

Eaton.com

Protective Devices Miniature Circuit Breakers PLS6, PLZ6

Catalog



EATON

Powering Business Worldwide

SG72911



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 6 kA according to IEC/EN 60898-1

SG26911

Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**6 kA, Characteristic B****1-pole**

6	PLS6-B6	242649	12/120
10	PLS6-B10	242651	12/120
13	PLS6-B13	242653	12/120
16	PLS6-B16	242655	12/120
20	PLS6-B20	242656	12/120
25	PLS6-B25	242657	12/120
32	PLS6-B32	242658	12/120
40	PLS6-B40	242659	12/120
50	PLS6-B50	242660	12/120
63	PLS6-B63	242661	12/120

SG40111

**1+N-pole 1.5MU**

6	PLS6-B6/1N	242718	8/80
10	PLS6-B10/1N	242720	8/80
13	PLS6-B13/1N	242722	8/80
16	PLS6-B16/1N	242724	8/80
20	PLS6-B20/1N	242725	8/80
25	PLS6-B25/1N	242726	8/80
32	PLS6-B32/1N	242727	8/80

SG58211



Rated current I_n (A)	Type Designation	Article No.	Units per package
1+N-pole 2 MU			
6	PLZ6-B6/1N	242779	1/60
10	PLZ6-B10/1N	242781	1/60
13	PLZ6-B13/1N	242783	1/60
16	PLZ6-B16/1N	242785	1/60
20	PLZ6-B20/1N	242786	1/60
25	PLZ6-B25/1N	242787	1/60
32	PLZ6-B32/1N	242788	1/60
40	PLZ6-B40/1N	242789	1/60
50	PLZ6-B50/1N	242790	1/60
63	PLZ6-B63/1N	242791	1/60

SG77911



2-pole			
6	PLS6-B6/2	242848	1/60
10	PLS6-B10/2	242850	1/60
13	PLS6-B13/2	242852	1/60
16	PLS6-B16/2	242854	1/60
20	PLS6-B20/2	242855	1/60
25	PLS6-B25/2	242856	1/60
32	PLS6-B32/2	242857	1/60
40	PLS6-B40/2	242858	1/60
50	PLS6-B50/2	242859	1/60
63	PLS6-B63/2	242860	1/60

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Rated current I_n (A)	Type Designation	Article No.	Units per package
3-pole			
6	PLS6-B6/3	242917	1/40
10	PLS6-B10/3	242919	1/40
13	PLS6-B13/3	242921	1/40
16	PLS6-B16/3	242923	1/40
20	PLS6-B20/3	242924	1/40
25	PLS6-B25/3	242925	1/40
32	PLS6-B32/3	242926	1/40
40	PLS6-B40/3	242927	1/40
50	PLS6-B50/3	242928	1/40
63	PLS6-B63/3	242929	1/40

SG73911



3+N-pole			
6	PLS6-B6/3N	242986	1/30
10	PLS6-B10/3N	242988	1/30
13	PLS6-B13/3N	242990	1/30
16	PLS6-B16/3N	242992	1/30
20	PLS6-B20/3N	242993	1/30
25	PLS6-B25/3N	242994	1/30
32	PLS6-B32/3N	242995	1/30
40	PLS6-B40/3N	242996	1/30
50	PLS6-B50/3N	242997	1/30
63	PLS6-B63/3N	242998	1/30

SG70011



Rated current I_n (A)	Type Designation	Article No.	Units per package
4-pole			
6	PLS6-B6/4	243055	1/30
10	PLS6-B10/4	243057	1/30
13	PLS6-B13/4	243059	1/30
16	PLS6-B16/4	243061	1/30
20	PLS6-B20/4	243062	1/30
25	PLS6-B25/4	243063	1/30
32	PLS6-B32/4	243064	1/30
40	PLS6-B40/4	243065	1/30
50	PLS6-B50/4	243066	1/30
63	PLS6-B63/4	243067	1/30

SG26911



Rated current
 I_n (A)

Type
Designation

Article No.

