Combined RCD/MCB Devices PKNM, 1+N-pole MW

- High-quality residual current device / miniature circuit breaker combination, line voltage-independent
- 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
- Wide variety of rated tripping currents
- Rated currents up to 40 A
- Tripping characteristics B, C
- Rated breaking capacity 10 kA

EATON
Powering Business Worldwide

SG13711

Combined RCD/MCB Devices PKNM MW

10 kA, 1+N-pole

Conditionally surge current-proof 250 A, type AC

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic B			
2/0.01	PKNM-2/1N/B/001	235926	1 / 60
4/0.01	PKNM-4/1N/B/001	235957	1 / 60
6/0.01	PKNM-6/1N/B/001	236006	1 / 60
10/0.01	PKNM-10/1N/B/001	236066	1 / 60
13/0.01	PKNM-13/1N/B/001	236127	1 / 60
16/0.01	PKNM-16/1N/B/001	236199	1 / 60
2/0.03	PKNM-2/1N/B/003	235927	1 / 60
4/0.03	PKNM-4/1N/B/003	235956	1 / 60
6/0.03	PKNM-6/1N/B/003	236007	1 / 60
10/0.03	PKNM-10/1N/B/003	236067	1 / 60
13/0.03	PKNM-13/1N/B/003	236128	1 / 60
16/0.03	PKNM-16/1N/B/003	236200	1 / 60
20/0.03	PKNM-20/1N/B/003	236235	1 / 60
25/0.03	PKNM-25/1N/B/003	236265	1 / 60
32/0.03	PKNM-32/1N/B/003	236295	1 / 60
40/0.03	PKNM-40/1N/B/003	236324	1 / 60
2/0.1	PKNM-2/1N/B/01	235928	1 / 60
4/0.1	PKNM-4/1N/B/01	235958	1 / 60
6/0.1	PKNM-6/1N/B/01	236008	1 / 60
10/0.1	PKNM-10/1N/B/01	236068	1 / 60
13/0.1	PKNM-13/1N/B/01	236129	1 / 60
16/0.1	PKNM-16/1N/B/01	236201	1 / 60
20/0.1	PKNM-20/1N/B/01	236236	1 / 60
25/0.1	PKNM-25/1N/B/01	236266	1 / 60
32/0.1	PKNM-32/1N/B/01	236296	1 / 60
40/0.1	PKNM-40/1N/B/01	236325	1 / 60
2/0.3	PKNM-2/1N/B/03	235929	1 / 60
4/0.3	PKNM-4/1N/B/03	235959	1 / 60
6/0.3	PKNM-6/1N/B/03	236009	1 / 60
10/0.3	PKNM-10/1N/B/03	236069	1 / 60
13/0.3	PKNM-13/1N/B/03	236130	1 / 60
16/0.3	PKNM-16/1N/B/03	236202	1 / 60
20/0.3	PKNM-20/1N/B/03	236237	1 / 60
25/0.3	PKNM-25/1N/B/03	236267	1 / 60
32/0.3	PKNM-32/1N/B/03	236297	1 / 60
40/0.3	PKNM-40/1N/B/03	236326	1 / 60

