDS274337R0258	0.500	2
		2	SU204M-Z2	2CDS274337R0278	0.500	2
		3	SU204M-Z3	2CDS274337R0318	0.500	2
		4	SU204M-Z4	2CDS274337R0338	0.500	2
		5	SU204M-Z5	2CDS274337R0358	0.500	2
		6	SU204M-Z6	2CDS274337R0378	0.500	2
		8	SU204M-Z8	2CDS274337R0408	0.500	2
		10	SU204M-Z10	2CDS274337R0428	0.500	2
		13	SU204M-Z13	2CDS274337R0448	0.500	2
		15	SU204M-Z15	2CDS274337R0458	0.500	2
		16	SU204M-Z16	2CDS274337R0468	0.500	2
		20	SU204M-Z20	2CDS274337R0488	0.500	2
		25	SU204M-Z25	2CDS274337R0518	0.500	2
		30	SU204M-Z30	2CDS274337R0528	0.500	2
		32	SU204M-Z32	2CDS274337R0538	0.500	2
		35	SU204M-Z35	2CDS274337R0548	0.500	2
		40	SU204M-Z40	2CDS274337R0558	0.500	2

Busbars 125 A

125 A busbars / selection table for sockets

Order data busbar 125 A	ABB IT number	EAN number 761 227	ZLS908	ZLS906	Module	Length incl. end piece	Busbar length in mm
ZLS201E6	2CCF800158R0001	001 6778	–	1	6	148	103
ZLS201E8	2CCF800159R0001	001 6983	1	–	8	186	139
ZLS201E12	2CCF800160R0001	001 6211	–	2	12	256	211
ZLS201E14	2CCF800161R0001	001 6310	1	1	14	292	247
ZLS201E16	2CCF800162R0001	001 6334	2	–	16	328	283
ZLS201E18	2CCF800163R0001	001 6358	–	3	18	364	319
ZLS201E20	2CCF800164R0001	001 6372	1	2	20	401	355
ZLS201E22	2CCF800165R0001	001 6396	2	1	22	437	391
ZLS201E24	2CCF800666R0001	001 6419	3	–	24	473	427
ZLS201E26	2CCF800167R0001	001 6433	1	3	26	509	463
ZLS201E28	2CCF800168R0001	001 6457	2	2	28	545	499
ZLS201E30	2CCF800169R0001	001 6471	3	1	30	581	535
ZLS201E32	2CCF800170R0001	001 6495	4	–	32	617	571
ZLS201E34	2CCF800171R0001	001 6518	2	3	34	653	607
ZLS201E36	2CCF800172R0001	001 6532	3	2	36	689	643
ZLS201E38	2CCF800173R0001	001 6556	4	1	38	725	679
ZLS201E40	2CCF800174R0001	001 6570	5	–	40	761	715
ZLS201E42	2CCF800175R0001	001 6594	3	3	42	797	751
ZLS201E44	2CCF800176R0001	001 6617	4	2	44	833	787
ZLS201E46	2CCF800177R0001	001 6631	5	1	46	869	823
ZLS201E48	2CCF800178R0001	001 6655	6	–	48	905	859
ZLS201E50	2CCF800179R0001	001 6679	4	3	50	941	895
ZLS201E52	2CCF800180R0001	001 6693	5	2	52	977	932
ZLS201E54	2CCF800181R0001	001 6716	6	1	54	1013	968
ZLS201E56	2CCF800182R0001	001 6730	7	–	56	1049	1004
ZLS201E58	2CCF800183R0001	001 6754	5	3	58	1085	1040
ZLS201E60	2CCF800184R0001	001 6785	6	2	60	1122	1076
ZLS201E62	2CCF800185R0001	001 6808	7	1	62	1158	1112
ZLS201E64	2CCF800186R0001	001 6822	8	–	64	1194	1148
ZLS201E66	2CCF800187R0001	001 6846	6	3	66	1230	1184
ZLS201E68	2CCF800188R0001	001 6860	7	2	68	1266	1220
ZLS201E70	2CCF800189R0001	001 6884	8	1	70	1302	1256
ZLS201E72	2CCF800190R0001	001 6907	9	–	72	1338	1292
ZLS201E74	2CCF800191R0001	001 6921	7	3	74	1374	1328
ZLS201E76	2CCF800192R0001	001 6945	8	2	76	1410	1364
ZLS201E78	2CCF800193R0001	001 6969	9	1	78	1446	1400
ZLS201E80	2CCF800194R0001	001 6990	10	–	80	1482	1436
ZLS201E82	2CCF800195R0001	001 7010	8	3	82	1518	1472
ZLS201E84	2CCF800196R0001	001 7034	9	2	84	1554	1508
ZLS201E86	2CCF800197R0001	001 7058	10	1	86	1590	1544
ZLS201E88	2CCF800198R0001	001 7072	11	–	88	1626	1580
ZLS201E90	2CCF800199R0001	001 7096	9	3	90	1662	1616
ZLS201E92	2CCF800200R0001	001 7119	10	2	92	1698	1652
ZLS201E94	2CCF800201R0001	001 7133	11	1	94	1734	1688
ZLS201E96	2CCF800202R0001	001 7157	12	–	96	1770	1724
ZLS201E98	2CCF800203R0001	001 7171	10	3	98	1806	1760
ZLS201E100	2CCF800204R0001	001 6006	11	2	100	1843	1796
ZLS201E102	2CCF800205R0001	001 6020	12	1	102	1879	1832
ZLS201E104	2CCF800206R0001	001 6044	13	–	104	1915	1868
ZLS201E106	2CCF800207R0001	001 6068	11	3	106	1951	1904
ZLS201E108	2CCF800208R0001	001 6082	12	2	108	1987	1940