Units per
package

6 kA, Characteristic C

1-pole

6	PLS6-C6	242675	12/120
10	PLS6-C10	242677	12/120
13	PLS6-C13	242679	12/120
16	PLS6-C16	242681	12/120
20	PLS6-C20	242682	12/120
25	PLS6-C25	242683	12/120
32	PLS6-C32	242684	12/120
40	PLS6-C40	242685	12/120
50	PLS6-C50	242686	12/120
63	PLS6-C63	242687	12/120

SG40111



1+N-pole 1.5MU

6	PLS6-C6/1N	242741	8/80
10	PLS6-C10/1N	242743	8/80
13	PLS6-C13/1N	242745	8/80
16	PLS6-C16/1N	242747	8/80
20	PLS6-C20/1N	242748	8/80
25	PLS6-C25/1N	242749	8/80
32	PLS6-C32/1N	242750	8/80

SG58211



Rated current I_n (A)	Type Designation	Article No.	Units per package
1+N-pole 2 MU			
6	PLZ6-C6/1N	242805	1/60
10	PLZ6-C10/1N	242807	1/60
13	PLZ6-C13/1N	242809	1/60
16	PLZ6-C16/1N	242811	1/60
20	PLZ6-C20/1N	242812	1/60
25	PLZ6-C25/1N	242813	1/60
32	PLZ6-C32/1N	242814	1/60
40	PLZ6-C40/1N	242815	1/60
50	PLZ6-C50/1N	242816	1/60
63	PLZ6-C63/1N	242817	1/60

SG77911



2-pole			
6	PLS6-C6/2	242874	1/60
10	PLS6-C10/2	242876	1/60
13	PLS6-C13/2	242878	1/60
16	PLS6-C16/2	242880	1/60
20	PLS6-C20/2	242881	1/60
25	PLS6-C25/2	242882	1/60
32	PLS6-C32/2	242883	1/60
40	PLS6-C40/2	242884	1/60
50	PLS6-C50/2	242885	1/60
63	PLS6-C63/2	242886	1/60

Miniature Circuit Breakers PLS6, PLZ6 (MW)

SG74311



Rated current I_n (A)	Type Designation	Article No.	Units per package
3-pole			
6	PLS6-C6/3	242943	1/40
10	PLS6-C10/3	242945	1/40
13	PLS6-C13/3	242947	1/40
16	PLS6-C16/3	242949	1/40
20	PLS6-C20/3	242950	1/40
25	PLS6-C25/3	242951	1/40
32	PLS6-C32/3	242952	1/40
40	PLS6-C40/3	242953	1/40
50	PLS6-C50/3	242954	1/40
63	PLS6-C63/3	242955	1/40

SG73911



3+N-pole			
6	PLS6-C6/3N	243012	1/30
10	PLS6-C10/3N	243014	1/30
13	PLS6-C13/3N	243016	1/30
16	PLS6-C16/3N	243018	1/30
20	PLS6-C20/3N	243019	1/30
25	PLS6-C25/3N	243020	1/30
32	PLS6-C32/3N	243021	1/30
40	PLS6-C40/3N	243022	1/30
50	PLS6-C50/3N	243023	1/30
63	PLS6-C63/3N	243024	1/30

SG70011



Rated current I_n (A)	Type Designation	Article No.	Units per package
4-pole			
6	PLS6-C6/4	243081	1/30
10	PLS6-C10/4	243083	1/30
13	PLS6-C13/4	243085	1/30
16	PLS6-C16/4	243087	1/30
20	PLS6-C20/4	243088	1/30
25	PLS6-C25/4	243089	1/30
32	PLS6-C32/4	243090	1/30
40	PLS6-C40/4	243091	1/30
50	PLS6-C50/4	243092	1/30
63	PLS6-C63/4	243093	1/30

SG26911

Rated current
 I_n (A)Type
Designation

Article No.