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$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic C			
2/0.01	PKNM-2/1N/C/001	235936	1 / 60
4/0.01	PKNM-4/1N/C/001	235966	1 / 60
6/0.01	PKNM-6/1N/C/001	236016	1 / 60
10/0.01	PKNM-10/1N/C/001	236076	1 / 60
13/0.01	PKNM-13/1N/C/001	236139	1 / 60
16/0.01	PKNM-16/1N/C/001	236211	1 / 60
2/0.03	PKNM-2/1N/C/003	235937	1 / 60
4/0.03	PKNM-4/1N/C/003	235967	1 / 60
6/0.03	PKNM-6/1N/C/003	236017	1 / 60
10/0.03	PKNM-10/1N/C/003	236077	1 / 60
13/0.03	PKNM-13/1N/C/003	236140	1 / 60
16/0.03	PKNM-16/1N/C/003	236212	1 / 60
20/0.03	PKNM-20/1N/C/003	236245	1 / 60
25/0.03	PKNM-25/1N/C/003	236275	1 / 60
32/0.03	PKNM-32/1N/C/003	236305	1 / 60
40/0.03	PKNM-40/1N/C/003	236334	1 / 60
2/0.1	PKNM-2/1N/C/01	235938	1 / 60
4/0.1	PKNM-4/1N/C/01	235968	1 / 60
6/0.1	PKNM-6/1N/C/01	236018	1 / 60
10/0.1	PKNM-10/1N/C/01	236078	1 / 60
13/0.1	PKNM-13/1N/C/01	236141	1 / 60
16/0.1	PKNM-16/1N/C/01	236213	1 / 60
20/0.1	PKNM-20/1N/C/01	236246	1 / 60
25/0.1	PKNM-25/1N/C/01	236276	1 / 60
32/0.1	PKNM-32/1N/C/01	236306	1 / 60
40/0.1	PKNM-40/1N/C/01	236335	1 / 60
2/0.3	PKNM-2/1N/C/03	235939	1 / 60
4/0.3	PKNM-4/1N/C/03	235969	1 / 60
6/0.3	PKNM-6/1N/C/03	236019	1 / 60
10/0.3	PKNM-10/1N/C/03	236079	1 / 60
13/0.3	PKNM-13/1N/C/03	236142	1 / 60
16/0.3	PKNM-16/1N/C/03	236214	1 / 60
20/0.3	PKNM-20/1N/C/03	236247	1 / 60
25/0.3	PKNM-25/1N/C/03	236277	1 / 60
32/0.3	PKNM-32/1N/C/03	236307	1 / 60
40/0.3	PKNM-40/1N/C/03	236336	1 / 60

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Combined RCD/MCB Devices PKNM MW

10 kA, 1+N-pole

Conditionally surge current-proof 250 A, sensitive to residual pulsating DC, type A

$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic B			
2/0.01	PKNM-2/1N/B/001-A	235931	1 / 60
4/0.01	PKNM-4/1N/B/001-A	235961	1 / 60
6/0.01	PKNM-6/1N/B/001-A	236011	1 / 60
10/0.01	PKNM-10/1N/B/001-A	236071	1 / 60
13/0.01	PKNM-13/1N/B/001-A	236132	1 / 60
16/0.01	PKNM-16/1N/B/001-A	236204	1 / 60
2/0.03	PKNM-2/1N/B/003-A	235932	1 / 60
4/0.03	PKNM-4/1N/B/003-A	235962	1 / 60
6/0.03	PKNM-6/1N/B/003-A	236012	1 / 60
10/0.03	PKNM-10/1N/B/003-A	236072	1 / 60
13/0.03	PKNM-13/1N/B/003-A	236133	1 / 60
16/0.03	PKNM-16/1N/B/003-A	236205	1 / 60
20/0.03	PKNM-20/1N/B/003-A	236239	1 / 60
25/0.03	PKNM-25/1N/B/003-A	236269	1 / 60
32/0.03	PKNM-32/1N/B/003-A	236299	1 / 60
40/0.03	PKNM-40/1N/B/003-A	236328	1 / 60
2/0.1	PKNM-2/1N/B/01-A	235933	1 / 60
4/0.1	PKNM-4/1N/B/01-A	235963	1 / 60
6/0.1	PKNM-6/1N/B/01-A	236013	1 / 60
10/0.1	PKNM-10/1N/B/01-A	236073	1 / 60
13/0.1	PKNM-13/1N/B/01-A	236134	1 / 60
16/0.1	PKNM-16/1N/B/01-A	236206	1 / 60
20/0.1	PKNM-20/1N/B/01-A	236240	1 / 60
25/0.1	PKNM-25/1N/B/01-A	236270	1 / 60
32/0.1	PKNM-32/1N/B/01-A	236300	1 / 60
40/0.1	PKNM-40/1N/B/01-A	236329	1 / 60
2/0.3	PKNM-2/1N/B/03-A	235934	1 / 60
4/0.3	PKNM-4/1N/B/03-A	235964	1 / 60
6/0.3	PKNM-6/1N/B/03-A	236014	1 / 60
10/0.3	PKNM-10/1N/B/03-A	236074	1 / 60
13/0.3	PKNM-13/1N/B/03-A	236135	1 / 60
16/0.3	PKNM-16/1N/B/03-A	236207	1 / 60
20/0.3	PKNM-20/1N/B/03-A	236241	1 / 60
25/0.3	PKNM-25/1N/B/03-A	236271	1 / 60
32/0.3	PKNM-32/1N/B/03-A	236301	1 / 60
40/0.3	PKNM-40/1N/B/03-A	236330	1 / 60

