

Protective Devices Miniature Circuit Breakers PLSM, PLZM

Catalog



Powering Business Worldwide

SG67811



Description

- 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 can be mounted subsequently
- Rated currents up to 63 A
- Tripping characteristics B, C, D
- Rated breaking capacity 10 kA according to IEC/EN 60898-1

SG48411

Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**10 kA, Characteristic B****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 1.5MU**

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

Miniature Circuit Breakers PLSM, PLZM (MW)

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Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**1+N-pole 2 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

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**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

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Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**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

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**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

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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

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Rated current
 I_n (A)Type
DesignationArticle No. Units per
package**10 kA, Characteristic C****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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**1+N-pole 1.5MU**

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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Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**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

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**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

Miniature Circuit Breakers PLSM, PLZM (MW)

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Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**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

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**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

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Rated current I_n (A)	Type Designation	Article No.	Units per package
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

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Rated current
 I_n (A)Type
DesignationArticle No.
Units per
package**10 kA, Characteristic D****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

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**1+N-pole 1.5MU**

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

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Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**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

SG54811

**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

SG63111



Rated current I_n (A)	Type Designation	Article No.	Units per package
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

SG65611



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

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

Specifications | Miniature Circuit Breakers PLS..., PLZ...

Description

- 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)

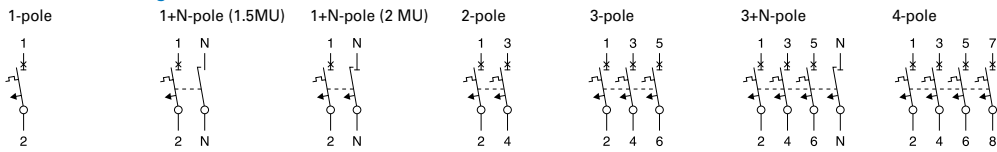
Accessories:

Auxiliary switch for subsequent installation	ZP-IHK	286052
	ZP-WHK	286053
Tripping signal switch 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
Additional terminal 35 mm ²	BB-UL-TEPA/35	169823
Switching interlock	Z-IS/SPE-1TE	274418
Neutral disconnect	Z-NTS	248443

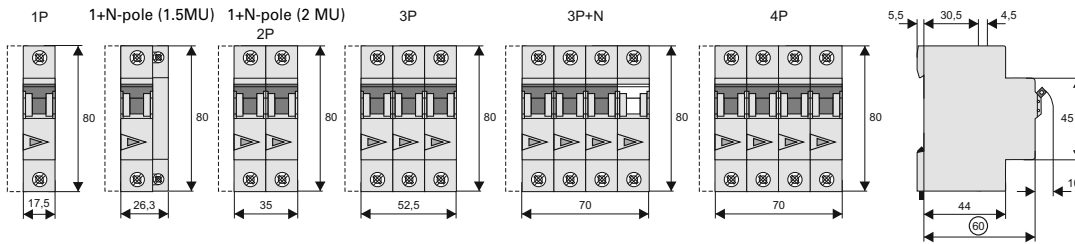
Technical Data

		PLS..., PLZ...
Electrical		
Design according to		IEC/EN 60898-1
Current test marks as printed onto the device		
Rated voltage	U_n	AC: 230/400 V DC: 48 V (per pole, max. 2 poles)
Rated frequency		50/60 Hz
Rated breaking capacity according to IEC/EN 60898-1 PLSM, PLZM	I_{cn}	10 kA
Characteristic		B, C, D
Back-up fuse PLSM, PLZM		max. 125 A gL
Selectivity class		3
Endurance		
electrical components		$\geq 10,000$ switching operations
mechanical components		$\geq 20,000$ switching operations
Line voltage connection		at will (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, DGUV VS3, EN 50274
Terminal capacity (1p+N, 1,5TE)		1-25 mm ² 1-25 mm ² / 1-16 mm ² (N)
Terminal torque (1p+N, 1,5TE)		2-2.4 Nm 2-2.4 Nm / 1.2-1.5 Nm (N)
Busbar thickness		0.8 - 2 mm (except N 0.5MU)
Mounting		independent of position

Connection diagrams

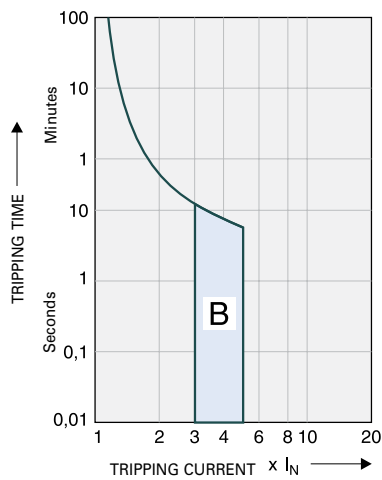


Dimensions (mm)

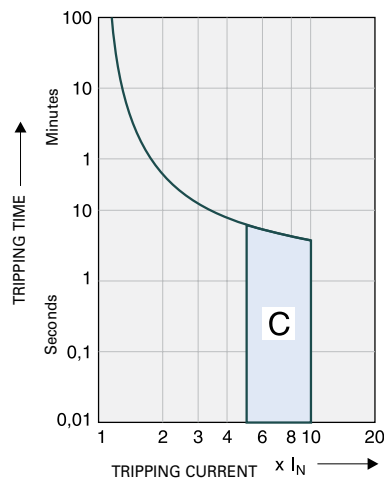


Tripping Characteristics (IEC/EN 60898-1)