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 for UL508A Industrial Control Panels

The selection of switching and control devices for Industrial Control Panels (ICP) for the UL market differs greatly from those intended for IEC applications. The differences between European ICPs and those intended for the US market are described in more detail.

Regulations and standards used in USA and Canada

US legal regulations like the NEC and OSHA (see section UL and CSA standards) require certification of distribution and control equipment by a third party testing laboratory like Underwriter's Laboratories (UL). The OSHA has accredited UL as a Nationally Recognized Testing Laboratory (NRTL).

Furthermore certified control and distribution equipment is required to be marked in the United States with a certification label mark by the NRTL. Products which are certified and approved by UL to both UL and CSA standards are marked with a special mark.

All SMISLINE devices suitable for the UL market are certified and registered in the "Electrical constructions Materials Directory" which is electronically available under <http://www.ul.com> (see table below).

UL Listing of SMISLINE

Device	UL Mark	Standard	UL File	Application in Industrial Control Panels
Busbar system		UL508	E222110	Feeder Circuit and Branch Circuit
SU200 U, SU200M adapter accessory (ZLS97XUL)		UL489	E257901	Branch Circuit

SMISSLINE for UL508A Industrial Control Panels

UL Mark

Two basic types of UL marks can be distinguished which are issued by Underwriter's Laboratories.



UL Listing Mark

- Compliance with US safety requirements
- Tested to UL standard
- Use without any restrictions
- Field or factory wiring



UL Listing Mark for USA and Canada

- Compliance with US and Canadian safety requirements
- Tested to UL and CSA standard
- Use without any restrictions
- Field or factory wiring



Recognized Component Mark

- Compliance with US safety requirements
- Tested to UL standard
- Part of a larger system or circuitry to be used with
- Conditions of acceptability apply (CoA)
- Factory wiring



Recognized Component Mark for USA and Canada

- Compliance with US and Canadian safety requirements
- Tested to UL and CSA standard
- Part of a larger system or circuitry to be used with
- Conditions of acceptability apply (CoA)
- Factory wiring

Listed Industrial Control Equipment (UL Listed Mark) may be used in Industrial Control Panels without any restrictions. These devices may be field wired or factory wired, i.e. on-site wired or assembled in the factory or panel workshop.

Recognized Component Industrial Control Equipment (Recognized Component Mark) are **field or factory wiring only as stated in the Conditions of Acceptability (CoA)**. These components are part of a larger system for which "Conditions of Acceptability" (CoA) apply. These CoAs are listed in the corresponding UL File belonging to the component.
Complete wiring is done by experts in panel workshops or at the factory.