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$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic C			
2/0.01	PKNM-2/1N/C/001-A	235941	1 / 60
4/0.01	PKNM-4/1N/C/001-A	235971	1 / 60
6/0.01	PKNM-6/1N/C/001-A	236021	1 / 60
10/0.01	PKNM-10/1N/C/001-A	236081	1 / 60
13/0.01	PKNM-13/1N/C/001-A	236144	1 / 60
16/0.01	PKNM-16/1N/C/001-A	236216	1 / 60
2/0.03	PKNM-2/1N/C/003-A	235942	1 / 60
4/0.03	PKNM-4/1N/C/003-A	235972	1 / 60
6/0.03	PKNM-6/1N/C/003-A	236022	1 / 60
10/0.03	PKNM-10/1N/C/003-A	236082	1 / 60
13/0.03	PKNM-13/1N/C/003-A	236145	1 / 60
16/0.03	PKNM-16/1N/C/003-A	236217	1 / 60
20/0.03	PKNM-20/1N/C/003-A	236249	1 / 60
25/0.03	PKNM-25/1N/C/003-A	236279	1 / 60
32/0.03	PKNM-32/1N/C/003-A	236309	1 / 60
40/0.03	PKNM-40/1N/C/003-A	236338	1 / 60
2/0.1	PKNM-2/1N/C/01-A	235943	1 / 60
4/0.1	PKNM-4/1N/C/01-A	235973	1 / 60
6/0.1	PKNM-6/1N/C/01-A	236023	1 / 60
10/0.1	PKNM-10/1N/C/01-A	236083	1 / 60
13/0.1	PKNM-13/1N/C/01-A	236146	1 / 60
16/0.1	PKNM-16/1N/C/01-A	236218	1 / 60
20/0.1	PKNM-20/1N/C/01-A	236250	1 / 60
25/0.1	PKNM-25/1N/C/01-A	236280	1 / 60
32/0.1	PKNM-32/1N/C/01-A	236310	1 / 60
40/0.1	PKNM-40/1N/C/01-A	236339	1 / 60
2/0.3	PKNM-2/1N/C/03-A	235944	1 / 60
4/0.3	PKNM-4/1N/C/03-A	235974	1 / 60
6/0.3	PKNM-6/1N/C/03-A	236024	1 / 60
10/0.3	PKNM-10/1N/C/03-A	236084	1 / 60
13/0.3	PKNM-13/1N/C/03-A	236147	1 / 60
16/0.3	PKNM-16/1N/C/03-A	236219	1 / 60
20/0.3	PKNM-20/1N/C/03-A	236251	1 / 60
25/0.3	PKNM-25/1N/C/03-A	236281	1 / 60
32/0.3	PKNM-32/1N/C/03-A	236311	1 / 60
40/0.3	PKNM-40/1N/C/03-A	236340	1 / 60

Combined RCD/MCB Devices PKNM — MW

10 kA, 1+N-pole

Surge current-proof 3 kA, type G (ÖVE E 8601)

