PATRZ KARTA - PLSM-B16-MW

Wyłącznik nadprądowy 1-bieg

Typ	**PLSM-B16-MW**
Catalog No.	**242180**

Powering Business Worldwide™

Program dostaw

Funkcja podstawowa			wyłącznik ochronny
Bieguny			1-biegunowy
Rodzaj wyzwolenia			B
Aplikacja			Aparaty łączeniowe do budynków mieszkalnych i funkcjonalnych
Prąd znamionowy	I_n	A	16
Znamionowa zdolność łączenia według IEC/EN 60898-1		kA	10
Asortyment			PLSM

Świadectwo typu zgodnie z IEC/EN 61439

Dane techniczne dla zaświadczenia rodzaju konstrukcji			
Znamionowy prąd pracy do podania straty mocy	I_n	A	16
Strata mocy na biegun, w zależności od prądu	P_{vid}	W	0
Strata mocy elementu eksploatacyjnego, w zależności od prądu	P_{vid}	W	2.2
Strata mocy statyczna, niezależnie od prądu	P_{vs}	W	0
Zdolność oddawania straty mocy	P_{ve}	W	0
Robocza temperatura otoczenia min.		°C	-25
Robocza temperatura otoczenia maks.		°C	75
			liniowo na +1°C, co prowadzi do zmniejszenia obciążalności prądem o 0,5%
Certyfikat konstrukcji IEC/EN 61439			
10.2 Wytrzymałość materiałów i części			
10.2.2 Odporność na korozję			Wymagania odnośnie normy produktowej zostały spełnione.
10.2.3.1 Wytrzymałość cieplna powłoki			Wymagania odnośnie normy produktowej zostały spełnione.
10.2.3.2 Rezystancja materiału izolacyjnego przy normalnym cieple			Wymagania odnośnie normy produktowej zostały spełnione.
10.2.3.3 Rezystancja materiału izolacyjnego przy nietypowym cieple			Wymagania odnośnie normy produktowej zostały spełnione.
10.2.4 Wytrzymałość na działanie promieniowania UV			Wymagania odnośnie normy produktowej zostały spełnione.
10.2.5 Podnoszenie			Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą.
10.2.6 Kontrola odporności na uderzenia			Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą.
10.2.7 Napisy			Wymagania odnośnie normy produktowej zostały spełnione.
10.3 Stopień ochrony powłok			Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą.
10.4 Odstępy izolacyjne powietrzne i prądów pełzających			Wymagania odnośnie normy produktowej zostały spełnione.
10.5 Ochrona przed porażeniem elektrycznym			Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą.
10.6 Montaż elementów eksploatacyjnych			Nie dotyczy, ponieważ należy ocenić całą szafę sterowniczą.
10.7 Wewnętrzne obwody prądowe i połączenia			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.
10.8 Przyłącza przewodów wchodzących z zewnątrz			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.
10.9 Właściwości izolacji			
10.9.2 Wytrzymałość elektryczna o częstotliwości roboczej			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.
10.9.3 Odporność na napięcie udarowe			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.
10.9.4 Sprawdzanie powłok z materiału izolacyjnego			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej.
10.10 Nagrzanie			Oszacowanie nagrzania należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej. Eator dostarczy danych na temat straty mocy aparatów.
10.11 Odporność na zwarcia			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej. Przestrzegać wytycznych odnośnie aparatów łączeniowych.
10.12 Kompatybilność elektromagnetyczna			Należy do zakresu odpowiedzialności wykonawcy szafy sterowniczej. Przestrzegać wytycznych odnośnie aparatów łączeniowych.

10.13 Działanie mechaniczne			Spełnienie wymagań w aparacie jest jednoznaczne z przestrzeganiem instrukcji montażu (IL).

Dane techniczne zgodne z ETIM 6.0

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)			
Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])			
Release characteristic			B
Number of poles (total)			1
Number of protected poles			1
Nominal rated current		A	16
Nominal rated voltage		V	230
Rated short-circuit breaking capacity Icn EN 60898 at 230 V		kA	10
Rated short-circuit breaking capacity Icn EN 60898 at 400 V		kA	10
Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V		kA	0
Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V		kA	0
Voltage type			AC
Current limiting class			3
Frequency		Hz	50 - 60
Concurrently switching N-neutral			No
Suitable for flush-mounted installation			No
Over voltage category			3
Pollution degree			2
Width in number of modular spacings			1
Built-in depth		mm	70.5
Additional equipment possible			Yes
Degree of protection (IP)			IP20

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Miniature Circuit Breakers PLSM, PLZM MW

- High-quality miniature circuit breakers for commercial and residential applications
- Contact position indicator red - green
- Guide for secure terminal connection
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories suitable for subsequent installation
- Rated currents up to 63 A
- Tripping characteristics B, C, D
- Rated breaking capacity 10 kA according to IEC/EN 60898-1

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Miniature Circuit Breakers PLSM, PLZM — MW

10 kA, Characteristic B

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Rated current I_n (A)	Type Designation	Article No.	Units per package
1-pole			
1	PLSM-B1	242165	12 / 120
1.5	PLSM-B1,5	242166	12 / 120
1.6	PLSM-B1,6	242167	12 / 120
2	PLSM-B2	242168	12 / 120
2.5	PLSM-B2,5	242169	12 / 120
3	PLSM-B3	242170	12 / 120
3.5	PLSM-B3,5	242171	12 / 120
4	PLSM-B4	242172	12 / 120
5	PLSM-B5	242173	12 / 120
6	PLSM-B6	242174	12 / 120
8	PLSM-B8	242175	12 / 120
10	PLSM-B10	242176	12 / 120
12	PLSM-B12	242177	12 / 120
13	PLSM-B13	242178	12 / 120
15	PLSM-B15	242179	12 / 120
16	PLSM-B16	242180	12 / 120
20	PLSM-B20	242181	12 / 120
25	PLSM-B25	242182	12 / 120
32	PLSM-B32	242183	12 / 120
40	PLSM-B40	242184	12 / 120
50	PLSM-B50	242185	12 / 120
63	PLSM-B63	242186	12 / 120

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1+N-pole, 1.5 Module Units (MU)			
1	PLSM-B1/1N	242234	8 / 80
1.5	PLSM-B1,5/1N	242235	8 / 80
1.6	PLSM-B1,6/1N	242236	8 / 80
2	PLSM-B2/1N	242237	8 / 80
2.5	PLSM-B2,5/1N	242238	8 / 80
3	PLSM-B3/1N	242239	8 / 80
3.5	PLSM-B3,5/1N	242240	8 / 80
4	PLSM-B4/1N	242241	8 / 80
5	PLSM-B5/1N	242242	8 / 80
6	PLSM-B6/1N	242243	8 / 80
8	PLSM-B8/1N	242244	8 / 80
10	PLSM-B10/1N	242245	8 / 80
12	PLSM-B12/1N	242246	8 / 80
13	PLSM-B13/1N	242247	8 / 80
15	PLSM-B15/1N	242248	8 / 80
16	PLSM-B16/1N	242249	8 / 80
20	PLSM-B20/1N	242250	8 / 80
25	PLSM-B25/1N	242251	8 / 80
32	PLSM-B32/1N	242252	8 / 80

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1+N-pole, 2 Module Units (MU)			
1	PLZM-B1/1N	242295	1 / 60
1.5	PLZM-B1,5/1N	242296	1 / 60
1.6	PLZM-B1,6/1N	242297	1 / 60
2	PLZM-B2/1N	242298	1 / 60
2.5	PLZM-B2,5/1N	242299	1 / 60
3	PLZM-B3/1N	242300	1 / 60
3.5	PLZM-B3,5/1N	242301	1 / 60
4	PLZM-B4/1N	242302	1 / 60
5	PLZM-B5/1N	242303	1 / 60
6	PLZM-B6/1N	242304	1 / 60
8	PLZM-B8/1N	242305	1 / 60
10	PLZM-B10/1N	242306	1 / 60
12	PLZM-B12/1N	242307	1 / 60
13	PLZM-B13/1N	242308	1 / 60
15	PLZM-B15/1N	242309	1 / 60
16	PLZM-B16/1N	242310	1 / 60
20	PLZM-B20/1N	242311	1 / 60
25	PLZM-B25/1N	242312	1 / 60
32	PLZM-B32/1N	242313	1 / 60
40	PLZM-B40/1N	242314	1 / 60
50	PLZM-B50/1N	242315	1 / 60
63	PLZM-B63/1N	242316	1 / 60