Units per
package**6 kA, Characteristic D****1-pole**

6	PLS6-D6	242698	12/120
10	PLS6-D10	242700	12/120
13	PLS6-D13	242702	12/120
16	PLS6-D16	242704	12/120
20	PLS6-D20	242705	12/120
25	PLS6-D25	242706	12/120
32	PLS6-D32	242707	12/120
40	PLS6-D40	242708	12/120

SG40111

**1+N-pole 1.5MU**

6	PLS6-D6/1N	242761	8/80
10	PLS6-D10/1N	242763	8/80
13	PLS6-D13/1N	242765	8/80
16	PLS6-D16/1N	242767	8/80
20	PLS6-D20/1N	242768	8/80
25	PLS6-D25/1N	242769	8/80

SG58211



Rated current I_n (A)	Type Designation	Article No.	Units per package
1+N-pole 2 MU			
6	PLZ6-D6/1N	242828	1/60
10	PLZ6-D10/1N	242830	1/60
13	PLZ6-D13/1N	242832	1/60
16	PLZ6-D16/1N	242834	1/60
20	PLZ6-D20/1N	242835	1/60
25	PLZ6-D25/1N	242836	1/60
32	PLZ6-D32/1N	242837	1/60
40	PLZ6-D40/1N	242838	1/60

SG77911



2-pole			
6	PLS6-D6/2	242897	1/60
10	PLS6-D10/2	242899	1/60
13	PLS6-D13/2	242901	1/60
16	PLS6-D16/2	242903	1/60
20	PLS6-D20/2	242904	1/60
25	PLS6-D25/2	242905	1/60
32	PLS6-D32/2	242906	1/60
40	PLS6-D40/2	242907	1/60

SG74311



Rated current
 I_n (A)

Type
Designation

Article No.

Units per
package

3-pole

6	PLS6-D6/3	242966	1/40
10	PLS6-D10/3	242968	1/40
13	PLS6-D13/3	242970	1/40
16	PLS6-D16/3	242972	1/40
20	PLS6-D20/3	242973	1/40
25	PLS6-D25/3	242974	1/40
32	PLS6-D32/3	242975	1/40
40	PLS6-D40/3	242976	1/40

SG73911

**3+N-pole**

6	PLS6-D6/3N	243035	1/30
10	PLS6-D10/3N	243037	1/30
13	PLS6-D13/3N	243039	1/30
16	PLS6-D16/3N	243041	1/30
20	PLS6-D20/3N	243042	1/30
25	PLS6-D25/3N	243043	1/30
32	PLS6-D32/3N	243044	1/30
40	PLS6-D40/3N	243045	1/30

SG70011



Rated current I_n (A)	Type Designation	Article No.	Units per package
4-pole			
6	PLS6-D6/4	243104	1/30
10	PLS6-D10/4	243106	1/30
13	PLS6-D13/4	243108	1/30
16	PLS6-D16/4	243110	1/30
20	PLS6-D20/4	243111	1/30
25	PLS6-D25/4	243112	1/30
32	PLS6-D32/4	243113	1/30
40	PLS6-D40/4	243114	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)

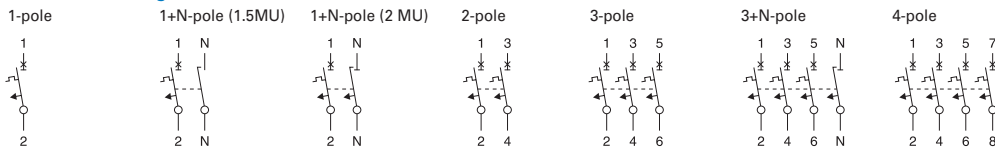
Accessories:

