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Miniature Circuit Breakers FAZ

SG55812



FAZ

- High-quality miniature circuit breakers for industrial applications 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, K, S, Z
- Rated breaking capacity up to 15 kA according to IEC/EN 60947-2

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FAZ Miniature Circuit Breakers (MCBs)
Characteristic B

SG53112



1-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
1	240/415	15	277	10	FAZ-B1/1	182114	12
1.5	240/415	15	277	10	FAZ-B1,5/1	182115	12
1.6	240/415	15	277	10	FAZ-B1,6/1	182116	12
2	240/415	15	277	10	FAZ-B2/1	182117	12
3	240/415	15	277	10	FAZ-B3/1	182119	12
3.5	240/415	15	277	10	FAZ-B3,5/1	182120	12
4	240/415	15	277	10	FAZ-B4/1	182121	12
5	240/415	15	277	10	FAZ-B5/1	182122	12
6	240/415	15	277	10	FAZ-B6/1	182123	12
8	240/415	15	277	10	FAZ-B8/1	182124	12
10	240/415	15	277	10	FAZ-B10/1	182125	12
12	240/415	15	277	10	FAZ-B12/1	182126	12
13	240/415	15	277	10	FAZ-B13/1	182127	12
15	240/415	15	277	10	FAZ-B15/1	182128	12
16	240/415	15	277	10	FAZ-B16/1	182129	12
20	240/415	15	277	10	FAZ-B20/1	182130	12
25	240/415	15	277	10	FAZ-B25/1	182131	12
32	240/415	15	277	10	FAZ-B32/1	182132	12
40	240/415	15	277	5	FAZ-B40/1	182133	12
50	240/415	15	277	5	FAZ-B50/1	182134	12
63	240/415	15	277	5	FAZ-B63/1	182135	12

SG55612



1+N-pole

1	240	15	277	10	FAZ-B1/1N	182136	6
1.5	240	15	277	10	FAZ-B1,5/1N	182137	6
1.6	240	15	277	10	FAZ-B1,6/1N	182138	6
2	240	15	277	10	FAZ-B2/1N	182139	6
2.5	240	15	277	10	FAZ-B2,5/1N	182140	6
3	240	15	277	10	FAZ-B3/1N	182141	6
3.5	240	15	277	10	FAZ-B3,5/1N	182142	6
4	240	15	277	10	FAZ-B4/1N	182143	6
5	240	15	277	10	FAZ-B5/1N	182144	6
6	240	15	277	10	FAZ-B6/1N	182145	6
8	240	15	277	10	FAZ-B8/1N	182146	6
10	240	15	277	10	FAZ-B10/1N	182147	6
12	240	15	277	10	FAZ-B12/1N	182148	6
13	240	15	277	10	FAZ-B13/1N	182149	6
15	240	15	277	10	FAZ-B15/1N	182150	6
16	240	15	277	10	FAZ-B16/1N	182151	6
20	240	15	277	10	FAZ-B20/1N	182152	6
25	240	15	277	10	FAZ-B25/1N	182153	6
32	240	15	277	10	FAZ-B32/1N	182154	6
40	240	15	277	5	FAZ-B40/1N	182155	6
50	240	15	277	5	FAZ-B50/1N	182156	6
63	240	15	277	5	FAZ-B63/1N	182157	6

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SG55112



2-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
1	415	15	480Y/277	10	FAZ-B1/2	182158	6
1.5	415	15	480Y/277	10	FAZ-B1,5/2	182159	6
1.6	415	15	480Y/277	10	FAZ-B1,6/2	182160	6
2	415	15	480Y/277	10	FAZ-B2/2	182161	6
2.5	415	15	480Y/277	10	FAZ-B2,5/2	182162	6
3	415	15	480Y/277	10	FAZ-B3/2	182112	6
3.5	415	15	480Y/277	10	FAZ-B3,5/2	182113	6
4	415	15	480Y/277	10	FAZ-B4/2	182175	6
5	415	15	480Y/277	10	FAZ-B5/2	182176	6
6	415	15	480Y/277	10	FAZ-B6/2	182177	6
7	415	15	480Y/277	10	FAZ-B7/2	182178	6
8	415	15	480Y/277	10	FAZ-B8/2	182179	6
10	415	15	480Y/277	10	FAZ-B10/2	182180	6
12	415	15	480Y/277	10	FAZ-B12/2	182181	6
13	415	15	480Y/277	10	FAZ-B13/2	182182	6
15	415	15	480Y/277	10	FAZ-B15/2	182183	6
16	415	15	480Y/277	10	FAZ-B16/2	182184	6
20	415	15	480Y/277	10	FAZ-B20/2	182185	6
25	415	15	480Y/277	10	FAZ-B25/2	182186	6
32	415	15	480Y/277	10	FAZ-B32/2	182188	6
40	415	15	480Y/277	5	FAZ-B40/2	182189	6
50	415	15	480Y/277	5	FAZ-B50/2	182190	6
63	415	15	480Y/277	5	FAZ-B63/2	182191	6

SG53412



3-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
1	415	15	480Y/277	10	FAZ-B1/3	182192	4
1.5	415	15	480Y/277	10	FAZ-B1,5/3	182193	4
1.6	415	15	480Y/277	10	FAZ-B1,6/3	182194	4
2	415	15	480Y/277	10	FAZ-B2/3	182195	4
2.5	415	15	480Y/277	10	FAZ-B2,5/3	182196	4
3	415	15	480Y/277	10	FAZ-B3/3	182197	4
3.5	415	15	480Y/277	10	FAZ-B3,5/3	182198	4
4	415	15	480Y/277	10	FAZ-B4/3	182199	4
5	415	15	480Y/277	10	FAZ-B5/3	182200	4
6	415	15	480Y/277	10	FAZ-B6/3	182201	4
7	415	15	480Y/277	10	FAZ-B7/3	182202	4
8	415	15	480Y/277	10	FAZ-B8/3	182203	4
10	415	15	480Y/277	10	FAZ-B10/3	182204	4
12	415	15	480Y/277	10	FAZ-B12/3	182205	4
13	415	15	480Y/277	10	FAZ-B13/3	182206	4
15	415	15	480Y/277	10	FAZ-B15/3	182207	4
16	415	15	480Y/277	10	FAZ-B16/3	182208	4
20	415	15	480Y/277	10	FAZ-B20/3	182209	4
25	415	15	480Y/277	10	FAZ-B25/3	182210	4
32	415	15	480Y/277	10	FAZ-B32/3	182212	4
40	415	15	480Y/277	5	FAZ-B40/3	182213	4
50	415	15	480Y/277	5	FAZ-B50/3	182214	4
63	415	15	480Y/277	5	FAZ-B63/3	182215	4

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SG55712



3+N-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
1	415	15	480Y/277	10	FAZ-B1/3N	182216	3
1.5	415	15	480Y/277	10	FAZ-B1,5/3N	182217	3
1.6	415	15	480Y/277	10	FAZ-B1,6/3N	182218	3
2	415	15	480Y/277	10	FAZ-B2/3N	182219	3
2.5	415	15	480Y/277	10	FAZ-B2,5/3N	182220	3
3	415	15	480Y/277	10	FAZ-B3/3N	182221	3
3.5	415	15	480Y/277	10	FAZ-B3,5/3N	182222	3
4	415	15	480Y/277	10	FAZ-B4/3N	182223	3
5	415	15	480Y/277	10	FAZ-B5/3N	182224	3
6	415	15	480Y/277	10	FAZ-B6/3N	182225	3
8	415	15	480Y/277	10	FAZ-B8/3N	182226	3
10	415	15	480Y/277	10	FAZ-B10/3N	182227	3
12	415	15	480Y/277	10	FAZ-B12/3N	182228	3
13	415	15	480Y/277	10	FAZ-B13/3N	182229	3
15	415	15	480Y/277	10	FAZ-B15/3N	182230	3
16	415	15	480Y/277	10	FAZ-B16/3N	182231	3
20	415	15	480Y/277	10	FAZ-B20/3N	182232	3
25	415	15	480Y/277	10	FAZ-B25/3N	182233	3
32	415	15	480Y/277	10	FAZ-B32/3N	182234	3
40	415	15	480Y/277	5	FAZ-B40/3N	182235	3
50	415	15	480Y/277	5	FAZ-B50/3N	182236	3
63	415	15	480Y/277	5	FAZ-B63/3N	182237	3

SG55812



4-pole

1	415	15	480Y/277	10	FAZ-B1/4	182238	3
1.5	415	15	480Y/277	10	FAZ-B1,5/4	182239	3
1.6	415	15	480Y/277	10	FAZ-B1,6/4	182240	3
2	415	15	480Y/277	10	FAZ-B2/4	182241	3
2.5	415	15	480Y/277	10	FAZ-B2,5/4	182242	3
3	415	15	480Y/277	10	FAZ-B3/4	182243	3
3.5	415	15	480Y/277	10	FAZ-B3,5/4	182244	3
4	415	15	480Y/277	10	FAZ-B4/4	182245	3
5	415	15	480Y/277	10	FAZ-B5/4	182246	3
6	415	15	480Y/277	10	FAZ-B6/4	182247	3
7	415	15	480Y/277	10	FAZ-B7/4	182248	3
8	415	15	480Y/277	10	FAZ-B8/4	182249	3
10	415	15	480Y/277	10	FAZ-B10/4	182250	3
12	415	15	480Y/277	10	FAZ-B12/4	182251	3
13	415	15	480Y/277	10	FAZ-B13/4	182252	3
15	415	15	480Y/277	10	FAZ-B15/4	182253	3
16	415	15	480Y/277	10	FAZ-B16/4	182254	3
20	415	15	480Y/277	10	FAZ-B20/4	182255	3
25	415	15	480Y/277	10	FAZ-B25/4	182256	3
32	415	15	480Y/277	10	FAZ-B32/4	182257	3
40	415	15	480Y/277	5	FAZ-B40/4	182258	3
50	415	15	480Y/277	5	FAZ-B50/4	182259	3
63	415	15	480Y/277	5	FAZ-B63/4	182260	3

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FAZ Miniature Circuit Breakers (MCBs)
Characteristic C

SG53112



1-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.16	240/415	15	277	5	FAZ-C0,16/1	182261	12
0.25	240/415	15	277	5	FAZ-C0,25/1	182262	12
0.5	240/415	15	277	10	FAZ-C0,5/1	182263	12
0.75	240/415	15	277	10	FAZ-C0,75/1	182264	12
1	240/415	15	277	10	FAZ-C1/1	182265	12
1.5	240/415	15	277	10	FAZ-C1,5/1	182266	12
1.6	240/415	15	277	10	FAZ-C1,6/1	182267	12
2	240/415	15	277	10	FAZ-C2/1	182268	12
2.5	240/415	15	277	10	FAZ-C2,5/1	182269	12
3	240/415	15	277	10	FAZ-C3/1	182270	12
3.5	240/415	15	277	10	FAZ-C3,5/1	182271	12
4	240/415	15	277	10	FAZ-C4/1	182272	12
5	240/415	15	277	10	FAZ-C5/1	182273	12
6	240/415	15	277	10	FAZ-C6/1	182274	12
8	240/415	15	277	10	FAZ-C8/1	182275	12
10	240/415	15	277	10	FAZ-C10/1	182276	12
12	240/415	15	277	10	FAZ-C12/1	182277	12
13	240/415	15	277	10	FAZ-C13/1	182278	12
15	240/415	15	277	10	FAZ-C15/1	182279	12
16	240/415	15	277	10	FAZ-C16/1	182280	12
20	240/415	15	277	10	FAZ-C20/1	182281	12
25	240/415	15	277	10	FAZ-C25/1	182282	12
32	240/415	15	277	10	FAZ-C32/1	182283	12
40	240/415	15	277	5	FAZ-C40/1	182284	12
50	240/415	15	277	5	FAZ-C50/1	182285	12
63	240/415	15	277	5	FAZ-C63/1	182286	12

SG55612



1+N-pole

0.16	240	15	277	5	FAZ-C0,16/1N	182287	6
0.25	240	15	277	5	FAZ-C0,25/1N	182288	6
0.5	240	15	277	10	FAZ-C0,5/1N	182289	6
0.75	240	15	277	10	FAZ-C0,75/1N	182290	6
1	240	15	277	10	FAZ-C1/1N	182291	6
1.5	240	15	277	10	FAZ-C1,5/1N	182292	6
1.6	240	15	277	10	FAZ-C1,6/1N	182293	6
2	240	15	277	10	FAZ-C2/1N	182294	6
2.5	240	15	277	10	FAZ-C2,5/1N	182295	6
3	240	15	277	10	FAZ-C3/1N	182296	6
3.5	240	15	277	10	FAZ-C3,5/1N	182297	6
4	240	15	277	10	FAZ-C4/1N	182298	6
5	240	15	277	10	FAZ-C5/1N	182299	6
6	240	15	277	10	FAZ-C6/1N	182300	6
8	240	15	277	10	FAZ-C8/1N	182301	6
10	240	15	277	10	FAZ-C10/1N	182302	6
12	240	15	277	10	FAZ-C12/1N	182303	6
13	240	15	277	10	FAZ-C13/1N	182304	6
15	240	15	277	10	FAZ-C15/1N	182305	6
16	240	15	277	10	FAZ-C16/1N	182306	6
20	240	15	277	10	FAZ-C20/1N	182307	6
25	240	15	277	10	FAZ-C25/1N	182308	6
32	240	15	277	10	FAZ-C32/1N	182309	6
40	240	15	277	5	FAZ-C40/1N	182310	6
50	240	15	277	5	FAZ-C50/1N	182311	6
63	240	15	277	5	FAZ-C63/1N	182312	6

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SG55112



2-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.16	415	15	480Y/277	5	FAZ-C0,16/2	182313	6
0.25	415	15	480Y/277	5	FAZ-C0,25/2	182314	6
0.5	415	15	480Y/277	10	FAZ-C0,5/2	182315	6
0.75	415	15	480Y/277	10	FAZ-C0,75/2	182316	6
1	415	15	480Y/277	10	FAZ-C1/2	182317	6
1.5	415	15	480Y/277	10	FAZ-C1,5/2	182318	6
1.6	415	15	480Y/277	10	FAZ-C1,6/2	182319	6
2	415	15	480Y/277	10	FAZ-C2/2	182320	6
2.5	415	15	480Y/277	10	FAZ-C2,5/2	182321	6
3	415	15	480Y/277	10	FAZ-C3/2	182322	6
3.5	415	15	480Y/277	10	FAZ-C3,5/2	182323	6
4	415	15	480Y/277	10	FAZ-C4/2	182324	6
5	415	15	480Y/277	10	FAZ-C5/2	182325	6
6	415	15	480Y/277	10	FAZ-C6/2	182326	6
7	415	15	480Y/277	10	FAZ-C7/2	182327	6
8	415	15	480Y/277	10	FAZ-C8/2	182328	6
10	415	15	480Y/277	10	FAZ-C10/2	182329	6
12	415	15	480Y/277	10	FAZ-C12/2	182330	6
13	415	15	480Y/277	10	FAZ-C13/2	182331	6
15	415	15	480Y/277	10	FAZ-C15/2	182332	6
16	415	15	480Y/277	10	FAZ-C16/2	182333	6
20	415	15	480Y/277	10	FAZ-C20/2	182334	6
25	415	15	480Y/277	10	FAZ-C25/2	182335	6
30	415	15	480Y/277	10	FAZ-C30/2	182336	6
32	415	15	480Y/277	10	FAZ-C32/2	182337	6
40	415	15	480Y/277	5	FAZ-C40/2	182338	6
50	415	15	480Y/277	5	FAZ-C50/2	182339	6
63	415	15	480Y/277	5	FAZ-C63/2	182340	6

SG53412



3-pole

0.16	415	15	480Y/277	5	FAZ-C0,16/3	182341	4
0.25	415	15	480Y/277	5	FAZ-C0,25/3	182342	4
0.5	415	15	480Y/277	10	FAZ-C0,5/3	182163	4
0.75	415	15	480Y/277	10	FAZ-C0,75/3	182164	4
1	415	15	480Y/277	10	FAZ-C1/3	182165	4
1.5	415	15	480Y/277	10	FAZ-C1,5/3	182166	4
1.6	415	15	480Y/277	10	FAZ-C1,6/3	182167	4
2	415	15	480Y/277	10	FAZ-C2/3	182168	4
2.5	415	15	480Y/277	10	FAZ-C2,5/3	182169	4
3	415	15	480Y/277	10	FAZ-C3/3	182170	4
3.5	415	15	480Y/277	10	FAZ-C3,5/3	182171	4
4	415	15	480Y/277	10	FAZ-C4/3	182172	4
5	415	15	480Y/277	10	FAZ-C5/3	182173	4
6	415	15	480Y/277	10	FAZ-C6/3	182174	4
7	415	15	480Y/277	10	FAZ-C7/3	181651	4
8	415	15	480Y/277	10	FAZ-C8/3	181652	4
10	415	15	480Y/277	10	FAZ-C10/3	181653	4
12	415	15	480Y/277	10	FAZ-C12/3	181654	4
13	415	15	480Y/277	10	FAZ-C13/3	181655	4
15	415	15	480Y/277	10	FAZ-C15/3	181656	4
16	415	15	480Y/277	10	FAZ-C16/3	181657	4
20	415	15	480Y/277	10	FAZ-C20/3	181658	4
25	415	15	480Y/277	10	FAZ-C25/3	181659	4
30	415	15	480Y/277	10	FAZ-C30/3	181660	4
32	415	15	480Y/277	10	FAZ-C32/3	181661	4
40	415	15	480Y/277	5	FAZ-C40/3	181662	4
50	415	15	480Y/277	5	FAZ-C50/3	181663	4
63	415	15	480Y/277	5	FAZ-C63/3	181664	4

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SG55712



3+N-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.16	415	15	480Y/277	5	FAZ-C0,16/3N	181665	3
0.25	415	15	480Y/277	5	FAZ-C0,25/3N	181666	3
0.5	415	15	480Y/277	10	FAZ-C0,5/3N	181667	3
0.75	415	15	480Y/277	10	FAZ-C0,75/3N	181668	3
1	415	15	480Y/277	10	FAZ-C1/3N	181669	3
1.5	415	15	480Y/277	10	FAZ-C1,5/3N	181670	3
1.6	415	15	480Y/277	10	FAZ-C1,6/3N	181671	3
2	415	15	480Y/277	10	FAZ-C2/3N	181672	3
2.5	415	15	480Y/277	10	FAZ-C2,5/3N	181673	3
3	415	15	480Y/277	10	FAZ-C3/3N	181674	3
3.5	415	15	480Y/277	10	FAZ-C3,5/3N	181675	3
4	415	15	480Y/277	10	FAZ-C4/3N	181676	3
5	415	15	480Y/277	10	FAZ-C5/3N	181677	3
6	415	15	480Y/277	10	FAZ-C6/3N	181678	3
8	415	15	480Y/277	10	FAZ-C8/3N	181679	3
10	415	15	480Y/277	10	FAZ-C10/3N	181680	3
12	415	15	480Y/277	10	FAZ-C12/3N	181681	3
13	415	15	480Y/277	10	FAZ-C13/3N	181682	3
15	415	15	480Y/277	10	FAZ-C15/3N	181683	3
16	415	15	480Y/277	10	FAZ-C16/3N	181684	3
20	415	15	480Y/277	10	FAZ-C20/3N	181685	3
25	415	15	480Y/277	10	FAZ-C25/3N	181686	3
32	415	15	480Y/277	10	FAZ-C32/3N	181687	3
40	415	15	480Y/277	5	FAZ-C40/3N	181688	3
50	415	15	480Y/277	5	FAZ-C50/3N	181689	3
63	415	15	480Y/277	5	FAZ-C63/3N	181690	3

SG55812



4-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.16	415	15	480Y/277	5	FAZ-C0,16/4	181691	3
0.25	415	15	480Y/277	5	FAZ-C0,25/4	181692	3
0.5	415	15	480Y/277	10	FAZ-C0,5/4	181693	3
0.75	415	15	480Y/277	10	FAZ-C0,75/4	181694	3
1	415	15	480Y/277	10	FAZ-C1/4	181695	3
1.5	415	15	480Y/277	10	FAZ-C1,5/4	181696	3
1.6	415	15	480Y/277	10	FAZ-C1,6/4	181697	3
2	415	15	480Y/277	10	FAZ-C2/4	181698	3
2.5	415	15	480Y/277	10	FAZ-C2,5/4	181699	3
3	415	15	480Y/277	10	FAZ-C3/4	181700	3
3.5	415	15	480Y/277	10	FAZ-C3,5/4	181701	3
4	415	15	480Y/277	10	FAZ-C4/4	181702	3
5	415	15	480Y/277	10	FAZ-C5/4	181703	3
6	415	15	480Y/277	10	FAZ-C6/4	181704	3
7	415	15	480Y/277	10	FAZ-C7/4	181705	3
8	415	15	480Y/277	10	FAZ-C8/4	181706	3
10	415	15	480Y/277	10	FAZ-C10/4	181707	3
12	415	15	480Y/277	10	FAZ-C12/4	181708	3
13	415	15	480Y/277	10	FAZ-C13/4	181709	3
15	415	15	480Y/277	10	FAZ-C15/4	181710	3
16	415	15	480Y/277	10	FAZ-C16/4	181711	3
20	415	15	480Y/277	10	FAZ-C20/4	181712	3
25	415	15	480Y/277	10	FAZ-C25/4	181713	3
32	415	15	480Y/277	10	FAZ-C32/4	181714	3
40	415	15	480Y/277	5	FAZ-C40/4	181715	3
50	415	15	480Y/277	5	FAZ-C50/4	181716	3
63	415	15	480Y/277	5	FAZ-C63/4	181717	3

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FAZ Miniature Circuit Breakers (MCBs)
Characteristic D

SG53112



1-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	240/415	15	277	5	FAZ-D0,5/1	181718	12
1	240/415	15	277	5	FAZ-D1/1	181719	12
1.5	240/415	15	277	5	FAZ-D1,5/1	181720	12
1.6	240/415	15	277	5	FAZ-D1,6/1	181721	12
2	240/415	15	277	5	FAZ-D2/1	181722	12
2.5	240/415	15	277	5	FAZ-D2,5/1	181723	12
3	240/415	15	277	5	FAZ-D3/1	181724	12
3.5	240/415	15	277	5	FAZ-D3,5/1	181725	12
4	240/415	15	277	5	FAZ-D4/1	181726	12
5	240/415	15	277	5	FAZ-D5/1	181727	12
6	240/415	15	277	5	FAZ-D6/1	181728	12
8	240/415	15	277	5	FAZ-D8/1	181729	12
10	240/415	15	277	5	FAZ-D10/1	181730	12
12	240/415	15	277	5	FAZ-D12/1	181731	12
13	240/415	15	277	5	FAZ-D13/1	181732	12
15	240/415	15	277	5	FAZ-D15/1	181733	12
16	240/415	15	277	5	FAZ-D16/1	181734	12
20	240/415	15	277	5	FAZ-D20/1	181735	12
25	240/415	15	277	5	FAZ-D25/1	181736	12
32	240/415	15	277	5	FAZ-D32/1	181737	12
40	240/415	15	277	5	FAZ-D40/1	181738	12
50	240/415	10	-	-	FAZ-D50/1	181739	12
63	240/415	10	-	-	FAZ-D63/1	181740	12

SG55612



1+N-pole

0.5	240	15	277	5	FAZ-D0,5/1N	181741	6
1	240	15	277	5	FAZ-D1/1N	181742	6
1.5	240	15	277	5	FAZ-D1,5/1N	181743	6
1.6	240	15	277	5	FAZ-D1,6/1N	181744	6
2	240	15	277	5	FAZ-D2/1N	181745	6
2.5	240	15	277	5	FAZ-D2,5/1N	181746	6
3	240	15	277	5	FAZ-D3/1N	181747	6
3.5	240	15	277	5	FAZ-D3,5/1N	181748	6
4	240	15	277	5	FAZ-D4/1N	181749	6
5	240	15	277	5	FAZ-D5/1N	181750	6
6	240	15	277	5	FAZ-D6/1N	181751	6
8	240	15	277	5	FAZ-D8/1N	181752	6
10	240	15	277	5	FAZ-D10/1N	181753	6
12	240	15	277	5	FAZ-D12/1N	181754	6
13	240	15	277	5	FAZ-D13/1N	181755	6
15	240	15	277	5	FAZ-D15/1N	181756	6
16	240	15	277	5	FAZ-D16/1N	181757	6
20	240	15	277	5	FAZ-D20/1N	181758	6
25	240	15	277	5	FAZ-D25/1N	181759	6
32	240	15	277	5	FAZ-D32/1N	181760	6
40	240	15	277	5	FAZ-D40/1N	181761	6
50	240	10	-	-	FAZ-D50/1N	181762	6
63	240	10	-	-	FAZ-D63/1N	181763	6

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SG55112



2-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-D0,5/2	181764	6
1	415	15	480Y/277	5	FAZ-D1/2	181765	6
1.5	415	15	480Y/277	5	FAZ-D1,5/2	181766	6
1.6	415	15	480Y/277	5	FAZ-D1,6/2	181767	6
2	415	15	480Y/277	5	FAZ-D2/2	181768	6
2.5	415	15	480Y/277	5	FAZ-D2,5/2	181769	6
3	415	15	480Y/277	5	FAZ-D3/2	181770	6
3.5	415	15	480Y/277	5	FAZ-D3,5/2	181771	6
4	415	15	480Y/277	5	FAZ-D4/2	181772	6
5	415	15	480Y/277	5	FAZ-D5/2	181773	6
6	415	15	480Y/277	5	FAZ-D6/2	181774	6
7	415	15	480Y/277	5	FAZ-D7/2	181775	6
8	415	15	480Y/277	5	FAZ-D8/2	181776	6
10	415	15	480Y/277	5	FAZ-D10/2	181777	6
12	415	15	480Y/277	5	FAZ-D12/2	181778	6
13	415	15	480Y/277	5	FAZ-D13/2	181779	6
15	415	15	480Y/277	5	FAZ-D15/2	181780	6
16	415	15	480Y/277	5	FAZ-D16/2	181781	6
20	415	15	480Y/277	5	FAZ-D20/2	181782	6
25	415	15	480Y/277	5	FAZ-D25/2	181783	6
32	415	15	480Y/277	5	FAZ-D32/2	181785	6
40	415	15	480Y/277	5	FAZ-D40/2	181786	6
50	415	10	-	-	FAZ-D50/2	181787	6
63	415	10	-	-	FAZ-D63/2	181788	6

SG53412



3-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-D0,5/3	181789	4
1	415	15	480Y/277	5	FAZ-D1/3	181790	4
1.5	415	15	480Y/277	5	FAZ-D1,5/3	181791	4
1.6	415	15	480Y/277	5	FAZ-D1,6/3	181792	4
2	415	15	480Y/277	5	FAZ-D2/3	181793	4
2.5	415	15	480Y/277	5	FAZ-D2,5/3	181794	4
3	415	15	480Y/277	5	FAZ-D3/3	181795	4
3.5	415	15	480Y/277	5	FAZ-D3,5/3	181796	4
4	415	15	480Y/277	5	FAZ-D4/3	181797	4
5	415	15	480Y/277	5	FAZ-D5/3	181798	4
6	415	15	480Y/277	5	FAZ-D6/3	181799	4
7	415	15	480Y/277	5	FAZ-D7/3	181800	4
8	415	15	480Y/277	5	FAZ-D8/3	181801	4
10	415	15	480Y/277	5	FAZ-D10/3	181802	4
12	415	15	480Y/277	5	FAZ-D12/3	181803	4
13	415	15	480Y/277	5	FAZ-D13/3	181804	4
15	415	15	480Y/277	5	FAZ-D15/3	181805	4
16	415	15	480Y/277	5	FAZ-D16/3	181806	4
20	415	15	480Y/277	5	FAZ-D20/3	181807	4
25	415	15	480Y/277	5	FAZ-D25/3	181808	4
30	415	15	480Y/277	5	FAZ-D30/3	181809	4
32	415	15	480Y/277	5	FAZ-D32/3	181810	4
40	415	10	480Y/277	5	FAZ-D40/3	181811	4
50	415	10	-	-	FAZ-D50/3	181812	4
63	415	10	-	-	FAZ-D63/3	181813	4

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SG55712



3+N-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-D0,5/3N	181814	3
1	415	15	480Y/277	5	FAZ-D1/3N	181815	3
1.5	415	15	480Y/277	5	FAZ-D1,5/3N	181816	3
1.6	415	15	480Y/277	5	FAZ-D1,6/3N	181817	3
2	415	15	480Y/277	5	FAZ-D2/3N	181818	3
2.5	415	15	480Y/277	5	FAZ-D2,5/3N	181819	3
3	415	15	480Y/277	5	FAZ-D3/3N	181820	3
3.5	415	15	480Y/277	5	FAZ-D3,5/3N	181821	3
4	415	15	480Y/277	5	FAZ-D4/3N	181822	3
5	415	15	480Y/277	5	FAZ-D5/3N	181823	3
6	415	15	480Y/277	5	FAZ-D6/3N	181824	3
8	415	15	480Y/277	5	FAZ-D8/3N	181825	3
10	415	15	480Y/277	5	FAZ-D10/3N	181826	3
12	415	15	480Y/277	5	FAZ-D12/3N	181827	3
13	415	15	480Y/277	5	FAZ-D13/3N	181828	3
15	415	15	480Y/277	5	FAZ-D15/3N	181829	3
16	415	15	480Y/277	5	FAZ-D16/3N	181830	3
20	415	15	480Y/277	5	FAZ-D20/3N	181639	3
25	415	15	480Y/277	5	FAZ-D25/3N	181640	3
32	415	15	480Y/277	5	FAZ-D32/3N	181641	3
40	415	15	480Y/277	5	FAZ-D40/3N	181642	3
50	415	10	-	-	FAZ-D50/3N	181643	3
63	415	10	-	-	FAZ-D63/3N	181644	3

SG55812



4-pole

0.5	415	15	480Y/277	5	FAZ-D0,5/4	181645	3
1	415	15	480Y/277	5	FAZ-D1/4	181646	3
1.5	415	15	480Y/277	5	FAZ-D1,5/4	181647	3
1.6	415	15	480Y/277	5	FAZ-D1,6/4	181648	3
2	415	15	480Y/277	5	FAZ-D2/4	181649	3
2.5	415	15	480Y/277	5	FAZ-D2,5/4	181650	3
3	415	15	480Y/277	5	FAZ-D3/4	181843	3
3.5	415	15	480Y/277	5	FAZ-D3,5/4	181844	3
4	415	15	480Y/277	5	FAZ-D4/4	181845	3
5	415	15	480Y/277	5	FAZ-D5/4	181846	3
6	415	15	480Y/277	5	FAZ-D6/4	181847	3
7	415	15	480Y/277	5	FAZ-D7/4	181848	3
8	415	15	480Y/277	5	FAZ-D8/4	181849	3
10	415	15	480Y/277	5	FAZ-D10/4	181850	3
12	415	15	480Y/277	5	FAZ-D12/4	181851	3
13	415	15	480Y/277	5	FAZ-D13/4	181852	3
15	415	15	480Y/277	5	FAZ-D15/4	181853	3
16	415	15	480Y/277	5	FAZ-D16/4	181854	3
20	415	15	480Y/277	5	FAZ-D20/4	181855	3
25	415	15	480Y/277	5	FAZ-D25/4	181856	3
32	415	15	480Y/277	5	FAZ-D32/4	181857	3
40	415	10	480Y/277	5	FAZ-D40/4	181858	3
50	415	10	-	-	FAZ-D50/4	181859	3
63	415	10	-	-	FAZ-D63/4	181860	3

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FAZ Miniature Circuit Breakers (MCBs)
Characteristic K

SG53112



1-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	240/415	15	277	5	FAZ-K0,5/1	278589	12/120
1	240/415	15	277	5	FAZ-K1/1	278590	12/120
1.6	240/415	15	277	5	FAZ-K1,6/1	278591	12/120
2	240/415	15	277	5	FAZ-K2/1	278592	12/120
3	240/415	15	277	5	FAZ-K3/1	278593	12/120
4	240/415	15	277	5	FAZ-K4/1	278594	12/120
6	240/415	15	277	5	FAZ-K6/1	278595	12/120
8	240/415	15	277	5	FAZ-K8/1	278596	12/120
10	240/415	15	277	5	FAZ-K10/1	278597	12/120
13	240/415	15	277	5	FAZ-K13/1	278598	12/120
16	240/415	15	277	5	FAZ-K16/1	278599	12/120
20	240/415	15	277	5	FAZ-K20/1	278600	12/120
25	240/415	15	277	5	FAZ-K25/1	278601	12/120
32	240/415	15	277	5	FAZ-K32/1	278602	12/120
40	240/415	15	277	5	FAZ-K40/1	278603	12/120
50	240/415	15	277	5	FAZ-K50/1	278604	12/120
63	240/415	15	277	5	FAZ-K63/1	278605	12/120

SG55612



1+N-pole

0.5	240	15	277	5	FAZ-K0,5/1N	278702	1/60
1	240	15	277	5	FAZ-K1/1N	278703	1/60
1.6	240	15	277	5	FAZ-K1,6/1N	278704	1/60
2	240	15	277	5	FAZ-K2/1N	278705	1/60
3	240	15	277	5	FAZ-K3/1N	278706	1/60
4	240	15	277	5	FAZ-K4/1N	278707	1/60
6	240	15	277	5	FAZ-K6/1N	278708	1/60
8	240	15	277	5	FAZ-K8/1N	278709	1/60
10	240	15	277	5	FAZ-K10/1N	278710	1/60
13	240	15	277	5	FAZ-K13/1N	278711	1/60
16	240	15	277	5	FAZ-K16/1N	278712	1/60
20	240	15	277	5	FAZ-K20/1N	278713	1/60
25	240	15	277	5	FAZ-K25/1N	278714	1/60
32	240	15	277	5	FAZ-K32/1N	278715	1/60
40	240	15	277	5	FAZ-K40/1N	278716	1/60
50	240	15	277	5	FAZ-K50/1N	278717	1/60
63	240	15	277	5	FAZ-K63/1N	278718	1/60