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

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Rated current I_n (A)	Type Designation	Article No.	Units per package
2-pole			
1	PLSM-B1/2	242364	1 / 60
1.5	PLSM-B1,5/2	242365	1 / 60
1.6	PLSM-B1,6/2	242366	1 / 60
2	PLSM-B2/2	242367	1 / 60
2.5	PLSM-B2,5/2	242368	1 / 60
3	PLSM-B3/2	242369	1 / 60
3.5	PLSM-B3,5/2	242370	1 / 60
4	PLSM-B4/2	242371	1 / 60
5	PLSM-B5/2	242372	1 / 60
6	PLSM-B6/2	242373	1 / 60
8	PLSM-B8/2	242374	1 / 60
10	PLSM-B10/2	242375	1 / 60
12	PLSM-B12/2	242376	1 / 60
13	PLSM-B13/2	242377	1 / 60
15	PLSM-B15/2	242378	1 / 60
16	PLSM-B16/2	242379	1 / 60
20	PLSM-B20/2	242380	1 / 60
25	PLSM-B25/2	242381	1 / 60
32	PLSM-B32/2	242382	1 / 60
40	PLSM-B40/2	242383	1 / 60
50	PLSM-B50/2	242384	1 / 60
63	PLSM-B63/2	242385	1 / 60
3-pole			
1	PLSM-B1/3	242433	1 / 40
1.5	PLSM-B1,5/3	242434	1 / 40
1.6	PLSM-B1,6/3	242435	1 / 40
2	PLSM-B2/3	242436	1 / 40
2.5	PLSM-B2,5/3	242437	1 / 40
3	PLSM-B3/3	242438	1 / 40
3.5	PLSM-B3,5/3	242439	1 / 40
4	PLSM-B4/3	242440	1 / 40
5	PLSM-B5/3	242441	1 / 40
6	PLSM-B6/3	242442	1 / 40
8	PLSM-B8/3	242443	1 / 40
10	PLSM-B10/3	242444	1 / 40
12	PLSM-B12/3	242445	1 / 40
13	PLSM-B13/3	242446	1 / 40
15	PLSM-B15/3	242447	1 / 40
16	PLSM-B16/3	242448	1 / 40
20	PLSM-B20/3	242449	1 / 40
25	PLSM-B25/3	242450	1 / 40
32	PLSM-B32/3	242451	1 / 40
40	PLSM-B40/3	242452	1 / 40
50	PLSM-B50/3	242453	1 / 40
63	PLSM-B63/3	242454	1 / 40
3+N-pole			
1	PLSM-B1/3N	242502	1 / 30
1.5	PLSM-B1,5/3N	242503	1 / 30
1.6	PLSM-B1,6/3N	242504	1 / 30
2	PLSM-B2/3N	242505	1 / 30
2.5	PLSM-B2,5/3N	242506	1 / 30
3	PLSM-B3/3N	242507	1 / 30
3.5	PLSM-B3,5/3N	242508	1 / 30
4	PLSM-B4/3N	242509	1 / 30
5	PLSM-B5/3N	242510	1 / 30
6	PLSM-B6/3N	242511	1 / 30
8	PLSM-B8/3N	242512	1 / 30
10	PLSM-B10/3N	242513	1 / 30
12	PLSM-B12/3N	242514	1 / 30
13	PLSM-B13/3N	242515	1 / 30
15	PLSM-B15/3N	242516	1 / 30
16	PLSM-B16/3N	242517	1 / 30
20	PLSM-B20/3N	242518	1 / 30
25	PLSM-B25/3N	242519	1 / 30
32	PLSM-B32/3N	242520	1 / 30
40	PLSM-B40/3N	242521	1 / 30
50	PLSM-B50/3N	242522	1 / 30
63	PLSM-B63/3N	242523	1 / 30

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

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Rated current I_n (A)	Type Designation	Article No.	Units per package
4-pole			
1	PLSM-B1/4	242571	1 / 30
1.5	PLSM-B1,5/4	242572	1 / 30
1.6	PLSM-B1,6/4	242573	1 / 30
2	PLSM-B2/4	242574	1 / 30
2.5	PLSM-B2,5/4	242575	1 / 30
3	PLSM-B3/4	242576	1 / 30
3.5	PLSM-B3,5/4	242577	1 / 30
4	PLSM-B4/4	242578	1 / 30
5	PLSM-B5/4	242579	1 / 30
6	PLSM-B6/4	242580	1 / 30
8	PLSM-B8/4	242581	1 / 30
10	PLSM-B10/4	242582	1 / 30
12	PLSM-B12/4	242583	1 / 30
13	PLSM-B13/4	242584	1 / 30
15	PLSM-B15/4	242585	1 / 30
16	PLSM-B16/4	242586	1 / 30
20	PLSM-B20/4	242587	1 / 30
25	PLSM-B25/4	242588	1 / 30
32	PLSM-B32/4	242589	1 / 30
40	PLSM-B40/4	242590	1 / 30
50	PLSM-B50/4	242591	1 / 30
63	PLSM-B63/4	242592	1 / 30

Miniature Circuit Breakers PLSM, PLZM MW

10 kA, Characteristic C

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Rated current I_n (A)	Type Designation	Article No.	Units per package
1-pole			
0.16	PLSM-C0,16	242187	12 / 120
0.25	PLSM-C0,25	242188	12 / 120
0.5	PLSM-C0,5	242190	12 / 120
0.75	PLSM-C0,75	242189	12 / 120
1	PLSM-C1	242191	12 / 120
1.5	PLSM-C1,5	242192	12 / 120
1.6	PLSM-C1,6	242193	12 / 120
2	PLSM-C2	242194	12 / 120
2.5	PLSM-C2,5	242195	12 / 120
3	PLSM-C3	242196	12 / 120
3.5	PLSM-C3,5	242197	12 / 120
4	PLSM-C4	242198	12 / 120
5	PLSM-C5	242199	12 / 120
6	PLSM-C6	242200	12 / 120
8	PLSM-C8	242201	12 / 120
10	PLSM-C10	242202	12 / 120
12	PLSM-C12	242203	12 / 120
13	PLSM-C13	242204	12 / 120
15	PLSM-C15	242205	12 / 120
16	PLSM-C16	242206	12 / 120
20	PLSM-C20	242207	12 / 120
25	PLSM-C25	242208	12 / 120
32	PLSM-C32	242209	12 / 120
40	PLSM-C40	242210	12 / 120
50	PLSM-C50	242211	12 / 120
63	PLSM-C63	242212	12 / 120

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Rated current I_n (A)	Type Designation	Article No.	Units per package
1+N-pole, 1.5 MU			
0.16	PLSM-C0,16/1N	242253	8 / 80
0.25	PLSM-C0,25/1N	242254	8 / 80
0.5	PLSM-C0,5/1N	242256	8 / 80
0.75	PLSM-C0,75/1N	242255	8 / 80
1	PLSM-C1/1N	242257	8 / 80
1.5	PLSM-C1,5/1N	242258	8 / 80
1.6	PLSM-C1,6/1N	242259	8 / 80
2	PLSM-C2/1N	242260	8 / 80
2.5	PLSM-C2,5/1N	242261	8 / 80
3	PLSM-C3/1N	242262	8 / 80
3.5	PLSM-C3,5/1N	242263	8 / 80
4	PLSM-C4/1N	242264	8 / 80
5	PLSM-C5/1N	242265	8 / 80
6	PLSM-C6/1N	242266	8 / 80
8	PLSM-C8/1N	242267	8 / 80
10	PLSM-C10/1N	242268	8 / 80
12	PLSM-C12/1N	242269	8 / 80
13	PLSM-C13/1N	242270	8 / 80
15	PLSM-C15/1N	242271	8 / 80
16	PLSM-C16/1N	242272	8 / 80
20	PLSM-C20/1N	242273	8 / 80
25	PLSM-C25/1N	242274	8 / 80
32	PLSM-C32/1N	242275	8 / 80