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

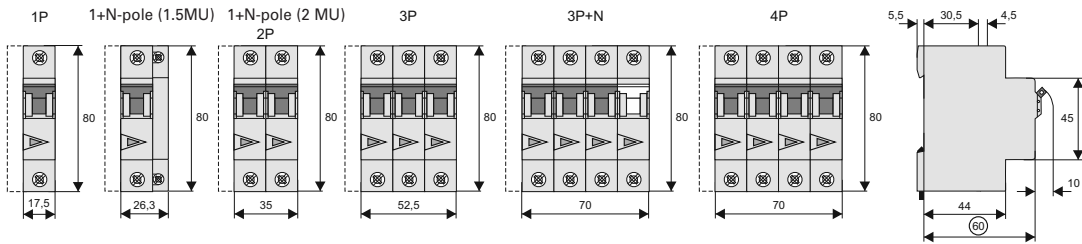
Technical Data

		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	I_{cn}	
PLS6, PLZ6		6 kA
Characteristic		B, C, D
Back-up fuse		
PLS6, PLZ6		max. 100 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		1-25 mm ²
(1p+N, 1,5TE)		1-25 mm ² / 1-16 mm ² (N)
Terminal torque		2-2.4 Nm
(1p+N, 1,5TE)		2-2.4 Nm / 1.2-1.5 Nm (N)
Busbar thickness		0.8 - 2 mm (except N 0.5MU)
Mounting		independent of position
Operation temperature		-25°C to +75°C
Storage- and transport temperature		-40°C up to +75°C

Connection diagrams

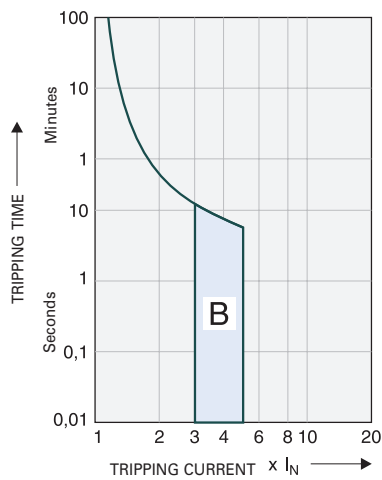


Dimensions (mm)

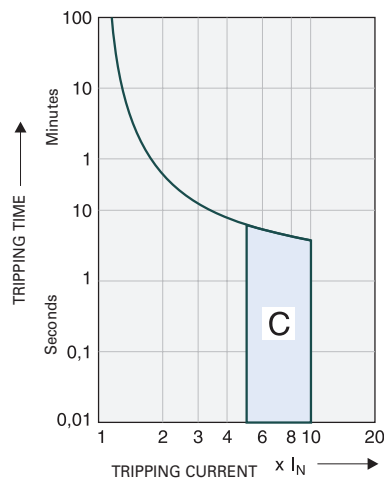


Tripping Characteristics (IEC/EN 60898-1)

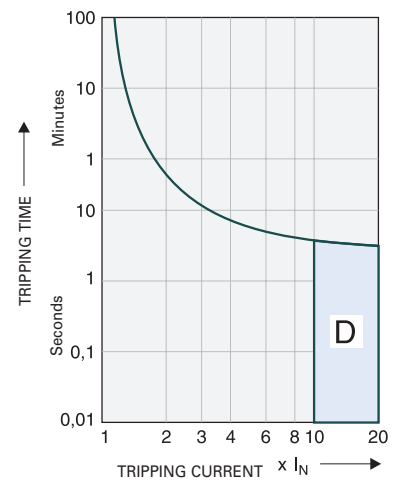
Tripping characteristic B



Tripping characteristic C



Tripping characteristic D



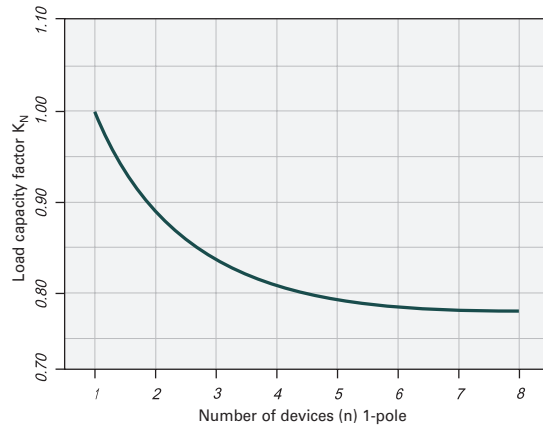
Quick-acting (B), slow (C), very slow (D)