The combined UL or Recognized Component Mark is applied for components certified by UL to both Canadian and UL standards and safety requirements, which may be different.

SMISLINE for UL508A Industrial Control Panels

UL and CSA Standards

Three main categories of standards are commonly used in the United States which are important to the electrical installer and panel builder.

Important US standards for Industrial Control Panels and corresponding IEC standards

Type	US standard	Comparable IEC standard
Installation standard	NFPA 70 (NEC)	IEC 60364
Application standard	– UL 508 A – NFPA 79	IEC 61439 IEC 60204
Product standard	– UL 489 – UL 508 – UL 1077	IEC 60947-2 IEC 60947-4-1

The National Electrical Code (NEC), also known as NFPA 70, covers electrical on-site installations and is recognized as state of the art reference by the US legal system. The National Fire Protection Association (NFPA) also publishes further regulations. An example is the standard for electrical machinery NFPA 79.

In addition to the NEC, installers have to know what other codes are required in their electrical installations. Often further local conditions apply like specific local building codes, requirements by the OSHA (Occupational Safety and Health Administration) or the ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers).

The NEC itself references to application and product standards published by Underwriter Laboratories (UL). For instance Industrial Control Panels have to follow the requirements given in the standard UL 508A.

Often similar standards apply for Canada. The Canadian Electrical Code (CES) refers to standards of the Canadian Standard Association (CSA) which are often equivalent to the corresponding UL standard. Products bearing the combined Canada / U.S. Mark are tested and certified to both a UL and a CSA standard.

Examples are the standards for Moulded Case Circuit Breakers UL 489 respectively CSA – C22.2 No. 5, the standard for Industrial Control Equipment UL 508 (CSA – C22.2 No.14) or the standard for Supplementary Protectors UL1077 (CSA – C22.2 No.35). Or the standard for Industrial control panels UL508A (CSA-C22.2 No. 286)

Most components of the SMISLINE system are tested and certified according to both UL and CSA standards (see section “UL Mark”).



SMISSLINE for UL508A Industrial Control Panels

Network Types

The low-voltage network types used in the USA differ significantly from European networks. Close attention must be given to the network type when selecting components and devices for a special application. All devices have to be approved for the chosen network voltage.

Low-voltage network types

Industrial an commercial buildings		Residential buildings
3-phase, 4-wire Grounded Wye	3-phase, 3-wire Corner grounded Delta Grounded Midpoint	1-phase, 3-wire Single phase
600Y/347V 480Y/277V 240Y/131V 208Y/120V	600V 480V 240V	120/240V

The common network types used in industrial and commercial building applications are

- 3-phase, 3-wire systems in corner grounded delta systems (i.e. 240V, 480V, 600V) and
- 3-phase, 4-wire grounded wye systems, also called slash voltages (i.e. 208Y/120V, 240Y/131V or 480Y/277V).

The 3-phase, 4-wire system is similar to the European TN-S network system. In a 240Y/131V the voltage between the phases is 240V, the voltage between phase and neutral (or ground) is 131V. Industrial control panels using slash voltage devices shall be marked with the label “For use on a solidly grounded wye source only”.

In residential buildings often 1-pase, 3-wire single phase networks with grounded midpoint (“center tap”) are commonly used (i.e. 120/240V).

Switching devices which are approved according to UL489 or UL1077 are suitable to be applied for system voltages up to their maximum listed rated voltage.

Example: the SMISSLINE circuit-breaker series SU400M with a rated voltage of 240 VAC allows the application in 120/240 V, 208Y/120V, 240Y/131V and 240V networks.

The SMISSLINE TP busbar system is suitable for for voltage up to 600V.

SMISSLINE for UL508A Industrial Control Panels

Components of an Industrial Control Panel

For Industrial Control Panels (ICP) the NEC refers to UL508A and its requirements. This standard covers industrial control panels for general industrial use. The requirements also cover industrial control panel enclosures and industrial control panels intended for flame safety supervision of combustible fuel type equipment, elevator control, crane or hoist control, service equipment use, marine use, air conditioning and refrigeration equipment. Also included are the requirements for the control of industrial machinery including metalworking machine tools, power press controls and plastic injection molding machinery.