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1+N-pole, 2 MU			
0.16	PLZM-C0,16/1N	242317	1 / 60
0.25	PLZM-C0,25/1N	242318	1 / 60
0.5	PLZM-C0,5/1N	242320	1 / 60
0.75	PLZM-C0,75/1N	242319	1 / 60
1	PLZM-C1/1N	242321	1 / 60
1.5	PLZM-C1,5/1N	242322	1 / 60
1.6	PLZM-C1,6/1N	242323	1 / 60
2	PLZM-C2/1N	242324	1 / 60
2.5	PLZM-C2,5/1N	242325	1 / 60
3	PLZM-C3/1N	242326	1 / 60
3.5	PLZM-C3,5/1N	242327	1 / 60
4	PLZM-C4/1N	242328	1 / 60
5	PLZM-C5/1N	242329	1 / 60
6	PLZM-C6/1N	242330	1 / 60
8	PLZM-C8/1N	242331	1 / 60
10	PLZM-C10/1N	242332	1 / 60
12	PLZM-C12/1N	242333	1 / 60
13	PLZM-C13/1N	242334	1 / 60
15	PLZM-C15/1N	242335	1 / 60
16	PLZM-C16/1N	242336	1 / 60
20	PLZM-C20/1N	242337	1 / 60
25	PLZM-C25/1N	242338	1 / 60
32	PLZM-C32/1N	242339	1 / 60
40	PLZM-C40/1N	242340	1 / 60
50	PLZM-C50/1N	242341	1 / 60
63	PLZM-C63/1N	242342	1 / 60

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

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Rated current I_n (A)	Type Designation	Article No.	Units per package
2-pole			
0.16	PLSM-C0,16/2	242386	1 / 60
0.25	PLSM-C0,25/2	242387	1 / 60
0.5	PLSM-C0,5/2	242389	1 / 60
0.75	PLSM-C0,75/2	242388	1 / 60
1	PLSM-C1/2	242390	1 / 60
1.5	PLSM-C1,5/2	242391	1 / 60
1.6	PLSM-C1,6/2	242392	1 / 60
2	PLSM-C2/2	242393	1 / 60
2.5	PLSM-C2,5/2	242394	1 / 60
3	PLSM-C3/2	242395	1 / 60
3.5	PLSM-C3,5/2	242396	1 / 60
4	PLSM-C4/2	242397	1 / 60
5	PLSM-C5/2	242398	1 / 60
6	PLSM-C6/2	242399	1 / 60
8	PLSM-C8/2	242400	1 / 60
10	PLSM-C10/2	242401	1 / 60
12	PLSM-C12/2	242402	1 / 60
13	PLSM-C13/2	242403	1 / 60
15	PLSM-C15/2	242404	1 / 60
16	PLSM-C16/2	242405	1 / 60
20	PLSM-C20/2	242406	1 / 60
25	PLSM-C25/2	242407	1 / 60
32	PLSM-C32/2	242408	1 / 60
40	PLSM-C40/2	242409	1 / 60
50	PLSM-C50/2	242410	1 / 60
63	PLSM-C63/2	242411	1 / 60
3-pole			
0.16	PLSM-C0,16/3	242455	1 / 40
0.25	PLSM-C0,25/3	242456	1 / 40
0.5	PLSM-C0,5/3	242458	1 / 40
0.75	PLSM-C0,75/3	242457	1 / 40
1	PLSM-C1/3	242459	1 / 40
1.5	PLSM-C1,5/3	242460	1 / 40
1.6	PLSM-C1,6/3	242461	1 / 40
2	PLSM-C2/3	242462	1 / 40
2.5	PLSM-C2,5/3	242463	1 / 40
3	PLSM-C3/3	242464	1 / 40
3.5	PLSM-C3,5/3	242465	1 / 40
4	PLSM-C4/3	242466	1 / 40
5	PLSM-C5/3	242467	1 / 40
6	PLSM-C6/3	242468	1 / 40
8	PLSM-C8/3	242469	1 / 40
10	PLSM-C10/3	242470	1 / 40
12	PLSM-C12/3	242471	1 / 40
13	PLSM-C13/3	242472	1 / 40
15	PLSM-C15/3	242473	1 / 40
16	PLSM-C16/3	242474	1 / 40
20	PLSM-C20/3	242475	1 / 40
25	PLSM-C25/3	242476	1 / 40
32	PLSM-C32/3	242477	1 / 40
40	PLSM-C40/3	242478	1 / 40
50	PLSM-C50/3	242479	1 / 40
63	PLSM-C63/3	242480	1 / 40

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

SG65611

SG67811

Rated current I_n (A)	Type Designation	Article No.	Units per package
3+N-pole			
0.16	PLSM-C0,16/3N	242524	1 / 30
0.25	PLSM-C0,25/3N	242525	1 / 30
0.5	PLSM-C0,5/3N	242527	1 / 30
0.75	PLSM-C0,75/3N	242526	1 / 30
1	PLSM-C1/3N	242528	1 / 30
1.5	PLSM-C1,5/3N	242529	1 / 30
1.6	PLSM-C1,6/3N	242530	1 / 30
2	PLSM-C2/3N	242531	1 / 30
2.5	PLSM-C2,5/3N	242532	1 / 30
3	PLSM-C3/3N	242533	1 / 30
3.5	PLSM-C3,5/3N	242534	1 / 30
4	PLSM-C4/3N	242535	1 / 30
5	PLSM-C5/3N	242536	1 / 30
6	PLSM-C6/3N	242537	1 / 30
8	PLSM-C8/3N	242538	1 / 30
10	PLSM-C10/3N	242539	1 / 30
12	PLSM-C12/3N	242540	1 / 30
13	PLSM-C13/3N	242541	1 / 30
15	PLSM-C15/3N	242542	1 / 30
16	PLSM-C16/3N	242543	1 / 30
20	PLSM-C20/3N	242544	1 / 30
25	PLSM-C25/3N	242545	1 / 30
32	PLSM-C32/3N	242546	1 / 30
40	PLSM-C40/3N	242547	1 / 30
50	PLSM-C50/3N	242548	1 / 30
63	PLSM-C63/3N	242549	1 / 30
4-pole			
0.16	PLSM-C0,16/4	242593	1 / 30
0.25	PLSM-C0,25/4	242594	1 / 30
0.5	PLSM-C0,5/4	242596	1 / 30
0.75	PLSM-C0,75/4	242595	1 / 30
1	PLSM-C1/4	242597	1 / 30
1.5	PLSM-C1,5/4	242598	1 / 30
1.6	PLSM-C1,6/4	242599	1 / 30
2	PLSM-C2/4	242600	1 / 30
2.5	PLSM-C2,5/4	242601	1 / 30
3	PLSM-C3/4	242602	1 / 30
3.5	PLSM-C3,5/4	242603	1 / 30
4	PLSM-C4/4	242604	1 / 30
5	PLSM-C5/4	242605	1 / 30
6	PLSM-C6/4	242606	1 / 30
8	PLSM-C8/4	242607	1 / 30
10	PLSM-C10/4	242608	1 / 30
12	PLSM-C12/4	242609	1 / 30
13	PLSM-C13/4	242610	1 / 30
15	PLSM-C15/4	242611	1 / 30
16	PLSM-C16/4	242612	1 / 30
20	PLSM-C20/4	242613	1 / 30
25	PLSM-C25/4	242614	1 / 30
32	PLSM-C32/4	242615	1 / 30
40	PLSM-C40/4	242616	1 / 30
50	PLSM-C50/4	242617	1 / 30
63	PLSM-C63/4	242618	1 / 30