Effect of the Ambient Temperature on Thermal Tripping Behaviour

Adjusted rated current values according to the ambient temperature

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

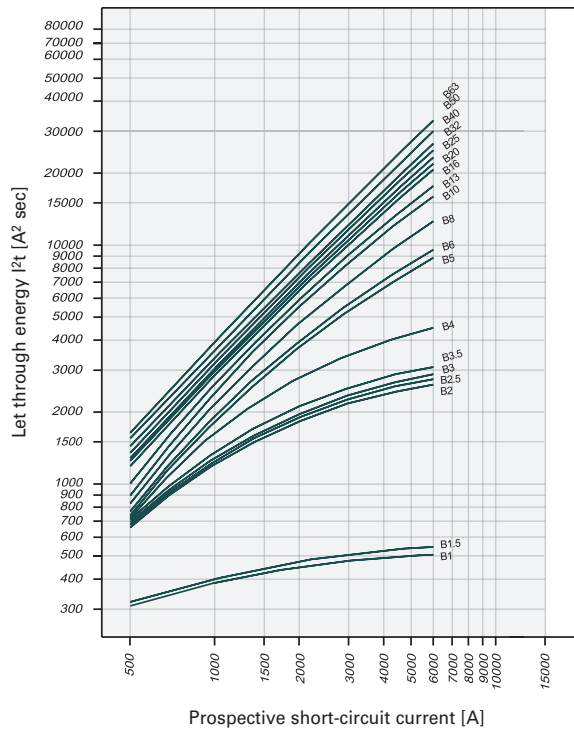
Effect of power frequency on the tripping behaviour I_{MA} of the quick release

	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

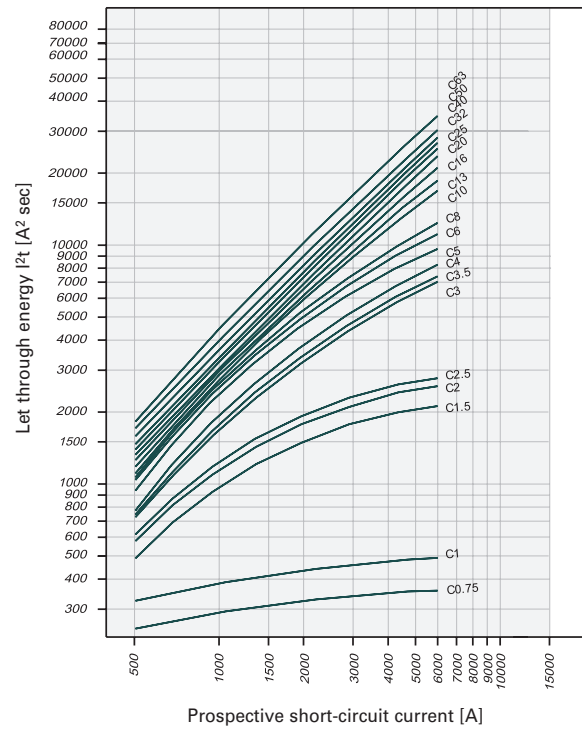
The use of the products in networks with other frequencies than 50/60 Hz is in the customer's responsibility.

Let-through Energy PLS6

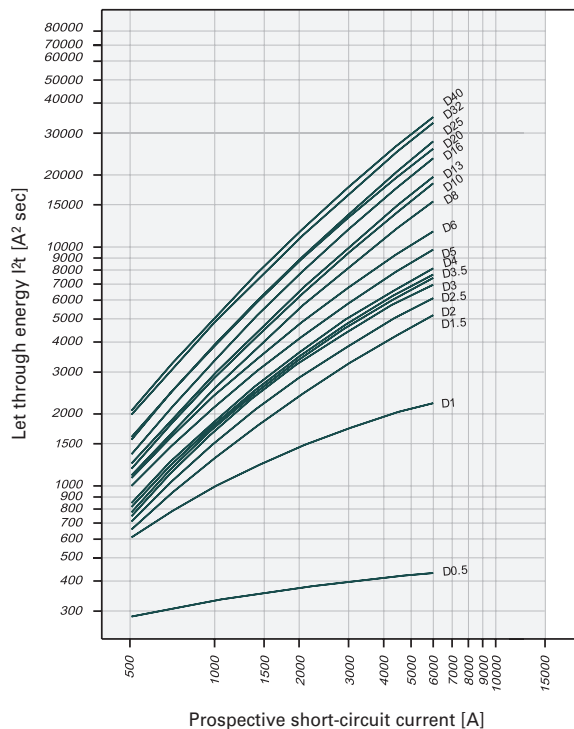
Let-through Energy PLS6, Characteristic B, 1-pole