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SG55112



2-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-K0,5/2	278788	1/60
1	415	15	480Y/277	5	FAZ-K1/2	278789	1/60
1.6	415	15	480Y/277	5	FAZ-K1,6/2	278790	1/60
2	415	15	480Y/277	5	FAZ-K2/2	278791	1/60
3	415	15	480Y/277	5	FAZ-K3/2	278792	1/60
4	415	15	480Y/277	5	FAZ-K4/2	278793	1/60
6	415	15	480Y/277	5	FAZ-K6/2	278794	1/60
8	415	15	480Y/277	5	FAZ-K8/2	278795	1/60
10	415	15	480Y/277	5	FAZ-K10/2	278796	1/60
13	415	15	480Y/277	5	FAZ-K13/2	278797	1/60
16	415	15	480Y/277	5	FAZ-K16/2	278798	1/60
20	415	15	480Y/277	5	FAZ-K20/2	278799	1/60
25	415	15	480Y/277	5	FAZ-K25/2	278800	1/60
32	415	15	480Y/277	5	FAZ-K32/2	278801	1/60
40	415	15	480Y/277	5	FAZ-K40/2	278802	1/60
50	415	15	480Y/277	5	FAZ-K50/2	278803	1/60
63	415	15	480Y/277	5	FAZ-K63/2	278804	1/60

SG53412



3-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-K0,5/3	278901	1/40
1	415	15	480Y/277	5	FAZ-K1/3	278902	1/40
1.6	415	15	480Y/277	5	FAZ-K1,6/3	278903	1/40
2	415	15	480Y/277	5	FAZ-K2/3	278904	1/40
3	415	15	480Y/277	5	FAZ-K3/3	278905	1/40
4	415	15	480Y/277	5	FAZ-K4/3	278906	1/40
6	415	15	480Y/277	5	FAZ-K6/3	278907	1/40
8	415	15	480Y/277	5	FAZ-K8/3	278908	1/40
10	415	15	480Y/277	5	FAZ-K10/3	278909	1/40
13	415	15	480Y/277	5	FAZ-K13/3	278910	1/40
16	415	15	480Y/277	5	FAZ-K16/3	278911	1/40
20	415	15	480Y/277	5	FAZ-K20/3	278912	1/40
25	415	15	480Y/277	5	FAZ-K25/3	278913	1/40
32	415	15	480Y/277	5	FAZ-K32/3	278914	1/40
40	415	15	480Y/277	5	FAZ-K40/3	278915	1/40
50	415	15	480Y/277	5	FAZ-K50/3	278916	1/40
63	415	15	480Y/277	5	FAZ-K63/3	278917	1/40

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SG55712



3+N-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-K0,5/3N	279003	1/30
1	415	15	480Y/277	5	FAZ-K1/3N	279004	1/30
1.6	415	15	480Y/277	5	FAZ-K1,6/3N	279005	1/30
2	415	15	480Y/277	5	FAZ-K2/3N	279006	1/30
3	415	15	480Y/277	5	FAZ-K3/3N	279007	1/30
4	415	15	480Y/277	5	FAZ-K4/3N	279008	1/30
6	415	15	480Y/277	5	FAZ-K6/3N	279009	1/30
8	415	15	480Y/277	5	FAZ-K8/3N	279010	1/30
10	415	15	480Y/277	5	FAZ-K10/3N	279011	1/30
13	415	15	480Y/277	5	FAZ-K13/3N	279012	1/30
16	415	15	480Y/277	5	FAZ-K16/3N	279013	1/30
20	415	15	480Y/277	5	FAZ-K20/3N	279014	1/30
25	415	15	480Y/277	5	FAZ-K25/3N	279015	1/30
32	415	15	480Y/277	5	FAZ-K32/3N	279016	1/30
40	415	15	480Y/277	5	FAZ-K40/3N	279017	1/30
50	415	15	480Y/277	5	FAZ-K50/3N	279018	1/30
63	415	15	480Y/277	5	FAZ-K63/3N	279019	1/30

SG55812



4-pole

0.5	415	15	480Y/277	5	FAZ-K0,5/4	279089	1/30
1	415	15	480Y/277	5	FAZ-K1/4	279090	1/30
1.6	415	15	480Y/277	5	FAZ-K1,6/4	279091	1/30
2	415	15	480Y/277	5	FAZ-K2/4	279092	1/30
3	415	15	480Y/277	5	FAZ-K3/4	279093	1/30
4	415	15	480Y/277	5	FAZ-K4/4	279094	1/30
6	415	15	480Y/277	5	FAZ-K6/4	279095	1/30
8	415	15	480Y/277	5	FAZ-K8/4	279096	1/30
10	415	15	480Y/277	5	FAZ-K10/4	279097	1/30
13	415	15	480Y/277	5	FAZ-K13/4	279098	1/30
16	415	15	480Y/277	5	FAZ-K16/4	279099	1/30
20	415	15	480Y/277	5	FAZ-K20/4	279100	1/30
25	415	15	480Y/277	5	FAZ-K25/4	279101	1/30
32	415	15	480Y/277	5	FAZ-K32/4	279102	1/30
40	415	15	480Y/277	5	FAZ-K40/4	279103	1/30
50	415	15	480Y/277	5	FAZ-K50/4	279104	1/30
63	415	15	480Y/277	5	FAZ-K63/4	279105	1/30

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FAZ Miniature Circuit Breakers (MCBs)
Characteristic S

SG53112



1-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
1	240/415	10	277	5	FAZ-S1/1	181861	12
2	240/415	10	277	5	FAZ-S2/1	181862	12
3	240/415	10	277	5	FAZ-S3/1	181863	12
4	240/415	10	277	5	FAZ-S4/1	181864	12
6	240/415	10	277	5	FAZ-S6/1	181865	12
10	240/415	10	277	5	FAZ-S10/1	181866	12
16	240/415	10	277	5	FAZ-S16/1	181867	12
20	240/415	10	277	5	FAZ-S20/1	181868	12
25	240/415	10	277	5	FAZ-S25/1	181869	12
32	240/415	10	277	5	FAZ-S32/1	181870	12
40	240/415	10	277	5	FAZ-S40/1	181871	12

SG55112



2-pole

1	415	10	480Y/277	5	FAZ-S1/2	181872	6
2	415	10	480Y/277	5	FAZ-S2/2	181873	6
3	415	10	480Y/277	5	FAZ-S3/2	181874	6
4	415	10	480Y/277	5	FAZ-S4/2	181875	6
6	415	10	480Y/277	5	FAZ-S6/2	181876	6
10	415	10	480Y/277	5	FAZ-S10/2	181877	6
16	415	10	480Y/277	5	FAZ-S16/2	181878	6
20	415	10	480Y/277	5	FAZ-S20/2	181879	6
25	415	10	480Y/277	5	FAZ-S25/2	181880	6
32	415	10	480Y/277	5	FAZ-S32/2	181881	6
40	415	10	480Y/277	5	FAZ-S40/2	181882	6

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FAZ Miniature Circuit Breakers (MCBs)

Characteristic Z

SG53112



1-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0,5	240/415	15	277	5	FAZ-Z0,5/1	278617	12/120
1	240/415	15	277	5	FAZ-Z1/1	278618	12/120
1.6	240/415	15	277	5	FAZ-Z1,6/1	278619	12/120
2	240/415	15	277	5	FAZ-Z2/1	278620	12/120
3	240/415	15	277	5	FAZ-Z3/1	278621	12/120
4	240/415	15	277	5	FAZ-Z4/1	278622	12/120
6	240/415	15	277	5	FAZ-Z6/1	278623	12/120
8	240/415	15	277	5	FAZ-Z8/1	278624	12/120
10	240/415	15	277	5	FAZ-Z10/1	278625	12/120
13	240/415	15	277	5	FAZ-Z13/1	106020	12/120
16	240/415	15	277	5	FAZ-Z16/1	278626	12/120
20	240/415	15	277	5	FAZ-Z20/1	278627	12/120
25	240/415	15	277	5	FAZ-Z25/1	278628	12/120
32	240/415	15	277	5	FAZ-Z32/1	278629	12/120
40	240/415	15	277	5	FAZ-Z40/1	278630	12/120
50	240/415	15	277	5	FAZ-Z50/1	278631	12/120
63	240/415	15	277	5	FAZ-Z63/1	278632	12/120

SG55112



2-pole

0.5	415	15	480Y/277	5	FAZ-Z0,5/2	278816	1/60
1	415	15	480Y/277	5	FAZ-Z1/2	278817	1/60
1.6	415	15	480Y/277	5	FAZ-Z1,6/2	278818	1/60
2	415	15	480Y/277	5	FAZ-Z2/2	278819	1/60
3	415	15	480Y/277	5	FAZ-Z3/2	278820	1/60
4	415	15	480Y/277	5	FAZ-Z4/2	278821	1/60
6	415	15	480Y/277	5	FAZ-Z6/2	278822	1/60
8	415	15	480Y/277	5	FAZ-Z8/2	278823	1/60
10	415	15	480Y/277	5	FAZ-Z10/2	278824	1/60
13	415	15	480Y/277	5	FAZ-Z13/2	106021	1/60
16	415	15	480Y/277	5	FAZ-Z16/2	278825	1/60
20	415	15	480Y/277	5	FAZ-Z20/2	278826	1/60
25	415	15	480Y/277	5	FAZ-Z25/2	278827	1/60
32	415	15	480Y/277	5	FAZ-Z32/2	278828	1/60
40	415	15	480Y/277	5	FAZ-Z40/2	278829	1/60
50	415	15	480Y/277	5	FAZ-Z50/2	278830	1/60
63	415	15	480Y/277	5	FAZ-Z63/2	278831	1/60

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SG53412



3-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-Z0,5/3	278918	1/40
1	415	15	480Y/277	5	FAZ-Z1/3	278919	1/40
1.6	415	15	480Y/277	5	FAZ-Z1,6/3	278920	1/40
2	415	15	480Y/277	5	FAZ-Z2/3	278921	1/40
3	415	15	480Y/277	5	FAZ-Z3/3	278922	1/40
4	415	15	480Y/277	5	FAZ-Z4/3	278923	1/40
6	415	15	480Y/277	5	FAZ-Z6/3	278924	1/40
8	415	15	480Y/277	5	FAZ-Z8/3	278925	1/40
10	415	15	480Y/277	5	FAZ-Z10/3	278926	1/40
13	415	15	480Y/277	5	FAZ-Z13/3	106022	1/40
16	415	15	480Y/277	5	FAZ-Z16/3	278927	1/40
20	415	15	480Y/277	5	FAZ-Z20/3	278928	1/40
25	415	15	480Y/277	5	FAZ-Z25/3	278929	1/40
32	415	15	480Y/277	5	FAZ-Z32/3	278930	1/40
40	415	15	480Y/277	5	FAZ-Z40/3	278931	1/40
50	415	15	480Y/277	5	FAZ-Z50/3	278932	1/40
63	415	15	480Y/277	5	FAZ-Z63/3	278933	1/40

SG55812



4-pole

Rated current I_n (A)	Rated voltage (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL1077 (V)	Breaking capacity acc. to UL1077 (kA)	Type Designation	Article No.	Units per package
0.5	415	15	480Y/277	5	FAZ-Z0,5/4	279106	1/60
1	415	15	480Y/277	5	FAZ-Z1/4	279107	1/60
1.6	415	15	480Y/277	5	FAZ-Z1,6/4	279108	1/60
2	415	15	480Y/277	5	FAZ-Z2/4	279109	1/60
3	415	15	480Y/277	5	FAZ-Z3/4	279110	1/60
4	415	15	480Y/277	5	FAZ-Z4/4	279111	1/60
6	415	15	480Y/277	5	FAZ-Z6/4	279112	1/60
8	415	15	480Y/277	5	FAZ-Z8/4	279113	1/60
10	415	15	480Y/277	5	FAZ-Z10/4	279114	1/60
13	415	15	480Y/277	5	FAZ-Z13/4	106023	1/60
16	415	15	480Y/277	5	FAZ-Z16/4	279115	1/60
20	415	15	480Y/277	5	FAZ-Z20/4	279116	1/60
25	415	15	480Y/277	5	FAZ-Z25/4	279117	1/60
32	415	15	480Y/277	5	FAZ-Z32/4	279118	1/60
40	415	15	480Y/277	5	FAZ-Z40/4	279119	1/60
50	415	15	480Y/277	5	FAZ-Z50/4	279120	1/60
63	415	15	480Y/277	5	FAZ-Z63/4	279121	1/60

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Specifications FAZ

Technical data

	B Curve	C Curve	D Curve
Electrical			
Approvals	UR (UL 1077), CSA (CSA 22.2 No. 235), CE, CB (Not for D50 and D63)		
Standards	IEC/EN 60947-2		
Short-circuit trip response	3–5 I_n	5–10 I_n	10–20 I_n
Supplementary Protectors—UL/CSA			
Current range	1–63A	0.5–63A	0.5–40A
Maximum voltage ratings—UL/CSA			
Single-pole	277 Vac	277 Vac	277 Vac
	48 Vdc	48 Vdc	48 Vdc
Two-, three-pole	480Y/277 Vac	480Y/277 Vac	480Y/277 Vac
Two poles in series	96 Vdc	96 Vdc	96 Vdc
Thermal tripping characteristics			
Single-pole	< 1 hour @ 1.35 x I_n @ 40°C	< 1 hour @ 1.35 x I_n @ 40°C	< 1 hour @ 1.35 x I_n @ 40°C
Multi-pole	< 1 hour @ 1.45 x I_n @ 40°C	< 1 hour @ 1.45 x I_n @ 40°C	< 1 hour @ 1.45 x I_n @ 40°C
Short-circuit ratings (at max. voltage)			
Single-pole	10 kA (5 kA for 40–63A device)	10 kA (5 kA for 40–63A device)	5 kA
Two-, three-pole	10 kA (5 kA for 40–63A device)	10 kA (5 kA for 40–63A device)	5 kA
Single-pole	10 kA @ 48 Vdc	10 kA @ 48 Vdc	10 kA @ 48 Vdc
Two poles in series	10 kA @ 96 Vdc	10 kA @ 96 Vdc	10 kA @ 96 Vdc
Miniature Circuit Breaker—IEC			
Current range	1–63A	0.5–63A	0.5–63A
Maximum voltage ratings—IEC 60947-2			
Single-pole	230 Vac	230 Vac	230 Vac
	60 Vdc	60 Vdc	60 Vdc
Two-, three-pole	230/400 Vac	230/400 Vac	230/400 Vac
Maximum Voltage Ratings—IEC 60898			
Single-pole	240 Vac	240 Vac	240 Vac
Two-, three-pole	240/415 Vac	240/415 Vac	240/415 Vac
Thermal tripping characteristics			
	> 1 hour @ 1.05 x I_n @ 40°C	> 1 hour @ 1.05 x I_n @ 40°C	> 1 hour @ 1.05 x I_n @ 40°C
	< 1 hour @ 1.3 x I_n @ 40°C	< 1 hour @ 1.3 x I_n @ 40°C	< 1 hour @ 1.3 x I_n @ 40°C
Interrupt ratings (at max. voltage)			
IEC 60947-2	15 kA	15 kA	15 kA (type D50 and D63: 10kA)
IEC 60898	10 kA	10 kA	10 kA (type D50 and D63: 6kA)
Operational switching capacity	7.5 kA	7.5 kA	7.5 kA (type D50 and D63: 6kA)
Max. back-up fuse [gL/gG]	125A	125A	125A
Rated impulse withstand—U_{imp}	4000 Vac	4000 Vac	4000 Vac
Rated insulation voltage—U_i	440 Vac	440 Vac	440 Vac
Environmental/General			
Selectivity class	3	3	3
Lifespan (operations)	> 10000 (1 operation = ON/OFF)	> 10000 (1 operation = ON/OFF)	> 10000 (1 operation = ON/OFF)
Shock (IEC 68-2-22)	10g–120 ms	10g–120 ms	10g–120 ms
Operating temperature range	-40 to +75°C	-40 to +75°C	-40 to +75°C
Mechanical			
Standard front dimension			
Device height	80 mm	80 mm	80 mm
Terminal protection	Finger and back-of-hand proof	Finger and back-of-hand proof	Finger and back-of-hand proof
Mounting width per pole	17.5 mm	17.5 mm	17.5 mm
Mounting	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Degree of protection	IP20	IP20	IP20
Terminals top and bottom	Twin-purpose terminals	Twin-purpose terminals	Twin-purpose terminals
Supply connection	Line or load side	Line or load side	Line or load side
Terminal capacity [mm^2]	1 x 25 / 2 x 10	1 x 25 / 2 x 10	1 x 25 / 2 x 10
Torque	2.4 Nm	2.4 Nm	2.4 Nm
Thickness of busbar material	0.8–2 mm	0.8–2 mm	0.8–2 mm
Mounting position	As required	As required	As required

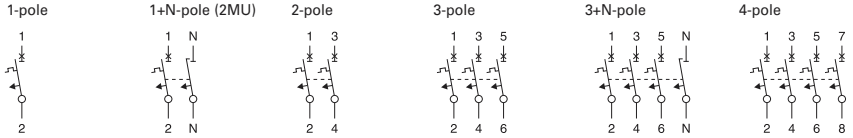
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Specifications FAZ

Technical Data (continued)

	K Curve	S Curve	Z Curve
Electrical			
Approvals	UR (UL 1077), CE	UR (UL 1077), CSA (CSA 22.2 No. 235) for 1-16 A, CE, CB	UR (UL 1077), CE
Standards	IEC/EN 60947-2		
Short-circuit trip response	8–12 I_n	13–17 I_n	2–3 I_n
Supplementary Protectors—UL/CSA			
Current range	0.5–63A	0.5–40A	1–63A
Maximum voltage ratings—UL/CSA			
Single-pole, single-pole + neutral	277 Vac 48 Vdc	277 Vac 48 Vdc	277 Vac 48 Vdc
Two-, three-, four-pole and three-pole + neutral	480Y/277 Vac	480Y/277 Vac	480Y/277 Vac
Two poles in series	96 Vdc	96 Vdc	96 Vdc
Thermal tripping characteristics			
Single-pole	< 1 hour @ 1.35 x I_n @ 40°C	< 1 hour @ 1.35 x I_n @ 40°C	< 1 hour @ 1.35 x I_n @ 40°C
Multi-pole	< 1 hour @ 1.45 x I_n @ 40°C	< 1 hour @ 1.45 x I_n @ 40°C	< 1 hour @ 1.45 x I_n @ 40°C
Short-circuit ratings (at max. voltage)			
Single-pole	5 kA @ 277 Vac	5 kA @ 277 Vac	5 kA @ 277 Vac
Single-pole + neutral	5 kA @ 277 Vac	5 kA @ 277 Vac	5 kA @ 277 Vac
Two-, three-, four-pole	5 kA @ 480Y/277 Vac	5 kA @ 480Y/277 Vac	5 kA @ 480Y/277 Vac
Miniature Circuit Breaker—IEC			
Current range	0.5–63A	0.5–40A	1–63A
Maximum voltage ratings—IEC 60947-2			
Single-pole, single-pole + neutral	240 Vac	240 Vac	240 Vac
Single-pole	60 Vdc	60 Vdc	60 Vdc
Two-, three-, four-pole, three-pole + neutral	240/415 Vac	240/415 Vac	240/415 Vac
Thermal tripping characteristics			
	> 1 hour @ 1.05 x I_n @ 30°C < 1 hour @ 1.3 x I_n @ 30°C	> 1 hour @ 1.05 x I_n @ 30°C < 1 hour @ 1.3 x I_n @ 30°C	> 1 hour @ 1.05 x I_n @ 30°C < 1 hour @ 1.3 x I_n @ 30°C
Interrupt ratings (at max. voltage)			
IEC 60947-2	15 kA	10 kA	10 kA
Operational switching capacity	7.5 kA	7.5 kA	7.5 kA
Max. back-up fuse [gL/gG]	125A	125A	125A
Rated impulse withstand—U_{imp}	4000 Vac	4000 Vac	4000 Vac
Rated insulation voltage—U_i	440 Vac	440 Vac	440 Vac
Environmental/General			
Selectivity class	3	3	3
Lifespan (operations)	> 10000 (1 operation = ON/OFF)	> 10000 (1 operation = ON/OFF)	> 10000 (1 operation = ON/OFF)
Shock (IEC 68-2-22)	10g–120 ms	10g–120 ms	10g–120 ms
Operating temperature range	-40°C to +75°C	-40°C to +75°C	-40°C to +75°C
Mechanical			
Standard front dimension			
Device height	80 mm	80 mm	80 mm
Terminal protection	Finger and back-of-hand proof	Finger and back-of-hand proof	Finger and back-of-hand proof
Mounting width per pole	17.5 mm	17.5 mm	17.5 mm
Mounting	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Degree of protection	IP20	IP20	IP20
Terminals top and bottom	Twin-purpose terminals	Twin-purpose terminals	Twin-purpose terminals
Supply connection	Line or load side	Line or load side	Line or load side
Terminal capacity [mm^2]	1 x 25 / 2 x 10	1 x 25 / 2 x 10	1 x 25 / 2 x 10
Torque	2.4 Nm	2.4 Nm	2.4 Nm
Thickness of busbar material	0.8–2 mm	0.8–2 mm	0.8–2 mm
Mounting position	As required	As required	As required

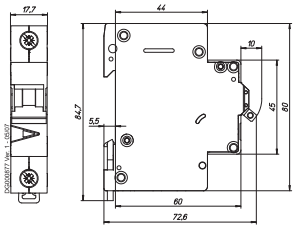
Connection diagram



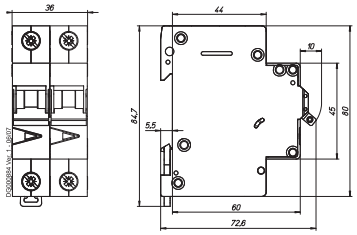
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Dimensions (mm) FAZ

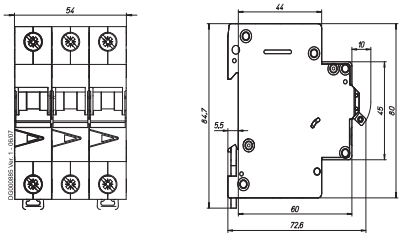
1-pole



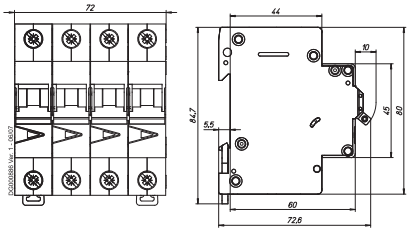
1+N-pole, 2-pole



3-pole



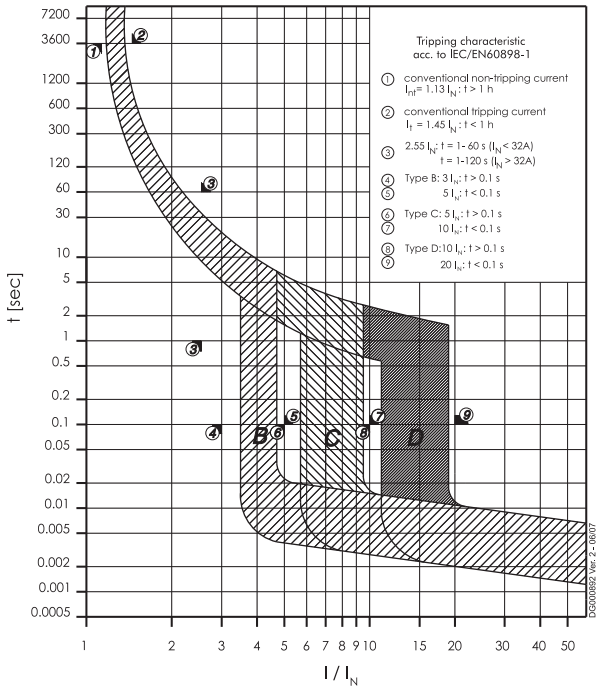
3+N-pole, 4-pole



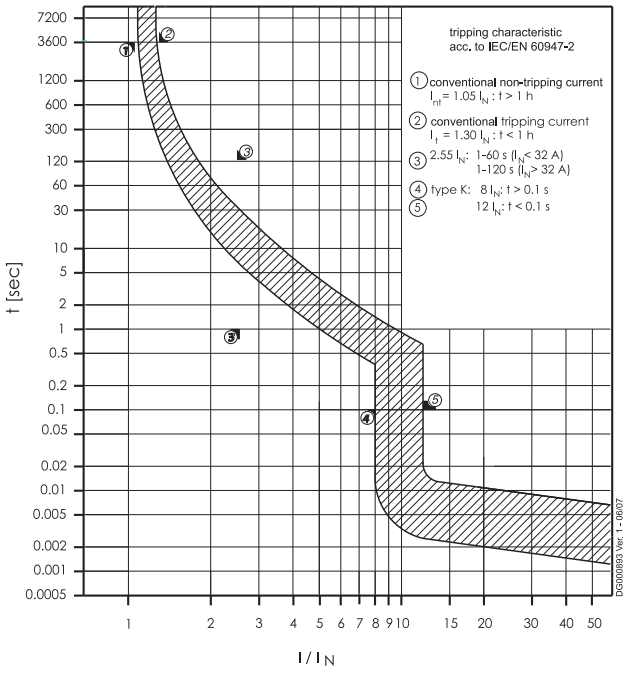
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Tripping Characteristic FAZ

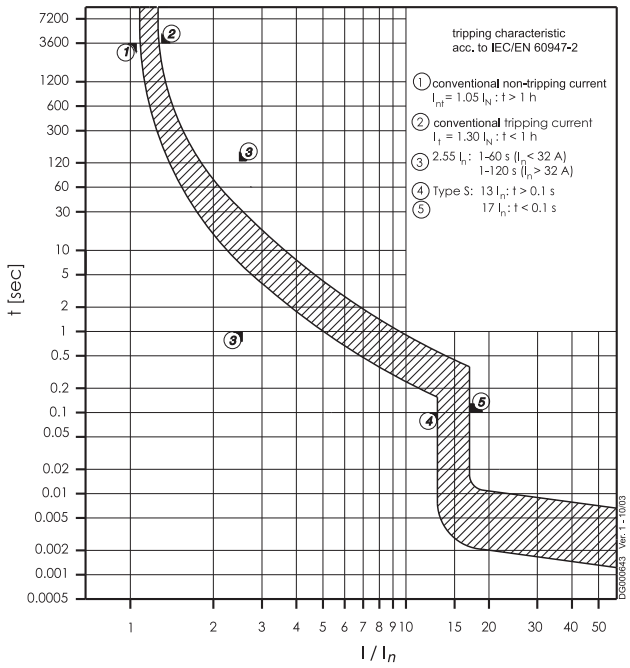
Characteristics B, C and D - IEC/EN60898-1



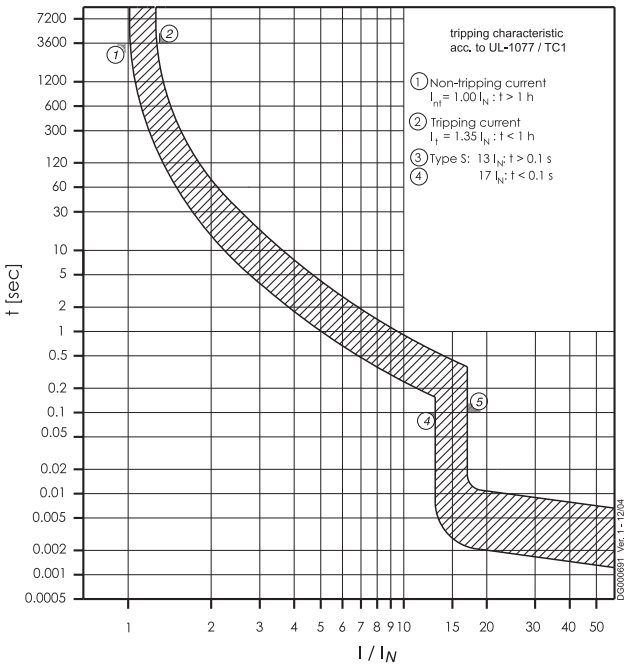
Characteristic K - IEC/EN 60947-2



Characteristic S - IEC/EN 60947-2



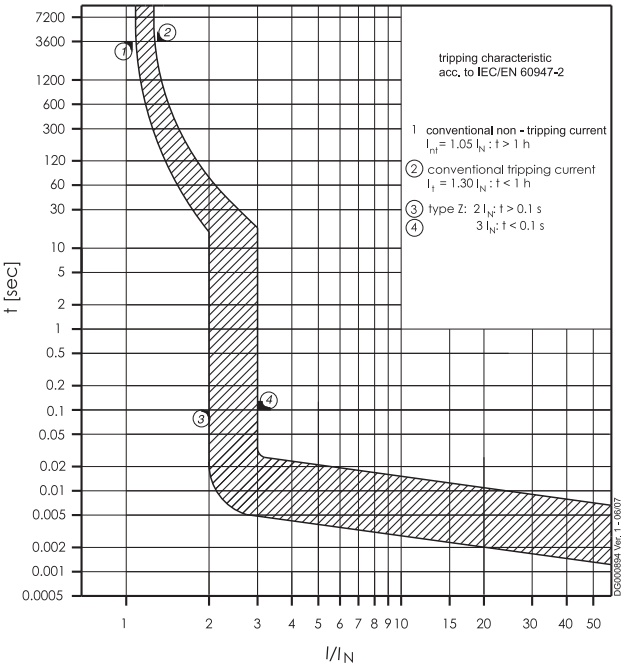
Characteristic S - UL1077



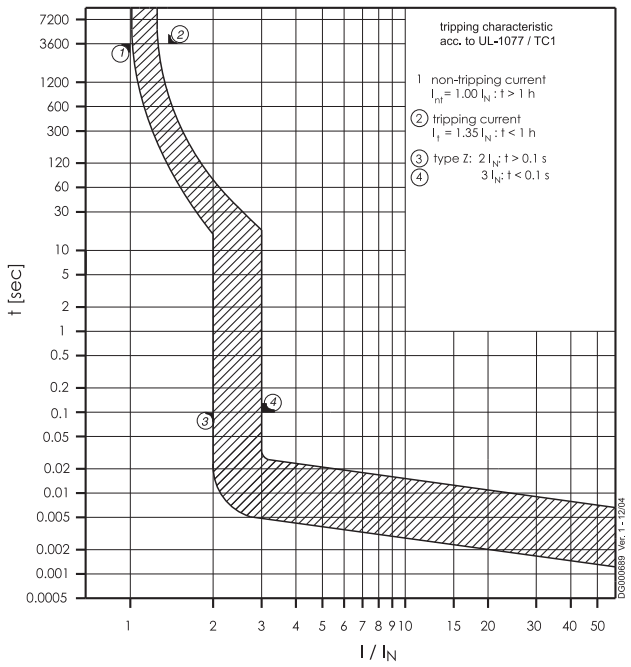
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Tripping Characteristic FAZ

Characteristic Z - IEC/EN 60947-2



Characteristic Z - UL1077



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Internal Resistance FAZ

Type B

At room temperature (single pole)

In [A]	Z* [mΩ]	R [mΩ]
1	1120	1102
1.5	922	912
1.6	922	912
2	335	333
2.5	234	230
3	211	208
3.5	184	180
4	87.7	87.2
5	73.5	72.8
6	46.8	46.3
8	30.5	30.4
10	17.5	17.4
12	16.9	16.8
13	13.4	13.3
15	8.0	7.9
16	8.0	7.9
20	7.2	7.1
25	5.0	4.9
32	3.7	3.7
40	2.6	2.5
50	2.1	2.1
63	2.0	2.0

* 50Hz

Type C

At room temperature (single pole)

In [A]	Z* [mΩ]	R [mΩ]
0.16	68500	68300
0.25	27500	27400
0.5	4680	4670
0.75	2280	2250
1	1120	1100
1.5	589	587
1.6	589	587
2	335	333
2.5	234	230
3	131	130
3.5	143	141
4	87.7	87.2
5	73.5	72.8
6	39.3	39.1
8	30.5	30.4
10	14.1	14.0
12	13.5	13.4
13	13.4	13.3
15	8.0	7.9
16	8.0	7.9
20	7.2	7.1
25	5.0	4.9
32	3.7	3.7
40	2.6	2.5
50	2.1	2.1
63	2.0	2.0

* 50Hz

Type D

At room temperature (single pole)

In [A]	Z* [mΩ]	R [mΩ]
0.5	4680	4670
1	772	770
1.5	512	508
1.6	512	508
2	250	249
2.5	153	153
3	131	130
3.5	143	141
4	87.7	87.2
5	65.4	65.1
6	39.3	39.1
8	19.5	19.5
10	14.1	14.0
12	11.3	11.2
13	10.1	10.1
15	8.0	7.9
16	8.0	7.9
20	4.9	4.9
25	3.9	3.8
32	3.5	3.4
40	2.7	2.6

* 50Hz

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Fault Loop Impedance FAZ

Max. allowed value for the Fault Loop Impedance Z_S
(acc. to DIN VDE 0100, part 410)

U_0 = 230 V

	Type B		Type C		Type D	
Tripping time	0,4s	5s	0,4s	5s	0,4s	5s
I_n/A	Zs (Ω)	Zs (Ω)	Zs (Ω)	Zs (Ω)	Zs (Ω)	Zs (Ω)
1	40,4	40,4	24,3	40,4	12,4	40,4
1.5	26,9	26,9	16,2	26,9	8,3	26,9
2	20,2	20,2	12,2	20,2	6,2	20,2
2.5	16,1	16,1	9,7	16,1	5,0	16,1
3	13,5	13,5	8,1	13,5	4,1	13,5
3.5	11,5	11,5	7,0	11,5	3,6	11,5
4	10,1	10,1	6,1	10,1	3,1	10,1
5	8,1	8,1	4,9	8,1	2,5	8,1
6	6,7	6,7	4,1	6,7	2,1	6,7
8	5,0	5,0	3,0	5,0	1,6	5,0
10	4,0	4,0	2,4	4,0	1,2	4,0
12	3,4	3,4	2,0	3,4	1,0	3,4
13	3,1	3,1	1,9	3,1	1,0	3,1
15	2,7	2,7	1,6	2,7	0,8	2,7
16	2,5	2,5	1,5	2,5	0,8	2,5
20	2,0	2,0	1,2	2,0	0,6	2,0
25	1,6	1,6	1,0	1,6	0,5	1,6
32	1,3	1,3	0,8	1,3	0,4	1,3
40	1,0	1,0	0,6	1,0	0,3	1,0
50	0,8	0,8	0,5	0,8	0,2	0,8
63	0,6	0,6	0,4	0,6	0,2	0,6

$Z_s=R_{M.C.B.}+R_{Loop}$
Data/factors taken from the time-current characteristic FAZ