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

Miniature Circuit Breakers PLSM, PLZM — MW

10 kA, Characteristic D

SG48411

Rated current I_n (A)	Type Designation	Article No.	Units per package
1-pole			
0.5	PLSM-D0,5	242213	12 / 120
1	PLSM-D1	242214	12 / 120
1.5	PLSM-D1,5	242215	12 / 120
1.6	PLSM-D1,6	242216	12 / 120
2	PLSM-D2	242217	12 / 120
2.5	PLSM-D2,5	242218	12 / 120
3	PLSM-D3	242219	12 / 120
3.5	PLSM-D3,5	242220	12 / 120
4	PLSM-D4	242221	12 / 120
5	PLSM-D5	242222	12 / 120
6	PLSM-D6	242223	12 / 120
8	PLSM-D8	242224	12 / 120
10	PLSM-D10	242225	12 / 120
12	PLSM-D12	242226	12 / 120
13	PLSM-D13	242227	12 / 120
15	PLSM-D15	242228	12 / 120
16	PLSM-D16	242229	12 / 120
20	PLSM-D20	242230	12 / 120
25	PLSM-D25	242231	12 / 120
32	PLSM-D32	242232	12 / 120
40	PLSM-D40	242233	12 / 120

SG49211

1+N-pole, 1.5 MU			
0.5	PLSM-D0,5/1N	242276	8 / 80
1	PLSM-D1/1N	242277	8 / 80
1.5	PLSM-D1,5/1N	242278	8 / 80
1.6	PLSM-D1,6/1N	242279	8 / 80
2	PLSM-D2/1N	242280	8 / 80
2.5	PLSM-D2,5/1N	242281	8 / 80
3	PLSM-D3/1N	242282	8 / 80
3.5	PLSM-D3,5/1N	242283	8 / 80
4	PLSM-D4/1N	242284	8 / 80
5	PLSM-D5/1N	242285	8 / 80
6	PLSM-D6/1N	242286	8 / 80
8	PLSM-D8/1N	242287	8 / 80
10	PLSM-D10/1N	242288	8 / 80
12	PLSM-D12/1N	242289	8 / 80
13	PLSM-D13/1N	242290	8 / 80
15	PLSM-D15/1N	242291	8 / 80
16	PLSM-D16/1N	242292	8 / 80
20	PLSM-D20/1N	242293	8 / 80
25	PLSM-D25/1N	242294	8 / 80

SG52711

1+N-pole, 2 MU			
0.5	PLZM-D0,5/1N	242343	1 / 60
1	PLZM-D1/1N	242344	1 / 60
1.5	PLZM-D1,5/1N	242345	1 / 60
1.6	PLZM-D1,6/1N	242346	1 / 60
2	PLZM-D2/1N	242347	1 / 60
2.5	PLZM-D2,5/1N	242348	1 / 60
3	PLZM-D3/1N	242349	1 / 60
3.5	PLZM-D3,5/1N	242350	1 / 60
4	PLZM-D4/1N	242351	1 / 60
5	PLZM-D5/1N	242352	1 / 60
6	PLZM-D6/1N	242353	1 / 60
8	PLZM-D8/1N	242354	1 / 60
10	PLZM-D10/1N	242355	1 / 60
12	PLZM-D12/1N	242356	1 / 60
13	PLZM-D13/1N	242357	1 / 60
15	PLZM-D15/1N	242358	1 / 60
16	PLZM-D16/1N	242359	1 / 60
20	PLZM-D20/1N	242360	1 / 60
25	PLZM-D25/1N	242361	1 / 60
32	PLZM-D32/1N	242362	1 / 60
40	PLZM-D40/1N	242363	1 / 60

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

SG54811

SG63111

SG65611

Rated current I_n (A)	Type Designation	Article No.	Units per package
2-pole			
0.5	PLSM-D0,5/2	242412	1 / 60
1	PLSM-D1/2	242413	1 / 60
1.5	PLSM-D1,5/2	242414	1 / 60
1.6	PLSM-D1,6/2	242415	1 / 60
2	PLSM-D2/2	242416	1 / 60
2.5	PLSM-D2,5/2	242417	1 / 60
3	PLSM-D3/2	242418	1 / 60
3.5	PLSM-D3,5/2	242419	1 / 60
4	PLSM-D4/2	242420	1 / 60
5	PLSM-D5/2	242421	1 / 60
6	PLSM-D6/2	242422	1 / 60
8	PLSM-D8/2	242423	1 / 60
10	PLSM-D10/2	242424	1 / 60
12	PLSM-D12/2	242425	1 / 60
13	PLSM-D13/2	242426	1 / 60
15	PLSM-D15/2	242427	1 / 60
16	PLSM-D16/2	242428	1 / 60
20	PLSM-D20/2	242429	1 / 60
25	PLSM-D25/2	242430	1 / 60
32	PLSM-D32/2	242431	1 / 60
40	PLSM-D40/2	242432	1 / 60
3-pole			
0.5	PLSM-D0,5/3	242481	1 / 40
1	PLSM-D1/3	242482	1 / 40
1.5	PLSM-D1,5/3	242483	1 / 40
1.6	PLSM-D1,6/3	242484	1 / 40
2	PLSM-D2/3	242485	1 / 40
2.5	PLSM-D2,5/3	242486	1 / 40
3	PLSM-D3/3	242487	1 / 40
3.5	PLSM-D3,5/3	242488	1 / 40
4	PLSM-D4/3	242489	1 / 40
5	PLSM-D5/3	242490	1 / 40
6	PLSM-D6/3	242491	1 / 40
8	PLSM-D8/3	242492	1 / 40
10	PLSM-D10/3	242493	1 / 40
12	PLSM-D12/3	242494	1 / 40
13	PLSM-D13/3	242495	1 / 40
15	PLSM-D15/3	242496	1 / 40
16	PLSM-D16/3	242497	1 / 40
20	PLSM-D20/3	242498	1 / 40
25	PLSM-D25/3	242499	1 / 40
32	PLSM-D32/3	242500	1 / 40
40	PLSM-D40/3	242501	1 / 40
3+N-pole			
0.5	PLSM-D0,5/3N	242550	1 / 30
1	PLSM-D1/3N	242551	1 / 30
1.5	PLSM-D1,5/3N	242552	1 / 30
1.6	PLSM-D1,6/3N	242553	1 / 30
2	PLSM-D2/3N	242554	1 / 30
2.5	PLSM-D2,5/3N	242555	1 / 30
3	PLSM-D3/3N	242556	1 / 30
3.5	PLSM-D3,5/3N	242557	1 / 30
4	PLSM-D4/3N	242558	1 / 30
5	PLSM-D5/3N	242559	1 / 30
6	PLSM-D6/3N	242560	1 / 30
8	PLSM-D8/3N	242561	1 / 30
10	PLSM-D10/3N	242562	1 / 30
12	PLSM-D12/3N	242563	1 / 30
13	PLSM-D13/3N	242564	1 / 30
15	PLSM-D15/3N	242565	1 / 30
16	PLSM-D16/3N	242566	1 / 30
20	PLSM-D20/3N	242567	1 / 30
25	PLSM-D25/3N	242568	1 / 30
32	PLSM-D32/3N	242569	1 / 30
40	PLSM-D40/3N	242570	1 / 30

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

SG67811

Rated current I_n (A)	Type Designation	Article No.	Units per package
4-pole			
0.5	PLSM-D0,5/4	242619	1 / 30
1	PLSM-D1/4	242620	1 / 30
1.5	PLSM-D1,5/4	242621	1 / 30
1.6	PLSM-D1,6/4	242622	1 / 30
2	PLSM-D2/4	242623	1 / 30
2.5	PLSM-D2,5/4	242624	1 / 30
3	PLSM-D3/4	242625	1 / 30
3.5	PLSM-D3,5/4	242626	1 / 30
4	PLSM-D4/4	242627	1 / 30
5	PLSM-D5/4	242628	1 / 30
6	PLSM-D6/4	242629	1 / 30
8	PLSM-D8/4	242630	1 / 30
10	PLSM-D10/4	242631	1 / 30
12	PLSM-D12/4	242632	1 / 30
13	PLSM-D13/4	242633	1 / 30
15	PLSM-D15/4	242634	1 / 30
16	PLSM-D16/4	242635	1 / 30
20	PLSM-D20/4	242636	1 / 30
25	PLSM-D25/4	242637	1 / 30
32	PLSM-D32/4	242638	1 / 30
40	PLSM-D40/4	242639	1 / 30

Explanation PLSM:
P = XPole, LS = MCB, M = 10 kA

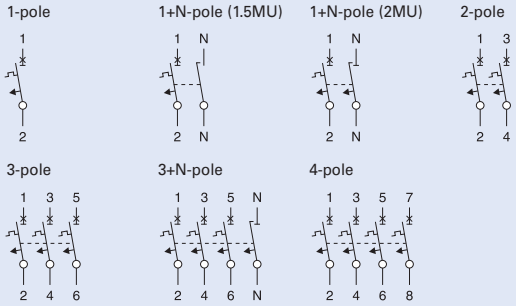
Miniature Circuit Breakers PLS..., PLZ...