Let-through Energy PLS6, Characteristic C, 1-pole



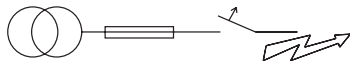
Let-through Energy PLS6, Characteristic D, 1-pole



Short-circuit Selectivity PLS6 towards DII-DIV fuse link

In case of short-circuit, there is selectivity between the miniature circuit breakers PLS6 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***)

PLS6 I_n [A]	DII-DIV gL/gG								
	10	16	20	25	35	50	63	80	100
1.0	<0.5 ¹⁾	1.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.5	<0.5 ¹⁾	1.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.4	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
4	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.0	3.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.0	3.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
6		<0.5 ¹⁾	0.6	0.9	1.8	3.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
8		<0.5 ¹⁾	0.5	0.8	1.6	2.6	5.2	6.0 ²⁾	6.0 ²⁾
10			0.5	0.8	1.4	2.2	3.9	6.0 ²⁾	6.0 ²⁾
13			0.5	0.7	1.3	2.0	3.6	5.4	6.0 ²⁾
16				0.6	1.2	1.9	3.2	4.6	6.0 ²⁾
20					1.2	1.8	3.1	4.4	6.0 ²⁾
25					1.2	1.8	3.0	4.2	6.0 ²⁾
32						1.7	2.8	3.9	6.0 ²⁾
40							2.7	3.8	6.0 ²⁾
50							2.5	3.5	5.7
63									5.3

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

PLS6 I_n [A]	DII-DIV gL/gG								
	10	16	20	25	35	50	63	80	100
0.75	1.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.0	<0.5 ¹⁾	1.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.5	<0.5 ¹⁾	<0.5 ¹⁾	1.0	2.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.4	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.8	0.9	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.2	4.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
4	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.8	1.8	3.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.7	1.5	2.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
6		<0.5 ¹⁾	0.5	0.6	1.4	2.4	5.5	6.0 ²⁾	6.0 ²⁾
8		<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.3	2.2	4.7	6.0 ²⁾	6.0 ²⁾
10			<0.5 ¹⁾	0.6	1.3	2.0	3.6	6.0 ²⁾	6.0 ²⁾
13					1.3	1.9	3.3	5.0	6.0 ²⁾
16					1.2	1.8	3.2	4.4	6.0 ²⁾
20					1.2	1.8	3.1	4.1	6.0 ²⁾
25						1.7	2.8	3.8	6.0 ²⁾
32							2.7	3.7	6.0 ²⁾
40								3.5	5.9
50									5.5
63									

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

PLS6 I_n [A]	DII-DIV gL/gG								
	10	16	20	25	35	50	63	80	100
0.5	0.5	3.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.0	<0.5 ¹⁾	<0.5 ¹⁾	1.0	2.4	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.5	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.2	3.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.0	2.8	5.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.4	2.3	4.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.3	4.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.1	4.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
4		<0.5 ¹⁾	0.6	0.9	2.0	3.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
5		<0.5 ¹⁾	0.5	0.7	1.7	3.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
6			0.5	0.7	1.5	2.6	5.3	6.0 ²⁾	6.0 ²⁾
8			<0.5 ¹⁾	0.7	1.4	2.2	3.9	6.0 ²⁾	6.0 ²⁾
10				0.7	1.2	1.9	3.4	5.0	6.0 ²⁾
13					1.2	1.8	3.2	4.6	6.0 ²⁾
16						1.6	2.7	4.0	6.0 ²⁾
20						1.5	2.5	3.5	6.0 ²⁾
25							2.4	3.4	6.0 ²⁾
32								2.8	5.0
40									4.8

¹⁾ Selectivity limit current I_s under 0.5 kA

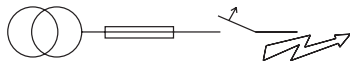
²⁾ Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