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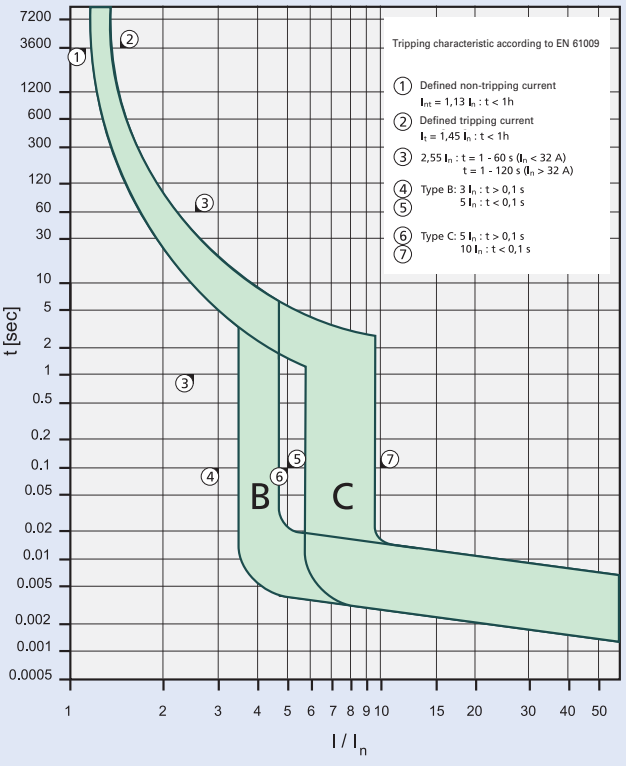
$I_n/I_{\Delta n}$ (A)	Type Designation	Article No.	Units per package
Characteristic B			
13/0.03	PKNM-13/1N/B/003-G	236137	1 / 60
16/0.03	PKNM-16/1N/B/003-G	236209	1 / 60
20/0.03	PKNM-20/1N/B/003-G	236243	1 / 60
25/0.03	PKNM-25/1N/B/003-G	236273	1 / 60
32/0.03	PKNM-32/1N/B/003-G	236303	1 / 60
40/0.03	PKNM-40/1N/B/003-G	236332	1 / 60
13/0.3	PKNM-13/1N/B/03-G	236138	1 / 60
16/0.3	PKNM-16/1N/B/03-G	236210	1 / 60
20/0.3	PKNM-20/1N/B/03-G	236244	1 / 60
25/0.3	PKNM-25/1N/B/03-G	236274	1 / 60
32/0.3	PKNM-32/1N/B/03-G	236304	1 / 60
40/0.3	PKNM-40/1N/B/03-G	236333	1 / 60
Characteristic C			
13/0.03	PKNM-13/1N/C/003-G	236149	1 / 60
16/0.03	PKNM-16/1N/C/003-G	236221	1 / 60
20/0.03	PKNM-20/1N/C/003-G	236253	1 / 60
25/0.03	PKNM-25/1N/C/003-G	236283	1 / 60
32/0.03	PKNM-32/1N/C/003-G	236313	1 / 60
40/0.03	PKNM-40/1N/C/003-G	236342	1 / 60
13/0.3	PKNM-13/1N/C/03-G	236150	1 / 60
16/0.3	PKNM-16/1N/C/03-G	236222	1 / 60
20/0.3	PKNM-20/1N/C/03-G	236254	1 / 60
25/0.3	PKNM-25/1N/C/03-G	236284	1 / 60
32/0.3	PKNM-32/1N/C/03-G	236314	1 / 60
40/0.3	PKNM-40/1N/C/03-G	236343	1 / 60

Load Capacity PKNM-../1N/

Effect of ambient temperature (MCB component)

	Ambient temperature **T [°C]**								
I_n [A]	**-25**	**-20**	**-10**	**0**	**10**	**20**	**30**	**35**	**40**
2	2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9
4	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9
5	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8
6	7.4	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8
8	9.9	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7
10	12	12	12	11	11	10	10	9.9	9.7
12	15	14	14	13	13	13	12	12	12
13	16	16	15	15	14	14	13	13	13
15	19	18	17	17	16	16	15	15	15
16	20	19	19	18	17	17	16	16	15
20	25	24	23	22	22	21	20	20	19
25	31	30	29	28	27	26	25	25	24
32	40	38	37	36	35	33	32	32	31
40	49	48	47	45	43	42	40	39	39

Tripping Characteristic PKNM-../1N/, Characteristics B a. C



Short Circuit Selectivity PKNM-../1N/ towards DII-DIV fuse link

In case of short circuit, there is selectivity between the combined RCD/MCB devices PKNM../1N/ and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