- High selectivity between MCB and back-up fuse due to low let-through energy
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Meets the requirements of insulation co-ordination, distance between contacts ≥ 4 mm, for secure isolation
- Suitable for applications up to 48 V DC (use PLS6-DC for higher DC voltages)

Accessories:

Auxiliary switch for subsequent installation	ZP-IHK	286052
Tripping signal contact for subsequent installation	ZP-NHK	248437
Remote control and automatic switching device	Z-FW/LP	248296
Shunt trip release	ZP-ASA/..	248438, 248439
Undervoltage release	Z-USA/..	248288-248291
Compact enclosure	KLV-TC-2	276240
	KLV-TC-4	276241
Additional terminal 35mm²	Z-HA-EK/35	263960
Switching interlock	Z-IS/SPE-1TE	274418

Connection diagrams

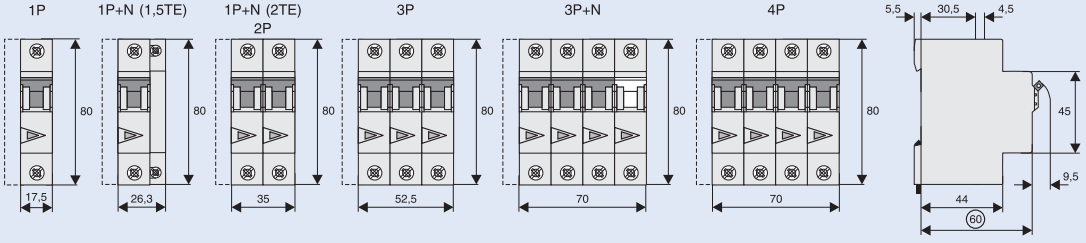


Technical Data

Electrical	
Design according to	IEC/EN 60898-1
Current test marks as printed onto the device	
Rated voltage	AC: 230/400V DC: 48V (per pole, max. 2 poles)
Rated frequency	50/60 Hz
Rated breaking capacity according to IEC/EN 60898-1	
PLSM, PLZM	10 kA
PLS6, PLZ6	6 kA
PLS4, PLZ4	4.5 kA
Characteristic	B, C, D
Back-up fuse	
PLSM	max. 125 A gL
PLS6	max. 100 A gL
PLS4	max. 80 A gL
Selectivity class	3
Rated peak withstand voltage U_{imp}	4 kV (1.2/50µs)
Endurance electrical comp.	≥ 4,000 operating cycles
mechanical comp.	≥ 20,000 operating cycles
Line voltage connection	optional (above/below)

Mechanical	
Frame size	45 mm
Device height	80 mm
Device width	17.5 mm per pole (1MU) 26.3 mm: device 1P+N (1.5MU)
Mounting	quick fastening with 3 lock-in positions on DIN rail IEC/EN 60715
Degree of protection	IP20
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity (1p+N, 1.5MU)	1-25 mm² 1-25 mm² / 1-2x10 mm² (N)
Terminal fastening torque (1p+N, 1.5MU)	2-2.4 Nm 2-2.4 Nm / 1,2-1,5 Nm (N)
Busbar thickness	0.8 - 2 mm (except N 0.5 MU)
Mounting	independent of position

Dimensions (mm)



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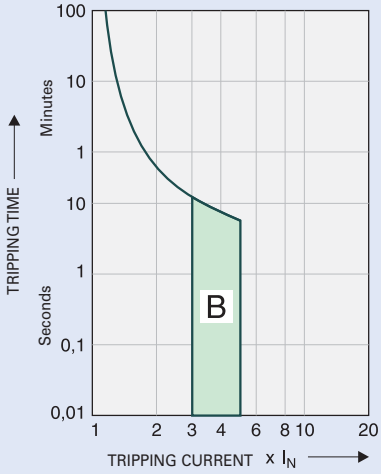
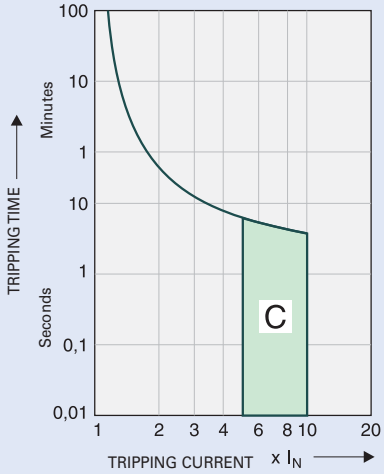
Powering Business Worldwide

Tripping Characteristics (IEC/EN 60898-1)

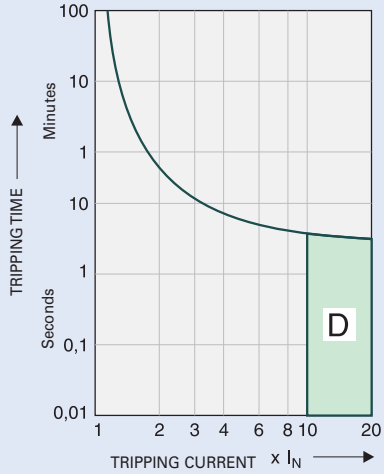
Tripping characteristic B



Tripping characteristic C



Tripping characteristic D



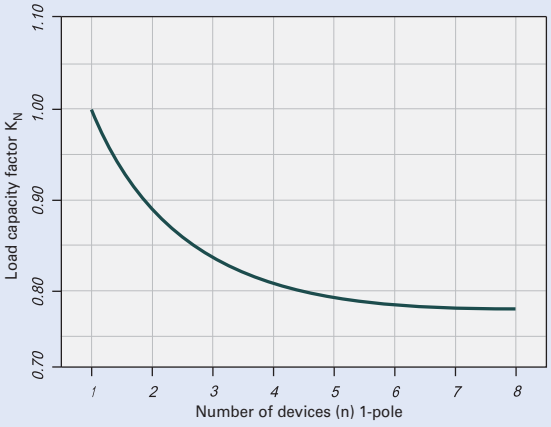
Quick-acting (B), slow (C), very slow (D)

Effect of the Ambient Temperature on Thermal Tripping Behaviour

Adjusted rated current values according to the ambient temperature

	Ambient temperature T [°C]															
I_n [A]	**-25**	**-20**	**-10**	**0**	**10**	**20**	**30**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**
0.16	0.20	0.19	0.19	0.18	0.17	0.17	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13
0.25	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.25	0.24	0.24	0.23	0.23	0.22	0.22	0.21	0.21
0.5	0.61	0.60	0.58	0.56	0.54	0.52	0.50	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41
0.75	0.92	0.90	0.87	0.84	0.81	0.78	0.75	0.74	0.73	0.71	0.69	0.68	0.66	0.65	0.64	0.62
1	1.2	1.2	1.2	1.1	1.1	1.0	1.0	0.99	0.97	0.95	0.93	0.90	0.89	0.87	0.85	0.83
1.5	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2
1.6	2.0	1.9	1.9	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.3
2	2.4	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7
2.5	3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.1
3	3.7	3.6	3.5	3.4	3.3	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.5
3.5	4.3	4.2	4.1	3.9	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2,9
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.4	3.3
5	6.1	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
6	7.3	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5.0
8	9.8	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1	6,9	6,8	6,6
10	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	8.7	8.5	8.3
12	15	14	14	13	13	13	12	12	12	11	11	11	11	10	10	10
13	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	11
15	18	18	17	17	16	16	15	15	15	14	14	14	13	13	13	12
16	20	19	19	18	17	17	16	16	15	15	15	14	14	14	14	13
20	24	24	23	22	22	21	20	20	19	19	19	18	18	17	17	17
25	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21
32	39	38	37	36	35	33	32	32	31	30	30	29	28	28	27	26
40	49	48	47	45	43	42	40	39	39	38	37	36	35	35	34	33
50	61	60	58	56	54	52	50	49	48	47	46	45	44	43	42	41
63	77	76	73	71	68	66	63	62	61	60	58	57	56	55	53	52