Darker areas: no selectivity

Short-circuit Selectivity PLS6 towards D01-D03 fuse link

In case of short-circuit, there is selectivity between the miniature circuit breakers PLS6 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***)

PLS6	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
1.0	<0.5 ¹⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.5	<0.5 ¹⁾	4.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.5	1.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.9	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
4	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.9	2.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
5		<0.5 ¹⁾	0.5	0.8	1.7	4.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
6		<0.5 ¹⁾	0.5	0.8	1.6	3.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
8			0.5	0.8	1.4	2.8	4.3	6.0 ²⁾	6.0 ²⁾
10			0.5	0.7	1.3	2.4	3.4	6.0 ²⁾	6.0 ²⁾
13			<0.5 ¹⁾	0.7	1.2	2.3	3.2	5.3	6.0 ²⁾
16				0.6	1.1	2.2	2.9	4.6	6.0 ²⁾
20					1.1	2.1	2.8	4.4	6.0 ²⁾
25					1.1	2.0	2.7	4.2	6.0 ²⁾
32						2.0	2.6	4.0	6.0 ²⁾
40							2.5	3.8	6.0 ²⁾
50							2.3	3.4	6.0 ²⁾
63									6.0 ²⁾

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

PLS6	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.75	<0.5 ¹⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.0	<0.5 ¹⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.5	<0.5 ¹⁾	0.5	0.6	0.9	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.0	<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.9	5.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.5	<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.8	4.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
4	<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.6	4.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
5		<0.5 ¹⁾	<0.5 ¹⁾	0.5	1.3	3.1	5.7	6.0 ²⁾	6.0 ²⁾
6		<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	1.2	2.7	4.5	6.0 ²⁾	6.0 ²⁾
8		<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	1.2	2.5	4.0	6.0 ²⁾	6.0 ²⁾
10			<0.5 ¹⁾	<0.5 ¹⁾	1.2	2.3	3.1	5.4	6.0 ²⁾
13					1.1	2.2	3.0	4.9	6.0 ²⁾
16					1.1	2.1	2.8	4.4	6.0 ²⁾
20					1.0	2.0	2.6	4.0	6.0 ²⁾
25						1.9	2.5	3.8	6.0 ²⁾
32							2.5	3.7	6.0 ²⁾
40								3.5	6.0 ²⁾
50									6.0 ²⁾
63									

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

PLS6	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
0.5	<0.5 ¹⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.0	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
1.5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.8	2.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.7	1.9	5.4	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.7	1.8	4.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.7	1.7	4.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
4		<0.5 ¹⁾	0.5	0.7	1.7	4.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾
5		<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.5	3.5	5.8	6.0 ²⁾	6.0 ²⁾
6			<0.5 ¹⁾	0.5	1.3	2.9	4.5	6.0 ²⁾	6.0 ²⁾
8			<0.5 ¹⁾	0.5	1.2	2.4	3.5	6.0 ²⁾	6.0 ²⁾
10				0.5	1.1	2.2	3.0	5.0	6.0 ²⁾
13					1.1	2.1	2.9	4.6	6.0 ²⁾
16						1.9	2.6	3.9	6.0 ²⁾
20						1.7	2.3	3.5	6.0 ²⁾
25							2.2	3.4	6.0 ²⁾
32								2.9	6.0 ²⁾
40									5.7

¹⁾ Selectivity limit current I_s under 0.5 kA

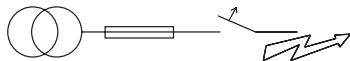
²⁾ Selectivity limit current I_s = rated breaking capacity I_{cn} of the MCB

Darker areas: no selectivity

Short-circuit Selectivity PLS6 towards NH-00 fuse link

In case of short-circuit, there is selectivity between the miniature circuit breakers PLS6 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***)