For other rated voltages U_0:
U_0 = 240 V: Z_s * 1,04 applies
U_0 = 127 V: Z_s * 0,55 applies

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Power Loss at I_n FAZ

Type B

	1p	1pN	2p	3p	3pN*
In [A]	P [W]	P [W]	P [W]	P [W]	P [W]
1	1.6	1.7	3.1	4.7	4.8
1.5	2.3	2.5	4.6	6.9	7.2
1.6	2.5	2.7	4.9	7.4	7.6
2	1.4	1.5	2.8	4.1	4.3
2.5	1.5	1.7	3.1	4.6	4.7
3	2.5	2.7	5.0	7.6	7.8
3.5	2.5	2.8	5.1	7.8	8.0
4	1.4	1.6	2.9	4.4	4.5
5	1.9	2.1	3.8	5.8	6.0
6	1.8	2.0	3.6	5.5	5.6
8	2.1	2.3	4.1	6.3	6.5
10	1.9	2.1	3.9	5.9	6.1
12	2.8	3.2	5.9	8.7	9.0
13	2.5	2.9	5.3	7.8	8.1
15	2.1	2.4	4.4	6.5	6.7
16	2.2	2.6	4.7	6.9	7.2
20	3.2	3.6	6.6	9.8	10.1
25	3.0	3.5	6.4	9.4	9.7
32	3.7	4.4	8.1	12.1	12.5
40	3.4	4.1	7.5	11.2	11.5
50	4.5	5.4	9.9	14.9	15.3
63	5.2	6.3	11.5	17.2	17.7

*symmetrical load

Type C

	1p	1pN	2p	3p	3pN*
In [A]	P [W]	P [W]	P [W]	P [W]	P [W]
0.16	2.2	2.4	4.4	6.7	6.9
0.25	2.0	2.2	4.0	6.1	6.3
0.5	1.2	1.3	2.4	3.5	3.7
0.75	1.3	1.4	2.6	3.9	4.1
1	1.6	1.7	3.1	4.7	4.8
1.5	1.5	1.6	2.9	4.4	4.6
1.6	1.6	1.7	3.1	4.7	4.9
2	1.4	1.5	2.8	4.1	4.3
2.5	1.5	1.7	3.1	4.6	4.7
3	1.2	1.3	2.4	3.6	3.7
3.5	1.3	1.4	2.6	3.9	4.0
4	1.4	1.6	2.9	4.4	4.5
5	1.9	2.1	3.8	5.8	6.0
6	1.5	1.6	2.9	4.4	4.6
8	2.1	2.3	4.1	6.3	6.5
10	1.5	1.7	3.0	4.6	4.7
12	2.1	2.4	4.4	6.5	6.8
13	2.5	2.9	5.3	7.8	8.1
15	2.1	2.4	4.4	6.5	6.7
16	2.2	2.6	4.7	6.9	7.2
20	3.2	3.6	6.6	9.8	10.1
25	3.0	3.5	6.4	9.4	9.7
32	3.7	4.4	8.1	12.1	12.5
40	3.4	4.1	7.5	11.2	11.5
50	4.5	5.4	9.9	14.9	15.3
63	5.2	6.3	11.5	17.2	17.7

*symmetrical load

Type D

	1p	1pN	2p	3p	3pN*
In [A]	P [W]	P [W]	P [W]	P [W]	P [W]
0.5	1.2	1.3	2.4	3.5	3.7
1	0.8	0.9	1.6	2.4	2.5
1.5	1.2	1.3	2.3	3.5	3.6
1.6	1.3	1.4	2.5	3.8	3.9
2	1.0	1.1	2.0	3.0	3.1
2.5	1.0	1.1	1.9	2.9	3.0
3	1.2	1.3	2.4	3.6	3.7
3.5	1.3	1.4	2.6	3.9	4.0
4	1.4	1.6	2.9	4.4	4.5
5	1.7	1.8	3.3	5.1	5.3
6	1.5	1.6	2.9	4.4	4.6
8	1.3	1.5	2.6	4.0	4.2
10	1.5	1.7	3.0	4.6	4.7
12	1.7	2.0	3.6	5.3	5.4
13	1.9	2.2	4.0	5.9	6.1
15	2.1	2.4	4.4	6.5	6.7
16	2.2	2.6	4.7	6.9	7.2
20	2.0	2.2	4.1	6.1	6.2
25	2.5	2.9	5.2	7.7	7.9
32	3.4	4.0	7.4	11.1	11.4
40	3.2	3.8	7.0	10.4	10.7

*symmetrical load

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Influence of Ambient Temperature FAZ

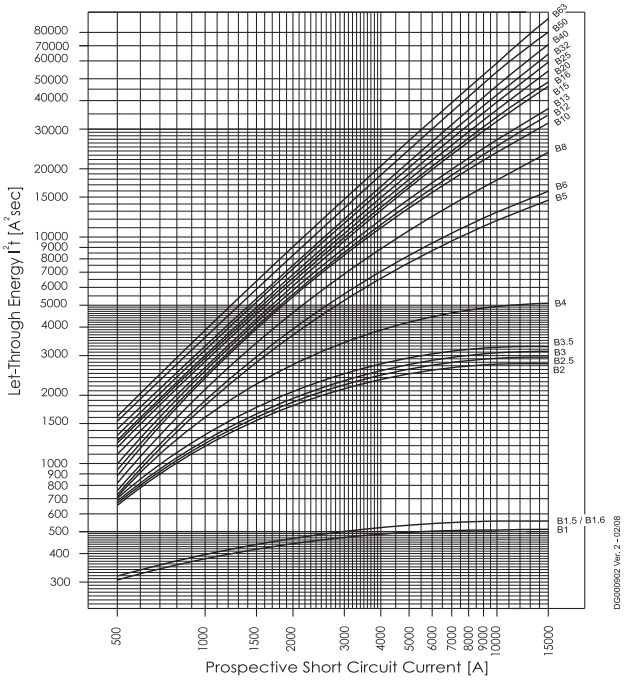
On Load Carrying Capacity (temperature derating)

	Ambient temperature T [°C]																
I_N [A]	-40	-30	-20	-10	0	10	20	30	35	40	45	50	55	60	65	70	75
0.16	0.2	0.2	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	0.32	0.31	0.3	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	0.64	0.62	0.6	0.58	0.56	0.54	0.52	0.5	0.49	0.48	0.47	0.46	0.45	0.44	0.43	0.42	0.41
0.75	0.96	0.93	0.9	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	1.3	1.2	1.2	1.2	1.1	1.1	1	1	0.99	0.97	0.95	0.93	0.9	0.89	0.87	0.85	0.83
1.5	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	1.3	1.3	1.3	1.2
1.6	2	2	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	2.6	2.5	2.4	2.3	2.2	2.2	2.1	2	2	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7
2.5	3.2	3.1	3	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	3.8	3.7	3.6	3.5	3.4	3.3	3.1	3	3	2.9	2.8	2.8	2.7	2.7	2.6	2.5	2.5
3.5	4.5	4.4	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	3	2.9
4	5.1	5	4.8	4.7	4.5	4.3	4.2	4	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.4	3.3
5	6.4	6.2	6	5.8	5.6	5.4	5.2	5	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
6	7.7	7.5	7.2	7	6.7	6.5	6.3	6	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5
8	10.2	9.9	9.6	9.3	9	8.7	8.4	8	7.9	7.7	7.6	7.4	7.2	7.1	6.9	6.8	6.6
10	13	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9	8.9	8.7	8.5	8.3
12	15	15	14	14	13	13	13	12	12	12	11	11	11	11	10	10	10
13	17	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	11
15	19	19	18	17	17	16	16	15	15	15	14	14	14	13	13	13	12
16	20	20	19	19	18	17	17	16	16	15	15	15	14	14	14	14	13
20	26	25	24	23	22	22	21	20	20	19	19	19	18	18	17	17	17
25	32	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21
32	41	40	38	37	36	35	33	32	32	31	30	30	29	28	28	27	26
40	51	50	48	47	45	43	42	40	39	39	38	37	36	35	35	34	33
50	64	62	60	58	56	54	52	50	49	48	47	46	45	44	43	42	41
63	81	78	76	73	71	68	66	63	62	61	60	58	57	56	55	53	52

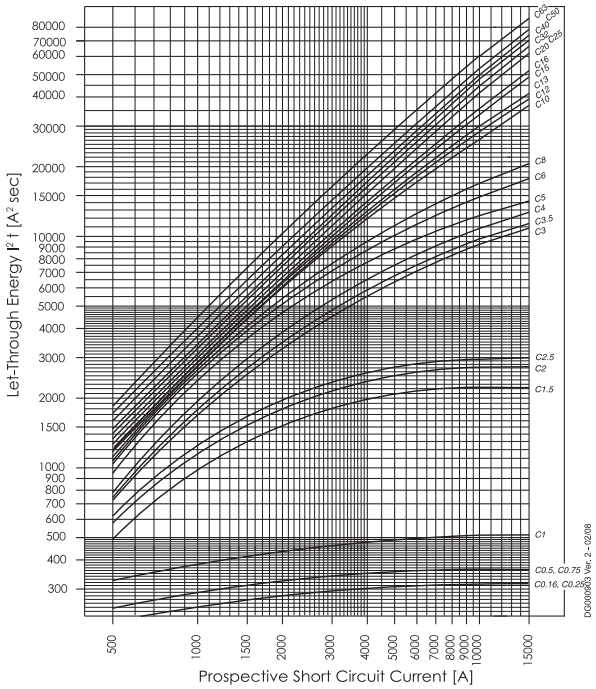
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Maximum Let-Through Energy FAZ

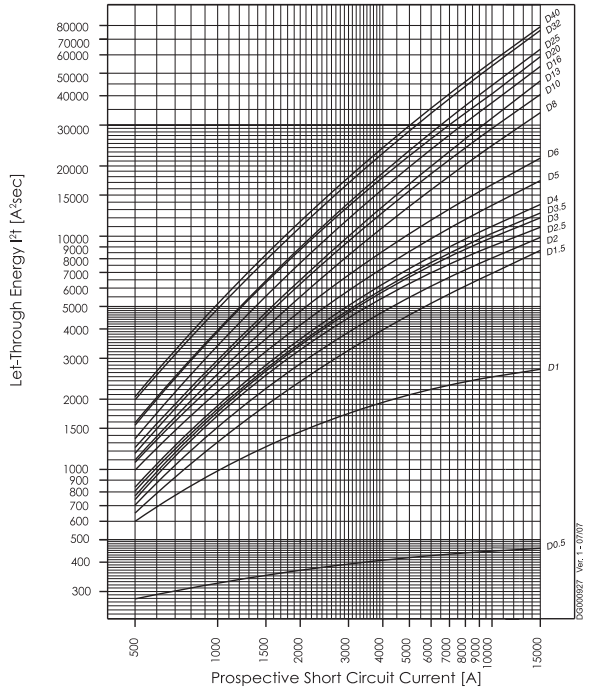
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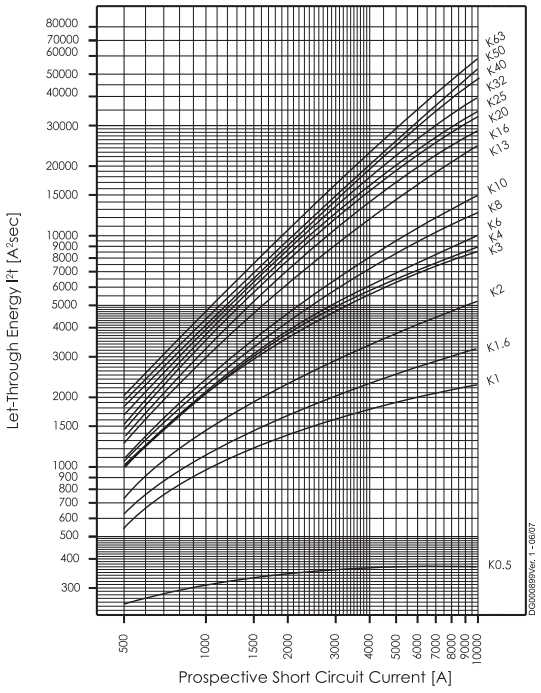
Type C (IEC/EN60947-2)



Type D (IEC/EN60947-2)



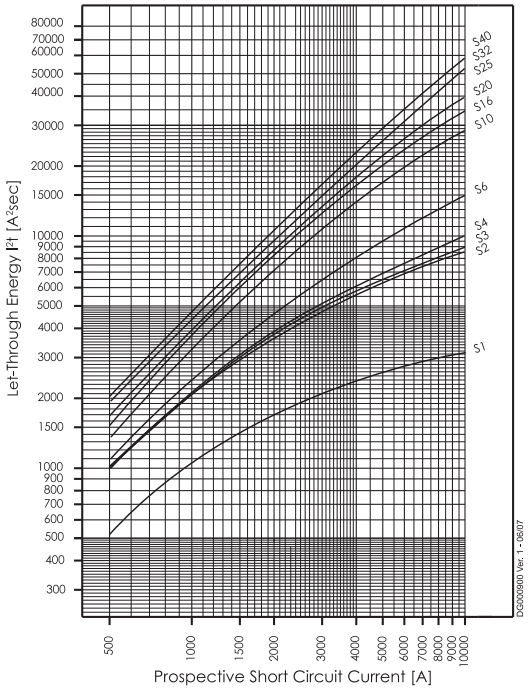
Type K



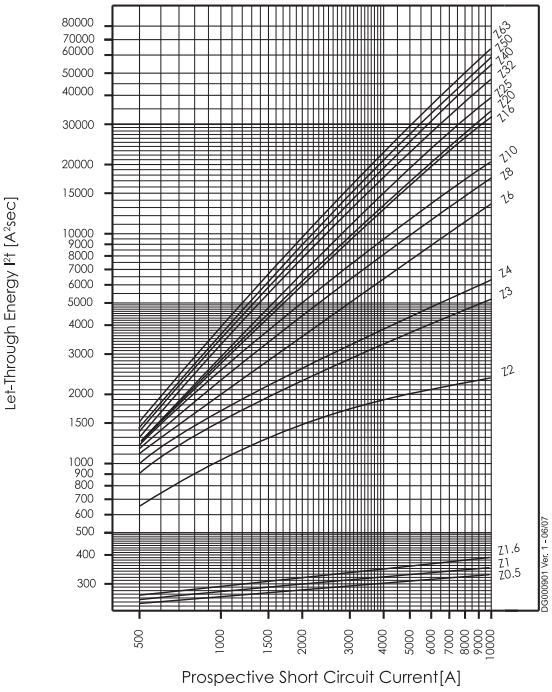
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Maximum Let-Through Energy FAZ

Type S



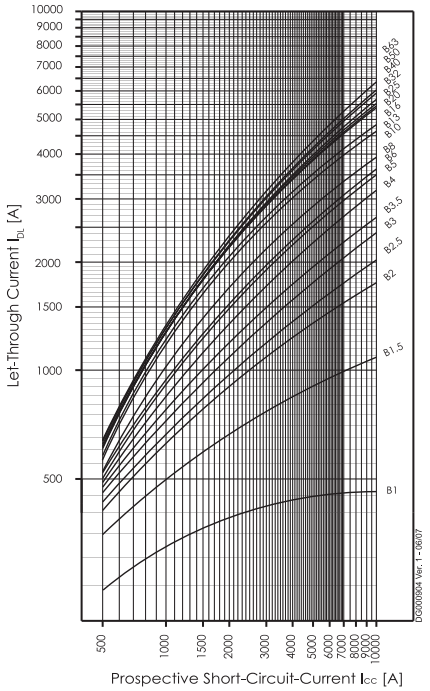
Type Z



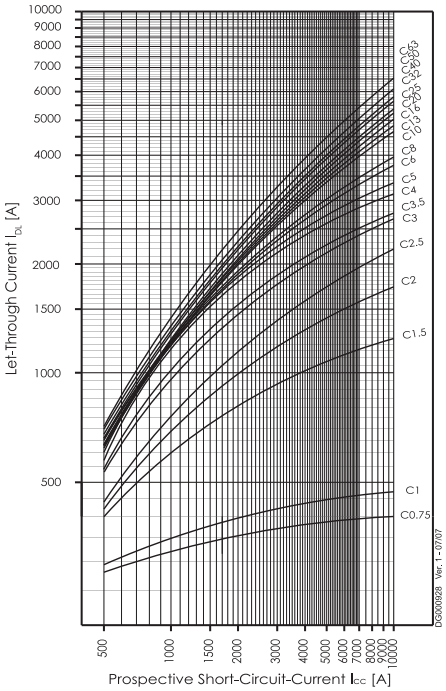
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Maximum Let-Through Current FAZ

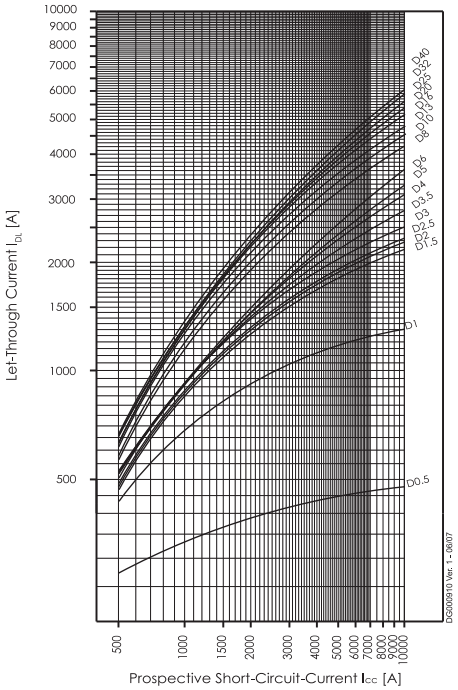
Type B (IEC/EN60898)



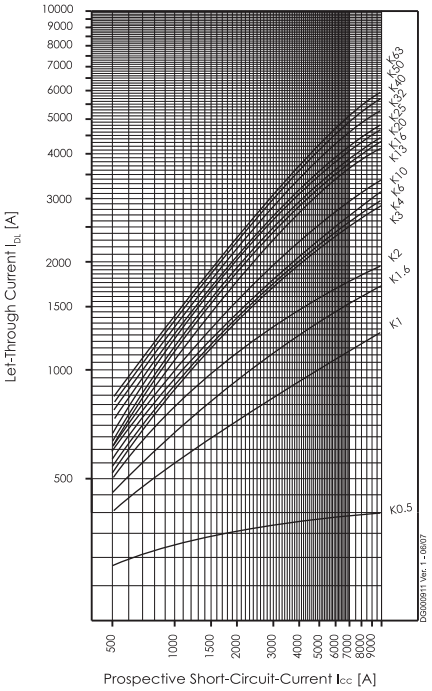
Type C (IEC/EN60898)



Type D (IEC/EN60898)



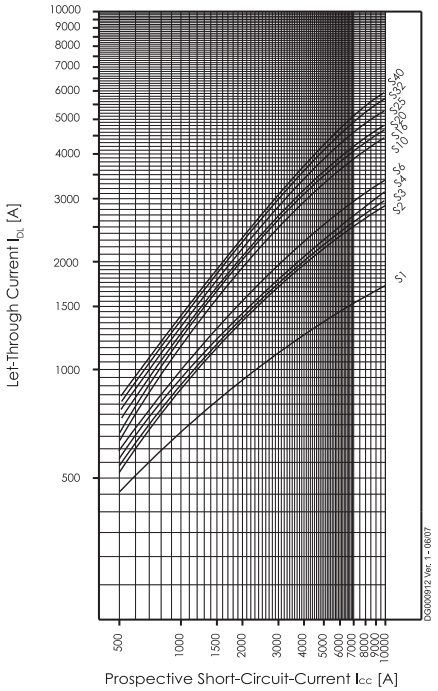
Type K



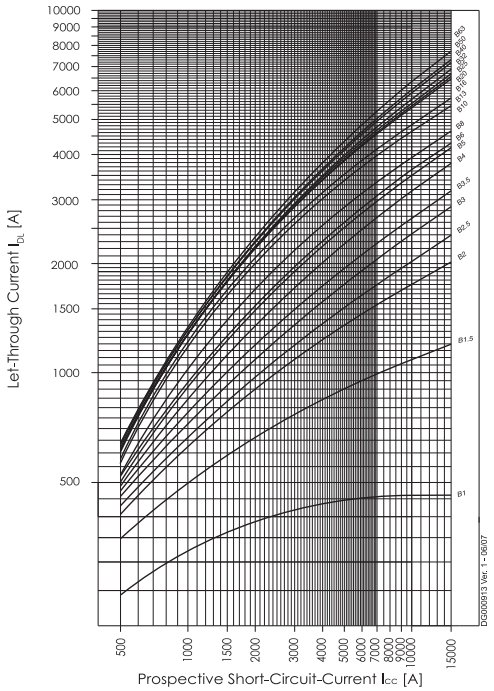
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Maximum Let-Through Current FAZ

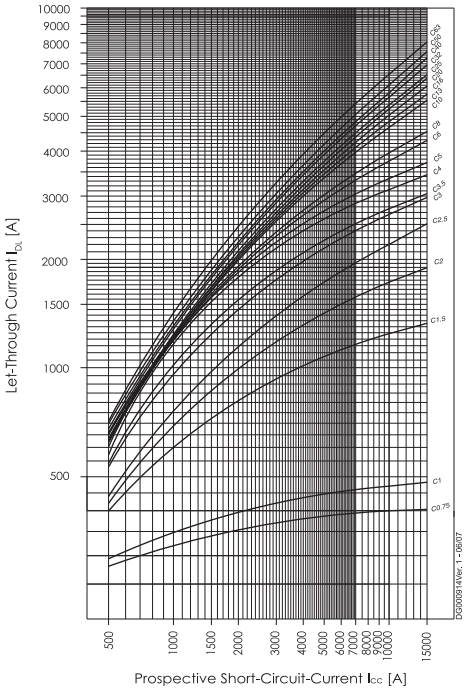
Type S



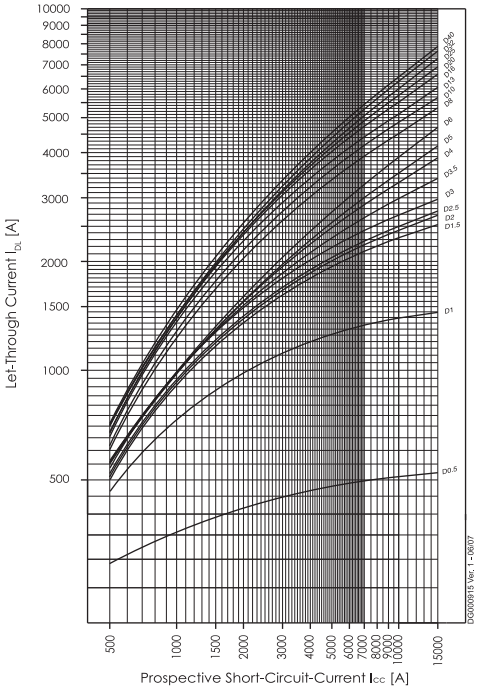
Type B (IEC/EN60947-2)



Type C (IEC/EN60947-2)



Type D (IEC/EN60947-2)



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Short Circuit Selectivity FAZ

In case of short circuit, there is selectivity between the miniature circuit breakers FAZ and the upstream protection devices 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

FAZ towards NH-00 Fuses

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

FAZ	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***)*

FAZ	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***)*

FAZ	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

Shaded fields: no selectivity

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FAZ towards D01-D03 fuse link

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

FAZ	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***)*

FAZ	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***)*

FAZ	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
Shaded fields: no selectivity

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FAZ towards DII-DIV fuse link

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

FAZ	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***)*

FAZ	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***)*

FAZ	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
Shaded fields: no selectivity

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FAZ-B and NZM 1/2

Selectivity-limit current I_s [kA] for selectivity between FAZ-B and NZM (overload and short-circuit release unit NZM at max. value).

	NZM...1-A...						**NZM...2-A...**								
I_n [A]	I_{cu} = 25 (50) kA						I_{cu} = 25 (50)(100)(150) kA								
FAZ-B	**40**	**50**	**63**	**80**	**100**	**125**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**
1	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2	2	15	15	15	15	15	3	15	15	15	15	15	15	15	15
3	1.2	2	3	3	10	15	1.5	1.5	3	5	15	15	15	15	15
4	1.2	2	3	3	8	15	1.2	1.5	3	4	15	15	15	15	15
6	1.2	2	2.5	3	5	10	1.2	1.5	2.5	3	15	15	15	15	15
10	1.2	1.5	2	2	4	10	1	1.5	2.5	3	10	10	10	10	10
13	1	1.5	2	2	4	10	1	1.2	2	3	10	10	10	10	10
16	1	1.2	1.5	2	3	8	1	1.2	1.5	2.5	10	10	10	10	10
20	0.8	1.2	1.5	1.5	3	8	1	1.2	1.5	1.5	10	10	10	10	10
25	0.7	1.2	1.5	1.5	3	7	0.8	1	1.5	2	10	10	10	10	10
32	-	1.2	1	1.5	2	6	-	1	1.5	2	8	8	8	8	10
40	-	-	1	1.5	2	5	-	-	1.2	1.5	7	7	7	7	10
50	-	-	-	1.2	1.5	4	-	-	-	1.5	6	6	6	6	10
63	-	-	-	-	1.5	3	-	-	-	-	6	6	6	6	10

FAZ-C and NZM 1/2

Selectivity-limit current I_s [kA] for selectivity between FAZ-C and NZM (overload and short-circuit release unit NZM at max. value).

	NZM...1-A...						**NZM...2-A...**								
I_n [A]	I_{cu} = 25 (50) kA						I_{cu} = 25 (50)(100)(150) kA								
FAZ-C	**40**	**50**	**63**	**80**	**100**	**125**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**
0.5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
1	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2	2	15	15	15	15	15	3	15	15	15	15	15	15	15	15
3	1.2	2	3	3	10	15	1.5	1.5	3	5	15	15	15	15	15
4	1.2	2	3	3	8	15	1.2	1.5	3	4	15	15	15	15	15
6	1.2	2	2.5	3	5	10	1.2	1.5	2.5	3	15	15	15	15	15
10	1.2	1.5	2	2	4	10	1	1.5	2.5	3	10	10	10	10	10
13	1	1.5	2	2	4	10	1	1.2	2	3	10	10	10	10	10
16	1	1.2	1.5	2	3	8	1	1.2	1.5	2.5	10	10	10	10	10
20	0.8	1.2	1.5	1.5	3	8	1	1.2	1.5	1.5	10	10	10	10	10
25	0.7	1.2	1.5	1.5	3	7	0.8	1	1.5	2	10	10	10	10	10
32	-	1.2	1	1.5	2	6	-	1	1.5	2	8	8	8	8	10
40	-	-	1	1.5	2	5	-	-	1.2	1.5	7	7	7	7	10
50	-	-	-	1.2	1.5	4	-	-	-	1.5	6	6	6	6	10
63	-	-	-	-	1.5	3	-	-	-	-	6	6	6	6	10

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FAZ-D and NZM 1/2

Selectivity-limit current I_s [kA] for selectivity between FAZ-D and NZM (overload and short-circuit release unit NZM at max. value).

	NZM...1-A...						**NZM...2-A...**								
I_n [A]	I_{cu} = 25 (50) kA						I_{cu} = 25 (50)(100)(150) kA								
FAZ-D	**40**	**50**	**63**	**80**	**100**	**125**	**40**	**50**	**63**	**80**	**100**	**125**	**160**	**200**	**250**
0.5	9	15	15	15	15	15	9	15	15	15	15	15	15	15	15
1	0.5	0.7	1.1	1.9	4.2	15	0.5	0.7	1.1	1.9	4.2	15	15	15	15
1.5	0.3	0.6	0.8	1.1	1.6	2.6	0.3	0.6	0.8	1.1	1.6	2.6	5	15	15
2	0.3	0.5	0.75	0.95	1.4	2.4	0.3	0.5	0.75	0.95	1.4	2.4	4.5	10	15
2.5	0.3	0.5	0.75	0.95	1.3	2.3	0.3	0.5	0.75	0.95	1.3	2.3	4.2	9	15
3	0.3	0.5	0.7	0.9	1.3	2.1	0.3	0.5	0.7	0.9	1.3	2.1	3.6	7	15
3.5	0.3	0.5	0.7	0.9	1.3	2	0.3	0.5	0.7	0.9	1.3	2	3.3	5.6	10
4	0.3	0.5	0.7	0.9	1.3	1.9	0.3	0.5	0.7	0.9	1.3	1.9	3	4.7	8
5	0.3	0.5	0.7	0.9	1.3	1.9	0.3	0.5	0.7	0.9	1.3	1.9	3	4.4	7
6	0.3	0.5	0.6	0.9	1.3	1.8	0.3	0.5	0.6	0.9	1.3	1.8	2.8	4	6
8	0.3	0.3	0.6	0.75	1	1.3	0.3	0.3	0.6	0.75	1	1.3	1.8	2.7	4
10	0.3	0.3	0.6	0.75	0.95	1.2	0.3	0.3	0.6	0.75	0.95	1.2	1.7	2.4	3.6
13	0.3	0.3	0.5	0.7	0.9	1.1	0.3	0.3	0.5	0.7	0.9	1.1	1.6	2.2	3.2
16	-	0.3	0.5	0.65	0.8	1.1	-	0.3	0.5	0.65	0.8	1.1	1.5	2.1	3
20	-	-	0.5	0.65	0.8	1.1	-	-	0.5	0.65	0.8	1.1	1.4	2.1	3
25	-	-	0.5	0.65	0.8	1.1	-	-	0.5	0.65	0.8	1.1	1.4	1.9	2.7
32	-	-	-	-	0.8	1.1	-	-	-	-	0.8	1.1	1.4	1.9	2.7
40	-	-	-	-	-	1	-	-	-	-	-	1	1.4	1.8	2.6

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Back-up Protection FAZ

The up-stream protective devices will protect the down-stream FAZ up to the short-circuit current specified.