Load Capacity of Series Connected Miniature Circuit Breakers



Effect of Power Frequency

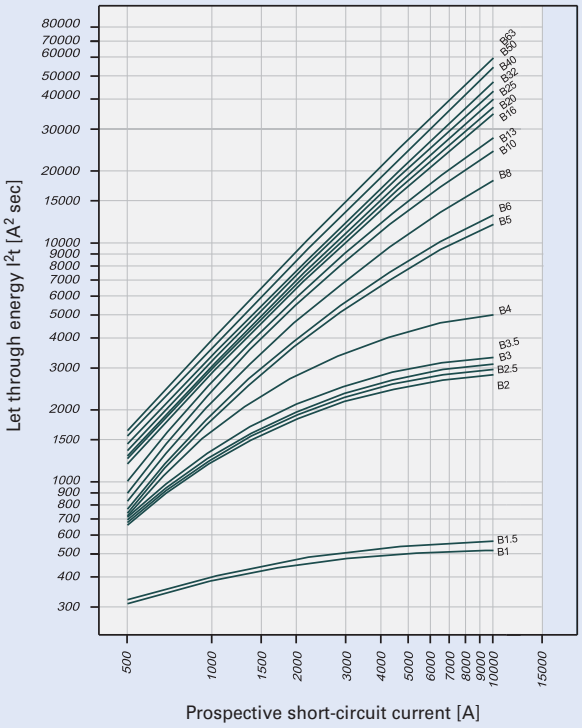
Effect of power frequency on the tripping behaviour I_{MA} of the quick release

	Power frequency f [Hz]						
	$16^2/_3$	50	60	100	200	300	400
$I_{MA}(f)/I_{MA}(50Hz)$ [%]	91	100	101	106	115	134	141

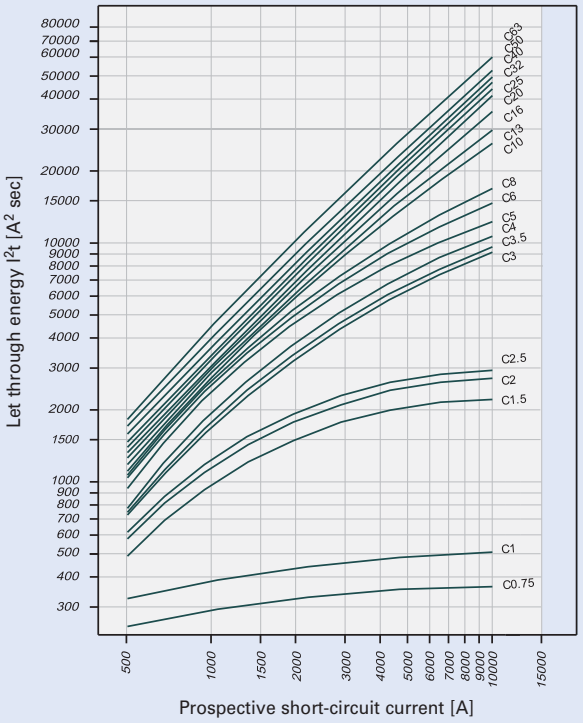
EATON Powering Business Worldwide

Let-through Energy PLSM

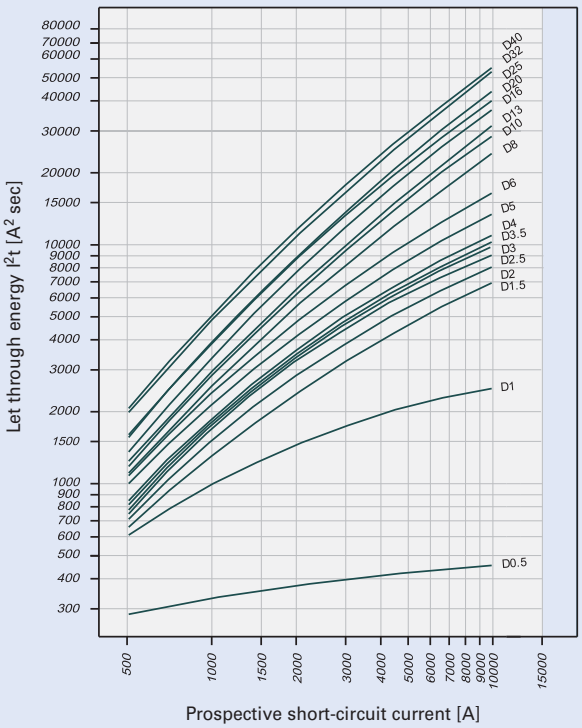
Let-through energy PLSM, characteristic B, 1-pole



Let-through energy PLSM, characteristic C, 1-pole



Let-through energy PLSM, characteristic D, 1-pole

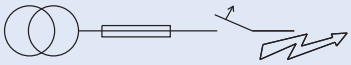


Powering Business Worldwide

Short Circuit Selectivity PLSM towards DII-DIV fuse link

In case of short circuit, there is selectivity between the miniature circuit breakers PLSM and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898-1 D.5.2.b



*Short circuit selectivity **characteristic B** towards fuse link **DII-DIV***)*

PLSM	DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5[1]	1.2	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	1.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.8	1.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.8	1.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.8	1.4	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.7	1.3	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.6	1.0	3.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	0.6	0.9	2.0	3.5	8.5	10.0[2]	10.0[2]
6		<0.5[1]	0.6	0.9	1.8	3.2	7.4	10.0[2]	10.0[2]
8		<0.5[1]	0.5	0.8	1.6	2.6	5.2	8.3	10.0[2]
10			0.5	0.8	1.4	2.2	3.9	6.0	10.0[2]
13			0.5	0.7	1.3	2.0	3.6	5.4	10.0[2]
16				0.6	1.2	1.9	3.2	4.6	8.4
20					1.2	1.8	3.1	4.4	7.8
25					1.2	1.8	3.0	4.2	7.3
32						1.7	2.8	3.9	6.8
40							2.7	3.8	6.5
50							2.5	3.5	5.7
63									5.3

*Short circuit selectivity **characteristic C** towards fuse link **DII-DIV***)*

PLSM	DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	1.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.0	<0.5[1]	1.2	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	<0.5[1]	1.0	2.2	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.8	1.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.8	1.4	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.8	0.9	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.6	0.9	2.2	4.5	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.6	0.8	1.8	3.6	9.7	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	0.6	0.7	1.5	2.7	7.3	10.0[2]	10.0[2]
6		<0.5[1]	0.5	0.6	1.4	2.4	5.5	10.0[2]	10.0[2]
8		<0.5[1]	<0.5[1]	0.6	1.3	2.2	4.7	8.7	10.0[2]
10			<0.5[1]	0.6	1.3	2.0	3.6	5.4	10.0[2]
13					1.3	1.9	3.3	5.0	9.4
16					1.2	1.8	3.2	4.4	8.0
20					1.2	1.8	3.1	4.1	7.0
25						1.7	2.8	3.8	6.5
32							2.7	3.7	6.2
40								3.5	5.9
50									5.5
63									

*Short circuit selectivity **characteristic D** towards fuse link **DII-DIV***)*

PLSM	DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.5	0.5	3.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.0	<0.5[1]	<0.5[1]	1.0	2.4	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	<0.5[1]	0.7	1.2	3.5	7.7	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.6	1.0	2.8	5.8	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.6	1.4	2.3	4.6	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.6	0.9	2.3	4.3	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.6	0.9	2.1	4.0	10.0[2]	10.0[2]	10.0[2]
4		<0.5[1]	0.6	0.9	2.0	3.8	9.5	10.0[2]	10.0[2]
5		<0.5[1]	0.5	0.7	1.7	3.1	7.0	10.0[2]	10.0[2]
6			0.5	0.7	1.5	2.6	5.3	9.1	10.0[2]
8			<0.5[1]	0.7	1.4	2.2	3.9	6.0	10.0[2]
10				0.7	1.2	1.9	3.4	5.0	9.5
13					1.2	1.8	3.2	4.6	8.6
16						1.6	2.7	4.0	7.4
20						1.5	2.5	3.5	6.7
25							2.4	3.4	6.2
32								2.8	5.0
40									4.8