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

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

PKNM	DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	<0.5[1]	<0.5[1]	2.2	8.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.7	1.2	3.7	10.0	10.0[2]	10.0[2]	10.0[2]
6		<0.5[1]	0.7	1.0	2.9	6.9	10.0[2]	10.0[2]	10.0[2]
8		<0.5[1]	0.6	1.0	2.4	5.1	10.0[2]	10.0[2]	10.0[2]
10			0.6	0.9	1.9	3.3	7.0	10.0[2]	10.0[2]
13			0.5	0.7	1.6	2.8	5.7	9.0	10.0[2]
16				0.7	1.4	2.4	4.4	7.0	10.0[2]
20					1.3	2.2	4.0	6.3	10.0[2]
25					1.3	2.1	3.8	5.8	10.0[2]
32						2.0	3.5	5.2	9.5
40							3.1	4.5	8.1

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

PKNM	DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	<0.5[1]	<0.5[1]	1.7	6.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.7	1.3	4.2	8.5	10.0[2]	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	0.6	1.1	3.6	7.0	10.0[2]	10.0[2]	10.0[2]
6		<0.5[1]	0.6	1.0	2.9	5.8	10.0[2]	10.0[2]	10.0[2]
8		<0.5[1]	<0.5	0.9	2.5	4.8	10.0[2]	10.0[2]	10.0[2]
10			<0.5	0.7	1.5	2.6	5.3	9.0	10.0[2]
13					1.4	2.3	4.6	7.6	10.0[2]
16					1.2	1.8	3.4	5.5	10.0[2]
20					1.2	1.7	3.1	5.0	10.0[2]
25						1.6	2.9	4.6	10.0[2]
32							2.3	3.4	7.7
40								2.9	6.2

Short Circuit Selectivity PKNM-../1N/ towards D01-D03 fuse link

In case of short circuit, there is selectivity between the combined RCD/MCB devices PKNM../1N/ and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

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

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

PKNM	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	<0.5[1]	0.7	1.6	3.3	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.6	0.9	2.9	10.0	10.0[2]	10.0[2]	10.0[2]
6		<0.5[1]	0.5	0.8	2.4	8.2	10.0[2]	10.0[2]	10.0[2]
8			0.6	0.8	2.0	6.0	10.0[2]	10.0[2]	10.0[2]
10			0.5	0.8	1.6	3.7	6.0	10.0[2]	10.0[2]
13			0.6	0.7	1.4	3.0	4.7	9.0	10.0[2]
16				0.6	1.2	2.6	3.9	7.0	10.0[2]
20					1.2	2.5	3.6	6.2	10.0[2]
25					1.2	2.3	3.3	5.7	10.0[2]
32						2.3	3.1	5.1	10.0[2]
40							2.8	4.5	9.5

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

PKNM	D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	<0.5[1]	0.5	0.5	2.4	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	<0.5[1]	0.9	3.4	9.5	10.0[2]	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	<0.5[1]	0.9	2.9	8.0	10.0[2]	10.0[2]	10.0[2]
6		<0.5[1]	<0.5[1]	0.8	2.3	6.5	10.0[2]	10.0[2]	10.0[2]
8			<0.5	0.7	2.1	5.5	9.5	10.0[2]	10.0[2]
10			<0.5	0.6	1.3	2.9	4.5	8.9	10.0[2]
13					1.2	2.5	3.9	7.6	10.0[2]
16					1.0	2.1	3.0	5.5	10.0[2]
20					1.0	2.0	2.7	5.0	10.0[2]
25						1.9	2.6	4.5	10.0[2]
32							2.1	3.4	10.0[2]
40								3.0	8.7

Short Circuit Selectivity PKNM-../1N/ towards NH-00 fuse link

In case of short circuit, there is selectivity between the combined RCD/MCB devices PKNM../1N/ and the upstream fuses up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