FAZ/C and AZ/C

	AZ/C								
I_n [A]	I_n [A]								
FAZ/C	**20**	**25**	**32**	**40**	**50**	**63**	**80**	**100**	**125**
1	25	25	25	25	25	25	20	20	15 kA
2	25	25	25	25	25	25	20	20	15 kA
4	25	25	25	25	25	25	20	20	15 kA
6	25	25	25	25	25	25	20	20	15 kA
10	25	25	25	25	25	25	20	20	15 kA
13	25	25	25	25	25	25	20	20	15 kA
16	25	25	25	25	25	25	20	20	15 kA
20	1)	25	25	25	25	25	20	20	15 kA
25	1)	1)	25	25	25	25	20	20	15 kA
32	1)	1)	1)	25	25	25	20	20	-
40	1)	1)	1)	1)	25	25	20	20	-
50	1)	1)	1)	1)	1)	25	20	20	-
63	1)	1)	1)	1)	1)	1)	-	-	-

1) I_n (AZ) ≤ I_n (FAZ)

FAZ and CL-PKZ0

Back-up tests acc. to EN/IEC 60947-2, App. A: U = 1.05 U_e, (O - t - CO)

	FAZ-I_n/1(2,3,4)/B(C) + CL-PKZ0
I_n [A]	U_e = 230/400 V
0.16	65 kA
0.25	65 kA
0.5	65 kA
0.75	65 kA
1	65 kA
1.5	65 kA
2	65 kA
2.5	65 kA
3	65 kA
3.5	65 kA
4	65 kA
5	45 kA
6	45 kA
8	45 kA
10	45 kA
12	45 kA
13	45 kA
15	45 kA
16	45 kA
20	45 kA
25	45 kA
32	45 kA
40	25 kA
50	25 kA
63	25 kA

FAZ and NZM7

	FAZ-I_n/1(2,3,4)/B(C) + NZM7-40(...100)
I_n [A]	U_e = 230/400 V
0.16	25 kA
0.25	25 kA
0.5	25 kA
0.75	25 kA
1	25 kA
1.5	25 kA
2	25 kA
2.5	25 kA
3	25 kA
3.5	25 kA
4	25 kA
5	20 kA
6	20 kA
8	20 kA
10	20 kA
12	20 kA
13	20 kA
15	20 kA
16	20 kA
20	18 kA
25	18 kA
32	18 kA
40	18 kA
50	15 kA
63	15 kA

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FAZ and NZMB1

U_e = 230/400 V: I_{cu} (FAZ) = 15 kA
U_e = 230/400 V: I_{cu} (NZMB1) = 25 kA
Back-up test acc. EN/IEC 60947-2, app. A: U = 1.05U_e, (O - t - CO)
(Settings NZMB1: I_r, I_{rm} at max. volumes)

	FAZ-I_n/1(2,3,4)/B(C) + NZMB1
I_n [A]	U_e = 230/400 V
0.16	25 kA
0.25	25 kA
0.5	25 kA
0.75	25 kA
1	25 kA
1.5	25 kA
2	25 kA
2.5	25 kA
3	25 kA
3.5	25 kA
4	25 kA
5	25 kA
6	25 kA
8	25 kA
10	25 kA
12	25 kA
13	25 kA
15	25 kA
16	25 kA
20	20 kA
25	20 kA
32	20 kA
40	20 kA
50	15 kA
63	15 kA

FAZ and NZMN1

U_e = 230/400 V: I_{cu} (FAZ) = 15 kA
U_e = 230/400 V: I_{cu} (NZMN1) = 25 kA
Back-up test acc. EN/IEC 60947-2, app. A: U = 1.05U_e, (O - t - CO)
(Settings NZM at max. values)

	FAZ-I_n/1(2,3,4)/B(C) + NZMN1
I_n [A]	U_e = 230/400 V
0.16	25 kA
0.25	25 kA
0.5	25 kA
0.75	25 kA
1	25 kA
1.5	25 kA
2	25 kA
2.5	25 kA
3	25 kA
3.5	25 kA
4	25 kA
5	25 kA
6	25 kA
8	25 kA
10	25 kA
12	25 kA
13	25 kA
15	25 kA
16	25 kA
20	20 kA
25	20 kA
32	20 kA
40	20 kA
50	15 kA
63	15 kA

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FAZ and NZMB2

U_e = 230/400 V: I_{cu} (FAZ) = 15 kA
U_e = 230/400 V: I_{cu} (NZMB2) = 25 kA
U_e = 133/230 V: I_{cu} (FAZ) = 20 kA
U_e = 133/230 V: I_{cu} (NZMB2) = 30 kA
Back-up test acc. EN/IEC 60947-2, app. A: U = 1.05U_e, (O - t - CO)
(Settings NZM at max. values)

	FAZ-I_n/1(2,3,4)/B(C) + NZMB2	
I_n [A]	U_e = 230/400 V	U_e = 133/230 V
0.16	25 kA	30 kA
0.25	25 kA	30 kA
0.5	25 kA	30 kA
0.75	25 kA	30 kA
1	25 kA	30 kA
1.5	25 kA	30 kA
2	25 kA	30 kA
2.5	25 kA	30 kA
3	25 kA	30 kA
3.5	25 kA	30 kA
4	25 kA	30 kA
5	25 kA	25 kA
6	25 kA	25 kA
8	25 kA	25 kA
10	25 kA	25 kA
12	20 kA	25 kA
13	20 kA	25 kA
15	20 kA	25 kA
16	20 kA	25 kA
20	20 kA	25 kA
25	20 kA	25 kA
32	20 kA	25 kA
40	15 kA	20 kA
50	15 kA	20 kA
63	15 kA	20 kA

FAZ and NZMN2

U_e = 230/400 V: I_{cu} (FAZ) = 15 kA
U_e = 230/400 V: I_{cu} (NZMN2) = 50 kA
U_e = 133/230 V: I_{cu} (FAZ) = 20 kA
U_e = 133/230 V: I_{cu} (NZMN2) = 85 kA
Back-up test acc. EN/IEC 60947-2, app. A: U = 1.05U_e, (O - t - CO)
(Settings NZM at max. values)

	FAZ-I_n/1(2,3,4)/B(C) + NZMN2	
I_n [A]	U_e = 230/400 V	U_e = 133/230 V
0.16	50 kA	85 kA
0.25	50 kA	85 kA
0.5	50 kA	85 kA
0.75	50 kA	85 kA
1	50 kA	85 kA
1.5	50 kA	85 kA
2	50 kA	85 kA
2.5	50 kA	85 kA
3	50 kA	85 kA
3.5	50 kA	85 kA
4	50 kA	85 kA
5	50 kA	80 kA
6	50 kA	80 kA
8	50 kA	80 kA
10	50 kA	80 kA
12	30 kA	60 kA
13	30 kA	60 kA
15	30 kA	60 kA
16	30 kA	60 kA
20	30 kA	60 kA
25	30 kA	60 kA
32	30 kA	60 kA
40	20 kA	40 kA
50	20 kA	40 kA
63	20 kA	40 kA

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FAZ and NZMH2

U_e = 230/400 V: I_{cu} (FAZ) = 15 kA
U_e = 230/400 V: I_{cu} (NZMH2) = 150 kA
U_e = 133/230 V: I_{cu} (FAZ) = 20 kA
U_e = 133/230 V: I_{cu} (NZMH2) = 150 kA
Back-up test acc. EN/IEC 60947-2, app. A: U = 1.05U_e, (O - t - CO)
(Settings NZM at max. values)

	FAZ-I_n/1(2,3,4)/B(C) + NZMH2	
I_n [A]	U_e = 230/400 V	U_e = 133/230 V
0.16	50 kA	85 kA
0.25	50 kA	85 kA
0.5	50 kA	85 kA
0.75	50 kA	85 kA
1	50 kA	85 kA
1.5	50 kA	85 kA
2	50 kA	85 kA
2.5	50 kA	85 kA
3	50 kA	85 kA
3.5	50 kA	85 kA
4	50 kA	85 kA
5	50 kA	80 kA
6	50 kA	80 kA
8	50 kA	80 kA
10	50 kA	80 kA
12	30 kA	60 kA
13	30 kA	60 kA
15	30 kA	60 kA
16	30 kA	60 kA
20	30 kA	60 kA
25	30 kA	60 kA
32	30 kA	60 kA
40	20 kA	40 kA
50	20 kA	40 kA
63	20 kA	40 kA

FAZ and NZML2

U_e = 230/400 V: I_{cu} (FAZ) = 15 kA
U_e = 230/400 V: I_{cu} (NZML2) = 150 kA
U_e = 133/230 V: I_{cu} (FAZ) = 20 kA
U_e = 133/230 V: I_{cu} (NZML2) = 150 kA
Back-up test acc. EN/IEC 60947-2, app. A: U = 1.05U_e, (O - t - CO)
(Settings NZM at max. values)

	FAZ-I_n/1(2,3,4)/B(C) + NZML2	
I_n [A]	U_e = 230/400 V	U_e = 133/230 V
0.16	50 kA	85 kA
0.25	50 kA	85 kA
0.5	50 kA	85 kA
0.75	50 kA	85 kA
1	50 kA	85 kA
1.5	50 kA	85 kA
2	50 kA	85 kA
2.5	50 kA	85 kA
3	50 kA	85 kA
3.5	50 kA	85 kA
4	50 kA	85 kA
5	50 kA	80 kA
6	50 kA	80 kA
8	50 kA	80 kA
10	50 kA	80 kA
12	30 kA	60 kA
13	30 kA	60 kA
15	30 kA	60 kA
16	30 kA	60 kA
20	30 kA	60 kA
25	30 kA	60 kA
32	30 kA	60 kA
40	20 kA	40 kA
50	20 kA	40 kA
63	20 kA	40 kA

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FAZ and NH

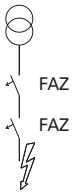
U_e = 230 V: I_{cu} (FAZ) = 15 (10) kA (acc. to IEC/EN 60947)
U_e = 500 V: I_{cu} (NH00 125 A gL / gG) = 120kA

	FAZ-I_n/B,(C),(D)... + NH00 125 A gL/gG
I_n [A]	IT-system U = 230 V
0.5	50 kA
1	50 kA
2	50 kA
3	50 kA
4	50 kA
6	50 kA
10	50 kA
13	50 kA
16	50 kA
20	50 kA
25	50 kA
32	50 kA
40	50 kA
50	50 kA
63	50 kA

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Overload Selectivity FAZ

FAZ-B(C)(D) to FAZ-B



Upstream side FAZ, Characteristic B
Downstream side FAZ, Characteristic B, C, D

x ... Selectivity range (i.e. only the downstream switch drops in case $I < I_s$)

Upstream side → FAZ Characteristic B														
Type B rated current I_n [A]		2	3	4	6	10	13	16	20	25	32	40	50	63
Selectivity limiting current I_s [A]		7	10.5	14	21	35	45.5	56	70	87.5	112	140	175	220.5
Downstream side FAZ Characteristic B ↓	2		x	x	x	x	x	x	x	x	x	x	x	x
	3			x	x	x	x	x	x	x	x	x	x	x
	4				x	x	x	x	x	x	x	x	x	x
	6					x	x	x	x	x	x	x	x	x
	10						x	x	x	x	x	x	x	x
	13							x	x	x	x	x	x	x
	16								x	x	x	x	x	x
	20									x	x	x	x	x
	25										x	x	x	x
	32											x	x	x
	40												x	x
	50													x
	63													

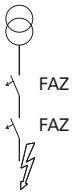
Upstream side → FAZ Characteristic B														
Type B rated current I_n [A]		2	3	4	6	10	13	16	20	25	32	40	50	63
Selectivity limiting current I_s [A]		7	10.5	14	21	35	45.5	56	70	87.5	112	140	175	220.5
Downstream side FAZ Characteristic C ↓	0.5	x	x	x	x	x	x	x	x	x	x	x	x	x
	1	x	x	x	x	x	x	x	x	x	x	x	x	x
	2			x	x	x	x	x	x	x	x	x	x	x
	3				x	x	x	x	x	x	x	x	x	x
	4					x	x	x	x	x	x	x	x	x
	6						x	x	x	x	x	x	x	x
	8							x	x	x	x	x	x	x
	10								x	x	x	x	x	x
	13									x	x	x	x	x
	16										x	x	x	x
	20											x	x	x
	25												x	x
	32													x
	40													
	50													
	63													

Upstream side → FAZ Characteristic B														
Type B rated current I_n [A]		2	3	4	6	10	13	16	20	25	32	40	50	63
Selectivity limiting current I_s [A]		7	10.5	14	21	35	45.5	56	70	87.5	112	140	175	220.5
Downstream side FAZ Characteristic D ↓	2					x	x	x	x	x	x	x	x	x
	4							x	x	x	x	x	x	x
	6								x	x	x	x	x	x
	10										x	x	x	x
	13											x	x	x
	16												x	x
	20													x
	25													
	32													
	40													

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Overload Selectivity FAZ

FAZ-B(C)(D) to FAZ-C



Upstream side FAZ, Characteristic C
Downstream side FAZ, Characteristic B, C, D

x ... Selectivity range (i.e. only the downstream switch drops in case I< I_s)

Upstream side → FAZ Characteristic C																	
Type B rated current I_n [A]	0.5	1	2	3	4	6	8	10	13	16	20	25	32	40	50	63
Selectivity limiting current I_s [A]	2.85	5.7	11.4	17.1	22.8	34.2	45.6	57	74.1	91.2	114	142.5	182.4	228	285	359.1
Downstream side FAZ Characteristic B ↓																
2				x	x	x	x	x	x	x	x	x	x	x	x	x
3					x	x	x	x	x	x	x	x	x	x	x	x
4						x	x	x	x	x	x	x	x	x	x	x
6							x	x	x	x	x	x	x	x	x	x
10									x	x	x	x	x	x	x	x
13										x	x	x	x	x	x	x
16											x	x	x	x	x	x
20												x	x	x	x	x
25													x	x	x	x
32														x	x	x
40															x	x
50																x
63																

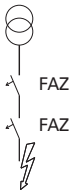
Upstream side → FAZ Characteristic C																	
Type B rated current I_n [A]	0.5	1	2	3	4	6	8	10	13	16	20	25	32	40	50	63
Selectivity limiting current I_s [A]	2.85	5.7	11.4	17.1	22.8	34.2	45.6	57	74.1	91.2	114	142.5	182.4	228	285	359.1
Downstream side FAZ Characteristic C ↓																
0.5		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1			x	x	x	x	x	x	x	x	x	x	x	x	x	x
2				x	x	x	x	x	x	x	x	x	x	x	x	x
3					x	x	x	x	x	x	x	x	x	x	x	x
4						x	x	x	x	x	x	x	x	x	x	x
6							x	x	x	x	x	x	x	x	x	x
8								x	x	x	x	x	x	x	x	x
10									x	x	x	x	x	x	x	x
13										x	x	x	x	x	x	x
16											x	x	x	x	x	x
20												x	x	x	x	x
25													x	x	x	x
32														x	x	x
40															x	x
50																x
63																

Upstream side → FAZ Characteristic C																	
Type B rated current I_n [A]	0.5	1	2	3	4	6	8	10	13	16	20	25	32	40	50	63
Selectivity limiting current I_s [A]	2.85	5.7	11.4	17.1	22.8	34.2	45.6	57	74.1	91.2	114	142.5	182.4	228	285	359.1
Downstream side FAZ Characteristic D ↓																
2						x	x	x	x	x	x	x	x	x	x	x
4							x	x	x	x	x	x	x	x	x	x
6									x	x	x	x	x	x	x	x
10											x	x	x	x	x	x
13												x	x	x	x	x
16													x	x	x	x
20														x	x	x
25															x	x
32																
40																

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Overload Selectivity FAZ

FAZ-B(C)(D) to FAZ-D



Upstream side FAZ, Characteristic D
Downstream side FAZ, Characteristic B, C, D

x ... Selectivity range (i.e. only the downstream switch drops in case I< I_s)

Upstream side →	FAZ Characteristic D									
Type B rated current I_n [A]	2	4	6	10	13	16	20	25	32	40
Selectivity limiting current I_s [A]	21	42	63	105	136.5	168	210	262.5	336	420
Downstream side FAZ Characteristic B ↓										
2		x	x	x	x	x	x	x	x	x
3		x	x	x	x	x	x	x	x	x
4			x	x	x	x	x	x	x	x
6				x	x	x	x	x	x	x
10					x	x	x	x	x	x
13						x	x	x	x	x
16							x	x	x	x
20								x	x	x
25									x	x
32										x
40										
50										
63										

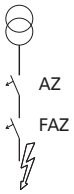
Upstream side →	FAZ Characteristic D									
Type B rated current I_n [A]	2	4	6	10	13	16	20	25	32	40
Selectivity limiting current I_s [A]	21	42	63	105	136.5	168	210	262.5	336	420
Downstream side FAZ Characteristic C ↓										
0.5	x	x	x	x	x	x	x	x	x	x
1	x	x	x	x	x	x	x	x	x	x
2		x	x	x	x	x	x	x	x	x
3		x	x	x	x	x	x	x	x	x
4			x	x	x	x	x	x	x	x
6				x	x	x	x	x	x	x
8				x	x	x	x	x	x	x
10					x	x	x	x	x	x
13						x	x	x	x	x
16							x	x	x	x
20								x	x	x
25									x	x
32										x
40										
50										
63										

Upstream side →	FAZ Characteristic D									
Type B rated current I_n [A]	2	4	6	10	13	16	20	25	32	40
Selectivity limiting current I_s [A]	21	42	63	105	136.5	168	210	262.5	336	420
Downstream side FAZ Characteristic D ↓										
2		x	x	x	x	x	x	x	x	x
4			x	x	x	x	x	x	x	x
6				x	x	x	x	x	x	x
10					x	x	x	x	x	x
13						x	x	x	x	x
16							x	x	x	x
20								x	x	x
25									x	x
32										x
40										

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Overload Selectivity FAZ

FAZ-B(C)(D) to AZ-C



Upstream side AZ, Characteristic C
Downstream side FAZ, Characteristic B, C, D

x ... Selectivity range (i.e. only the downstream switch drops in case $I < I_s$)

Upstream side → AZ Characteristic C										
Type B rated current I_n [A]		20	25	32	40	50	63	80	100	125
Selectivity limiting current I_s [A]		130	163	208	260	325	410	520	650	813
Downstream side FAZ Characteristic B ↓	2	x	x	x	x	x	x	x	x	x
	3	x	x	x	x	x	x	x	x	x
	4	x	x	x	x	x	x	x	x	x
	6	x	x	x	x	x	x	x	x	x
	10	x	x	x	x	x	x	x	x	x
	13	x	x	x	x	x	x	x	x	x
	16	x	x	x	x	x	x	x	x	x
	20		x	x	x	x	x	x	x	x
	25			x	x	x	x	x	x	x
	32				x	x	x	x	x	x
	40					x	x	x	x	x
	50						x	x	x	x
	63							x	x	x

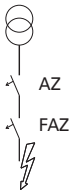
Upstream side → AZ Characteristic C										
Type B rated current I_n [A]		20	25	32	40	50	63	80	100	125
Selectivity limiting current I_s [A]		130	163	208	260	325	410	520	650	813
Downstream side FAZ Characteristic C ↓	0.5	x	x	x	x	x	x	x	x	x
	1	x	x	x	x	x	x	x	x	x
	2	x	x	x	x	x	x	x	x	x
	3	x	x	x	x	x	x	x	x	x
	4	x	x	x	x	x	x	x	x	x
	6	x	x	x	x	x	x	x	x	x
	8	x	x	x	x	x	x	x	x	x
	10	x	x	x	x	x	x	x	x	x
	13	x	x	x	x	x	x	x	x	x
	16	x	x	x	x	x	x	x	x	x
	20		x	x	x	x	x	x	x	x
	25			x	x	x	x	x	x	x
	32				x	x	x	x	x	x
	40					x	x	x	x	x
	50						x	x	x	x
	63							x	x	x

Upstream side → AZ Characteristic C										
Type B rated current I_n [A]		20	25	32	40	50	63	80	100	125
Selectivity limiting current I_s [A]		130	163	208	260	325	410	520	650	813
Downstream side FAZ Characteristic D ↓	2	x	x	x	x	x	x	x	x	x
	4	x	x	x	x	x	x	x	x	x
	6	x	x	x	x	x	x	x	x	x
	10	x	x	x	x	x	x	x	x	x
	13		x	x	x	x	x	x	x	x
	16			x	x	x	x	x	x	x
	20				x	x	x	x	x	x
	25					x	x	x	x	x
	32						x	x	x	x
	40							x	x	x

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Overload Selectivity FAZ

FAZ-B(C)(D) to AZ-D



Upstream side AZ, Characteristic D
Downstream side FAZ, Characteristic B, C, D

x ... Selectivity range (i.e. only the downstream switch drops in case I< I_s)

Upstream side →		**AZ Characteristic D**							
Type B rated current I_n [A]		20	25	32	40	50	63	80	100
Selectivity limiting current I_s [A]		230	285	365	450	550	680	850	1020
Downstream side FAZ Characteristic B ↓	2	x	x	x	x	x	x	x	x
	3	x	x	x	x	x	x	x	x
	4	x	x	x	x	x	x	x	x
	6	x	x	x	x	x	x	x	x
	10	x	x	x	x	x	x	x	x
	13	x	x	x	x	x	x	x	x
	16	x	x	x	x	x	x	x	x
	20		x	x	x	x	x	x	x
	25			x	x	x	x	x	x
	32				x	x	x	x	x
	40					x	x	x	x
	50						x	x	x
	63							x	x

Upstream side →		**AZ Characteristic D**							
Type B rated current I_n [A]		20	25	32	40	50	63	80	100
Selectivity limiting current I_s [A]		230	285	365	450	550	680	850	1020
Downstream side FAZ Characteristic C ↓	0.5	x	x	x	x	x	x	x	x
	1	x	x	x	x	x	x	x	x
	2	x	x	x	x	x	x	x	x
	3	x	x	x	x	x	x	x	x
	4	x	x	x	x	x	x	x	x
	6	x	x	x	x	x	x	x	x
	8	x	x	x	x	x	x	x	x
	10	x	x	x	x	x	x	x	x
	13	x	x	x	x	x	x	x	x
	16	x	x	x	x	x	x	x	x
	20		x	x	x	x	x	x	x
	25			x	x	x	x	x	x
	32				x	x	x	x	x
	40					x	x	x	x
	50						x	x	x
	63							x	x

Upstream side →		**AZ Characteristic D**							
Type B rated current I_n [A]		20	25	32	40	50	63	80	100
Selectivity limiting current I_s [A]		230	285	365	450	550	680	850	1020
Downstream side FAZ Characteristic D ↓	2	x	x	x	x	x	x	x	x
	4	x	x	x	x	x	x	x	x
	6	x	x	x	x	x	x	x	x
	10	x	x	x	x	x	x	x	x
	13	x	x	x	x	x	x	x	x
	16	x	x	x	x	x	x	x	x
	20		x	x	x	x	x	x	x
	25			x	x	x	x	x	x
	32				x	x	x	x	x
	40					x	x	x	x

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Influence of the Line Frequency FAZ

On the Instantaneous Tripping Current I_{MA}

	Line 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

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Miniature Circuit Breakers FAZ-DC

SG53312



FAZ-DC

- High-quality miniature circuit breakers for DC-applications
- Contact position indicator red - green
- Guide for secure terminal connection (not for FAZ-NA)
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories suitable for subsequent installation
- Rated currents up to 50 A
- Tripping characteristic C
- Rated breaking capacity 10 kA according to IEC/EN 60947-2
- Up to 250 V DC pro pole

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FAZ-...-DC Miniature Circuit Breakers (MCBs)
Characteristic C

SG54512



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V DC)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Type Designation	Article No.	Units per package
2	220	10	FAZ-C2/1-DC	279122	12/120
3	250	10	FAZ-C3/1-DC	279123	12/120
4	250	10	FAZ-C4/1-DC	279124	12/120
6	250	10	FAZ-C6/1-DC	279125	12/120
10	250	10	FAZ-C10/1-DC	279126	12/120
13	250	10	FAZ-C13/1-DC	279127	12/120
16	250	10	FAZ-C16/1-DC	279128	12/120
20	250	10	FAZ-C20/1-DC	279129	12/120
25	250	10	FAZ-C25/1-DC	279130	12/120
32	250	10	FAZ-C32/1-DC	279131	12/120
40	250	10	FAZ-C40/1-DC	279132	12/120
50	250	10	FAZ-C50/1-DC	279133	12/120

SG53312



2-pole

2	440	10	FAZ-C2/2-DC	279134	1/60
3	500	10	FAZ-C3/2-DC	279135	1/60
4	500	10	FAZ-C4/2-DC	279136	1/60
6	500	10	FAZ-C6/2-DC	279137	1/60
10	500	10	FAZ-C10/2-DC	279138	1/60
13	500	10	FAZ-C13/2-DC	279139	1/60
16	500	10	FAZ-C16/2-DC	279140	1/60
20	500	10	FAZ-C20/2-DC	279141	1/60
25	500	10	FAZ-C25/2-DC	279142	1/60
32	500	10	FAZ-C32/2-DC	279143	1/60
40	500	10	FAZ-C40/2-DC	279144	1/60
50	500	10	FAZ-C50/2-DC	279145	1/60

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Specifications FAZ-DC

Technical data

		FAZ-DC *)
Productstandard		IEC/EN 60947-2
Number of poles		1, 2
Mechanical specifications		
Device width		17.7 mm (1p), 36 mm (2p)
Frame size		45 mm
Socket size		80 mm
Device depth		60 mm
Terminals		lift terminal
Terminal capacity rigid solid/stranded wire		1-25 mm^2
Terminal screw		M5 (with slotted screw acc. to EN ISO 4757-Z2, PZ2)
Terminal torque		max. 2.4 Nm
Snap on fixing		tristable (on DIN rail acc. to EN 50022)
Finger proof		acc. to VBG4, ÖVE EN-6
Degree of Protection (DIN VDE 0470)		
Surface mounted		IP 20
Built-in behind panel		IP 40
Contact position indicator		red / green
Electrical specifications		
Rated voltage DC	U_n	2 A type: 220V (per pole) 3-50 A types: 250V (per pole)
Rated current	I_n	Type C: 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50 A
Rated insulation voltage	U_i	440 V
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50)µsec
Tripping characteristic		
Conventional non-tripping current		I_{nt}=1.13 I_n
Conventional tripping current		I_t=1.45 I_n
Reference temperature		30 °C
Temperature factor		0.4% /K
Instantaneous tripping current	I_{mt}	type C: 7 I_n < I_{mt} = 15 I_n:t (I_{mt}) < 0.1 sec
Rated short-circuit braking capacity	I_{cu}	10 kA
Selectivity class		3
Number of electrical operations		> 4000
Number of mechanical operations		> 20000
Climatic conditions		acc. to IEC 68-2 (25..55°C / 90..95% RH)
Operating temperature range		-40°C to +75°C

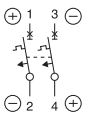
*) not for PV string protection!

Connection diagram

1-pole



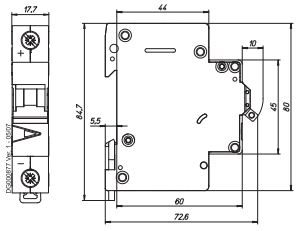
2-pole



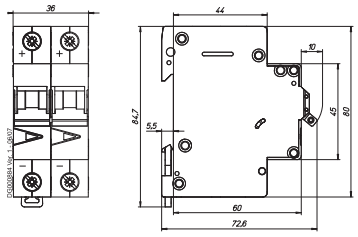
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Dimensions (mm) FAZ-...-DC

1-pole

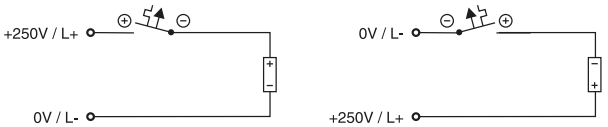


2-pole

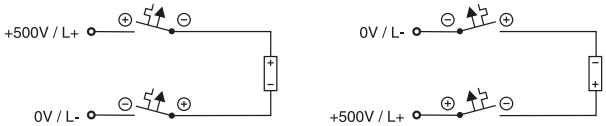


Connection examples FAZ-...-DC

Connection example at 250V=, 1-pole

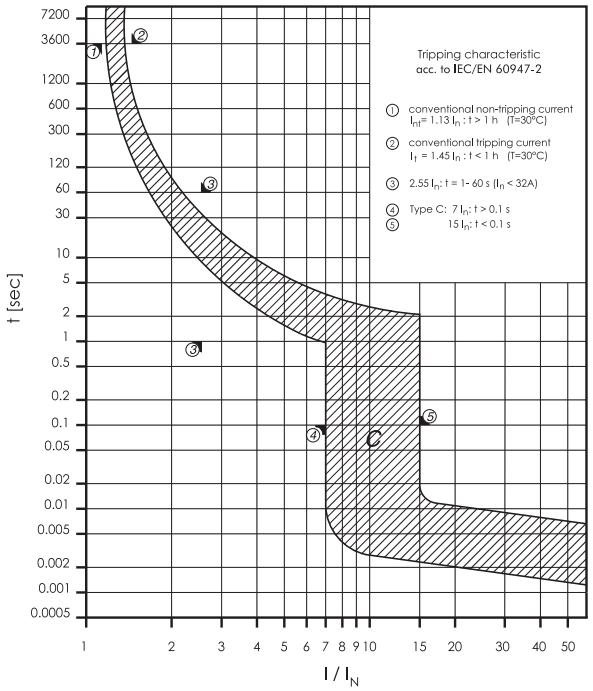


Connection example at 500V=, 2-pole



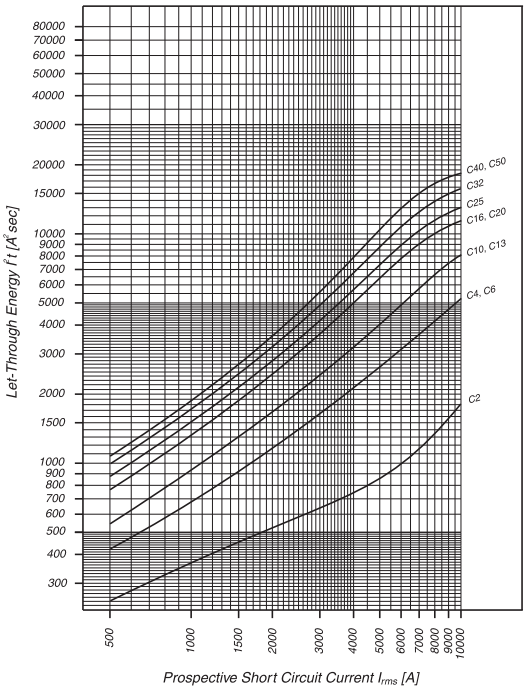
Tripping Characteristic FAZ-...-DC

Characteristics C - IEC/EN 60947-2



Maximum Let-Through Energy FAZ-...-DC

Type C



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Miniature Circuit Breakers FAZ-NA, FAZ-RT, FAZ-DU

SG56912



FAZ-NA/-RT/-DU

- According to UL 489, CSA C22.2 No. 5 and also IEC 60947-2 standard
- For Applications, wich are permitted for UL 1077 or CSA C22.2 No. 235
- Auxiliary switch and voltage trips suitable for subsequent installation
- Serie with removable terminal screws (Type FAZ-..-RT/-DU), for use with ring cable lug
- Contact position indicator red - green
- Easy mounting at DIN-rail

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FAZ-...-NA Miniature Circuit Breakers (MCBs)

Characteristic B

SG53012



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	Type Designation	Article No.	Units per package
1	240/415	15	277	10	SWD	AWG 18	FAZ-B1/1-NA	132414	12/120
1.5	240/415	15	277	10	SWD	AWG 18	FAZ-B1,5/1-NA	132415	12/120
2	240/415	15	277	10	SWD	AWG 18	FAZ-B2/1-NA	132416	12/120
3	240/415	15	277	10	SWD	AWG 18	FAZ-B3/1-NA	132417	12/120
4	240/415	15	277	10	SWD	AWG 18	FAZ-B4/1-NA	132418	12/120
5	240/415	15	277	10	SWD	AWG 18	FAZ-B5/1-NA	132419	12/120
6	240/415	15	277	10	SWD	AWG 18	FAZ-B6/1-NA	132680	12/120
7	240/415	15	277	10	SWD	AWG 18	FAZ-B7/1-NA	132681	12/120
8	240/415	15	277	10	SWD	AWG 16	FAZ-B8/1-NA	132682	12/120
10	240/415	15	277	10	SWD	AWG 16	FAZ-B10/1-NA	132683	12/120
13	240/415	15	277	10	SWD		FAZ-B13/1-NA	132684	12/120
15	240/415	15	277	14	SWD		FAZ-B15/1-NA	132685	12/120
16	240/415	15	277	14	SWD		FAZ-B16/1-NA	132686	12/120
20	240/415	15	277	14	SWD		FAZ-B20/1-NA	132687	12/120
25	240/415	15	277	14			FAZ-B25/1-NA	132688	12/120
30	240/415	15	277	10			FAZ-B30/1-NA	132689	12/120
32	240/415	15	277	10			FAZ-B32/1-NA	132690	12/120
35	240/415	15	240	10			FAZ-B35/1-NA	132691	12/120
40	240/415	15	240	10			FAZ-B40/1-NA	132692	12/120

SG56812



2-pole

1	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1/2-NA	132693	1/60
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1,5/2-NA	132694	1/60
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-B2/2-NA	132695	1/60
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-B3/2-NA	132696	1/60
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-B4/2-NA	132697	1/60
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B5/2-NA	132698	1/60
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-B6/2-NA	132699	1/60
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-B7/2-NA	132700	1/60
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-B8/2-NA	132701	1/60
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-B10/2-NA	132702	1/60
13	415	15	480Y/277	10	SWD		FAZ-B13/2-NA	132703	1/60
15	415	15	480Y/277	14	SWD		FAZ-B15/2-NA	132704	1/60
16	415	15	480Y/277	14	SWD		FAZ-B16/2-NA	132705	1/60
20	415	15	480Y/277	14	SWD		FAZ-B20/2-NA	132706	1/60
25	415	15	480Y/277	14			FAZ-B25/2-NA	132707	1/60
30	415	15	480Y/277	10			FAZ-B30/2-NA	132708	1/60
32	415	15	480Y/277	10			FAZ-B32/2-NA	132709	1/60
35	415	15	240	10			FAZ-B35/2-NA	132710	1/60
40	415	15	240	10			FAZ-B40/2-NA	132711	1/60

SG56912



3-pole

1	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1/3-NA	132712	1/40
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1,5/3-NA	132713	1/40
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-B2/3-NA	132714	1/40
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-B3/3-NA	132715	1/40
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-B4/3-NA	132716	1/40
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B5/3-NA	132717	1/40
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-B6/3-NA	132718	1/40
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-B7/3-NA	132719	1/40
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-B8/3-NA	132720	1/40
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-B10/3-NA	132721	1/40
13	415	15	480Y/277	10	SWD		FAZ-B13/3-NA	132722	1/40
15	415	15	480Y/277	14	SWD		FAZ-B15/3-NA	132723	1/40
16	415	15	480Y/277	14	SWD		FAZ-B16/3-NA	132724	1/40
20	415	15	480Y/277	14	SWD		FAZ-B20/3-NA	132725	1/40
25	415	15	480Y/277	14			FAZ-B25/3-NA	132726	1/40
30	415	15	480Y/277	10			FAZ-B30/3-NA	132727	1/40
32	415	15	480Y/277	10			FAZ-B32/3-NA	132728	1/40
35	415	15	240	10			FAZ-B35/3-NA	132729	1/40
40	415	15	240	10			FAZ-B40/3-NA	132730	1/40

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FAZ-...-NA Miniature Circuit Breakers (MCBs)

Characteristic C

SG53012



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	Type Designation	Article No.	Units per package
0.5	240/415	15	277	10	SWD	AWG 18	FAZ-C0,5/1-NA	181883	12/120
1	240/415	15	277	10	SWD	AWG 18	FAZ-C1/1-NA	181885	12/120
1.5	240/415	15	277	10	SWD	AWG 18	FAZ-C1,5/1-NA	181887	12/120
2	240/415	15	277	10	SWD	AWG 18	FAZ-C2/1-NA	181889	12/120
3	240/415	15	277	10	SWD	AWG 18	FAZ-C3/1-NA	181891	12/120
4	240/415	15	277	10	SWD	AWG 18	FAZ-C4/1-NA	181893	12/120
5	240/415	15	277	10	SWD	AWG 18	FAZ-C5/1-NA	181895	12/120
6	240/415	15	277	10	SWD	AWG 18	FAZ-C6/1-NA	181897	12/120
7	240/415	15	277	10	SWD	AWG 18	FAZ-C7/1-NA	181899	12/120
8	240/415	15	277	10	SWD	AWG 16	FAZ-C8/1-NA	181901	12/120
10	240/415	15	277	10	SWD	AWG 16	FAZ-C10/1-NA	181903	12/120
13	240/415	15	277	10	SWD		FAZ-C13/1-NA	181905	12/120
15	240/415	15	277	14	SWD		FAZ-C15/1-NA	181907	12/120
16	240/415	15	277	14	SWD		FAZ-C16/1-NA	181909	12/120
20	240/415	15	277	14	SWD		FAZ-C20/1-NA	181911	12/120
25	240/415	15	277	14			FAZ-C25/1-NA	181913	12/120
30	240/415	15	277	10			FAZ-C30/1-NA	181915	12/120
32	240/415	15	277	10			FAZ-C32/1-NA	181917	12/120
35	240/415	15	240	10			FAZ-C35/1-NA	181919	12/120
40	240/415	15	240	10			FAZ-C40/1-NA	181921	12/120

SG56812



2-pole

0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C0,5/2-NA	181923	1/60
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1/2-NA	181925	1/60
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1,5/2-NA	181927	1/60
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-C2/2-NA	181929	1/60
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-C3/2-NA	181931	1/60
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-C4/2-NA	181933	1/60
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C5/2-NA	181935	1/60
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-C6/2-NA	181937	1/60
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-C7/2-NA	181939	1/60
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-C8/2-NA	181941	1/60
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-C10/2-NA	181943	1/60
13	415	15	480Y/277	10	SWD		FAZ-C13/2-NA	181945	1/60
15	415	15	480Y/277	14	SWD		FAZ-C15/2-NA	181947	1/60
16	415	15	480Y/277	14	SWD		FAZ-C16/2-NA	181949	1/60
20	415	15	480Y/277	14	SWD		FAZ-C20/2-NA	181951	1/60
25	415	15	480Y/277	14			FAZ-C25/2-NA	181953	1/60
30	415	15	480Y/277	10			FAZ-C30/2-NA	181955	1/60
32	415	15	480Y/277	10			FAZ-C32/2-NA	181957	1/60
35	415	15	240	10			FAZ-C35/2-NA	181959	1/60
40	415	15	240	10			FAZ-C40/2-NA	181961	1/60