[1] Selectivity limit current I_s under 0.5 kA

[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

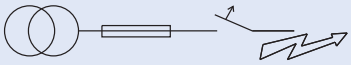
xPole

EATON Powering Business Worldwide

Short Circuit Selectivity PLSM towards D01-D03 fuse link

In case of short circuit, there is selectivity between the miniature circuit breakers PLSM and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898-1 D.5.2.b



*Short circuit selectivity **characteristic B** towards fuse link **D01-D03***)*

PLSM	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5[1]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	4.1	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.6	1.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.6	1.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.5	1.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.5	0.9	7.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.5	0.9	2.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]
5		<0.5[1]	0.5	0.8	1.7	4.0	7.0	10.0[2]	10.0[2]
6		<0.5[1]	0.5	0.8	1.6	3.6	6.0	10.0[2]	10.0[2]
8			0.5	0.8	1.4	2.8	4.3	8.2	10.0[2]
10			0.5	0.7	1.3	2.4	3.4	6.0	10.0[2]
13			<0.5[1]	0.7	1.2	2.3	3.2	5.3	10.0[2]
16				0.6	1.1	2.2	2.9	4.6	10.0
20					1.1	2.1	2.8	4.4	9.3
25					1.1	2.0	2.7	4.2	8.7
32						2.0	2.6	4.0	8.0
40							2.5	3.8	7.5
50							2.3	3.4	6.7
63									6.2

*Short circuit selectivity **characteristic C** towards fuse link **D01-D03***)*

PLSM	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	<0.5[1]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.0	<0.5[1]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	0.5	0.6	0.9	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.5	0.7	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.5	0.7	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	<0.5[1]	0.6	1.9	5.2	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	<0.5[1]	0.6	1.8	4.7	9.5	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	<0.5[1]	0.6	1.6	4.0	7.6	10.0[2]	10.0[2]
5		<0.5[1]	<0.5[1]	0.5	1.3	3.1	5.7	10.0[2]	10.0[2]
6		<0.5[1]	<0.5[1]	<0.5[1]	1.2	2.7	4.5	10.0[2]	10.0[2]
8		<0.5[1]	<0.5[1]	<0.5[1]	1.2	2.5	4.0	8.6	10.0[2]
10			<0.5[1]	<0.5[1]	1.2	2.3	3.1	5.4	10.0[2]
13					1.1	2.2	3.0	4.9	10.0[2]
16					1.1	2.1	2.8	4.4	9.5
20					1.0	2.0	2.6	4.0	8.3
25						1.9	2.5	3.8	7.8
32							2.5	3.7	7.3
40								3.5	7.0
50									6.5
63									

*Short circuit selectivity **characteristic D** towards fuse link **D01-D03***)*

PLSM	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.5	<0.5[1]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.0	<0.5[1]	<0.5[1]	0.7	1.3	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	<0.5[1]	0.6	0.9	2.8	9.0	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.6	0.8	2.2	6.7	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.5	0.7	1.9	5.4	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.5	0.7	1.8	4.8	9.3	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.5	0.7	1.7	4.7	8.6	10.0[2]	10.0[2]
4		<0.5[1]	0.5	0.7	1.7	4.6	7.7	10.0[2]	10.0[2]
5		<0.5[1]	<0.5[1]	0.6	1.5	3.5	5.8	10.0[2]	10.0[2]
6			<0.5[1]	0.5	1.3	2.9	4.5	9.0	10.0[2]
8			<0.5[1]	0.5	1.2	2.4	3.5	6.0	10.0[2]
10				0.5	1.1	2.2	3.0	5.0	10.0[2]
13					1.1	2.1	2.9	4.6	10.0[2]
16						1.9	2.6	3.9	9.0
20						1.7	2.3	3.5	8.0
25							2.2	3.4	7.5
32								2.9	6.0
40									5.7

[1] Selectivity limit current I_s under 0.5 kA

[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

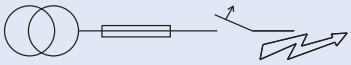
xPole

EATON Powering Business Worldwide

Short Circuit Selectivity PLSM towards NH-00 Fuses

In case of short circuit, there is selectivity between the miniature circuit breakers PLSM and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898-1 D.5.2.b



*Short circuit selectivity **characteristic B** towards fuse link **NH-00***)*

PLSM	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
1.0	0.9	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	0.8	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	0.5	1.0	2.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	0.5	1.0	2.3	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	0.5	0.9	2.1	8.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	0.5	0.9	1.8	5.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.8	1.3	2.3	4.3	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	0.7	1.1	1.6	2.2	3.6	4.8	8.9	10.0[2]	10.0[2]	10.0[2]
6	<0.5[1]	<0.5[1]	0.7	1.1	1.5	2.0	3.3	4.3	7.6	10.0[2]	10.0[2]	10.0[2]
8	<0.5[1]	<0.5[1]	0.6	1.0	1.3	1.7	2.6	3.3	5.2	10.0[2]	10.0[2]	10.0[2]
10		<0.5[1]	0.6	0.9	1.2	1.5	2.2	2.7	4.0	9.0	10.0[2]	10.0[2]
13		<0.5[1]	0.6	0.8	1.1	1.4	2.1	2.6	3.8	7.9	10.0[2]	10.0[2]
16			0.5	0.7	1.0	1.3	1.9	2.4	3.4	6.4	9.3	10.0[2]
20				0.7	1.0	1.3	1.9	2.4	3.3	6.0	8.7	10.0[2]
25				0.7	1.0	1.3	1.8	2.3	3.2	5.7	8.0	10.0[2]
32					0.9	1.2	1.7	2.2	3.1	5.4	7.6	10.0[2]
40								2.1	3.0	5.1	7.2	10.0[2]
50								1.9	2.8	4.7	6.6	9.5
63										4.4	6.3	8.6

*Short circuit selectivity **characteristic C** towards fuse link **NH-00***)*

PLSM	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
0.75	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.0	0.9	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	0.6	1.3	4.2	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	0.6	1.0	2.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	0.5	1.0	2.1	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.7	1.2	1.8	2.6	4.7	6.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.7	1.1	1.7	2.4	4.2	6.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.7	1.0	1.5	2.1	3.6	5.0	10.0	10.0[2]	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	0.6	0.8	1.2	1.7	2.8	3.8	8.7	10.0[2]	10.0[2]	10.0[2]
6	<0.5[1]	<0.5[1]	0.5	0.8	1.2	1.5	2.5	3.3	5.7	10.0[2]	10.0[2]	10.0[2]
8	<0.5[1]	<0.5[1]	0.5	0.8	1.1	1.5	2.3	2.9	4.9	10.0[2]	10.0[2]	10.0[2]
10			0.5	0.7	1.0	1.4	2.0	2.5	3.8	8.0	10.0[2]	10.0[2]
13					1.0	1.3	1.9	2.4	3.6	7.0	10.0[2]	10.0[2]
16					1.0	1.3	1.8	2.3	3.3	6.0	8.8	10.0[2]
20					1.0	1.2	1.7	2.2	3.2	5.5	7.7	10.0[2]
25						1.6	2.1	3.0	5.2	7.3	10.0[2]	
32							2.1	2.9	5.0	7.0	10.0[2]	
40								2.8	4.8	6.7	10.0	
50									4.5	6.3	9.5	
63										5.9	8.4	