Special emphasis is laid on the distinction of “feeder circuits” and “branch circuits”. In contrast to IEC control panels the device application in a control or a power circuit decides if the control component or the circuit breaker may be used or not.

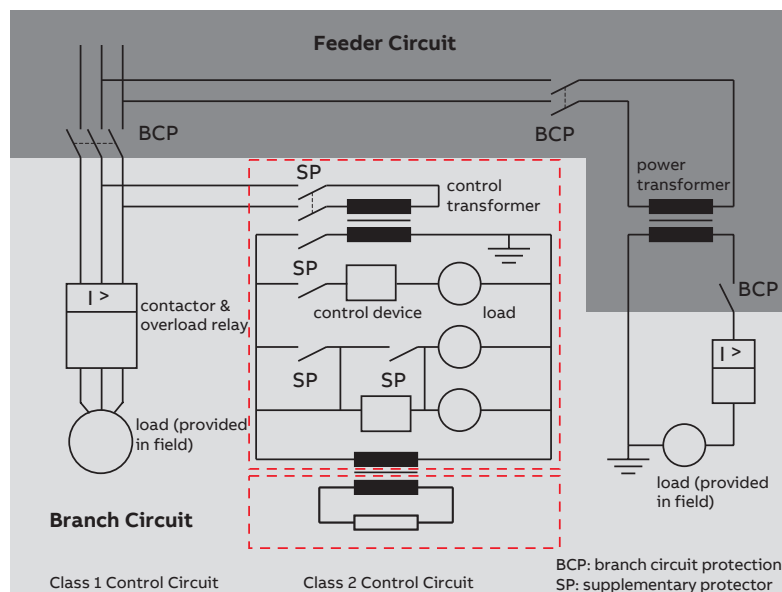
The figure below depicts an example for the circuitry of an industrial control unit with power and control circuits.

There are multiple layouts for control circuits:

- Direct tap-off upstream the BCP device. For a fuseless installation circuit breakers according to UL489 shall be used.
- Direct tap-off downstream the BCP device. Here supplementary protectors shall be used, e.g. circuit breakers according to UL 1077.
- Use of control transformers or DC power supplies. Protective devices shall be approved for this application.

The SMISSLINE system with its components listed in File E222110 and E257901 can be applied in **branch circuit** or **feeder circuit** up to 600VAC max.

The application for power circuits and control circuits is also covered.



SMISSLINE for UL508A Industrial Control Panels

AWG allocation

Branch circuit

The conductors and components following the last overcurrent protective device protecting a load.

Branch circuit protection (BCP)

Overcurrent protection with an ampere rating selected to protect the branch circuit. For a motor branch circuit, the overcurrent protection is required for over-currents due to short circuits and faults to ground only.

Feeder circuit

The conductors and circuitry on the supply side of the branch circuit overcurrent protective device.

Power circuit

Conductors and components of branch and feeder circuits.

Control circuit

A circuit that carries the electric signals directing the performance of a controller, and which does not carry the main power circuit.

A control circuit is, in most cases, limited to 15A.

Class 1 control circuit

A control circuit on the load side of overcurrent protective device where the voltage does not exceed 600 volts, and where the power available is not limited, or control circuit on the load side of power limiting supply, such as a transformer.

Class 2 control circuit

A control circuit supplied from a source having limited voltage (30 Vrms or less) and current capacity, such as from the secondary of a Class 2 transformer, and rated for use with Class 2 remote-control or signaling circuits.