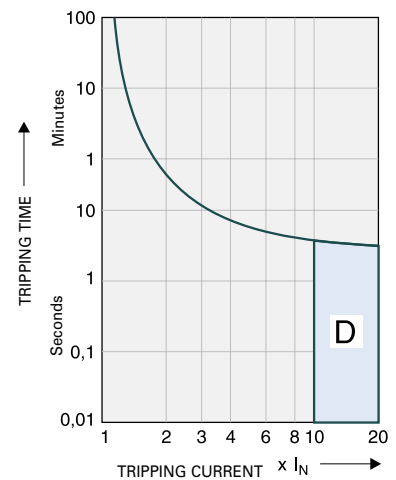
Tripping characteristic B



Tripping characteristic C



Tripping characteristic D

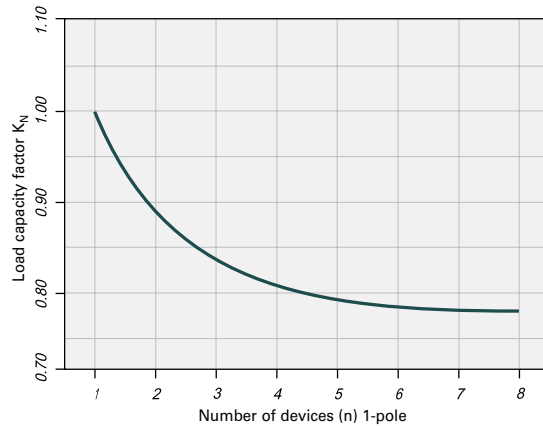


Effect of the Ambient Temperature on Thermal Tripping Behaviour

Adjusted rated current values according to the ambient temperature

I _n [A]	Ambient temperature T [°C]															
	-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

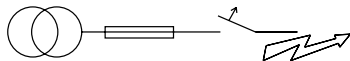
Effect of power frequency on the tripping behaviour I_{MA} of the quick release

	Power frequency f [Hz]						
	16 ² / ₃	50	60	100	200	300	400
I _{MA} (f)/I _{MA} (50 Hz) [%]	91	100	101	106	115	134	141

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⁾	0.8	0.9	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
4	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.2	4.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.8	1.8	3.6	9.7	10.0 ²⁾	10.0 ²⁾	
6		<0.5 ¹⁾	0.6	0.7	1.5	2.7	7.3	10.0 ²⁾	10.0 ²⁾	
8		<0.5 ¹⁾	0.5	0.6	1.4	2.4	5.5	10.0 ²⁾	10.0 ²⁾	
10		<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.3	2.2	4.7	8.7	10.0 ²⁾	
13			<0.5 ¹⁾	0.6	1.3	2.0	3.6	5.4	10.0 ²⁾	
16					1.3	1.9	3.3	5.0	9.4	
20					1.2	1.8	3.2	4.4	8.0	
25					1.2	1.8	3.1	4.1	7.0	
32						1.7	2.8	3.8	6.5	
40							2.7	3.7	6.2	
50								3.5	5.9	
63									5.5	

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

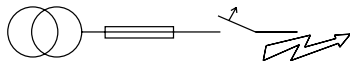
²⁾ Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

Darker areas: no selectivity

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

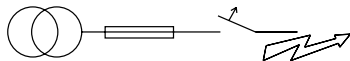
²⁾ Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

Darker areas: no selectivity

Short-circuit Selectivity PLSM towards NH-00 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 **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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	10.0 ²⁾	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⁾	10.0 ²⁾	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 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⁾	10.0 ²⁾	10.0 ²⁾	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⁾	10.0 ²⁾	10.0 ²⁾	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⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
20				0.7	1.0	1.3	1.9	2.4	3.3	6.0	8.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
25				0.7	1.0	1.3	1.8	2.3	3.2	5.7	8.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
32					0.9	1.2	1.7	2.2	3.1	5.4	7.6	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
40								2.1	3.0	5.1	7.2	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
50								1.9	2.8	4.7	6.6	9.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
63									4.4	6.3	8.6	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾

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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	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 ²⁾	10.0 ²⁾	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⁾	0.6	0.8	1.2	1.7	2.8	3.8	8.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	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⁾	10.0 ²⁾	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 ²⁾	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⁾	10.0 ²⁾	10.0 ²⁾	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⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
16						1.0	1.3	1.8	2.3	3.3	6.0	8.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
20							1.0	1.2	1.7	2.2	3.2	5.5	7.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
25								1.6	2.1	3.0	5.2	7.3	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
32									2.1	2.9	5.0	7.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
40										2.8	4.8	6.7	10.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
50											4.5	6.3	9.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
63												5.9	8.4	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾

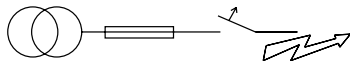
Short-circuit selectivity **Characteristic D** towards fuse link **NH-00***)

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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	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⁾	10.0 ²⁾	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⁾	10.0 ²⁾	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⁾	10.0 ²⁾	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 ²⁾	10.0 ²⁾	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⁾	10.0 ²⁾	10.0 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⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
16						1.1	1.6	2.0	3.0	5.5	8.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
20							1.4	1.8	2.8	5.0	7.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
25								1.8	2.7	4.8	7.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
32									2.4	4.1	6.2	9.3	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
40										4.0	6.0	9.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾

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 link **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

Short-circuit selectivity **Characteristic C** towards fuse link **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

Short-circuit selectivity **Characteristic C** towards fuse link **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

Darker areas: no selectivity

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