*Short circuit selectivity **characteristic D** towards fuse link **NH-00***)*

PLSM	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
0.5	2.1	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.0	<0.5[1]	0,6	1.4	4.3	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
1.5	<0.5[1]	<0.5[1]	0.9	1.6	2.7	4.0	8.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.0	<0.5[1]	<0.5[1]	0.8	1.3	2.1	3.1	6.0	8.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]
2.5	<0.5[1]	<0.5[1]	0.7	1.2	1.8	2.6	4.8	6.9	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.0	<0.5[1]	<0.5[1]	0.7	1.1	1.7	2.4	4.3	6.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]
3.5	<0.5[1]	<0.5[1]	0.7	1.1	1.7	2.4	4.2	5.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.7	1.0	1.6	2.2	3.8	5.2	10.0	10.0[2]	10.0[2]	10.0[2]
5		<0.5[1]	0.6	0.9	1.4	1.9	3.2	4.1	7.1	10.0[2]	10.0[2]	10.0[2]
6		<0.5[1]	0.5	0.8	1.2	1.6	2.6	3.3	5.5	10.0[2]	10.0[2]	10.0[2]
8			0.5	0.8	1.1	1.5	2.2	2.7	4.1	8.7	10.0[2]	10.0[2]
10			0.5	0.7	1.0	1.3	1.9	2.5	3.6	7.2	10.0[2]	10.0[2]
13					1.0	1.3	1.9	2.3	3.4	6.5	9.5	10.0[2]
16						1.1	1.6	2.0	3.0	5.5	8.0	10.0[2]
20							1.4	1.8	2.8	5.0	7.5	10.0[2]
25								1.8	2.7	4.8	7.0	10.0[2]
32									2.4	4.1	6.2	9.3
40										4.0	6.0	9.0

[1] Selectivity limit current I_s under 0.5 kA

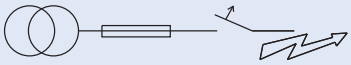
[2] Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

no selectivity

Short Circuit Selectivity PLSM towards cylindrical fuse links

In case of short circuit, there is selectivity between the miniature circuit breakers PLSM and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s, only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

*) basically in accordance with EN 60898-1 D.5.2.b



*Short circuit selectivity **characteristic B** towards fuse links **CH10x38 gG, CH14x51 gG, CH22x58 gG***)*

PLSM	CH10x38 gG				CH15x51 gG					CH22x58 gG								
I_n [A]	16	20	25	32	20	25	32	40	50	16	20	25	32	40	50	63	80	100
1	0.5	>10	>10	>10	>10	>10	>10	>10	>10	1.2	>10	>10	>10	>10	>10	>10	>10	>10
2	<0.5	0.6	1.2	3.6	0.5	1.0	5.2	>10	>10	<0.5	0.5	1.1	>10	>10	>10	>10	>10	>10
3	<0.5	0.5	0.8	1.4	0.5	0.9	3.7	>10	>10	<0.5	0.5	1.0	8.0	>10	>10	>10	>10	>10
4	<0.5	<0.5	0.7	1.2	<0.5	0.7	1.7	4.0	>10	<0.5	<0.5	0.8	2.3	5.1	>10	>10	>10	>10
6	<0.5	<0.5	0.6	0.9	<0.5	0.7	1.3	2.0	2.7	<0.5	<0.5	0.7	1.5	2.2	2.6	5.6	10	>10
10	<0.5	<0.5	0.6	0.9	<0.5	0.6	1.1	1.5	2.0	<0.5	<0.5	0.6	1.2	1.6	1.9	3.2	4.8	9.0
13	<0.5	<0.5	0.6	0.8	<0.5	0.6	1.0	1.4	1.9	<0.5	<0.5	0.6	1.2	1.5	1.7	3.0	4.3	7.7
16		<0.5	0.5	0.8	<0.5	0.5	1.0	1.4	1.8		<0.5	0.5	1.1	1.4	1.6	2.7	3.8	6.3
20			0.5	0.8		<0.5	0.9	1.3	1.6			0.5	1.1	1.4	1.6	2.6	3.7	6.0
25				0.7			0.9	1.3	1.6				1.0	1.3	1.5	2.5	3.5	5.6
32								1.2	1.5					1.3	1.5	2.4	3.3	5.2
40									1.5						1.4	2.3	3.2	5.0
50																2.1	2.9	4.5
63																	2.8	4.2

no selectivity

*Short circuit selectivity **characteristic C** towards fuse links **CH10x38 gG, CH14x51 gG, CH22x58 gG***)*

PLSM	CH10x38 gG				CH15x51 gG					CH22x58 gG								
I_n [A]	16	20	25	32	20	25	32	40	50	16	20	25	32	40	50	63	80	100
0.5	1.9	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
1	<0.5	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
2	<0.5	0.6	1.2	3.6	0.5	1.0	4.5	>10	>10	<0.5	0.6	1.1	>10	>10	>10	>10	>10	>10
3	<0.5	0.5	0.8	1.4	<0.5	0.7	1.4	2.4	3.7	<0.5	<0.5	0.8	1.8	2.7	3.5	9.3	>10	>10
4	<0.5	<0.5	0.7	1.2	<0.5	0.7	1.2	2.0	2.9	<0.5	<0.5	0.7	1.5	2.2	2.7	6.7	>10	>10
6	<0.5	<0.5	0.6	0.9	<0.5	<0.5	1.0	1.4	2.0	<0.5	<0.5	0.6	1.1	1.6	1.9	4.2	7.0	>10
10	<0.5	<0.5	0.5	0.8	<0.5	<0.5	0.9	1.3	1.7	<0.5	<0.5	0.6	1.1.	1.5	1.8	2.9	4.1	7.5
13	<0.5	<0.5	0.5	0.8	<0.5	<0.5	0.9	1.3	1.7	<0.5	<0.5	0.5	1.0	1.4	1.7	2.7	3.8	6.5
16		<0.5	0.5	0.8	<0.5	<0.5	0.8	1.2	1.6		<0.5	<0.5	1.0	1.3	1.5	2.6	3.5	5.8
20			<0.5	0.7		<0.5	0.8	1.2	1.5			<0.5	0.9	1.2	1.4	2.5	3.3	5.4
25				0.7			0.8	1.1	1.4				0.9	1.2	1.4	2.3	3.2	5.0
32								1.1	1.4					1.1	1.3	2.2	3.0	4.8
40									1.3						1.2	2.0	2.8	4.6
50																1.9	2.6	4.2
63																	2.3	3.7

no selectivity

*Short circuit selectivity **characteristic D** towards fuse links **CH10x38 gG, CH14x51 gG, CH22x58 gG***)*

PLSM	CH10x38 gG				CH15x51 gG					CH22x58 gG								
I_n [A]	16	20	25	32	20	25	32	40	50	16	20	25	32	40	50	63	80	100
0.5	0.9	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10	>10
1	<0.5	>10	>10	>10	>10	>10	>10	>10	>10	<0.5	0.6	1.5	>10	>10	>10	>10	>10	>10
2	<0.5	0.5	0.6	1.6	<0.5	1.0	1.7	>10	>10	<0.5	0.5	0.8	2.1	3.3	4.3	>10	>10	>10
3	<0.5	<0.5	0.8	1.3	<0.5	0.7	1.4	2.4	3.4	<0.5	<0.5	0.7	1.7	2.5	3.2	8.2	>10	>10
4	<0.5	<0.5	0.7	1.2	<0.5	0.7	1.3	2.0	3.1	<0.5	<0.5	0.7	1.6	2.3	3.0	7.0	>10	>10
6	<0.5	<0.5	0.6	1.0	<0.5	<0.5	1.0	1.6	2.0	<0.5	<0.5	0.6	1.3	1.7	2.1	4.2	7.0	>10
10	<0.5	<0.5	0.6	0.8	<0.5	<0.5	0.9	1.3	1.7	<0.5	<0.5	0.5	1.1	1.4	1.6	2.8	4.1	7.1
13	<0.5	<0.5	0.5	0.8	<0.5	<0.5	0.9	1.3	1.6	<0.5	<0.5	0.5	1.0	1.4	1.6	2.7	3.8	6.5
16		<0.5	0.5	0.7	<0.5	<0.5	0.8	1.1	1.4		<0.5	<0.5	1.0	1.2	1.4	2.3	3.2	5.5
20			<0.5	0.7		<0.5	0.7	1.0	1.3			<0.5	0.8	1.1	1.3	2.1	2.9	4.6
25				0.7			0.7	1.0	1.2				0.8	1.0	1.2	2.0	2.8	4.0
32														0.9	1.0	1.7	2.3	3.8
40															1.0	2.0	2.2	3.6

no selectivity

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