AWG-allocation

(mm ²)	2.1	3.3	5.3	8.4	13.3	21.1	26.7	33.6	42.4	53.5
AWG	14	12	10	8	6	4	3	2	1	1/0
(mm ²)	67.4	85.0	107.2	127	152	177	203	253	304	380
AWG or kcmil	2/0	3/0	4/0	250	300	350	400	500	600	750

Technical data UL508 Industrial Control Equipment

SMISLINE TP busbar system, UL File E222110

Feeder 150A (ZLS250, ZLS251, ZLS252, ZLS253)

Rated Voltage:	600 VAC
Rated Current (side feed, left or right):	150A, 125A for side feed
Rated Current (center feed):	250A max. when used with two feeder blocks
Short Circuit Protection:	150A Fuse or Circuit-Breaker (DIVQ/7) with maximum rating of 250A, located at Line Side
	240VAC 50 kA
	480Y/277 VAC 50 kA
	480VAC 50 kA
	600Y/347 VAC 35 kA
	600VAC 35 kA
Torque:	2.0Nm
Stripping length:	21 mm
Wire size:	2 AWG – 1/0 AWG
Wire rated min.:	600V and 75 °C (AVLV2/8)

Standard Feeder Block (ZLS224, ZLS224R, ZLS225, ZLS225R)

Feeder Blocks cat. nos. ZLS224, ZLS224R, ZLS225 and ZLS225R are suitable for use in feeder circuits up to 250V

Rated Voltage:	250VAC
Rated Current	150A, 125A for side feed 250A max. when used with two feeder blocks
Short Circuit Protection:	150A Fuse or Circuit-Breaker (DIVQ/7) with maximum rating of 250A, located at Line Side
	240VAC 50 kA
Torque:	4.0Nm
Stripping length:	18mm
Wire size:	10 AWG – 1/0 AWG
Wire rated min.:	600V and 75 °C (AVLV2/8)

Terminal ZLS954UL (Neutral), ZLS959UL (PE)

Listed Accessory for use with ABB Busbar System type SMISLINE TP

600VAC, 150A (Neutral only)

Torque:	2.0Nm – 1/0 AWG max.
Stripping length:	21 mm
Wire size:	2 AWG – 1/0 AWG
Wire rated min.:	600V and 75 °C (AVLV2/8)

Terminal ZLS913UL (Neutral), ZLS929UL Terminal (PE)

Listed Accessory for use with ABB Busbar System type SMISLINE TP

600VAC, 63A (Neutral only)

Torque:	2.5Nm AWG max.
Stripping length:	15 mm
Wire size:	6 AWG – 2 AWG
Wire rated min.:	600V and 75 °C (AVLV2/8)

Technical data UL508 Industrial Control Equipment

SMISSLINE TP busbar system, UL File E222110

Terminal ZLS918UL (Neutral), ZLS919UL (PE)

Listed Accessory for use with ABB Busbar System type SMISSLINE TP

600VAC, 32A (Neutral only)

Torque:	1.2 Nm
Stripping length:	12 mm
Wire size:	14 AWG – 8 AWG
Wire rated min.:	600V and 75°C (AVLV2/8)

Busbar ZLS200, ZLS201E...

Rated Voltage:	600V AC
Rated Current:	125A

ZLS906	SMISSLINE TP Socket Base 6 Module
ZLS908	SMISSLINE TP Socket Base 8 Module
ZLS920	SMISSLINE TP Socket End Piece
ZLS926	Additional socket for external N and PE busbars (6 modules)
ZLS928	Additional socket for external N and PE busbars (8 modules)
ZLS100	Bus bar Cover
ZLS101	Extension Adapter
ZLS938	SMISSLINE TP Busbar Insulator
ZLS964	Dummy housing
ZLS917	Insulator block
ZLS927	Insulator block
ZLS725	Dummy housing

Listed Accessory for use with ABB Busbar System type SMISSLINE TP

Universal adapter 32A (ZLS970X, ZLS971X)

Rated Voltage:	600V AC
Rated Current:	32A
Short-circuit protection:	150A Fuse or 250A Circuit-Breaker (DIVQ/7)
	Listed Accessory for use with ABB Busbar System type SMISSLINE TP

Universal adapter 63A (ZLS9X, ZLS973X)

Rated Voltage:	600VAC
Rated Current:	63A
Short-circuit protection:	150A Fuse or 250A Circuit-Breaker (DIVQ/7)
	Listed Accessory for use with ABB Busbar System type SMISSLINE TP

Universal adapter UL489 (ZLS972X UL)