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3-pole

0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C0,5/3-NA	181963	1/40
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1/3-NA	181965	1/40
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1,5/3-NA	181967	1/40
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-C2/3-NA	181969	1/40
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-C3/3-NA	181971	1/40
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-C4/3-NA	181973	1/40
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C5/3-NA	181975	1/40
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-C6/3-NA	181977	1/40
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-C7/3-NA	181979	1/40
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-C8/3-NA	181981	1/40
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-C10/3-NA	181983	1/40
13	415	15	480Y/277	10	SWD		FAZ-C13/3-NA	181985	1/40
15	415	15	480Y/277	14	SWD		FAZ-C15/3-NA	181987	1/40
16	415	15	480Y/277	14	SWD		FAZ-C16/3-NA	181989	1/40
20	415	15	480Y/277	14	SWD		FAZ-C20/3-NA	181991	1/40
25	415	15	480Y/277	14			FAZ-C25/3-NA	181993	1/40
30	415	15	480Y/277	10			FAZ-C30/3-NA	181995	1/40
32	415	15	480Y/277	10			FAZ-C32/3-NA	181997	1/40
35	415	15	240	10			FAZ-C35/3-NA	181999	1/40
40	415	15	240	10			FAZ-C40/3-NA	182001	1/40

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FAZ-...-NA Miniature Circuit Breakers (MCBs)

Characteristic D

SG53012



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	Type Designation	Article No.	Units per package
0.5	240/415	15	277	10	SWD	AWG 18	FAZ-D0,5/1-NA	182003	12/120
1	240/415	15	277	10	SWD	AWG 18	FAZ-D1/1-NA	182005	12/120
1.5	240/415	15	277	10	SWD	AWG 18	FAZ-D1,5/1-NA	182007	12/120
2	240/415	15	277	10	SWD	AWG 18	FAZ-D2/1-NA	182009	12/120
3	240/415	15	277	10	SWD	AWG 18	FAZ-D3/1-NA	182011	12/120
4	240/415	15	277	10	SWD	AWG 18	FAZ-D4/1-NA	182013	12/120
5	240/415	15	277	10	SWD	AWG 18	FAZ-D5/1-NA	182015	12/120
6	240/415	15	277	10	SWD	AWG 18	FAZ-D6/1-NA	182017	12/120
7	240/415	15	277	10	SWD	AWG 18	FAZ-D7/1-NA	182019	12/120
8	240/415	15	277	10	SWD	AWG 16	FAZ-D8/1-NA	182021	12/120
10	240/415	15	277	10	SWD	AWG 16	FAZ-D10/1-NA	181831	12/120
13	240/415	15	277	14	SWD		FAZ-D13/1-NA	181833	12/120
15	240/415	15	277	14	SWD		FAZ-D15/1-NA	181835	12/120
16	240/415	15	277	14	SWD		FAZ-D16/1-NA	181837	12/120
20	240/415	15	277	14	SWD		FAZ-D20/1-NA	181839	12/120
25	240/415	15	277	10			FAZ-D25/1-NA	181841	12/120
30	240/415	15	277	10			FAZ-D30/1-NA	182023	12/120
32	240/415	15	277	10			FAZ-D32/1-NA	182025	12/120
35	240/415	15	240	10			FAZ-D35/1-NA	182027	12/120
40	240/415	15	240	10			FAZ-D40/1-NA	182029	12/120

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2-pole

0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D0,5/2-NA	182031	1/60
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1/2-NA	182033	1/60
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1,5/2-NA	182035	1/60
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-D2/2-NA	182037	1/60
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-D3/2-NA	182039	1/60
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-D4/2-NA	182041	1/60
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D5/2-NA	182043	1/60
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-D6/2-NA	182045	1/60
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-D7/2-NA	182047	1/60
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-D8/2-NA	182049	1/60
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-D10/2-NA	182051	1/60
13	415	15	480Y/277	14	SWD		FAZ-D13/2-NA	182053	1/60
15	415	15	480Y/277	14	SWD		FAZ-D15/2-NA	182055	1/60
16	415	15	480Y/277	14	SWD		FAZ-D16/2-NA	182057	1/60
20	415	15	480Y/277	14	SWD		FAZ-D20/2-NA	182059	1/60
25	415	15	480Y/277	10			FAZ-D25/2-NA	182061	1/60
30	415	15	480Y/277	10			FAZ-D30/2-NA	182063	1/60
32	415	15	480Y/277	10			FAZ-D32/2-NA	182065	1/60
35	415	15	240	10			FAZ-D35/2-NA	182067	1/60
40	415	15	240	10			FAZ-D40/2-NA	182069	1/60

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3-pole

0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D0,5/3-NA	182071	1/40
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1/3-NA	182073	1/40
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1,5/3-NA	182075	1/40
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-D2/3-NA	182077	1/40
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-D3/3-NA	182079	1/40
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-D4/3-NA	182081	1/40
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D5/3-NA	182083	1/40
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-D6/3-NA	182085	1/40
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-D7/3-NA	182087	1/40
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-D8/3-NA	182089	1/40
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-D10/3-NA	182091	1/40
13	415	15	480Y/277	14	SWD		FAZ-D13/3-NA	182093	1/40
15	415	15	480Y/277	14	SWD		FAZ-D15/3-NA	182095	1/40
16	415	15	480Y/277	14	SWD		FAZ-D16/3-NA	182097	1/40
20	415	15	480Y/277	14	SWD		FAZ-D20/3-NA	182099	1/40
25	415	15	480Y/277	10			FAZ-D25/3-NA	182101	1/40
30	415	15	480Y/277	10			FAZ-D30/3-NA	182103	1/40
32	415	15	480Y/277	10			FAZ-D32/3-NA	182105	1/40
35	415	15	240	10			FAZ-D35/3-NA	182107	1/40
40	415	15	240	10			FAZ-D40/3-NA	182109	1/40

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FAZ-...-RT/-DU Miniature Circuit Breakers (MCBs)

Characteristic B

SG56412



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	Type Designation	Article No.	Units per package
1	240/415	15	277	10	SWD	AWG 18	FAZ-B1/1-RT	132731	12/120
1.5	240/415	15	277	10	SWD	AWG 18	FAZ-B1,5/1-RT	132732	12/120
2	240/415	15	277	10	SWD	AWG 18	FAZ-B2/1-RT	132733	12/120
3	240/415	15	277	10	SWD	AWG 18	FAZ-B3/1-RT	132734	12/120
4	240/415	15	277	10	SWD	AWG 18	FAZ-B4/1-RT	132735	12/120
5	240/415	15	277	10	SWD	AWG 18	FAZ-B5/1-RT	132736	12/120
6	240/415	15	277	10	SWD	AWG 18	FAZ-B6/1-RT	132737	12/120
7	240/415	15	277	10	SWD	AWG 18	FAZ-B7/1-RT	132738	12/120
8	240/415	15	277	10	SWD	AWG 16	FAZ-B8/1-RT	132739	12/120
10	240/415	15	277	10	SWD	AWG 16	FAZ-B10/1-RT	132740	12/120
13	240/415	15	277	10	SWD		FAZ-B13/1-RT	132741	12/120
15	240/415	15	277	14	SWD		FAZ-B15/1-RT	132742	12/120
16	240/415	15	277	14	SWD		FAZ-B16/1-RT	132743	12/120
20	240/415	15	277	14	SWD		FAZ-B20/1-RT	132744	12/120
25	240/415	15	277	14			FAZ-B25/1-RT	132745	12/120
30	240/415	15	277	10			FAZ-B30/1-RT	132746	12/120
32	240/415	15	277	10			FAZ-B32/1-RT	132747	12/120
35	240/415	15	240	10			FAZ-B35/1-RT	132748	12/120
40	240/415	15	240	10			FAZ-B40/1-RT	132749	12/120

SG56712



2-pole

1	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1/2-RT	132750	1/60
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1,5/2-RT	132751	1/60
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-B2/2-RT	132752	1/60
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-B3/2-RT	132753	1/60
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-B4/2-RT	132754	1/60
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B5/2-RT	132755	1/60
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-B6/2-RT	132756	1/60
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-B7/2-RT	132757	1/60
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-B8/2-RT	132758	1/60
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-B10/2-RT	132759	1/60
13	415	15	480Y/277	10	SWD		FAZ-B13/2-RT	132760	1/60
15	415	15	480Y/277	14	SWD		FAZ-B15/2-RT	132761	1/60
16	415	15	480Y/277	14	SWD		FAZ-B16/2-RT	132762	1/60
20	415	15	480Y/277	14	SWD		FAZ-B20/2-RT	132763	1/60
25	415	15	480Y/277	14			FAZ-B25/2-RT	132764	1/60
30	415	15	480Y/277	10			FAZ-B30/2-RT	132765	1/60
32	415	15	480Y/277	10			FAZ-B32/2-RT	132766	1/60
35	415	15	240	10			FAZ-B35/2-RT	132767	1/60
40	415	15	240	10			FAZ-B40/2-RT	132768	1/60

SG57012



3-pole

1	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1/3-RT	132769	1/40
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B1,5/3-RT	132770	1/40
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-B2/3-RT	132771	1/40
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-B3/3-RT	132772	1/40
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-B4/3-RT	132773	1/40
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-B5/3-RT	132774	1/40
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-B6/3-RT	132775	1/40
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-B7/3-RT	132776	1/40
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-B8/3-RT	132777	1/40
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-B10/3-RT	132778	1/40
13	415	15	480Y/277	10	SWD		FAZ-B13/3-RT	132779	1/40
15	415	15	480Y/277	14	SWD		FAZ-B15/3-RT	132780	1/40
16	415	15	480Y/277	14	SWD		FAZ-B16/3-RT	132781	1/40
20	415	15	480Y/277	14	SWD		FAZ-B20/3-RT	132782	1/40
25	415	15	480Y/277	14			FAZ-B25/3-RT	132783	1/40
30	415	15	480Y/277	10			FAZ-B30/3-RT	132784	1/40
32	415	15	480Y/277	10			FAZ-B32/3-RT	132785	1/40
35	415	15	240	10			FAZ-B35/3-RT	132786	1/40
40	415	15	240	10			FAZ-B40/3-RT	132787	1/40

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FAZ-...-RT/-DU Miniature Circuit Breakers (MCBs)

Characteristic C



FAZ-RT has the plastic limiter at both terminals, as showed in red circle; While FAZ-DU doesn't have

SG56412



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	RT Type Designation	RT Article No.	DU Type Designation	DU Article No.	Units per package
0.5	240/415	15	277	10	SWD	AWG 18	FAZ-C0,5/1-RT	181884	FAZ-C0,5/1-DU	185095	12/120
1	240/415	15	277	10	SWD	AWG 18	FAZ-C1/1-RT	181886	FAZ-C1/1-DU	185096	12/120
1.5	240/415	15	277	10	SWD	AWG 18	FAZ-C1,5/1-RT	181888	FAZ-C1,5/1-DU	185097	12/120
2	240/415	15	277	10	SWD	AWG 18	FAZ-C2/1-RT	181890	FAZ-C2/1-DU	185098	12/120
3	240/415	15	277	10	SWD	AWG 18	FAZ-C3/1-RT	181892	FAZ-C3/1-DU	185099	12/120
4	240/415	15	277	10	SWD	AWG 18	FAZ-C4/1-RT	181894	FAZ-C4/1-DU	185100	12/120
5	240/415	15	277	10	SWD	AWG 18	FAZ-C5/1-RT	181896	FAZ-C5/1-DU	185101	12/120
6	240/415	15	277	10	SWD	AWG 18	FAZ-C6/1-RT	181898	FAZ-C6/1-DU	185102	12/120
7	240/415	15	277	10	SWD	AWG 18	FAZ-C7/1-RT	181900	FAZ-C7/1-DU	185103	12/120
8	240/415	15	277	10	SWD	AWG 16	FAZ-C8/1-RT	181902	FAZ-C8/1-DU	184990	12/120
10	240/415	15	277	10	SWD	AWG 16	FAZ-C10/1-RT	181904	FAZ-C10/1-DU	184991	12/120
13	240/415	15	277	10	SWD		FAZ-C13/1-RT	181906	FAZ-C13/1-DU	184992	12/120
15	240/415	15	277	14	SWD		FAZ-C15/1-RT	181908	FAZ-C15/1-DU	184993	12/120
16	240/415	15	277	14	SWD		FAZ-C16/1-RT	181910	FAZ-C16/1-DU	184994	12/120
20	240/415	15	277	14	SWD		FAZ-C20/1-RT	181912	FAZ-C20/1-DU	184995	12/120
25	240/415	15	277	14			FAZ-C25/1-RT	181914	FAZ-C25/1-DU	184996	12/120
30	240/415	15	277	10			FAZ-C30/1-RT	181916	FAZ-C30/1-DU	184997	12/120
32	240/415	15	277	10			FAZ-C32/1-RT	181918	FAZ-C32/1-DU	184998	12/120
35	240/415	15	240	10			FAZ-C35/1-RT	181920	FAZ-C35/1-DU	184999	12/120
40	240/415	15	240	10			FAZ-C40/1-RT	181922	FAZ-C40/1-DU	185000	12/120

SG56712



2-pole

0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C0,5/2-RT	181924	FAZ-C0,5/2-DU	185021	1/60
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1/2-RT	181926	FAZ-C1/2-DU	185022	1/60
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1,5/2-RT	181928	FAZ-C1,5/2-DU	185023	1/60
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-C2/2-RT	181930	FAZ-C2/2-DU	185024	1/60
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-C3/2-RT	181932	FAZ-C3/2-DU	185025	1/60
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-C4/2-RT	181934	FAZ-C4/2-DU	185026	1/60
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C5/2-RT	181936	FAZ-C5/2-DU	185027	1/60
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-C6/2-RT	181938	FAZ-C6/2-DU	185028	1/60
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-C7/2-RT	181940	FAZ-C7/2-DU	185029	1/60
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-C8/2-RT	181942	FAZ-C8/2-DU	185030	1/60
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-C10/2-RT	181944	FAZ-C10/2-DU	185031	1/60
13	415	15	480Y/277	10	SWD		FAZ-C13/2-RT	181946	FAZ-C13/2-DU	185032	1/60
15	415	15	480Y/277	14	SWD		FAZ-C15/2-RT	181948	FAZ-C15/2-DU	185033	1/60
16	415	15	480Y/277	14	SWD		FAZ-C16/2-RT	181950	FAZ-C16/2-DU	185034	1/60
20	415	15	480Y/277	14	SWD		FAZ-C20/2-RT	181952	FAZ-C20/2-DU	185035	1/60
25	415	15	480Y/277	14			FAZ-C25/2-RT	181954	FAZ-C25/2-DU	185036	1/60
30	415	15	480Y/277	10			FAZ-C30/2-RT	181956	FAZ-C30/2-DU	185037	1/60
32	415	15	480Y/277	10			FAZ-C32/2-RT	181958	FAZ-C32/2-DU	185038	1/60
35	415	15	240	10			FAZ-C35/2-RT	181960	FAZ-C35/2-DU	185039	1/60
40	415	15	240	10			FAZ-C40/2-RT	181962	FAZ-C40/2-DU	185040	1/60

SG57012



3-pole

0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C0,5/3-RT	181964	FAZ-C0,5/3-DU	185061	1/40
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1/3-RT	181966	FAZ-C1/3-DU	185062	1/40
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C1,5/3-RT	181968	FAZ-C1,5/3-DU	185063	1/40
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-C2/3-RT	181970	FAZ-C2/3-DU	185064	1/40
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-C3/3-RT	181972	FAZ-C3/3-DU	185065	1/40
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-C4/3-RT	181974	FAZ-C4/3-DU	185066	1/40
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-C5/3-RT	181976	FAZ-C5/3-DU	185067	1/40
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-C6/3-RT	181978	FAZ-C6/3-DU	185068	1/40
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-C7/3-RT	181980	FAZ-C7/3-DU	185069	1/40
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-C8/3-RT	181982	FAZ-C8/3-DU	185070	1/40
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-C10/3-RT	181984	FAZ-C10/3-DU	185071	1/40
13	415	15	480Y/277	10	SWD		FAZ-C13/3-RT	181986	FAZ-C13/3-DU	185072	1/40
15	415	15	480Y/277	14	SWD		FAZ-C15/3-RT	181988	FAZ-C15/3-DU	185073	1/40
16	415	15	480Y/277	14	SWD		FAZ-C16/3-RT	181990	FAZ-C16/3-DU	185074	1/40
20	415	15	480Y/277	14	SWD		FAZ-C20/3-RT	181992	FAZ-C20/3-DU	185075	1/40
25	415	15	480Y/277	14			FAZ-C25/3-RT	181994	FAZ-C25/3-DU	185076	1/40
30	415	15	480Y/277	10			FAZ-C30/3-RT	181996	FAZ-C30/3-DU	185077	1/40
32	415	15	480Y/277	10			FAZ-C32/3-RT	181998	FAZ-C32/3-DU	185078	1/40
35	415	15	240	10			FAZ-C35/3-RT	182000	FAZ-C35/3-DU	185079	1/40
40	415	15	240	10			FAZ-C40/3-RT	182002	FAZ-C40/3-DU	185080	1/40

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FAZ-...-RT/-DU Miniature Circuit Breakers (MCBs)

Characteristic D

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	RT Type Designation	RT Article No.	DU Type Designation	DU Article No.	Units per package
SG56412											
1-pole											
0.5	240/415	15	277	10	SWD	AWG 18	FAZ-D0,5/1-RT	182004	FAZ-D0,5/1-DU	185001	12/120
1	240/415	15	277	10	SWD	AWG 18	FAZ-D1/1-RT	182006	FAZ-D1/1-DU	185002	12/120
1.5	240/415	15	277	10	SWD	AWG 18	FAZ-D1,5/1-RT	182008	FAZ-D1,5/1-DU	185003	12/120
2	240/415	15	277	10	SWD	AWG 18	FAZ-D2/1-RT	182010	FAZ-D2/1-DU	185004	12/120
3	240/415	15	277	10	SWD	AWG 18	FAZ-D3/1-RT	182012	FAZ-D3/1-DU	185005	12/120
4	240/415	15	277	10	SWD	AWG 18	FAZ-D4/1-RT	182014	FAZ-D4/1-DU	185006	12/120
5	240/415	15	277	10	SWD	AWG 18	FAZ-D5/1-RT	182016	FAZ-D5/1-DU	185007	12/120
6	240/415	15	277	10	SWD	AWG 18	FAZ-D6/1-RT	182018	FAZ-D6/1-DU	185008	12/120
7	240/415	15	277	10	SWD	AWG 18	FAZ-D7/1-RT	182020	FAZ-D7/1-DU	185009	12/120
8	240/415	15	277	10	SWD	AWG 16	FAZ-D8/1-RT	182022	FAZ-D8/1-DU	185010	12/120
10	240/415	15	277	10	SWD	AWG 16	FAZ-D10/1-RT	181832	FAZ-D10/1-DU	185011	12/120
13	240/415	15	277	14	SWD		FAZ-D13/1-RT	181834	FAZ-D13/1-DU	185012	12/120
15	240/415	15	277	14	SWD		FAZ-D15/1-RT	181836	FAZ-D15/1-DU	185013	12/120
16	240/415	15	277	14	SWD		FAZ-D16/1-RT	181838	FAZ-D16/1-DU	185014	12/120
20	240/415	15	277	14	SWD		FAZ-D20/1-RT	181840	FAZ-D20/1-DU	185015	12/120
25	240/415	15	277	10			FAZ-D25/1-RT	181842	FAZ-D25/1-DU	185016	12/120
30	240/415	15	277	10			FAZ-D30/1-RT	182024	FAZ-D30/1-DU	185017	12/120
32	240/415	15	277	10			FAZ-D32/1-RT	182026	FAZ-D32/1-DU	185018	12/120
35	240/415	15	240	10			FAZ-D35/1-RT	182028	FAZ-D35/1-DU	185019	12/120
40	240/415	15	240	10			FAZ-D40/1-RT	182030	FAZ-D40/1-DU	185020	12/120
SG56712											
2-pole											
0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D0,5/2-RT	182032	FAZ-D0,5/2-DU	185041	1/60
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1/2-RT	182034	FAZ-D1/2-DU	185042	1/60
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1,5/2-RT	182036	FAZ-D1,5/2-DU	185043	1/60
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-D2/2-RT	182038	FAZ-D2/2-DU	185044	1/60
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-D3/2-RT	182040	FAZ-D3/2-DU	185045	1/60
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-D4/2-RT	182042	FAZ-D4/2-DU	185046	1/60
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D5/2-RT	182044	FAZ-D5/2-DU	185047	1/60
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-D6/2-RT	182046	FAZ-D6/2-DU	185048	1/60
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-D7/2-RT	182048	FAZ-D7/2-DU	185049	1/60
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-D8/2-RT	182050	FAZ-D8/2-DU	185050	1/60
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-D10/2-RT	182052	FAZ-D10/2-DU	185051	1/60
13	415	15	480Y/277	14	SWD		FAZ-D13/2-RT	182054	FAZ-D13/2-DU	185052	1/60
15	415	15	480Y/277	14	SWD		FAZ-D15/2-RT	182056	FAZ-D15/2-DU	185053	1/60
16	415	15	480Y/277	14	SWD		FAZ-D16/2-RT	182058	FAZ-D16/2-DU	185054	1/60
20	415	15	480Y/277	14	SWD		FAZ-D20/2-RT	182060	FAZ-D20/2-DU	185055	1/60
25	415	15	480Y/277	10			FAZ-D25/2-RT	182062	FAZ-D25/2-DU	185056	1/60
30	415	15	480Y/277	10			FAZ-D30/2-RT	182064	FAZ-D30/2-DU	185057	1/60
32	415	15	480Y/277	10			FAZ-D32/2-RT	182066	FAZ-D32/2-DU	185058	1/60
35	415	15	240	10			FAZ-D35/2-RT	182068	FAZ-D35/2-DU	185059	1/60
40	415	15	240	10			FAZ-D40/2-RT	182070	FAZ-D40/2-DU	185060	1/60
SG57012											
3-pole											
0.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D0,5/3-RT	182072	FAZ-D0,5/3-DU	185081	1/40
1	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1/3-RT	182074	FAZ-D1/3-DU	185082	1/40
1.5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D1,5/3-RT	182076	FAZ-D1,5/3-DU	185083	1/40
2	415	15	480Y/277	10	SWD	AWG 18	FAZ-D2/3-RT	182078	FAZ-D2/3-DU	185084	1/40
3	415	15	480Y/277	10	SWD	AWG 18	FAZ-D3/3-RT	182080	FAZ-D3/3-DU	185085	1/40
4	415	15	480Y/277	10	SWD	AWG 18	FAZ-D4/3-RT	182082	FAZ-D4/3-DU	185086	1/40
5	415	15	480Y/277	10	SWD	AWG 18	FAZ-D5/3-RT	182084	FAZ-D5/3-DU	185087	1/40
6	415	15	480Y/277	10	SWD	AWG 18	FAZ-D6/3-RT	182086	FAZ-D6/3-DU	185088	1/40
7	415	15	480Y/277	10	SWD	AWG 18	FAZ-D7/3-RT	182088	FAZ-D7/3-DU	185089	1/40
8	415	15	480Y/277	10	SWD	AWG 16	FAZ-D8/3-RT	182090	FAZ-D8/3-DU	185090	1/40
10	415	15	480Y/277	10	SWD	AWG 16	FAZ-D10/3-RT	182092	FAZ-D10/3-DU	185091	1/40
13	415	15	480Y/277	14	SWD		FAZ-D13/3-RT	182094	FAZ-D13/3-DU	185092	1/40
15	415	15	480Y/277	14	SWD		FAZ-D15/3-RT	182096	FAZ-D15/3-DU	185093	1/40
16	415	15	480Y/277	14	SWD		FAZ-D16/3-RT	182098	FAZ-D16/3-DU	185094	1/40
20	415	15	480Y/277	14	SWD		FAZ-D20/3-RT	182100	FAZ-D20/3-DU	184984	1/40
25	415	15	480Y/277	10			FAZ-D25/3-RT	182102	FAZ-D25/3-DU	184985	1/40
30	415	15	480Y/277	10			FAZ-D30/3-RT	182104	FAZ-D30/3-DU	184986	1/40
32	415	15	480Y/277	10			FAZ-D32/3-RT	182106	FAZ-D32/3-DU	184987	1/40
35	415	15	240	10			FAZ-D35/3-RT	182108	FAZ-D35/3-DU	184988	1/40
40	415	15	240	10			FAZ-D40/3-RT	182110	FAZ-D40/3-DU	184989	1/40

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FAZ-NA, -RT, -DU Miniature Circuit Breakers

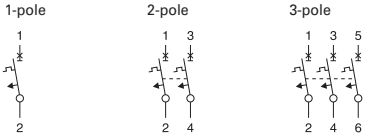
Accessories:		
Auxiliary switch for subsequent installation	Z-IHK-NA	113895
Tripping signal contact for subsequent installation	Z-NHK	248434
Shunt trip release	FAZ-XAA-NA12-110VAC	102037
	FAZ-XAA-NA110-415VAC	102036
Switching interlock	IS/SPE-1TE	101911
	Z-IS/SPE-1TE	274418

Specifications FAZ-NA, -RT, -DU

Technical data IEC/EN

		FAZ-...-NA, -RT, -DU
Productstandard		IEC/EN 60947-2
Number of poles		1, 2, 3
Mechanical specifications		
Device width		17.7mm (1-pole), 35.4 mm (2-poles), 53.1 mm (3-poles)
Frame size		45 mm
Socket size		105 mm
Device depth		60 mm
Terminals		lift terminal / ring-tongue
Terminal capacity rigid solid/stranded wire		1-25 mm^2
Terminal screw		M5 (with slotted screw Pozidriv PZ2)
Terminal torque		max. 2.4 Nm
Snap on fixing		tristable (on DIN Rail acc. to IEC/EN 60715)
Degree of Protection (DIN VDE 0470)		
Surface mounted		IP 20
Built-in behind panel		IP 40
Contact position indicator		red / green
Electrical specifications		
Rated voltage	U_n	240/415 V AC
Rated current	I_n	0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A
Rated insulation voltage	U_i	440 V AC
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50)µsec
Tripping characteristic		
Conventional non-tripping current		I_{nt}=1.05 I_n
Conventional tripping current		I_t=1.30 I_n
Reference temperature		30 °C
Temperature factor		0.5% /K
Instantaneous tripping current	I_{mt}	type B: 3 I_n < I_{mt} = 5 I_n:t (I_{mt}) < 0.1 sec (IEC/EN 60898-1) type C: 5 I_n < I_{mt} = 10 I_n:t (I_{mt}) < 0.1 sec (IEC/EN 60898-1) type D: 10 I_n < I_{mt} = 20 I_n:t (I_{mt}) < 0.1 sec (IEC/EN 60898-1)
Rated short-circuit braking capacity	I_{cu}	15 kA
Service short circuit capacity	I_{cs}	7.5 kA
Selectivity class		3 (acc. to EN 60898)
Number of electrical operations		> 1500
Number of mechanical operations		> 10000
Climatic conditions		acc. to IEC 68-2 (25..55°C / 90..95% RH)
Operating temperature range		-40°C to +75°C

Connection diagram



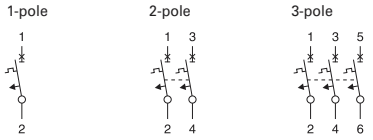
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Specifications FAZ-NA, -RT, -DU

Technical data UL

		FAZ-...-NA, -RT, -DU
Productstandard		UL 489 CSA C22.2 No. 5-02
Number of poles		1, 2, 3
Mechanical specifications		
Device width		0.697 in. (1-pole), 1.394 in. (2-poles), 2.090 in. (3-poles)
Frame size		1.772 in.
Socket size		4.134 in.
Device depth		2.362 in.
Terminals		lift terminal / ring-tongue
Terminal capacity		1 Wire: #18-6 AWG (Cu only) 2 Wires: #18-10 AWG (Cu only)
Terminal screw		M5 (with slotted screw Pozidriv PZ2)
Terminal torque		#18-12 AWG: 21 lb-in #10-8 AWG: 25 lb-in #6 AWG: 36 lb-in
Snap on fixing		tristable (on DIN Rail acc. to IEC/EN 60715)
Contact position indicator		red / green
Electrical specifications		
Rated voltage	U_n	0.5-32 A: 480Y/277 V AC, 35-40 A: 240 V AC
Rated current	I_n	0.5, 1, 1.5, 2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A
Tripping characteristic		
Conventional non-tripping current		I_{nt}=1.00 I_n
Conventional tripping current		I_t=1.35 I_n
Reference temperature		40 °C
Temperature factor		0.5% /K
Instantaneous tripping current	I_{mt}	type C: 5 I_n < I_{mt} = 10 I_n:t (I_{mt}) < 0.1 sec type D: 10 I_n < I_{mt} = 20 I_n:t (I_{mt}) < 0.1 sec
Current interrupting rating		10 kA, 14 kA (types D13, B/C/D15, 16, 20, B/C25 A)
Current-Limiting at 240 V / 10 kA		1p, 2p, 3p to I^2t = 43 kA^2s and I_{peak} = 6.2 kA
Current-Limiting at 480Y/277 V / 10 kA		1p, 2p, 3p to I^2t = 60 kA^2s and I_{peak} = 6.2 kA
Current-Limiting at 480Y/277 V / 14 kA		1p, 2p, 3p to I^2t = 65 kA^2s and I_{peak} = 7.5 kA
Selectivity class		3 (acc. to EN 60898)
Number of electrical operations		6000
Number of mechanical operations		10000
Climatic conditions		acc. to IEC 68-2 (25..55°C / 90..95% RH)
Operating temperature range		-5°C to +40°C

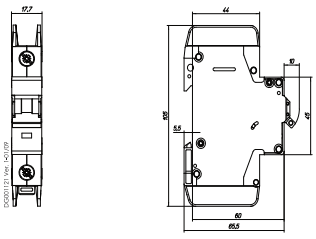
Connection diagram



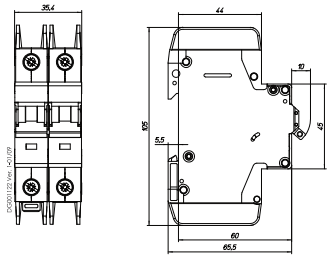
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Dimensions (mm) FAZ-...-NA, -RT, -DU

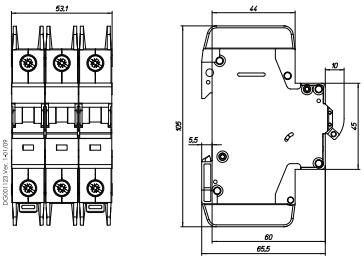
1-pole



2-pole

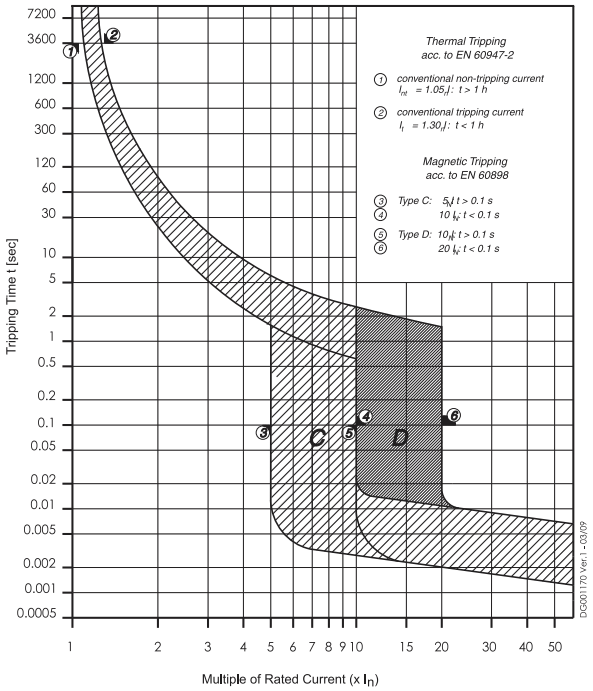


3-pole

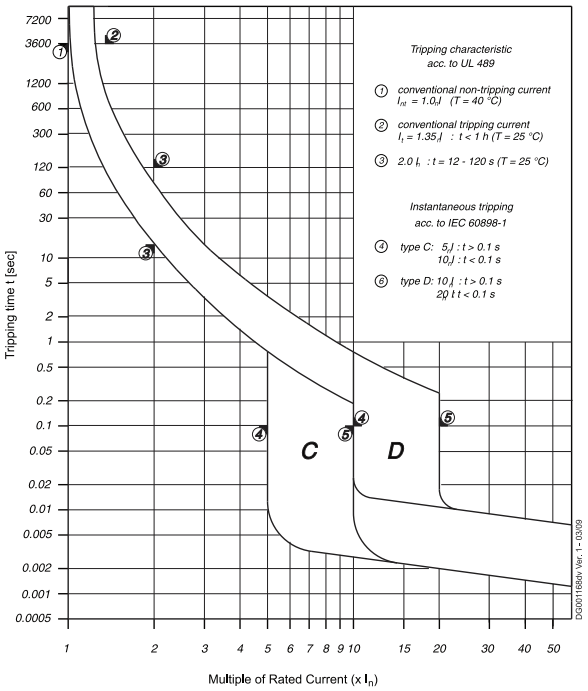


Tripping Characteristic FAZ-...-NA, -RT, -DU

Characteristics C and D - EN/IEC 60947-2



Characteristics C and D - UL 489



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Internal Resistance FAZ-...-NA, -RT, -DU

Type C

At room temperature (single pole)

In [A]	Z* [m⌧]	R [m⌧]
0.5	6400	6300
1	1100	1080
1.5	560	550
2	340	330
3	132	130
4	86	85
5	70	69
6	31	30
7	28	27
8	20	19.6
10	15.8	15.5
13	12.3	12.1
15	7.1	7.0
16	7.1	7.0
20	6.0	5.9
25	4.1	4.0
30	2.8	2.7
32	2.8	2.7
35	2.5	2.5
40	2.1	2.1

* 50Hz

Type D

At room temperature (single pole)

In [A]	Z* [m⌧]	R [m⌧]
0.5	6400	6300
1	770	755
1.5	460	450
2	250	245
3	132	130
4	86	85
5	57	56
6	31	30
7	28	27
8	18	17.6
10	13.5	13.2
13	10.5	10.3
15	5.9	5.8
16	5.9	5.8
20	4.0	3.9
25	3.4	3.3
30	2.5	2.5
32	2.5	2.5
35	2.5	2.5
40	2.0	2.0