PLS6	NH-00 gL/gG													
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160		
1.0	0.9	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
1.5	0.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
2.0	<0.5 ¹⁾	0.5	1.0	2.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
2.5	<0.5 ¹⁾	0.5	1.0	2.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
3.0	<0.5 ¹⁾	0.5	0.9	2.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
3.5	<0.5 ¹⁾	0.5	0.9	1.8	5.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
4	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.3	2.3	4.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
5	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.1	1.6	2.2	3.6	4.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
6	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.1	1.5	2.0	3.3	4.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
8	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.0	1.3	1.7	2.6	3.3	5.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
10		<0.5 ¹⁾	0.6	0.9	1.2	1.5	2.2	2.7	4.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
13		<0.5 ¹⁾	0.6	0.8	1.1	1.4	2.1	2.6	3.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
16			0.5	0.7	1.0	1.3	1.9	2.4	3.4	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
20				0.7	1.0	1.3	1.9	2.4	3.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
25				0.7	1.0	1.3	1.8	2.3	3.2	5.7	6.0 ²⁾	6.0 ²⁾		
32					0.9	1.2	1.7	2.2	3.1	5.4	6.0 ²⁾	6.0 ²⁾		
40								2.1	3.0	5.1	6.0 ²⁾	6.0 ²⁾		
50								1.9	2.8	4.7	6.0 ²⁾	6.0 ²⁾		
63									4.4	6.0 ²⁾	6.0 ²⁾			

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

PLS6	NH-00 gL/gG													
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160		
0.75	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
1.0	0.9	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
1.5	<0.5 ¹⁾	0.6	1.3	4.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
2.0	<0.5 ¹⁾	0.6	1.0	2.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
2.5	<0.5 ¹⁾	0.5	1.0	2.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.2	1.8	2.6	4.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.1	1.7	2.4	4.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
4	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.0	1.5	2.1	3.6	5.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.8	1.2	1.7	2.8	3.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
6	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.8	1.2	1.5	2.5	3.3	5.7	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
8	<0.5 ¹⁾	<0.5 ¹⁾	0.5	0.8	1.1	1.5	2.3	2.9	4.9	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
10			0.5	0.7	1.0	1.4	2.0	2.5	3.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
13					1.0	1.3	1.9	2.4	3.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
16						1.0	1.3	1.8	2.3	3.3	6.0 ²⁾	6.0 ²⁾		
20							1.0	1.2	1.7	2.2	3.2	5.5	6.0 ²⁾	6.0 ²⁾
25								1.6	2.1	3.0	5.2	6.0 ²⁾	6.0 ²⁾	
32									2.1	2.9	5.0	6.0 ²⁾	6.0 ²⁾	
40										2.8	4.8	6.0 ²⁾	6.0 ²⁾	
50											4.5	6.0 ²⁾	6.0 ²⁾	
63												5.9	6.0 ²⁾	

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

PLS6	NH-00 gL/gG													
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160		
0.5	2.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
1.0	<0.5 ¹⁾	0.6	1.4	4.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
1.5	<0.5 ¹⁾	<0.5 ¹⁾	0.9	1.6	2.7	4.0	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
2.0	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.3	2.1	3.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
2.5	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.2	1.8	2.6	4.8	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
3.0	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.1	1.7	2.4	4.3	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
3.5	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.1	1.7	2.4	4.2	5.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
4	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.0	1.6	2.2	3.8	5.2	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
5		<0.5 ¹⁾	0.6	0.9	1.4	1.9	3.2	4.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
6		<0.5 ¹⁾	0.5	0.8	1.2	1.6	2.6	3.3	5.5	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
8			0.5	0.8	1.1	1.5	2.2	2.7	4.1	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
10			0.5	0.7	1.0	1.3	1.9	2.5	3.6	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
13					1.0	1.3	1.9	2.3	3.4	6.0 ²⁾	6.0 ²⁾	6.0 ²⁾		
16						1.1	1.6	2.0	3.0	5.5	6.0 ²⁾	6.0 ²⁾		
20							1.4	1.8	2.8	5.0	6.0 ²⁾	6.0 ²⁾		
25								1.8	2.7	4.8	6.0 ²⁾	6.0 ²⁾		
32									2.4	4.1	6.0 ²⁾	6.0 ²⁾		
40										4.0	6.0 ²⁾	6.0 ²⁾		

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

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