Circuit breaker accessories UL489

ZLS970UL, 971UL, 972UL or 973UL

Rated Voltage:	240VAC/277VAC/480VAC
Rated Current:	25A and 45A
Short-circuit protection:	150A Fuse or 250A Circuit-Breaker (DIVQ/7)
	Listed Accessory for use with ABB Busbar System type SMISSLINE TP

Combi Module 32A (ZMS132X, ZMS137)

Rated Voltage:	600VAC 32A
Short-circuit protection:	150A Fuse or 250A Circuit-Breaker (DIVQ/7)
	Listed Accessory for use with ABB Busbar System type SMISSLINE TP

Adapter MS/MO132/116 32A (ZMS930...938)

Listed Accessory for use with ABB Busbar System type SMISSLINE TP

Power supply for the busbar system

SMISSLINE TP for UL 508 – Industrial Control Equipment

—
01 Max. 250A Incoming
125A each side
600VAC

—
02 Max. 125A 600VAC

—
03 Max. 125A 600VAC

—
04 Max. 250A Incoming
125A each side
600VAC

—
05 Max. 125A 600VAC

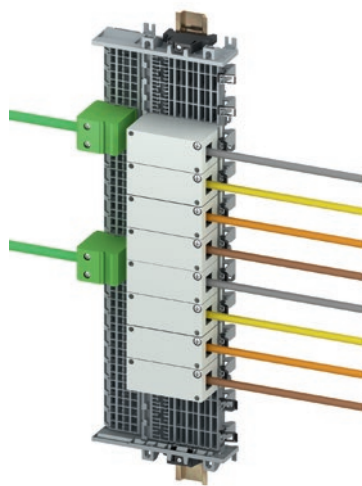
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06 Max. 125A 600VAC

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

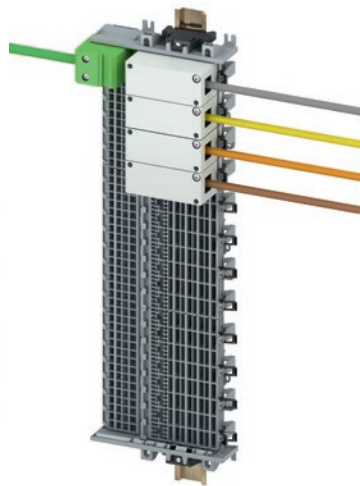
Rated voltage: 277Y/480V, 480V, 347Y/600V and 600V

Rated current: ZLS200 bus bar 125A

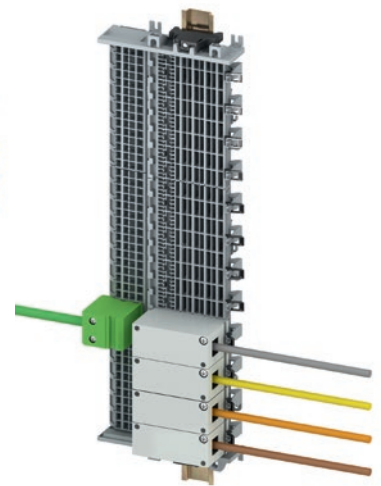
Maximum current for supply: 250A



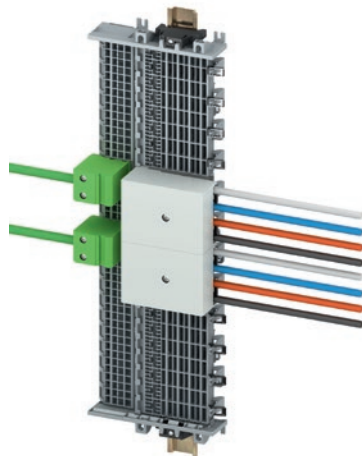
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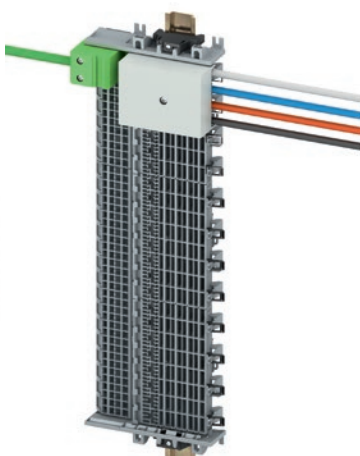
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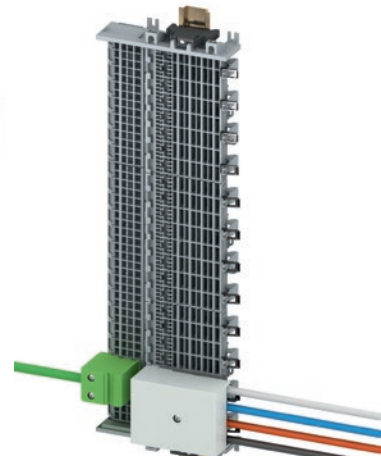
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06