* 50Hz

Power Loss at I_n FAZ-...-NA, -RT, -DU

Type C

	1p	2p	3p
In [A]	P* [W]	P* [W]	P* [W
0.5	1.6	3.2	4.7
1	1.1	2.2	3.4
1.5	1.3	2.6	3.9
2	1.4	2.8	4.3
3	1.2	2.4	3.6
4	1.4	2.9	4.3
5	1.9	3.7	5.6
6	1.2	2.3	3.5
7	1.4	2.8	4.3
8	1.4	2.8	4.2
10	1.8	3.6	5.3
13	2.4	4.7	7.1
15	1.9	3.8	5.6
16	2.1	4.3	6.4
20	2.9	5.8	8.7
25	3.1	6.2	9.3
30	3.0	6.0	9.0
32	3.4	6.8	10.2
35	3.7	7.4	11.0
40	4.0	8.1	12.1

*50Hz

Type D

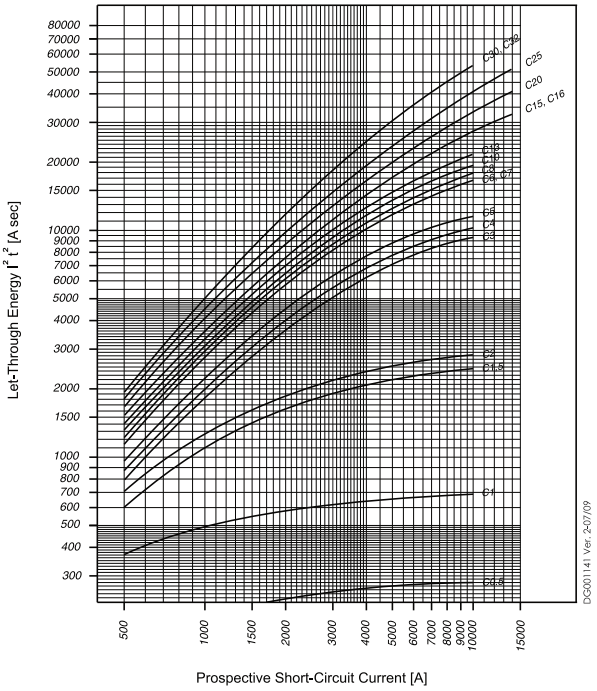
	1p	2p	3p
In [A]	P* [W]	P* [W]	P* [W
0.5	1.6	3.2	4.8
1	0.8	1.5	2.3
1.5	1.0	2.1	3.1
2	1.0	2.1	3.1
3	1.2	2.4	3.6
4	1.4	2.9	4.3
5	1.5	2.9	4.4
6	1.2	2.3	3.5
7	1.4	2.8	4.3
8	1.2	2.4	3.7
10	1.5	3.0	4.5
13	2.0	4.1	6.1
15	1.5	3.1	4.6
16	1.7	3.5	5.2
20	1.8	3.7	5.5
25	2.6	5.1	7.7
30	2.7	5.4	8.1
32	3.1	6.2	9.3
35	3.8	7.6	11.3
40	3.9	7.8	11.6

*50Hz

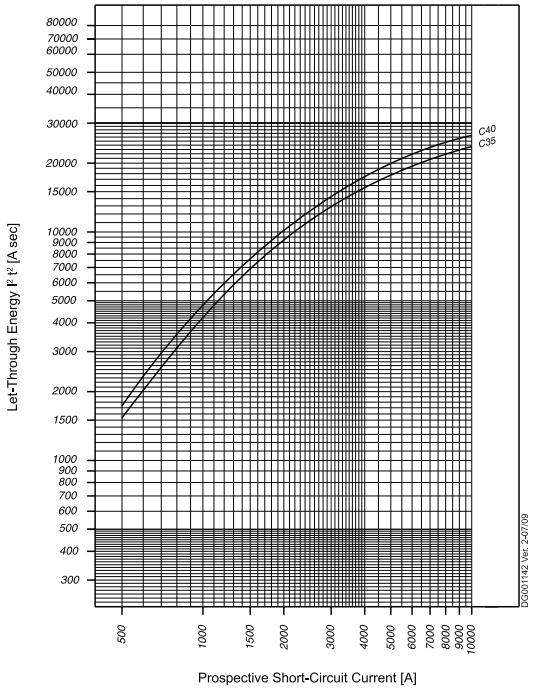
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Maximum Let-Through Energy FAZ-...-NA, -RT, -DU

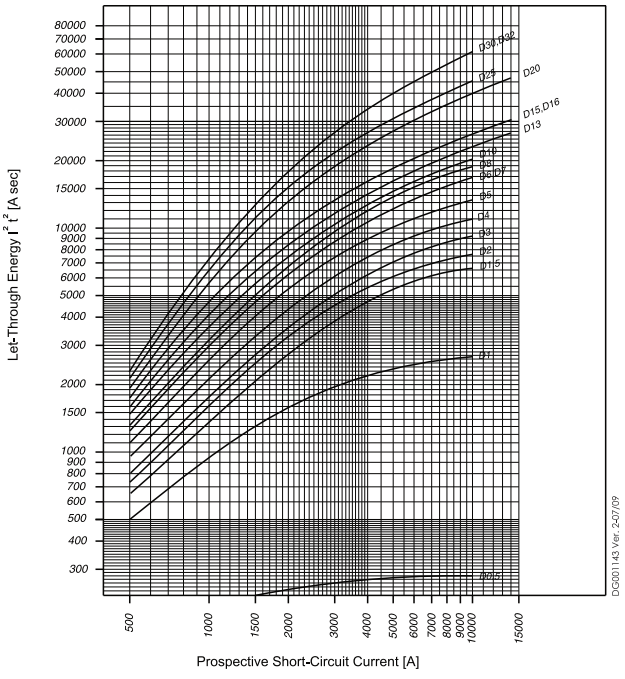
Type C (0.5 - 32 A), 277 V



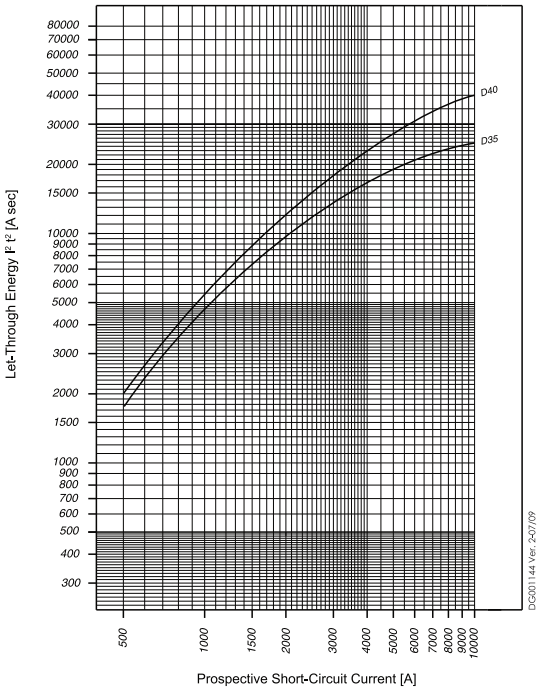
Type C (35 - 40 A), 240 V



Type D (0.5 - 32 A), 277 V



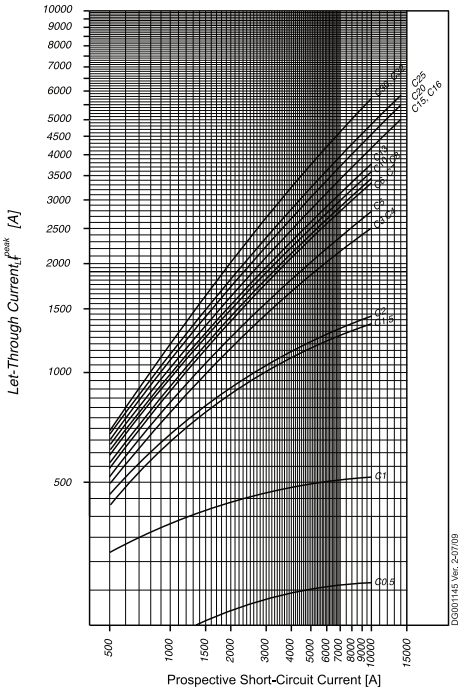
Type D (35 - 40 A), 240 V



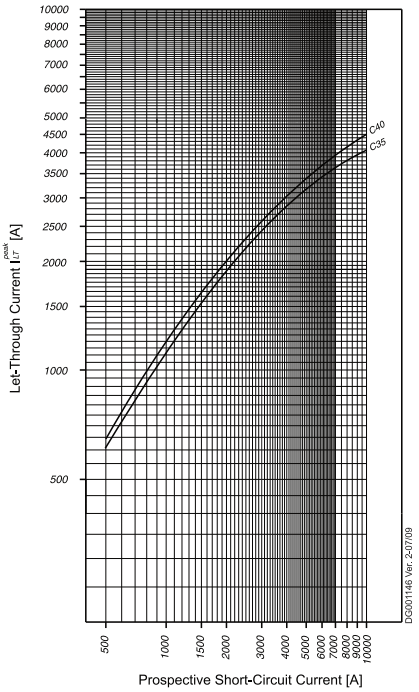
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Maximum Let-Through Current FAZ-...-NA, -RT, -DU

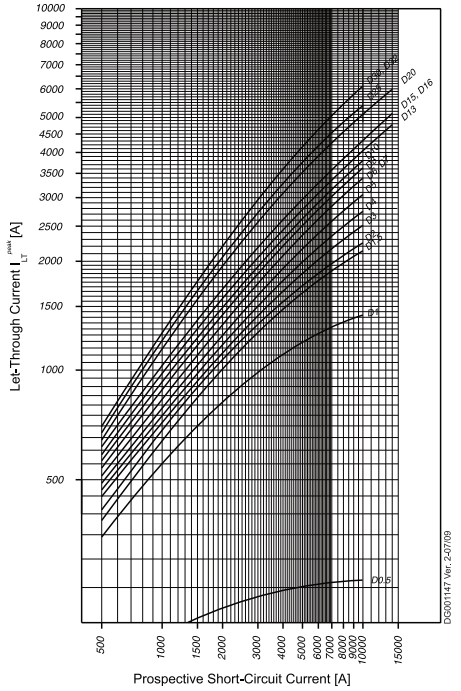
Type C (0.5 - 32 A), 277 V



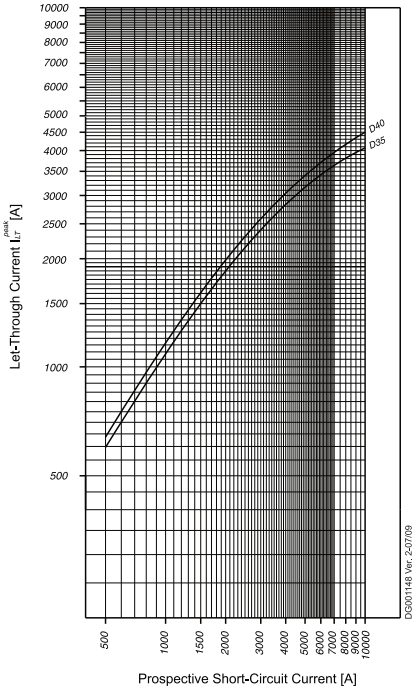
Type C (35 - 40 A), 240 V



Type D (0.5 - 32 A), 277 V



Type D (35 - 40 A), 240 V



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Miniature Circuit Breakers FAZ-NA-DC

SG56612



FAZ-NA-DC

- High-quality miniature circuit breakers for DC-applications
- Contact position indicator red - green
- Guide for secure terminal connection (not for FAZ-NA)
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories suitable for subsequent installation
- Rated currents up to 40 A
- Tripping characteristic C
- Rated breaking capacity 10 kA according to IEC/EN 60947-2
- Up to 125 V DC per pole

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FAZ-...-NA-DC Miniature Circuit Breakers (MCBs)
Characteristic C

SG56512



1-pole

Rated current I_n (A)	Rated voltage IEC/EN 60947-2 (V DC)	Breaking capacity acc. to IEC/EN 60947-2 (kA)	Rated voltage UL489 (V)	Breaking capacity acc. to UL489 (kA)	SWD	NFPA 79	Type Designation	Article No.	Units per package
2	220	10	125	10			FAZ-C2/1-NA-DC	113752	12/120
3	250	10	125	10			FAZ-C3/1-NA-DC	113753	12/120
4	250	10	125	10			FAZ-C4/1-NA-DC	113754	12/120
5	250	10	125	10			FAZ-C5/1-NA-DC	113755	12/120
6	250	10	125	10			FAZ-C6/1-NA-DC	113756	12/120
7	250	10	125	10			FAZ-C7/1-NA-DC	113757	12/120
8	250	10	125	10			FAZ-C8/1-NA-DC	113758	12/120
10	250	10	125	10			FAZ-C10/1-NA-DC	113759	12/120
13	250	10	125	10			FAZ-C13/1-NA-DC	113760	12/120
15	250	10	125	10			FAZ-C15/1-NA-DC	113761	12/120
16	250	10	125	10			FAZ-C16/1-NA-DC	113762	12/120
20	250	10	125	10			FAZ-C20/1-NA-DC	113763	12/120
25	250	10	125	10			FAZ-C25/1-NA-DC	113764	12/120
30	250	10	125	10			FAZ-C30/1-NA-DC	113765	12/120
32	250	10	125	10			FAZ-C32/1-NA-DC	113766	12/120
35	250	10	125	10			FAZ-C35/1-NA-DC	113767	12/120
40	250	10	125	10			FAZ-C40/1-NA-DC	113768	12/120

SG56612



2-pole

2	440	10	250	10			FAZ-C2/2-NA-DC	137239	1/60
3	500	10	250	10			FAZ-C3/2-NA-DC	137250	1/60
4	500	10	250	10			FAZ-C4/2-NA-DC	137251	1/60
5	500	10	250	10			FAZ-C5/2-NA-DC	137252	1/60
6	500	10	250	10			FAZ-C6/2-NA-DC	120638	1/60
7	500	10	250	10			FAZ-C7/2-NA-DC	120639	1/60
8	500	10	250	10			FAZ-C8/2-NA-DC	120640	1/60
10	500	10	250	10			FAZ-C10/2-NA-DC	120641	1/60
13	500	10	250	10			FAZ-C13/2-NA-DC	120642	1/60
15	500	10	250	10			FAZ-C15/2-NA-DC	120643	1/60
16	500	10	250	10			FAZ-C16/2-NA-DC	120644	1/60
20	500	10	250	10			FAZ-C20/2-NA-DC	120645	1/60
25	500	10	250	10			FAZ-C25/2-NA-DC	120646	1/60
30	500	10	250	10			FAZ-C30/2-NA-DC	120647	1/60
32	500	10	250	10			FAZ-C32/2-NA-DC	120648	1/60
35	500	10	250	10			FAZ-C35/2-NA-DC	120649	1/60
40	500	10	250	10			FAZ-C40/2-NA-DC	120650	1/60

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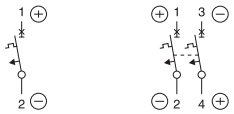
Specifications FAZ-NA-DC

Technical data

		FAZ-NA-DC
Productstandard		UL 489, CSA C22.2 No 5-02
Number of poles		1, 2
Mechanical specifications		
Device width		1 pole = 0.697 inch, 2 poles = 1.394 inch
Frame size		1.772 inch
Socket size		4.134 inch
Device depth		2.362 inch
Terminals		lift terminal / ring-tongue
Terminal capacity rigid solid/stranded wire		1 Wire: AWG 18-6 (Cu only) 2 Wires: AWG 18-10 (Cu only)
Terminal screw		M5 (with slotted screw Pozidriv PZ2)
Terminal torque		#18-12 AWG: 21 lb-in #10-8 AWG: 25 lb-in #6 AWG: 36 lb-in
Snap on fixing		tristable (on DIN Rail acc. to IEC/EN 60715)
Finger proof		acc.to VBG4, ÖVE EN-6
Contact position indicator		red / green
Electrical specifications		
Rated voltage DC	U_n	125 V d.c. (1p) 250 V d.c. (2p)
Rated current	I_n	2, 3, 4, 5, 6, 7, 8, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40 A
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50)µsec
Tripping characteristic		
Conventional non-tripping current		I_{nt}=1.0 I_n
Conventional tripping current		I_t=1.35 I_n
Reference temperature		40 °C
Temperature factor		0.5% /K
Instantaneous tripping current	I_{mt}	7 I_n < I_{mt} = 15 I_n:t (I_{mt}) < 0.1 sec
Current interrupting rating		10 kA
Number of electrical operating cycles		6000
Number of mechanical operating cycles		10000
Climatic conditions		acc. to IEC 68-2 (25..55°C / 90..95% RH)
Operating temperature range		-25°C to +55°C

Connection diagram

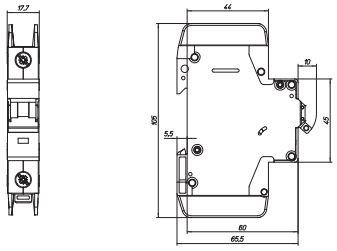
1-pole 2-pole



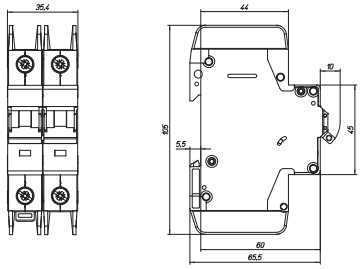
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Dimensions (mm) FAZ-NA-DC

1-pole

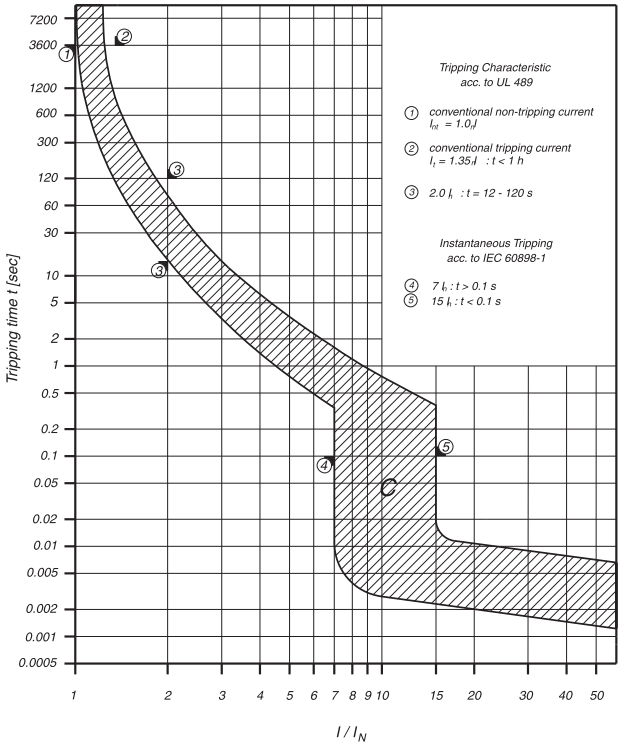


2-pole



Tripping Characteristic FAZ-NA-DC

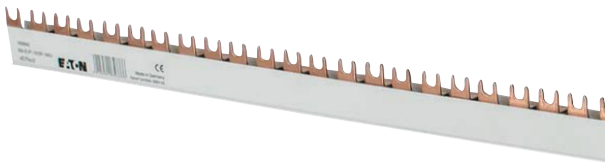
Characteristics C - UL 489



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Busbar System xEffect BB-EV

SG13113



Busbar System xEffect is the modular design system for busbars. xEffect busbars are available as yard goods with 1, 2 or 3 poles. Now, there is a special feature: each bar can easily be extended by one-pole bar as you like. The additional pole can be added completely without tools by easy clamping technique. The lugs or forks in the xEffect bars - available in 10 and 16 mm^2 and all common distances - can be broken out at a predetermined breaking point. There is actually no more flexibility available.

Busbar System xEffect saves time and material

The yard good can be cut with a saw of course. However, there is no need neither for deburring nor for cutting the conductor. Just cut to the required dimension and close with the fitting end cap -ready! The end caps have also breakable edges, which enable further connecting of the Busbar System xEffect. By overlapping assembly, doubling the cross section can be achieved.

Busbar System xEffect in use

Busbar System xEffect is especially well suited for solving flexible busbar applications rack-mounted models in series. Fork-pin combinations for 1+N-applications can be realized by individual combinations - for this also the one-pole version with blue isolation is available besides the one with grey isolation. Even different cross sections can be combined in this case.

Accessories, such as feeder terminals and self adhesive phase marking labels will complete the comfortable total package. Existing contact prevention caps can be used.

Busbar System xEffect at a glance:

- Yard goods can be cut
- No cutting back of copper required
- No deburring required
- Almost no waste during cutting
- End capsavailable with 1- to 4-poles, end caps can be broken out for further extensions
- 4-pole end cap molded in pairs (leftand right)
- Overlapping rail extension possible
- Rails can be extended on demand by 1-pole rails (plug-in technology)
- All step distances
- 10 and 16 mm^2
- Fork and stud
- Lugs can be broken out at any predetermined breaking point
- Self adhesive phase indication labels available
- Contact preventing caps (ZV-BS-G) can be used
- Simple, flexible handling
- All assembly requirements can be covered by the Busbar System xEffect
- Low storage space requirements due to modular system
- Less time consuming (no deburring, no cutting back)
- Individual and self configurable
- Fork-pin combination for 1+N application possible, feeding through rail (terminal clamp) not possible.
- Protected technology

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xEffect busbar 1m 10mm², 16mm² (Fork) BB-EVF

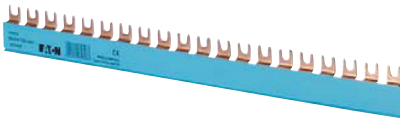
for MCBs, RCCBs, RCBOs, SPDs

- Delivered without end caps

SG13113



SG13413



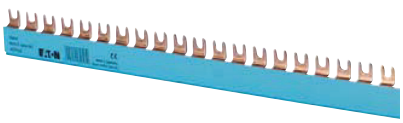
10 mm², Rated Current 63 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase	17.8	0.22	BB-EVF-10/1P-1MU	168826	10
	27	0.24	BB-EVF-10/1P-2MU	168830	10
	36	0.24	BB-EVF-10/1P-3MU	168834	10
2-phase	17.8	0.31	BB-EVF-10/2P-1MU	168838	10
	27	0.36	BB-EVF-10/2P-2MU	168840	10
3-phase	17.8	0.46	BB-EVF-10/3P-1MU	168842	10
	27	0.58	BB-EVF-10/3P-2MU	168844	10
	36	0.56	BB-EVF-10/3P-3MU	168850	10
3-phase + AUX	3x17.5+1x9	0.58	BB-EVF-10/3P-1MU/AUX	168846	10
	3x17.5+2x9	0.57	BB-EVF-10/3P-1MU2AUX	168848	10
Neutral	17.8	0.22	BB-EVF-10/N-1MU	168828	10
	27	0.24	BB-EVF-10/N-2MU	168832	10
	36	0.24	BB-EVF-10/N-3MU	168836	10

SG13213



SG13613



16 mm², Rated Current 80 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase	17.8	0.33	BB-EVF-16/1P-1MU	168827	10
	27	0.36	BB-EVF-16/1P-2MU	168831	10
	36	0.32	BB-EVF-16/1P-3MU	168835	10
2-phase	17.8	0.46	BB-EVF-16/2P-1MU	168839	10
	27	0.54	BB-EVF-16/2P-2MU	168841	10
3-phase	17.8	0.69	BB-EVF-16/3P-1MU	168843	10
	27	0.87	BB-EVF-16/3P-2MU	168845	10
	36	0.84	BB-EVF-16/3P-3MU	168851	10
3-phase + AUX	3x17.5+1x9	0.87	BB-EVF-16/3P-1MU/AUX	168847	10
	3x17.5+2x9	0.86	BB-EVF-16/3P-1MU2AUX	168849	10
Neutral	17.8	0.33	BB-EVF-16/N-1MU	168829	10
	27	0.36	BB-EVF-16/N-2MU	168833	10
	36	0.32	BB-EVF-16/N-3MU	168837	10

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xEffect busbar 1m 10mm², 16mm² (Pin) BB-EVP

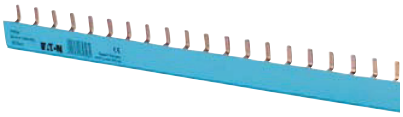
for MCBs, RCCBs, RCBOs, SPDs

- Delivered without end caps

SG13013



SG13513



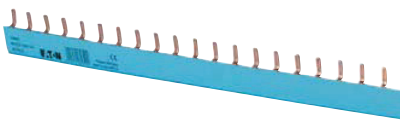
10 mm², Rated Current 63 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase	17.8	0.22	BB-EVP-10/1P-1MU	168852	10
	27	0.24	BB-EVP-10/1P-2MU	168856	10
	36	0.24	BB-EVP-10/1P-3MU	168860	10
2-phase	17.8	0.31	BB-EVP-10/2P-1MU	168864	10
	27	0.36	BB-EVP-10/2P-2MU	168866	10
3-phase	17.8	0.46	BB-EVP-10/3P-1MU	168868	10
	27	0.58	BB-EVP-10/3P-2MU	168870	10
	36	0.56	BB-EVP-10/3P-3MU	168876	10
3-phase + AUX	3x17.5+1x9	0.58	BB-EVP-10/3P-1MU/AUX	168872	10
	3x17.5+2x9	0.57	BB-EVP-10/3P-1MU2AUX	168874	10
Neutral	17.8	0.22	BB-EVP-10/N-1MU	168854	10
	27	0.24	BB-EVP-10/N-2MU	168858	10
	36	0.24	BB-EVP-10/N-3MU	168862	10

SG12913



SG13313



16 mm², Rated Current 80 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase	17.8	0.33	BB-EVP-16/1P-1MU	168853	10
	27	0.36	BB-EVP-16/1P-2MU	168857	10
	36	0.32	BB-EVP-16/1P-3MU	168861	10
2-phase	17.8	0.46	BB-EVP-16/2P-1MU	168865	10
	27	0.54	BB-EVP-16/2P-2MU	168867	10
3-phase	17.8	0.69	BB-EVP-16/3P-1MU	168869	10
	27	0.87	BB-EVP-16/3P-2MU	168871	10
	36	0.84	BB-EVP-16/3P-3MU	168877	10
3-phase + AUX	3x17.5+1x9	0.87	BB-EVP-16/3P-1MU/AUX	168873	10
	3x17.5+2x9	0.86	BB-EVP-16/3P-1MU2AUX	168875	10
Neutral	17.8	0.33	BB-EVP-16/N-1MU	168855	10
	27	0.36	BB-EVP-16/N-2MU	168859	10
	36	0.32	BB-EVP-16/N-3MU	168863	10

Accessories

End caps BB-EV-EC

wa_sg05612



Description	Cu-factor	Type Designation	Article No.	Units per package
1-phase	-	BB-EV-EC/1P	168878	40
2+3-phase	-	BB-EV-EC/2-3P	168823	40
4-phase	-	BB-EV-EC/4P	168824	20
Neutral	-	BB-EV-EC/N	168879	20

Terminal BB-EV-TE/35

wa_sg05312



Description	Cu-factor	Type Designation	Article No.	Units per package
	0.04	BB-EV-TE/35	168825	3

Sticker phase sequence

SG08713



Description	Cu-factor	Type Designation	Article No.	Units per package
	-	BB-S-PS	169831	5

Busbar Tag Shrouds ZV-BS-G

SG05705



Description	Cu-factor	Type Designation	Article No.	Units per package
	-	ZV-BS-G	104903	10/600

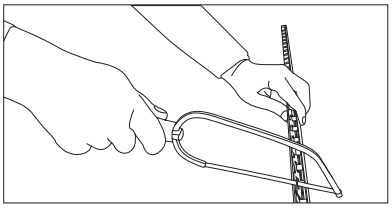
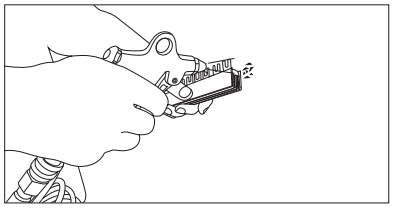
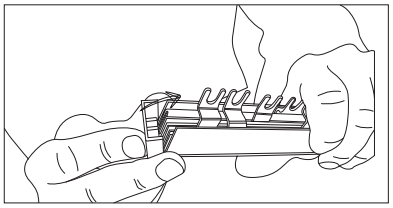
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Technical Data

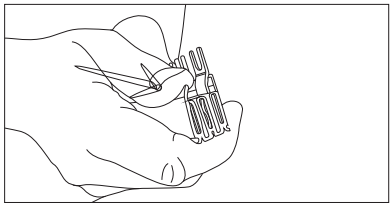
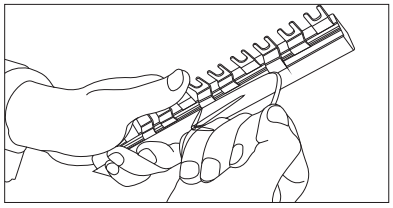
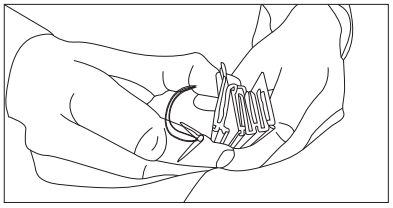
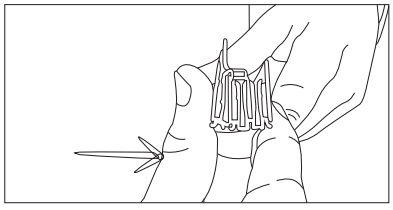
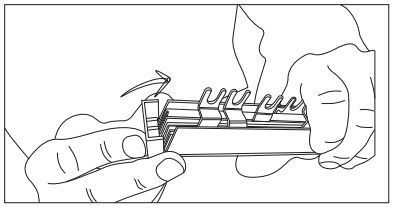
	BB-EV.
General	
Heat deflection temperature	≥80°C UL94 V0
Standards	EN 60947-1:2007 / IEC 60947-1:2007 / IEC 60999:2000
Climate stability	according to DIN EN 60068
Insulation coordination	Overvoltage category III / Degree of pollution 2
Electrical	
Impulse voltage strenght	≥4.5 kV
Min. air distance	>5.5 mm
Min. creeping distance	>5 mm
Max. operating voltage	690 V AC/DC 1,000 V DC 1-pole only
Max. current I_s/Phase	
10 mm^2	63 A
16 mm^2	80 A
Protection class	IP20
Short circuit rating I_{CC}	25kA - NH3 355A gC500V JM
Dielectric strenght	PC - ABS >32 kV / mm

Assembly instruction:

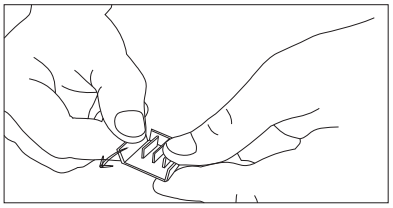
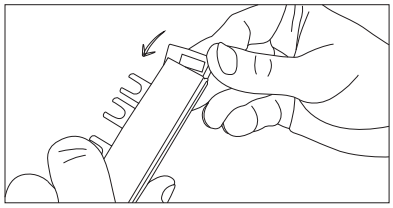
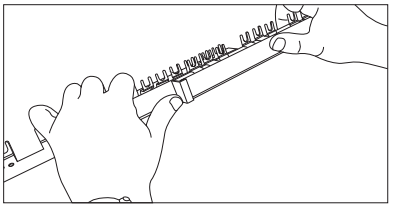
Cutting

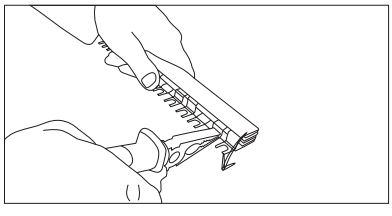
Mounting of an extension busbar

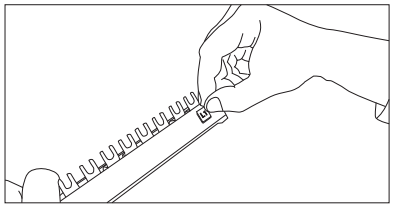
Overlapping mounting or further connection, resp.