Miniature Circuit Breaker SU200 M

Technical data

General Data		
Standards		UL 489, CSA 22.2 No. 5, IEC/EN 60947-2
Poles		1P, 2P, 3P, 4P
Tripping characteristics		C, K, Z
Rated current I_n		0.2 - 45 A
Rated frequency f		50 / 60 Hz, DC (0 Hz)
Rated insulation voltage U_i acc. to IEC/EN 60664-1		250 V AC (phase to ground), 440 V AC (phase to phase)
Overvoltage category		III
Pollution degree		3
IEC/EN 60947-2		
Rated operational voltage U_e		1P: 230 V AC; 2P, 3P, 4P: 400 V AC
Max. power frequency recovery voltage U_{max}	AC	1P: 253 V AC; 2P, 3P, 4P: 440 V AC
Min. operating voltage		12 V AC, 12 V DC
Rated ultimate short-circuit breaking capacity I_{cu}		15 kA
Rated service short-circuit breaking capacity I_{cs}		≤ 40 A: 11.25 kA > 40 A: 7.5 kA
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)		4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)
Dielectric test voltage		2 kV (50 / 60Hz, 1 min.)
Reference temperature for tripping characteristics		30 °C
Electrical endurance		$I_n < 30$ A: 20,000 ops (AC), $I_n \geq 30$ A: 10,000 ops. (AC); 1 cycle (2 s - ON, 13 s - OFF, $I_n \leq 32$ A), 1 cycle (2 s - ON, 28 s - OFF, $I_n > 32$ A)
UL / CSA		
Rated voltage	AC	1P: 277 V AC up to 40 A for C, Z char., 277 V AC up to 35 A for K char., 240 V AC
	AC	2P, 3P, 4P: 480 Y / 277 V AC up to 40 A for C, Z char., 480 Y / 277 V AC up to 35 A for K char., 240 V AC
	DC	1P: 48 V DC; 2P: 96 V DC (2p in series)
Rated interrupting capacity acc. to UL 1077		–
Short-circuit current rating acc. to UL 489		10 kA
Application		–
Reference temperature for tripping characteristics		40 °C
Electrical endurance		6,000 ops (AC), 6,000 ops. (DC); 1 cycle (1 s - ON, 9 s - OFF)
Mechanical data		
Housing		Insulation group II, RAL 7035
Toggle		Insulation group II, black, sealable
Contact position indication		Real CPI (green OFF / red ON)
Protection degree acc. to DIN EN 60529		IP20*, IP40 in enclosure with cover
Mechanical endurance		20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27		25 g - 2 shocks - 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6		5g - 20 cycles at 5...150...5 Hz with load 0.8 I_n
Environmental conditions (damp heat cyclic) acc. to IEC/EN 60068-2-30		28 cycles with 55°C/90-96% and 25°C/95-100%
Ambient temperature		-25 ... +55°C
Storage temperature		-40 ... +70 °C
Installation		
Terminal		Failsafe bi-directional cylinder-lift terminal
Cross-section of conductors (top/bottom)		solid, stranded: 35 mm ² / 35 mm ² flexible: 25 mm ² / 25 mm ²
		18 – 4 AWG
Cross-section of busbars (top/bottom)		10 mm ² / 10 mm ²
		18 – 8 AWG
Torque		2.8 Nm
		AWG 18-16: 13.3 in-lbs. AWG 14-10: 17.7 in-lbs. AWG 8-4: 39.8 in-lbs.
Screwdriver		No. 2 Pozidrive
Mounting		On DIN rail 35 mm acc. to EN 60715 by fast clip
Mounting position		any
Supply		optional
Dimensions and weight		
Mounting dimensions acc. to DIN 43880		Mounting dimension 3
Pole dimensions (H x D x W)		111 x 69 x 17.5 mm
Pole weight		approx. 125 g
Combination with auxiliary elements		
Auxiliary contact		Yes
Signal contact		Yes
Shunt trip		Yes



Miniature Circuit Breaker SU200 M

Current limiting – I_{peak} and I^2t values acc. to UL 489

Characteristic	Nominal current A	Voltage V	Current A	Power Factor	I_{Peak} kA	I^2t kA ² S
K	≤ 35	480Y/277	10000	0.45-0.5	9.5	80.0
	> 35	240	10000	0.45-0.5	8.0	110.0
C, Z	≤ 40	480Y/277	10000	0.45-0.5	9.5	80.0
	> 40	240	10000	0.45-0.5	8.0	110.0

Approvals and standards

SMISSLINE dimensions (in mm)

Approvals and standards

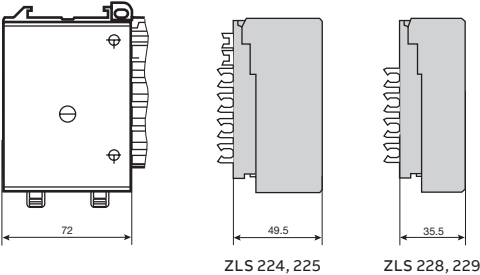
	UL US LISTED	UL listed circuit breaker accessories	IEC/EN 61439-6
Socket bases ZLS906/908	●		●
Bus Bar ZLS200	●		●
Bus Bar Cover ZLS100	●		●
Extension Adapter ZLS101	●		●
Socket End Piece ZLS920	●		●
Incoming terminal blocks ZLS224/225	●		●
Incoming terminal component ZLS250-253	●		●
Bus bar Insulator ZLS938	●		●
Universal adapter UL489 25 A and 45 A (ZLS972X UL)		●	●
Universal Adapter 32 A and 63 A (not for UL489)	●		●

● Approved

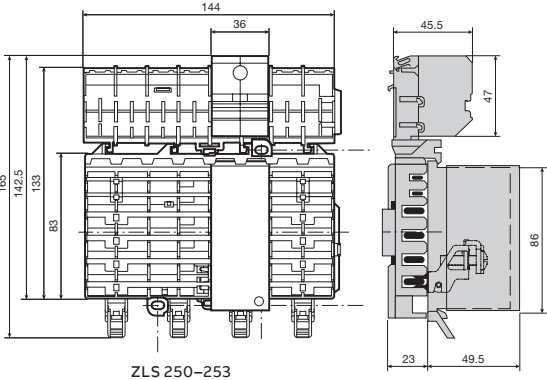
01 Incoming terminal
blocks 100 A/160 A

02 Incoming terminal
component 200 A

SMISSLINE dimensions (in mm)



01



02



User Instructions

Products in this catalogue comply with the relevant standards as stated, and should always be installed in accordance with the requirements of relevant regulations, standards and legislation.

Hazard of electric shock, injury, burn or explosion

- Make sure ALL electrical power supplies are “OFF” before installing or removing any devices or busbars.
- The Plug-in socket system MUST be installed and serviced by QUALIFIED personnel.
- Always use properly rated voltage sensing device to confirm the power is off.
- All devices, doors and covers must be replaced before switching on the power to this equipment

Hazard of equipment damage

- Use only material manufactured by ABB
- Not following these instructions might result in severe injuries or death or equipment damage.
This product is NOT suitable for use in installation equipment any other than the SMISLINE SYSTEM.
- ABB doesn't assume responsibility for any consequences arising out of the use of this equipment

These instructions do not cover all details or variations in equipment, nor do they provide for every possible contingency that may be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to ABB.

- See also user manual delivered with the product.