Brecking out of connection lugs



Sticking on phase marking



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Busbar UL489 Z-BB/UL

SG13713



- For MCB FAZ-NA/RT/DU
- Sliceable
- 18 and 25 mm^2
- Pin busbar
- Accessories available:
  - End cap
  - Terminal
  - Busbar tag shrouds
- Length 1 m

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Busbar UL489 sliceable 1m 18mm², 25mm² (Pin), Z-BB/UL

for FAZ-NA/RT/DU

- Delivered without end caps

SG13713



18 mm², Rated Current 80 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase	17.6	0.39	Z-BB/UL18/1P1MU/57	171128	10
1-phase + AUX	26.4	0.378	Z-BB/UL18/1P1MU+AUX/37	171134	10
2x 1-phase + AUX	26.4	0.56	Z-BB/UL18/2X1P1MU+AUX/38	171142	10
3x 1-phase + AUX	26.4	0.945	Z-BB/UL18/3X1P1MU+AUX/39	171140	10
2-phase	17.6	0.625	Z-BB/UL18/2P1MU/56	171129	10
2-phase + AUX	17.6 + 26.4	0.625	Z-BB/UL18/2P1MU+AUX/46	171135	10
3-phase	17.6	0.95	Z-BB/UL18/3P1MU/57	171130	10
3-phase + AUX	2x 17.6 + 26.4	0.93	Z-BB/UL18/3P1MU+AUX/48	171136	10

SG14213



25 mm², Rated Current 100 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase	17.6	0.535	Z-BB/UL25/1P1MU/57	171131	10
1-phase + AUX	26.4	0.745	Z-BB/UL25/1P1MU+AUX/37	171137	10
2x 1-phase + AUX	26.4	0.78	Z-BB/UL25/2X1P1MU+AUX/38	171143	10
3x 1-phase + AUX	26.4	1.315	Z-BB/UL25/3X1P1MU+AUX/39	171141	10
2-phase	17.6	0.888	Z-BB/UL25/2P1MU/56	171132	10
2-phase + AUX	17.6 + 26.4	0.87	Z-BB/UL25/2P1MU+AUX/46	171138	10
3-phase	17.6	1.31	Z-BB/UL25/3P1MU/57	171133	10
3-phase + AUX	2x 17.6 + 26.4	1.28	Z-BB/UL25/3P1MU+AUX/48	171139	10

Accessories

End cap Z-ECUL

Description	Cu-factor	Type Designation	Article No.	Units per package
	-	Z-ECUL	171145	10

Terminal Z-TEUL35

Description	Cu-factor	Type Designation	Article No.	Units per package
	0,038	Z-TEUL35	171144	10

Busbar Tag Shrouds Z-FPUL

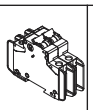
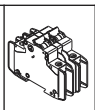
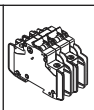
SG08613



Description	Cu-factor	Type Designation	Article No.	Units per package
	-	Z-FPUL	171146	10

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Description of the Busbar UL489, Z-BB/UL for FAZ-NA, -RT, -DU

									
Z-BB/UL18/1P1MU/57	171128	57	-	-	-	-	-	-	-
Z-BB/UL18/2P1MU/56	171129	-	56	-	-	-	-	-	-
Z-BB/UL18/3P1MU/57	171130	-	-	57	-	-	-	-	-
Z-BB/UL25/1P1MU/57	171131	57	-	-	-	-	-	-	-
Z-BB/UL25/2P1MU/56	171132	-	56	-	-	-	-	-	-
Z-BB/UL25/3P1MU/57	171133	-	-	57	-	-	-	-	-
Z-BB/UL18/1P1MU+AUX/37	171134	-	-	-	37	-	-	-	-
Z-BB/UL18/2P1MU+AUX/46	171135	-	-	-	-	-	-	46	-
Z-BB/UL18/3P1MU+AUX/48	171136	-	-	-	-	-	-	-	48
Z-BB/UL25/1P1MU+AUX/37	171137	-	-	-	37	-	-	-	-
Z-BB/UL25/2P1MU+AUX/46	171138	-	-	-	-	-	-	46	-
Z-BB/UL25/3P1MU+AUX/48	171139	-	-	-	-	-	-	-	48
Z-BB/UL18/3X1MU+AUX/39	171140	-	-	-	-	-	39	-	-
Z-BB/UL25/3X1MU+AUX/39	171141	-	-	-	-	-	39	-	-
Z-BB/UL18/2X1MU+AUX/38	171142	-	-	-	-	38	-	-	-
Z-BB/UL25/2X1MU+AUX/38	171143	-	-	-	-	38	-	-	-
Z-TEUL35	171144	-	-	-	-	-	-	-	-
Z-ECUL	171145	-	-	-	-	-	-	-	-
Z-FPUL	171146	-	-	-	-	-	-	-	-

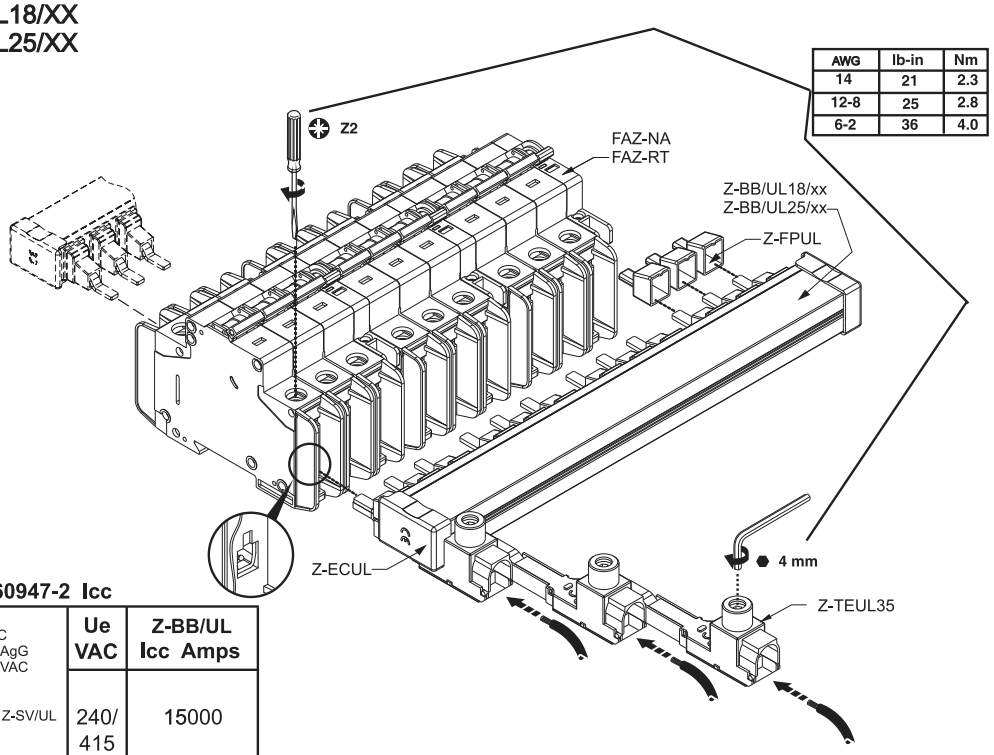
Technical Data

	Z-BB/UL
General	
Heat deflection temperature	>100°C - UL94 V0
Standards	UL489, EN 60947-1, IEC 60947-1:2004
Climate stability	according to DIN EN 60068
Insulation coordination	Overvoltage category III / Degree of pollution 2
Electrical	
Impulse voltage strenght	⩾10 kV
Min. air distance	⩾1" ext.
Min. creeping distance	⩾2" ext.
Max. operating voltage	
1-pole	1,000 V AC/DC
2-, 3-pole	600 V AC/DC
Max. current I_s/Phase	
18 mm^2	80 A
25 mm^2	100 A
Protection class	IP20
Short circuit rating I_{CC}	10 kA
Dielectric strenght	PA66-V0, >35 kV

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Mounting example of busbar UL489, Z-BB/UL for FAZ-NA, -RT, -DU

Z-BB/UL18/XX
Z-BB/UL25/XX



IEC/EN 60947-2 Icc

Ue HRC 315AgG 500VAC / Z-SV/UL	Ue VAC	Z-BB/UL Icc Amps
	240/ 415	15000

UL SCCR

Ue Z-SV/UL / FAZ-NA FAZ-RT	FAZ-NA FAZ-RT In Amps	Ue VAC	Z-BB/UL SCCR RMS Sym Amps
	0.5-32	480Y/ 277	10000
	35-40	240	10000

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Busbar UL508 BB/UL

- For MCB FAZ
- Sliceable
- 18 and 25 mm^2
- Pin busbar
- Accessories available:
  - End caps
  - Terminals
  - Busbar tag shrouds
- Length 1 m

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	Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package

Busbar UL508 sliceable 1m 18mm², 25mm² (Pin), BB/UL

for FAZ

- Delivered without end caps

18 mm², Rated Current 80 A

1-phase	17.8	0.33	BB-UL-18/1P-1M/57	121981	10
2-phase	17.8	0.508	BB-UL-18/2P-2M/56	121982	10
3-phase	17.8	0.8	BB-UL-18/3P-3M/57	121983	10
1-phase + AUX	27	0.33	BB-UL-18/1P-1,5M/37	121984	10
2-phase + AUX	17.8 + 26.7	0.52	BB-UL-18/2P+AS-2,5M/46	121987	10
3-phase + AUX	2x 17.8 + 26.7	0.8	BB-UL-18/3P+AS-3,5M/48	121988	10

25 mm², Rated Current 100 A

1-phase	17.8	0.45	BB-UL-25/1P-1M/57	121989	10
2-phase	17.8	0.68	BB-UL-25/2P-2M/56	121990	10
3-phase	17.8	1.07	BB-UL-25/3P-3M/57	121991	10
1-phase + AUX	27	0.45	BB-UL-25/1P-1,5M/37	121992	10
2-phase + AUX	17.8 + 26.7	0.69	BB-UL-25/2P+AS-2,5M/46	121995	10
3-phase + AUX	2x 17.8 + 26.7	1.03	BB-UL-25/3P+AS-3,5M/48	121996	10

	Description	Cu-factor	Type Designation	Article No.	Units per package

Accessories

End caps BB-UL-EC

1-phasig	-	BB-UL-EC/1	122000	10
3-phasig	-	BB-UL-EC/3	122001	10

Terminals BB-UL-TE

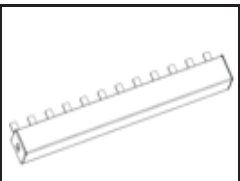
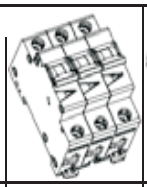
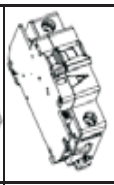
6 - 35mm² (single and multi wire)	0,035	BB-UL-TEP/35	121997	10
6 - 50mm²	0,038	BB-UL-TEPA/35	169823	10
6 - 50mm² (single and multi wire)	0,038	BB-UL-TE/50	121998	10

Busbar Tag Shrouds BB-IP/5

for 5 pins	-	BB-IP/5	121999	10

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Description of the Busbar UL508, BB/UL for FAZ

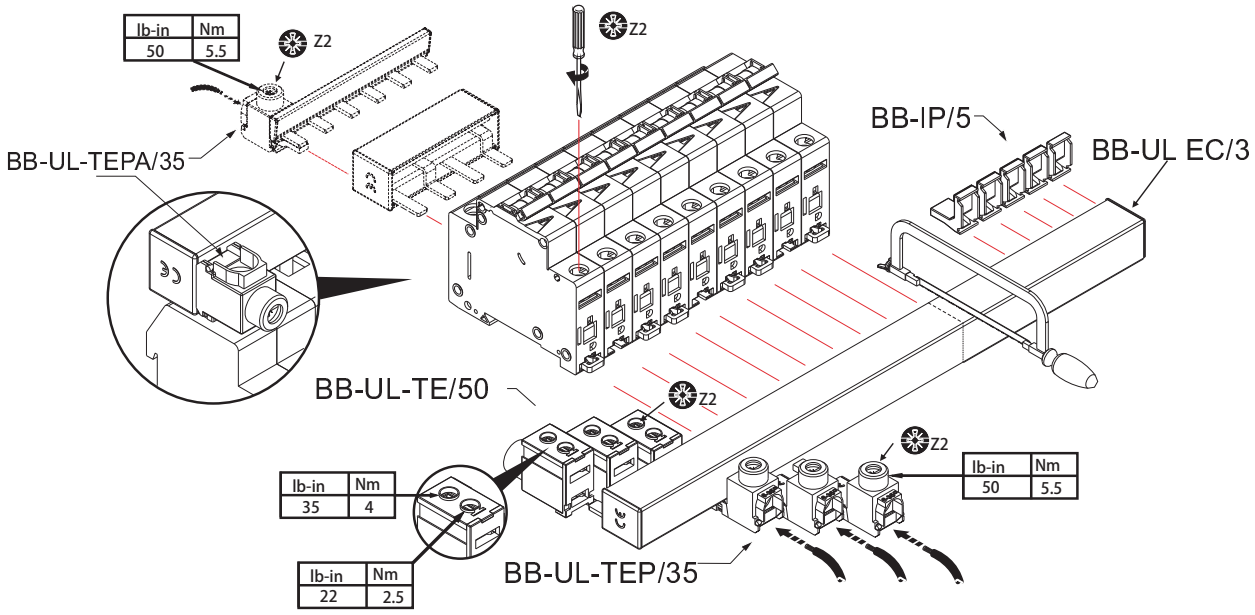
Article No.							
121981	BB-UL-18/1P-1M/57	57	-	-	-	-	-
121982	BB-UL-18/2P-2M/56	-	28	-	-	-	-
121983	BB-UL-18/3P-3M/57	-	-	19	-	-	-
121984	BB-UL-18/1P-1,5M/37	-	-	-	37	-	-
121987	BB-UL-18/2P+AS-2,5M/46	-	-	-	-	23	-
121988	BB-UL-18/3P+AS-3,5M/48	-	-	-	-	-	16
121989	BB-UL-25/1P-1M/57	57	-	-	-	-	-
121990	BB-UL-25/2P-2M/56	-	28	-	-	-	-
121991	BB-UL-25/3P-3M/57	-	-	19	-	-	-
121992	BB-UL-25/1P-1,5M/37	-	-	-	37	-	-
121995	BB-UL-25/2P+AS-2,5M/46	-	-	-	-	23	-
121996	BB-UL-25/3P+AS-3,5M/48	-	-	-	-	-	16
121997	BB-UL-TEP/35	-	-	-	-	-	-
169823	BB-UL-TEPA/35	-	-	-	-	-	-
121998	BB-UL-TE/50	-	-	-	-	-	-
121999	BB-IP/5	-	-	-	-	-	-
122000	BB-UL-EC/1	-	-	-	-	-	-
122001	BB-UL-EC/3	-	-	-	-	-	-

Technical Data

	Z-BB/UL
General	
Heat deflection temperature	125°C - UL94 V0
Standards	DIN EN 60947-2, VDE 0660 - 101 = IEC 60947-2, IEC 60999:2000, UL508, UL486A, CSA C22.2
Climate stability	according to DIN EN 60068
Insulation coordination	Overvoltage category III / Degree of pollution 2
Electrical	
Impulse voltage strenght	≥9.5 kV
Min. air distance	>9.5 mm
Min. creeping distance	>12.7 mm
Max. operating voltage	
1-pole	1,000 V AC/DC
2-, 3-pole	IEC/EN 690 V AC/DC 600 V AC/DC UL Fuse 480 V AC/DC UL-SP
Terminals	1, 000 V AC/DC
Max. current I_s/Phase	
18 mm^2	80 A (feed in the center: 160 A)
25 mm^2	100 A (feed in the center: 200 A)
Protection class	IP20
Short circuit rating	10kA 3 cycles@480V / 100 kA Fuse Class J 175A@18mm^2 - 200A@25mm^2
Dielectric strenght	>32 kV/mm

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Mounting example of busbar UL508, BB/UL for FAZ



BB-UL-TE/50		
	UL508	EN/IEC 60947-2
U_e	480 V AC	240/690V AC
f	50/60 Hz	50/60 Hz
I_e	115 A @ 40° C	160 A @ 30° C
	#1-14 AWG 60/75° C Cu	1.5 – 50 mm² Cu
	0.56 in	14 mm

BB-UL		
	UL508	EN/IEC 60947-2
U_e	480 V AC	690V AC
f	50/60 Hz	
I_{pk}	10kA	15kA
I_e	18mm☒	25mm☒
Infeed at the start of the busbar	80A@40° C	100A@30° C
Infeed at the center of the busbar	160A@40° C	200A@30° C

BB-UL-TEP/35 / BB-UL-TEPA/35		
	UL508	EN/IEC 60947-2
U_e	480 V AC	240/690V AC
f	50/60 Hz	50/60 Hz
I_e	115 A@40° C	80 A@30° C
	#2-14 AWG 60/75° C Cu	2.5 – 35 mm² Cu
	0.56 in	14 mm

*-UL508 SHORT CIRCUIT RATINGS

-SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10,000 RMS SYMETRICAL AMPERES, 600 VOLTS MAXIMUM.

-SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 100,000 RMS SYMETRICAL AMPERES, 600 VOLTS MAXIMUM WHEN PROTECTED BY A CLASS J FUSE RATED 175A.

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Busbar UL489 Z-SV/UL16

wa_sg03511



- For MCB FAZ-NA/RT/DU
- 16 mm^2
- Pin busbar
- Accessories available:
  - Terminals
  - Busbar tag shrouds
- Several length

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Busbar UL489 16mm² (Pin), Z-SV/UL16

for FAZ-NA/RT/DU, not sliceable!!

- Delivered with end caps

wa_sg03511



16 mm², Rated Current 80 A

Description	Step Distance (mm)	Cu-factor	Type Designation	Article No.	Units per package
1-phase, 6MU	17.6	0.035	Z-SV/UL-16/1P-1MU/6	104892	10
1-phase, 12MU	17.6	0.07	Z-SV/UL-16/1P-1MU/12	104893	10
1-phase, 18MU	17.6	0.105	Z-SV/UL-16/1P-1MU/18	104894	10
2-phase, 6MU	17.6	0.07	Z-SV/UL-16/2P-2MU/6	104895	10
2-phase, 12MU	17.6	0.14	Z-SV/UL-16/2P-2MU/12	104896	10
2-phase, 18MU	17.6	0.21	Z-SV/UL-16/2P-2MU/18	104897	10
3-phase, 6MU	17.6	0.14	Z-SV/UL-16/3P-3MU/6	104898	10
3-phase, 12MU	17.6	0.221	Z-SV/UL-16/3P-3MU/12	104899	10
3-phase, 18MU	17.6	0.332	Z-SV/UL-16/3P-3MU/18	104900	10

Accessories

Terminals Z-TEUL35

SG07506



Description	Cu-factor	Type Designation	Article No.	Units per package
2.5 - 35mm²	0.035	Z-EK/35/UL	104901	3
1.5 - 50mm²	0.038	Z-EB/50/UL	104902	3

Busbar Tag Shrouds Z-FPUL

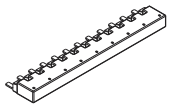
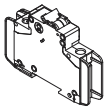
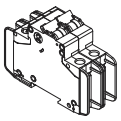
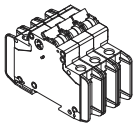
SG07706



Description	Cu-factor	Type Designation	Article No.	Units per package
for 3 pins	-	ZV-BS-UL	104904	10

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Description of the Busbar UL489, Z-SV/UL-16 for FAZ-NA/RT/DU

Article No.				
104892	Z-SV/UL-16/1P-1TE/6	6	-	-
104893	Z-SV/UL-16/1P-1TE/12	12	-	-
104894	Z-SV/UL-16/1P-1TE/18	18	-	-
104895	Z-SV/UL-16/2P-2TE/6	-	3	-
104896	Z-SV/UL-16/2P-2TE/12	-	6	-
104897	Z-SV/UL-16/2P-2TE/18	-	9	-
104898	Z-SV/UL-16/3P-3TE/6	-	-	2
104899	Z-SV/UL-16/3P-3TE/12	-	-	4
104900	Z-SV/UL-16/3P-3TE/18	-	-	6
104901	Z-EK/35/UL	-	-	-
104902	Z-EB/50/UL	-	-	-
104904	ZV-BS-UL	-	-	-

Technical Data

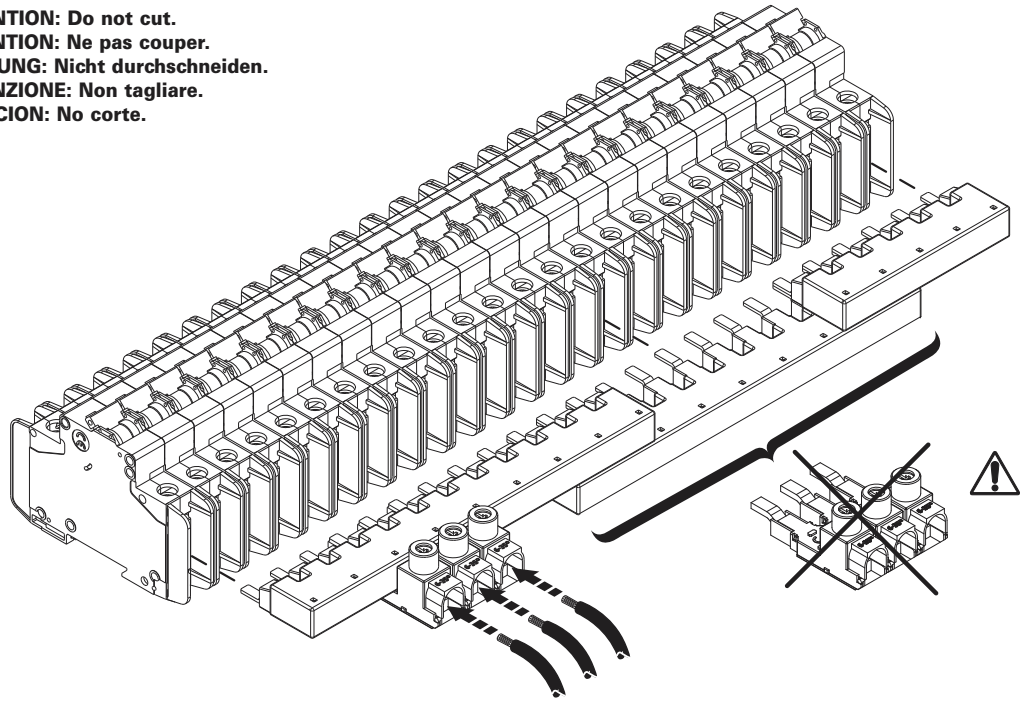
	Z-SV/UL16
General	
Heat deflection temperature	125°C - UL94 V0
Standards	
Busbar	UL489, DIN EN 60947-1, VDE 0660 part 100 = IEC 60947-1:2004, IEC 60947-2:2003
Terminal	IEC 60999:2000, UL489, UL486A, CSA C22.2
Climate stability	according to DIN EN 60068
Insulation coordination	Overvoltage category III / Degree of pollution 2
Electrical	
Impulse voltage strenght	⩾9.5 kV (1kV / mmLS)
Min. air distance	>9.5mm/25.4mm (intern/external)
Min. creeping distance	>12.7mm/50.8mm (intern/external)
Max. operating voltage	
1-, 3-phase	690 V IEC 480Y/277V & 240V AC
Terminals	1,000 V AC/DC
Max. current I_s/Phase	80 A
Protection class	IP20
Short circuit rating	15kA with NH3 355 A gL 500V JM / 7.5kA 3 cycles @ 600V
Dielectric strenght	>30 kV/mm

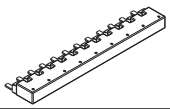
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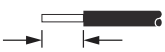
Mounting example of busbar UL489, Z-SV/UL-16 for FAZ-NA, -RT, -DU

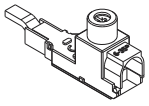
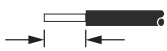
ATTENTION: Maximum of 3 commoning links allowed. Any combination of same pole configuration.
ATTENTION: 3 liaisons communes autorisées au maximum. Toute combinaison de configurations de polarité identiques.
ACHTUNG: Maximal 3 Schienenblöcke. Beliebige Kombination gleichpoliger Konfigurationen.
ATTENZIONE: Sono consentiti al massimo 3 pettini di collegamento in qualsiasi combinazione della stessa configurazione di poli.
ATENCION: Se permite un máximo de 3 enlaces comunes. Cualquier combinación del mismo tipo de configuración de polo

ATTENTION: Do not cut.
ATTENTION: Ne pas couper.
ACHTUNG: Nicht durchschneiden.
ATTENZIONE: Non tagliare.
ATENCION: No corte.



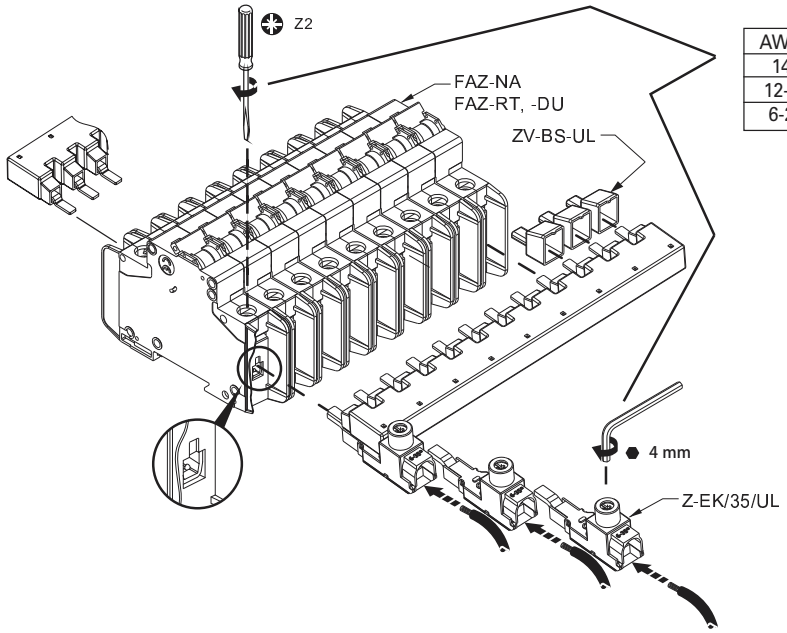
	UL489		EN/IEC 00947-2
U_e	480 V AC	96 V DC	240/415 V AC
f	50/60 Hz	----------	50/60 Hz
U_{imp}	----------		9.5 kV
I_e	80 A @ 40°C		80 A @ 30°C
Cross section	----------		16 mm²

	UL489		EN/IEC 00947-2
U_e	480 V AC	96 V DC	240/415 V AC
f	50/60 Hz	----------	50/60 Hz
U_{imp}	----------		9.5 kV
	#1-14 AWG 60/75°C Cu		1.5-50 mm² Cu
	0.56 in		14 mm

	UL489		EN/IEC 00947-2
U_e	480 V AC	96 V DC	240/415 V AC
f	50/60 Hz	----------	50/60 Hz
U_{imp}	----------		9.5 kV
I_e	80 A @ 40°C		80 A @ 30°C
	#2-14 AWG 60/75°C Cu		2.5-35 mm² Cu
	0.56 in		14 mm

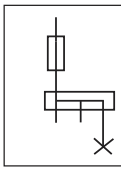
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Mounting example of busbar UL489, Z-SV/UL-16 for FAZ-NA, -RT, -DU



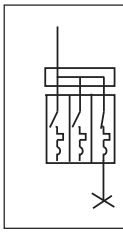
AWG	lb-in	Nm
14	21	2.3
12-8	25	2.8
6-2	36	4.0

IEC/EN 60947-2 Icc



Ue VAC	Z-SV/UL Icc Amps
240/ 415	15000

UL SCCR

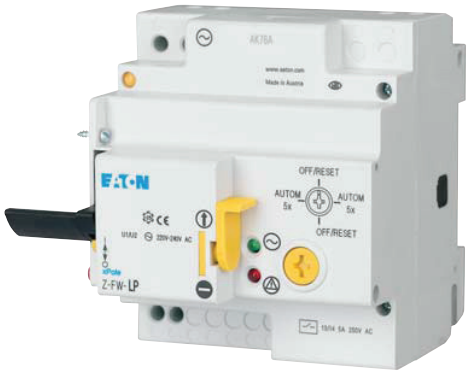


FAZ-NA FAZ-RT/-DU In Amps	Ue VAC	Z-SV/UL SCCR RMS Sym Amps
0.5-32	480Y/ 277	10000
35-40	240	10000

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Accessories for RCDs, MCBs, Combined RCD/MCB Devices

SG30811



- Auxiliary Switch
- RCD-Tripping Module
- Shunt Trip Release
- Undervoltage Release
- Remote Control and Automatic Switching Device
- Switching Interlocks
- Terminal Covers

SG60811



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Auxiliary Switch Z-HK, Z-AHK, Z-HD; Tripping Signal Switch Z-NHK

Design: for screwing

	For Protective Device / Function	Type Designation	Article No.	Units per package
SG34812 	RCCB / 1NO+1NC	Z-HK	248432	4/120
SG60911 	MCB, RCBO, RCCB / 1NO+1NC	Z-AHK	248433	4/120
SG61011 	MCB, RCBO, RCCB / 2CO	Z-NHK	248434	4/120
SG34412 	RCCB / 1CO+1NC	Z-HD	265620	1

Specifications | Auxiliary Switch Z-HK, Z-AHK; Tripping Signal Switch Z-NHK

Description

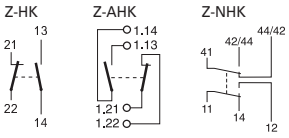
- Design according to IEC/EN 60947-5-1, IEC/EN 62019
- Can be mounted subsequently (screws) onto FRCmM, FRCdM
- The specified minimum voltages are per contact. Take into account particularly in case of series connection!
- **Z-AHK, Z-NHK:** Contact function with relative movement (self-cleaning contacts)
- Contact material and design particularly suitable for extra low voltage
- **Z-NHK:** The function of one of the two change-over contacts can be switched from “auxiliary switch” to “tripping signal switch”
- Tripping signal contact transmits message of electric tripping, not mechanical switch-off
- Test key for contact function “electrical tripping”

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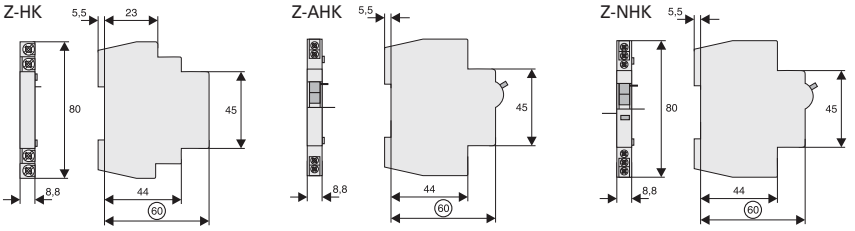
Technical Data

		Z-HK	Z-AHK	Z-NHK
Electrical				
Contact function		1NO + 1NC	1NO + 1NC	2CO
Rated voltage		250 V	250 V	250 V
Frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated current		8 A	4 A	4 A
Rated thermal current	I_{th}	8 A	4 A	4 A
Utilisation category AC13				
Rated operational current	I_e	6A/250V AC	3A/250V AC	3A/250V AC
		2A/440V AC	–	–
Utilisation category AC15				
Rated operational current	I_e	–	2A/250V AC	2A/250V AC
Utilisation category DC12				
Rated operational current	I_e	–	0.5A/110V DC	0.5A/110V DC
Utilisation category DC13				
Rated operational current	I_e	0.5A/230V DC	–	–
		2A/110V DC	–	–
		4A/60V DC	–	–
Rated insulation voltage	U_i	250 V AC	250 V AC	250 V AC
Minimum operational voltage per contact	U_{min}	24 V AC/DC	5 V DC	5 V DC
Minimum operational current	I_{min}	50 mA AC/DC	10 mA DC	10 mA DC
Rated peak withstand voltage	U_{imp} (1.2/50µ)	2.5 kV	2.5 kV	2.5 kV
Conditional short circuit current	I_k			
with back-up fuse 6A or FAZ-B4-HS		1 kA	1 kA	1 kA
Max. back-up fuse, overload and short circuit		6 A gL / FAZ-4/../B-HS	4 A gL / FAZ-4/../B-HS	4 A gL / FAZ-4/../B-HS
Mechanical				
Can be mounted from the left onto		RCCB	MCB, RCBO	MCB, RCBO
Can be mounted from the right onto		–	–	RCCB
Tripping indicator “electrical tripping”		–	–	blue/white
Frame size		45 mm	45 mm	45 mm
Device height		80 mm	80 mm	80 mm
Device width		8.8 mm (0.5MU)	8.8 mm (0.5MU)	8.8 mm (0.5MU)
Mounting		onto switching device	onto switching device	onto switching device
Degree of protection, built-in		IP40	IP40	IP40
Terminal protection		finger and hand touch safe according to BGV A3, ÖVE-EN 6		
Terminals		lift terminals	lift terminals	lift terminals
Terminal capacity		0.5-2.5 mm^2	0.5-2.5 mm^2	0.5-2.5 mm^2
Terminal screws		M3 (Pozidrive Z0)	M3 (Pozidrive Z0)	M3 (Pozidrive Z0)
Fastening torque of terminal screws		max. 0.8-1.0 Nm	max.0.8-1.0 Nm	max. 0.8-1.0 Nm

Connection diagram

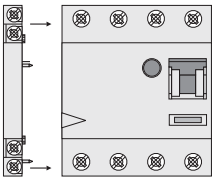


Dimensions (mm)



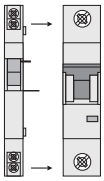
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Example: Z-HK+RCCB



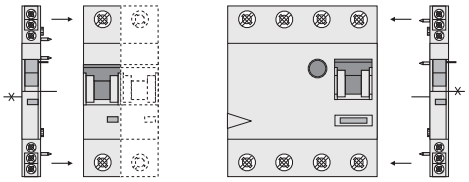
1NO+1NC 24V 50mA min.

Example: Z-AHK+MCB



1NO+1NC 5V 10mA min.

Example: Z-NHK+MCB RCCB+Z-NHK

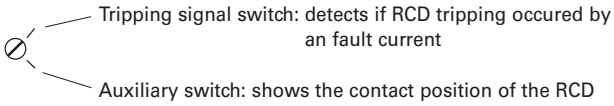


2CO 5V 10mA min.

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Specifications | Auxiliary Switch Z-HD

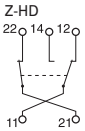
Function Auxiliary Switch Z-HD



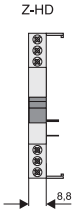
Technical Data

	Z-HD
Electrical	
Subsequent installation to the left onto	FRCmM-125A
Contacts	1CO + 1NC
Load rating	
AC11	6 A / 230 V AC
DC11	1 A / 230 V DC
Mechanical	
Terminal capacity	up to 2.5 mm^2

Connection diagram



Dimensions (mm)



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Auxiliary Switch ZP-AHK, ZP-IHK, ZP-WHK; Tripping Signal Switch ZP-NHK

Design: for snapping

	For Protective Device / Function	Type Designation	Article No.	Units per package
SG60811 	MCB, RCBO / 1NO+1NC	ZP-IHK	286052	4/120
SG34612 	MCB, RCBO / 1CO	ZP-WHK	286053	4/120
SG34512 	MCB, RCBO / 2CO	ZP-NHK	248437	4/120

Specifications | Auxiliary Switch ZP-IHK, ZP-WHK; Tripping Signal Switch ZP-NHK

Description

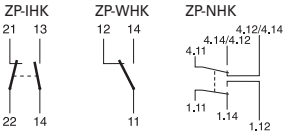
- Design according to IEC/EN 62019
- No screws required. Can be snapped onto FAZ and FRBmM-1N subsequently
- **ZP-IHK, ZP-WHK:** Can be snapped on additionally 1 time onto itself
- The specified minimum voltages are per contact. Take into account particularly in case of series connection!
- Contact material and design particularly suitable for extra low voltage.
- Contact function with relative movement (self-cleaning contacts)e)
- **ZP-NHK:** The function of one of the two change-over contacts can be switched from “auxiliary switch” to "tripping signal switch"
- Tripping signal contact transmits message of electric tripping, not mechanical switch-off
- **ZP-NHK:** The “Service button” is used to check whether or not the auxiliary switch is correctly wired in the tripping-signal-switch position. Activating the “service button” will mechanically simulate an electrical switch-off, so the mechanism for the electrical switchoff will disengage and can be checked. The main switchgear (MCB or combined MCB/RCD) connected to the ZP-NHK auxiliary switch does not need to trip as well during an inspection through the service button.

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Technical Data

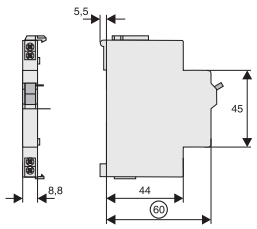
		ZP-IHK	ZP-WHK	ZP-NHK
Electrical				
Contact function		1NO + 1NC	1CO	2CO
Rated voltage		250 V	250 V	250 V
Frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated current		6 A	6 A	4 A
Rated thermal current	I_{th}	6 A	6 A	4 A
Utilisation category AC13				
Rated operational current	I_e	3A/250V AC	3A/250V AC	3A/250V AC
Utilisation category AC15				
Rated operational current	I_e	2A/250V AC	2A/250V AC	2A/250V AC
Utilisation category DC12				
Rated operational current	I_e	0.5A/110V DC	0.5A/110V DC	0.5A/110V DC
Rated insulation voltage	U_i	250 V AC	250 V AC	250 V AC
Minimum operational voltage per contact	U_{min}	5 V DC	5 V DC	5 V DC
Minimum operational current	I_{min}	10 mA DC	10 mA DC	10 mA DC
Rated peak withstand voltage	U_{imp} (1.2/50µ)	2.5 kV	2.5 kV	2.5 kV
Conditional short circuit current	I_k			
with back-up fuse 6A or PLSM-B4-HS		1 kA	1 kA	1 kA
Max. back-up fuse, overload and short circuit		6 A gL / FAZ-B4-HS	6 A gL / FAZ-B4-HS	6 A gL / FAZ-B4-HS
Mechanical				
Can be mounted from the left onto		MCB, RCBO	MCB, RCBO	MCB, RCBO
Accessories:		ZP-ASA	ZP-ASA	ZP-ASA
Tripping indicator “electrical tripping”		–	–	blue/white
Frame size		45 mm	45 mm	45 mm
Device height		80 mm	80 mm	80 mm
Device width		8.8 mm (0.5MU)	8.8 mm (0.5MU)	8.8 mm (0.5MU)
Degree of protection, built-in		IP40	IP40	IP40
Terminal protection		finger and hand touch safe according to BGV A3, ÖVE-EN 6		
Terminals		lift terminals	lift terminals	lift terminals
Terminal capacity		0.5-2.5 mm^2	0.5-2.5 mm^2	0.5-2.5 mm^2
Terminal screws		M4 (Pozidrive Z2)	M4 (Pozidrive Z2)	M3 (Pozidrive Z0)
Fastening torque of terminal screws		max. 1.2 Nm	max. 1.2 Nm	max. 0.8-1.0 Nm

Connection diagram

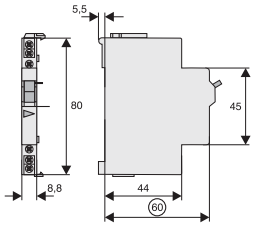


Dimensions (mm)

ZP-IHK, ZP-WHK

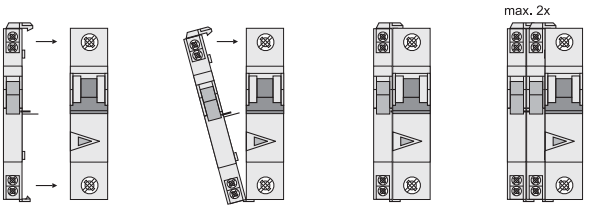


ZP-NHK

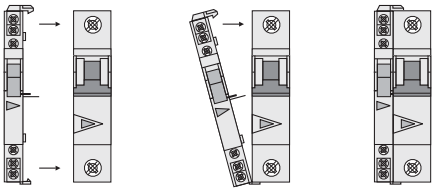


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Example: ZP-IHK/(ZP-WHK)+MCB



Example: ZP-NHK+MCB



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RCCB-Tripping Module Z-.AM

	For Protective Device	Type Designation	Article No.	Units per package
SG16011 	RCCB	Z-FAM	248293	1/60
SG16211 	RCBO	Z-KAM	248294	1/60

Specifications | RCCB Tripping Module Z-FAM, Z-KAM

Description

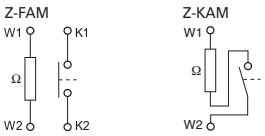
- For remote switch-off of RCCBs, standard and electronic combined RCD/MCB devices
- Remote switch-off by one or several parallel potential-free contacts, e.g. pushbutton max. rated current 3 A at 250 V, take into account maximum pushbutton voltage
- Remote tripping test by means of remote testing module Z-FW
- Can be mounted subsequently, to be wired according to connection diagram with the respective terminals of the RCCB
- No undesired voltage rise in the consumer system during remote switch-off thanks to integrated breaker contact K1-K2

Technical Data

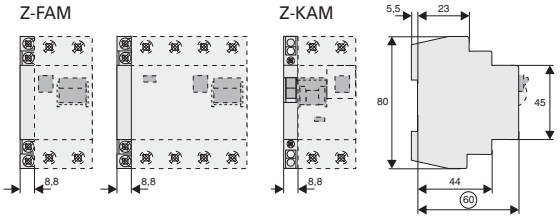
		Z-FAM	Z-KAM
Electrical			
Rated voltage		230(400) V AC	230(400) V AC
Frequency		50-60 Hz	50-60 Hz
Rated tripping current	$I_{\Delta n}$	0.01 - 0.3 A	0.01 - 0.3 A
Function		1NO	1NO
Mechanical			
Tripping module for		RCCB	RCBO
Frame size		45 mm	45 mm
Device height		80 mm	80 mm
Device width		8.8 mm (0.5MU)	8.8 mm (0.5MU)
Degree of protection, built-in		IP40	IP40
Terminal capacity		1 - 2x2.5 mm^2	1 - 2x2.5 mm^2
Terminal protection		finger and hand touch safe, according to BGV A3, ÖVE-EN 6	

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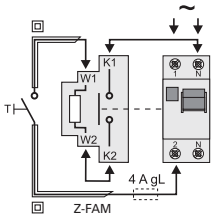
Connection diagram



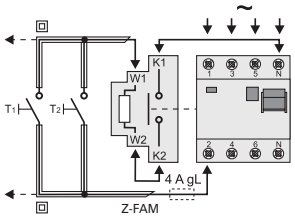
Dimensions (mm)



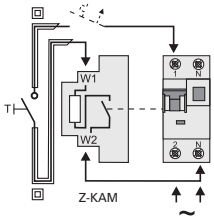
Connection examples Lay lines to the switching devices with double insulation **and** overload protection, e.g. 4A gL or CLS6-4..-HS



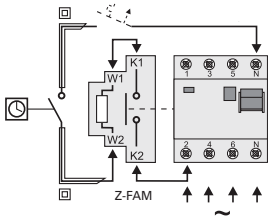
Connection diagram:
RCCB-2p, RCCB feed above



Connection diagram:
RCCB-4p, RCCB feed above



Connection diagram:
RCBO-2p, RCBO feed below



Connection diagram:
RCCB-4p, RCCB feed below

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Shunt Trip Release Z-ASA, ZP-ASA

SG00712



Operational voltage range (V~)	Type Designation	Article No.	Units per package
To be glued on			
12-110	Z-ASA/24	248286	1/60
110-415	Z-ASA/230	248287	1/60

SG00212



To be snapped on			
12-110	ZP-ASA/24	248438	1/60
110-415	ZP-ASA/230	248439	1/60

Specifications | Shunt Trip Release Z-ASA, ZP-ASA

Description

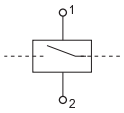
- Remote release for subsequent mounting onto FAZ, FRBmM-1N, Z-MS
- Module width 1MU
- Additional installation of standard auxiliary switch is possible
- Position indicator red - green
- Type ZP-ASA for snap-on mounting

Technical Data

	Z-ASA24	Z-ASA230	ZP-ASA24	ZP-ASA230
Electrical				
Minimum pulse duration	15 ms	10 ms	15 ms	10 ms
Internal resistance	2.2 Ω	215 Ω	2.2 Ω	215 Ω
Duty cycle	100%	100%	100%	100%
Tripping time	< 20 ms	< 20 ms	< 20 ms	< 20 ms
Rated peak withstand voltage (1.2/50µs)	2.5 kV	2.5 kV	2.5 kV	2.5 kV
Endurance	> 4000 operating cycles	> 4000 operating cycles	> 4000 operating cycles	> 4000 operating cycles
AC voltage range				
Operating limit	10 V	60 V	10 V	60 V
Operational voltage range	12-110 V	110-415 V	12-110 V	110-415 V
Maximum current consumption during switch-on	15 A		2.1 A	15 A 2.1 A
Current flow time at max. current consumption	10 ms		10 ms	10 ms 10 ms
DC voltage range				
Operating limit	9 V	72 V	9 V	72 V
Operational voltage range	10-60 V	110-220 V	10-60 V	110-220 V
Maximum current consumption during switch-on	21 A		1 A	21 A 1 A
Current flow time at max. current consumption	2 ms		2 ms	2 ms 2 ms
Mechanical				
Frame size	45 mm	45 mm	45 mm	45 mm
Device height	80 mm	80 mm	80 mm	80 mm
Device width	17.5 mm (1MU)	17.5 mm (1MU)	17.5 mm (1MU)	17.5 mm (1MU)
Mounting	bonding	bonding	to snap on	to snap on
Degree of protection, built-in	IP40	IP40	IP40	IP40
Terminals above/below	open mouthed/lift	open mouthed/lift	open mouthed/lift with guide	open mouthed/lift with guide
Klemmquerschnitt	1-25 mm^2	1-25 mm^2	1-25 mm^2	1-25 mm^2
Fastening torque of terminal screws	max. 2.4 Nm	max. 2.4 Nm	max. 2.4 Nm	max. 2.4 Nm

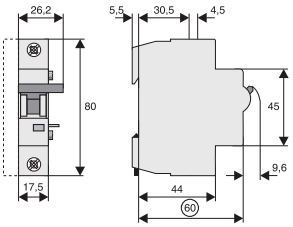
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Connection diagram

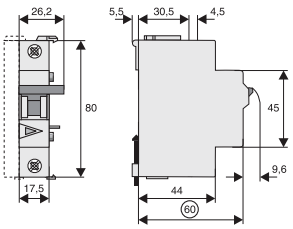


Dimensions (mm)

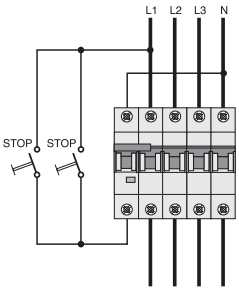
Z-ASA



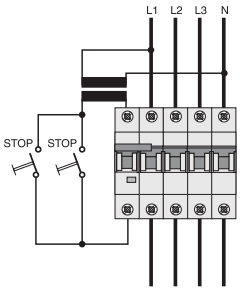
ZP-ASA



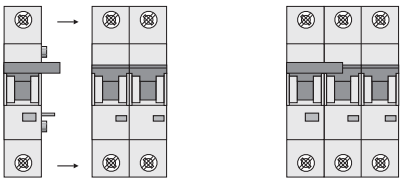
Connection Example 230 V



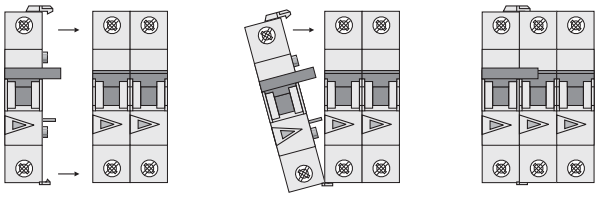
Connection Example 24 V



Example: Z-ASA + MCB



Example: ZP-ASA + MCB



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Undervoltage Release Z-USA, Z-USD

SG78811



Operational voltage range (V~) / Function	Type Designation	Article No.	Units per package
To be screwed on			
115 / undelayed	Z-USA/115	248288	1/60
230 / undelayed	Z-USA/230	248289	1/60
400 / undelayed	Z-USA/400	248290	1/60
115 / delayed 0.4s	Z-USD/115	248292	1/60
230 / delayed 0.4s	Z-USD/230	248291	1/60

Specifications | Undervoltage Release Z-USA, Z-USD

Description

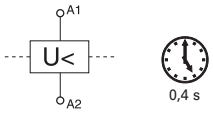
- Tripping:
  Instantaneous Z-USA
  Delayed Z-USD, typ. 0,4 s
- Voltage control indicator blue/white
- Service key for zero voltage switch-on for testing purposes
- Can be used with FAZ

Technical Data

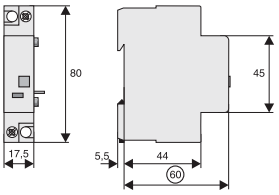
		Z-US./115	Z-US./230	Z-US./400
Electrical				
Rated voltage	U_n	115 V AC	230 V AC	400 V AC
Frequency		50-60 Hz	50-60 Hz	50-60 Hz
Making threshold		80% of U_n	80% of U_n	80% of U_n
Tripping threshold		50% of U_n	50% of U_n	50% of U_n
Mechanical				
Frame size		45 mm	45 mm	45 mm
Device height		80 mm	80 mm	80 mm
Device width		17.5 mm (1MU)	17.5 mm (1MU)	17.5 mm (1MU)
Mounting		quick fastening on DIN rail IEC/EN 60715		
Degree of protection, built-in		IP40	IP40	IP40
Terminals		open mouthed/lift	open mouthed/lift	open mouthed/lift
Terminal capacity		1 - 2x2.5 mm^2	1 - 2x2.5 mm^2	1 - 2x2.5 mm^2
Terminal protection		finger and hand touch safe, according to BGV A3, ÖVE-EN 6		

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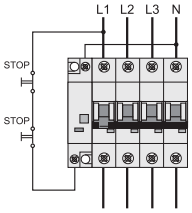
Connection diagram



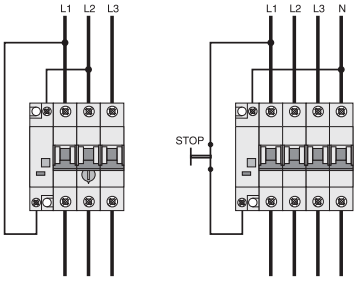
Dimensions (mm)



Connection Example Release



Connection Examplees 400V and 230V



Connection example Z-USA/400 + Z-MS

Connection example Z-USA/230 + MCB

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Switching interlocks IS/SPE-1TE, Z-IS/SPE-1TE

SG47812



Description	Type Designation	Article No.	Units per package
Switching interlock without lock for Isolators, RCDs, combined RCD/MCBs, ...	IS/SPE-1TE	101911	5/30
Switching interlock without lock for MCBs and Circuit Breaker ZP-A	Z-IS/SPE-1TE	274418	5/30

Specifications | Switching interlocks IS/SPE-1TE, Z-IS/SPE-1TE

Description

• Without lock

Type IS/SPE-1TE:

• for Isolators, RCDs, combined RCD/MCBs, ...

Type Z-IS/SPE-1TE:

• for MCB



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Accessories for Add-on Residual Current Protection Unit FBHmV

Shunt Trip Release Kit Z-BHASA

SG09411



Operational voltage range V~	Type Designation	Article No.	Units per package
110-415	Z-BHASA/230	248445	8
12-60	Z-BHASA/24	248444	8

Specifications | Shunt Trip Release Kit Z-BHASA

Description

- Can be mounted subsequently
- Contact position indicator red - green
- Wide operational voltage range
- Sufficient power of extra low voltage source must be ensured
  FBHmV-ASA/24: min. 90 VA
- Screws for mounting included FBHmV => BHASA => AZ

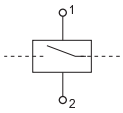
Accessories for Add-on Residual Current Protection Unit FBHmV

Technical Data

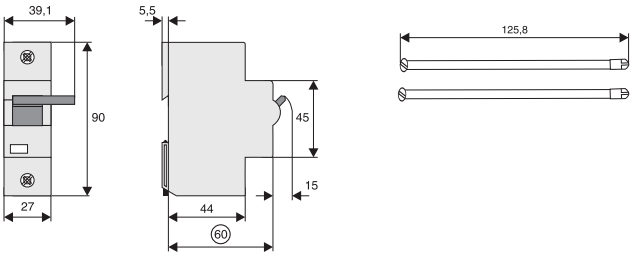
	Z-BHASA/24	Z-BHASA/230
Electrical		
Minimum pulse duration	15 ms	10 ms
Internal resistance	2 W	130 W
Duty	100%	100%
Tripping time	< 20 ms	< 20 ms
Peak withstand voltage (1.2/50µs)	2 kV	2 kV
Endurance	>4,000 operating cycles	>4,000 operating cycles
AC voltage range:		
Responding limit	8 V	70 V
Operational voltage range	12-60 V	110-415 V
Maximum current consumption during switch-on	14 A	3.4 A
Current flow time at max. current consumption	4.0 ms	4.5 ms
DC voltage range:		
Responding limit	11 V	90 V
Operational voltage range	12-60 V	110-230 V
Maximum current consumption during switch-on	23.5 A typ.	1.7 A typ.
Current flow time at max. current consumption	2 ms	4 ms
Mechanical		
Frame size	45 mm	45 mm
Device height	90 mm	90 mm
Device width	27 mm	27 mm
Mounting	quick fastening on DIN rail IEC/EN 60715	
Degree of protection, built-in	IP40	IP40
Upper and lower terminal screws	lift terminals	lift terminals
Terminal capacity	2.5-30 mm^2	2.5-30 mm^2
Fastening torque of terminal screws	4 Nm	4 Nm

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Connection diagram



Dimensions (mm)



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Accessories for Miniature Circuit Breakers AZ

Shunt Trip Release Z-LHASA

SG09311



Operational voltage range V~	Type Designation	Article No.	Units per package
110-415	Z-LHASA/230	248442	8
12-60	Z-LHASA/24	248441	8

Specifications | Shunt Trip Release Z-LHASA

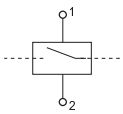
Description

- Can be mounted subsequently
- Contact position indicator red - green
- Wide operational voltage range
- Sufficient power of extra low voltage source must be ensured
  Z-LHASA/24: min. 90 VA

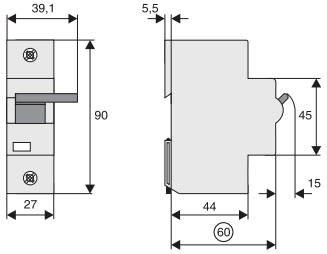
Technical Data

	Z-LHASA/24	Z-LHASA/230
Electrical		
Minimum pulse duration	15 ms	10 ms
Internal resistance	2 W	130 W
Duty	100%	100%
Tripping time	< 20 ms	< 20 ms
Peak withstand voltage (1.2/50µs)	2 kV	2 kV
Endurance	>4,000 operating cycles	>4,000 operating cycles
AC voltage range:		
Responding limit	8 V	70 V
Operational voltage range	12-60 V	110-415 V
Maximum current consumption during switch-on	14 A	3.4 A
Current flow time at max. current consumption	4.0 ms	4.5 ms
DC voltage range:		
Responding limit	11 V	90 V
Operational voltage range	12-60 V	110-230 V
Maximum current consumption during switch-on	23.5 A typ.	1.7 A typ.
Current flow time at max. current consumption	2 ms	4 ms
Mechanical		
Frame size	45 mm	45 mm
Device height	90 mm	90 mm
Device width	27 mm	27 mm
Mounting	quick fastening on DIN rail IEC/EN 60715	
Degree of protection, built-in	IP40	IP40
Upper and lower terminal screws	lift terminals	lift terminals
Terminal capacity	2.5-30 mm^2	2.5-30 mm^2
Fastening torque of terminal screws	4 Nm	4 Nm

Connection diagram



Dimensions (mm)



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Accessories for Miniature Circuit Breakers AZ

Auxiliary Switch Z-LHK

SG16111



Function	Type Designation	Article No.	Units per package
1NO+1NC	Z-LHK	248440	10/100

Specifications | Auxiliary Switch Z-LHK

Description

- Auxiliary switch according to IEC 947-5-1
- Can be mounted subsequently

Technical Data

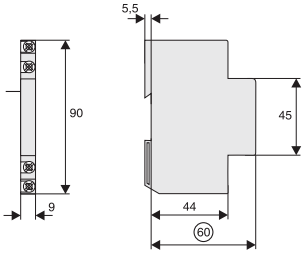
		Z-LHK
Electrical		
Contact function		1NO + 1NC
Rated voltage		250 V
Frequency		50/60 Hz
Rated current		8 A
Rated thermal current	I_{th}	8 A
Utilisation category AC13		
Rated operational current	I_e	6A/250V AC 2A/440V AC
Utilisation category AC15		
Rated operational current	I_e	–
Utilisation category DC12		
Rated operational current	I_e	–
Utilisation category DC13		
Rated operational current	I_e	0.5A/230V DC 2A/110V DC 4A/60V DC
Rated insulation voltage	U_i	250 V AC
Minimum operational voltage per contact	U_{min}	24 V AC/DC
Minimum operational current	I_{min}	50 mA AC/DC
Rated peak withstand voltage	U_{imp} (1.2/50µ)	2.5 kV
Conditional short circuit current	I_k	
with back-up fuse 6A or FAZ-B4-HS		1 kA
Max. back-up fuse, overload and short circuit		6 A gL / FAZ-4/../B-HS
Mechanical		
Can be mounted from the left onto		AZ
Can be mounted from the right onto		–
Tripping indicator “electrical tripping”		–
Frame size		45 mm
Device height		80 mm
Device width		8.8 mm (0.5MU)
Mounting		onto switching device
Degree of protection, built-in		IP40
Terminal protection		finger and hand touch safe according to BGV A3, ÖVE-EN 6
Terminals		lift terminals
Terminal capacity		0.5-2.5 mm^2
Terminal screws		M3 (Pozidrive Z0)
Fastening torque of terminal screws		max. 0.8-1.0 Nm

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Connection diagram



Dimensions (mm)



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Accessories for Miniature Circuit Breakers AZ

Interlocks LH-SP

Function	Type Designation	Article No.	Units per package
Tripping interlock	LH-SPL	285752	1
Tripping interlock	LH-SPE	215999	1
Switchoff interlock	LH-SPA	216000	1

Specifications | Anti-Tamper Device LH-SPE, LH-SPL

Description

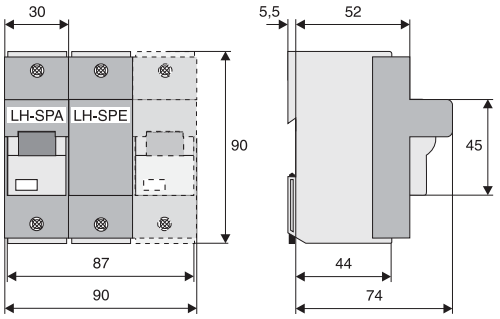
• Prevents undesired switching ON or OFF

Specifications | Switchoff Interlock LH-SPA

Description

• Prevents undesired switch-OFF

Dimensions (mm)



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Accessories for Miniature Circuit Breaker FAZ-..-NA, -RT, -DU

Auxiliary Contact Z-IHK-NA

SG60711



Operational Voltage Range	Type Designation	Article No.	Units per package
250 VAC	Z-IHK-NA	113895	1

Specifications | Auxiliary Contact Z-IHK-NA

Description

- Design according to IEC/EN 60947-5-1, IEC/EN 62019
- Field installable
- The specified minimum voltages are per contact—take into account particularly in case of series connection
- Self-cleaning contacts
- Contact material and design particularly suitable for extra low voltage
- Tripping signal contact transmits message of electric tripping, not mechanical switch-off
- Test key for contact function “electrical tripping”
- Will allow for > 480Y/277 VAC rating

Technical Data

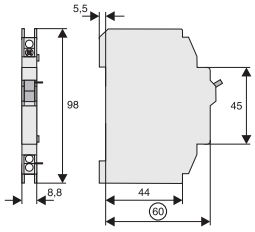
		Z-IHK-NA
Electrical		
Contact function		1NO + 1NC
Rated voltage		250V
Rated current		6A
Rated thermal current	I_{th}	6A
Utilization category AC13		
Rated operational current	I_e	3A/250 Vac
Utilization category AC15		
Rated operational current	I_e	2A/250 Vac
Utilization category DC12		
Rated operational current	I_e	0.5A/110 Vdc
Rated insulation voltage	U_i	250 Vac
Minimum operational voltage per contact	U_{min}	5 Vdc
Minimum operational current	I_{min}	10 mA AC/DC
Rated peak withstand voltage	U_{imp} (1.2/50µ)	4 kV
Conditional short circuit current	I_k	
with Back-Up Fuse 6A		1 kA
Max. back-up fuse, overload and short circuit		6 A gL / FAZ-4/../B-HS
Mechanical		
Tripping indicator “electrical tripping”		—
Frame size		45 mm
Device height		80 mm
Device width		8.8 mm (0.5MU)
Mounting		—
Degree of protection, built-in		IP40
Terminal protection		Finger and hand touch safe according to BGV A3, ÖVE-EN 6
Terminals		Lift terminals
Terminal capacity		0.5–2.5 mm^2
Terminal screws		M3 (Pozidrive Z2)
Tightening torque of terminal screws		max. 1.2 Nm

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Connection diagram



Dimensions (mm)



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Accessories for Miniature Circuit Breaker FAZ-..-NA, -RT, -DU

Shunt Trip FAZ-XAA-NA

SG13511



Operational Voltage Range	Type Designation	Article No.	Units per package
12–110 VAC 12–60 VDC	FAZ-XAA-NA12-110VAC	102037	1
110–415 VAC 110–230 VDC	FAZ-XAA-NA110-415VAC	102036	1

Specifications | Shunt Trip FAZ-XAA-NA

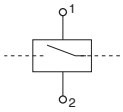
Description

- Remote release for subsequent mounting onto FAZ-NA
- Additional installation of standard auxiliary switch is possible
- Position indicator red–green

Technical Data

	FAZ-XAA-NA12-110VAC	FAZ-XAA-NA110-415VAC
Electrical		
Can be mounted onto	FAZ-NA / FAZ-NA-DC / FAZ-RT/-DU	FAZ-NA / FAZ-NA-DC / FAZ-RT/-DU
Operational voltage range	12–110 Vac 12–60 Vdc	110–415 Vac 110–230 Vdc
Frequency	50/60 Hz	50/60 Hz
Mechanical		
Frame size	45 mm	45 mm
Device height	105 mm	105 mm
Device width	17.5 mm	17.5 mm
Mounting	Quick fastening with two lock-in positions on EN 50022	
Degree of protection, built-in	IP40	IP40
Terminal protection	Finger and hand touch safe according to BGV A3, ÖVE-EN 6	Finger and hand touch safe according to BGV A3, ÖVE-EN 6
Terminals	Open mouthed/lift	Open mouthed/lift
Terminal capacity, one and two wires	18–10 AWG	18–10 AWG

Connection diagram



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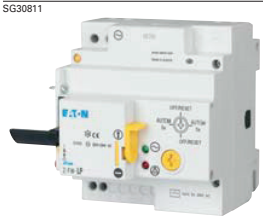
Terminal Covers

Description	Type Designation	Article No.	Units per package
Terminal Covers for RCDs			
2-pole	Z-RC/AK-2TE	285385	10
4-pole	Z-RC/AK-4TE	101062	10
Terminal Covers for Add-on Device			
2-pole	Z-CV/AO-2P	221957600	10
3+4-pole	Z-CV/AO-3-4P	221957500	10
Terminal Covers for MCB, RCBO			
2-pole	Z-CV/SD-2P	221954800	10
3-pole	Z-CV/SD-3P	221954900	10
4-pole	Z-CV/SD-4P	221953900	10
Terminal Cover for MCB			
1-pole	Z7-AK-1TE	750754200	10

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Remote Control and Automatic Switching Device Z-ZW

SG30811



SG30711



Function	Type Designation	Article No.	Units per package
Automatic restarting 230VAC	Z-FW-LP	248296	1/20
Automatic restarting 24-48VDC	Z-FW-LPD	265244	1/20
+ Remote control ON/OFF/TEST (only in connection with Z-FW-LP, -LPD from delivery date 2006!)	Z-FW-MO	284730	1

Pre-mounted sets Z-FW

SG31311



Operational voltage range	Type Designation	Article No.	Units per package
230 VAC	Z-FW-LP/MO	290171	1/12
24-48 VDC	Z-FW-LPD/MO	290172	1/12

Remote Testing Module Z-FW (for Z-FW-LP./MO set use only)

SG12111



Operational voltage range	Type Designation	Article No.	Units per package
0.01 A	Z-FW/001	248297	4/120
0.03 A	Z-FW/003	248298	4/120
0.1 A	Z-FW/010	248299	4/120
0.3 A	Z-FW/030	248300	4/120
0.5 A	Z-FW/050	248301	4/120

Specifications | Remote Control and Automatic Switching Z-FW

Description

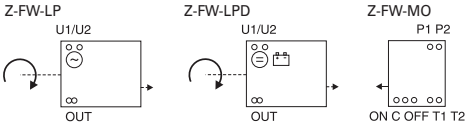
- Shape compatible switching device suitable for subsequent installation for automatic re-setting and remote control of CLS6, PFIM, PFHM-4p, dRCM, Z-A40, PFR, Z-MS
- Mechanical interlock, can be sealed with leads
- Mechanical switching capability up to max. PFIM-100/4p, CLS6-100/4p
- Operating and alarm display by green and red LED
- Function extension with Switching Modul Z-FW-MO Operating and trouble display by LED pre-assembled only with Z-FW...

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Technical Data

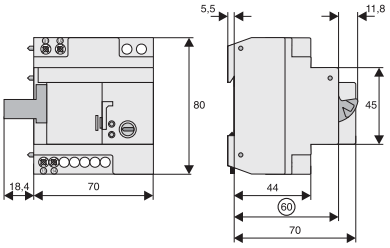
	Z-FW-LP	Z-FW-LPD	Z-FW-MO
Electrical			
Possible operating voltages	220-240 V AC	24-48 V DC	–
Frequency	50/60 Hz	–	–
Testing module (0.5MU) for remote testing of RCDs	Z-FW...	Z-FW...	–
Control voltage for remote control	–	–	24-230 V AC/DC
Relay output for tripping test with Z-FW	–	–	400 V AC max.
Relay output for alarm, potential-free	5A/250V AC	5A/250V AC	–
Functions	automatic restarting	automatic restarting	+ON/OFF/TEST
Function selector	Automatic 5x, OFF/RESET	Automatic 5x, OFF/RESET	ON, OFF/RESET
Remote control function via telephone with Telecommander	–	–	–
Mechanical			
Frame size	45 mm	45 mm	45 mm
Device height	80 mm	80 mm	80 mm
Device width	70 mm	70 mm	35 mm
Mounting	quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715		–
Degree of protection, built-in	IP40	IP40	IP40
Terminal protection	finger and hand touch safe according to BGV A3, ÖVE-EN 6		
Terminals	lift terminals	lift terminals	lift terminals
Terminal capacity	2 x 1.5 mm^2 or 1 x 2.5 mm^2	2 x 1.5 mm^2 or 1 x 2.5 mm^2	4 x 1.5 mm^2 or 2 x 2.5 mm^2
Scope of delivery	–	–	Coupling plug

Connection diagram

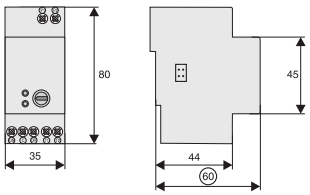


Dimensions (mm)

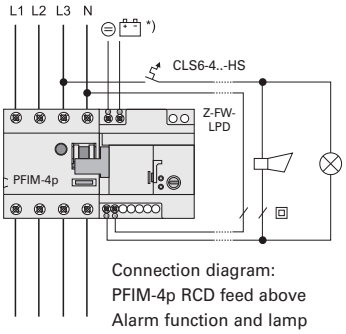
Z-FW-LP, -LPD



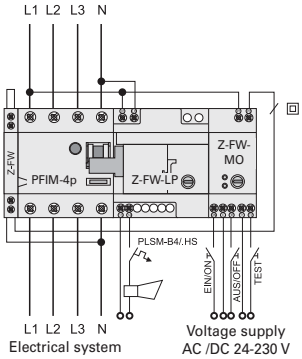
Z-FW-MO



Connection example

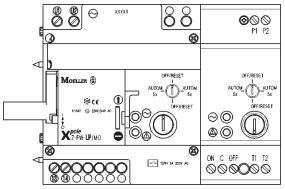


Connection diagram:
PFIM-4p RCD feed above
Alarm function and lamp
*) discretionary polarity

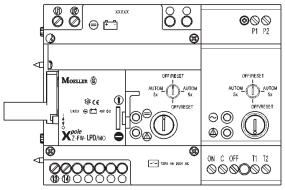


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Pre-mounted Sets



Z-FW-LP/MO



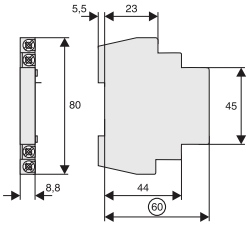
Z-FW-LPD/MO

Specifications | Remote Testing Module Z-FW (for Z-FW-LP)

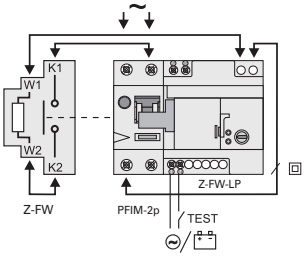
Description

- External testing module with testing resistor for RCDs
- Proper "external" test key function according to the applicable rules thanks to design adapted to the rated tripping current
- For remote testing with remote control and automatic switching device Z-FW-LP
- No undesired voltage rise in the consumer system during remote switch-off thanks to integrated breaker contact K1-K2
- Can also be used as a remote tripping module for PFIM, PFHM

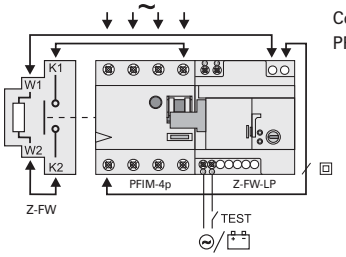
Dimensions (mm)



Connection examples



Connection diagram:
PFIM-2p, RCD feed above



Connection diagram:
PFIM-4p, RCD feed above

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