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

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

PKNM	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
2	<0.5[1]	1.1	3.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	0.5	0.9	1.6	2.8	4.4	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
6	<0.5[1]	0.5	0.8	1.4	2.2	3.3	7.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
8	<0.5[1]	<0.5[1]	0.7	1.0	1.9	2.8	5.3	7.8	10.0[2]	10.0[2]	10.0[2]	10.0[2]
10		<0.5[1]	0.7	0.9	1.5	2.1	3.4	4.3	7.3	10.0[2]	10.0[2]	10.0[2]
13		<0.5[1]	0.6	0.8	1.4	1.8	2.8	3.6	5.7	10.0[2]	10.0[2]	10.0[2]
16			0.6	0.7	1.2	1.5	2.4	3.0	4.5	10.0[2]	10.0[2]	10.0[2]
20				0.7	1.1	1.5	2.2	2.8	4.2	9.2	10.0[2]	10.0[2]
25				0.7	1.1	1.4	2.1	2.6	4.0	8.2	10.0[2]	10.0[2]
32					1.0	1.4	2.0	2.5	3.7	7.1	10.0[2]	10.0[2]
40								2.3	3.4	6.2	8.8	10.0[2]

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

PKNM	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
2	<0.5[1]	0.6	2.6	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
4	<0.5[1]	<0.5[1]	0.9	1.8	3.2	4.8	8.7	10.0[2]	10.0[2]	10.0[2]	10.0[2]	10.0[2]
5	<0.5[1]	<0.5[1]	0.8	1.6	2.7	4.1	7.2	9.7	10.0[2]	10.0[2]	10.0[2]	10.0[2]
6	<0.5[1]	<0.5[1]	0.7	1.3	2.2	3.3	5.9	8.0	10.0[2]	10.0[2]	10.0[2]	10.0[2]
8	<0.5[1]	<0.5[1]	0.6	1.1	1.9	2.8	5.0	6.7	10.0[2]	10.0[2]	10.0[2]	10.0[2]
10		0.5	0.8	1.2	1.7	2.7	3.4	5.5	10.0[2]	10.0[2]	10.0[2]	10.0[2]
13				1.1	1.5	2.3	2.9	4.7	10.0[2]	10.0[2]	10.0[2]	10.0[2]
16				1.0	1.3	1.8	2.3	3.7	8.7	10.0[2]	10.0[2]	10.0[2]
20				0.9	1.1	1.7	2.2	3.4	8.0	10.0[2]	10.0[2]	10.0[2]
25					1.6	2.1	3.2	7.2	10.0[2]	10.0[2]		
32						1.7	2.6	5.3	9.0	10.0[2]		
40							2.4	4.5	7.5	10.0		

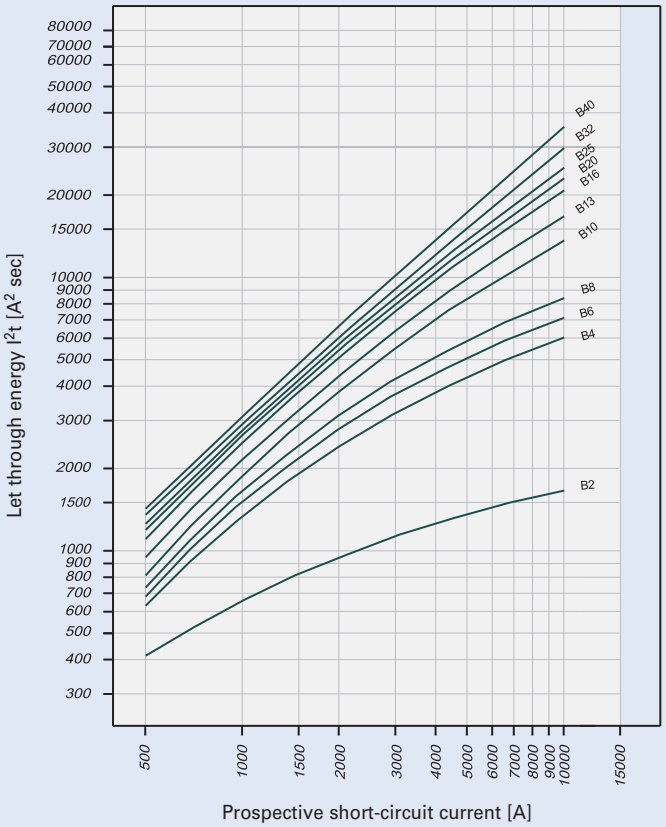
1) Selectivity limit current Is under 0.5 kA

2) Selectivity limit current Is = rated breaking capacity Icn of the RCD/MCB device

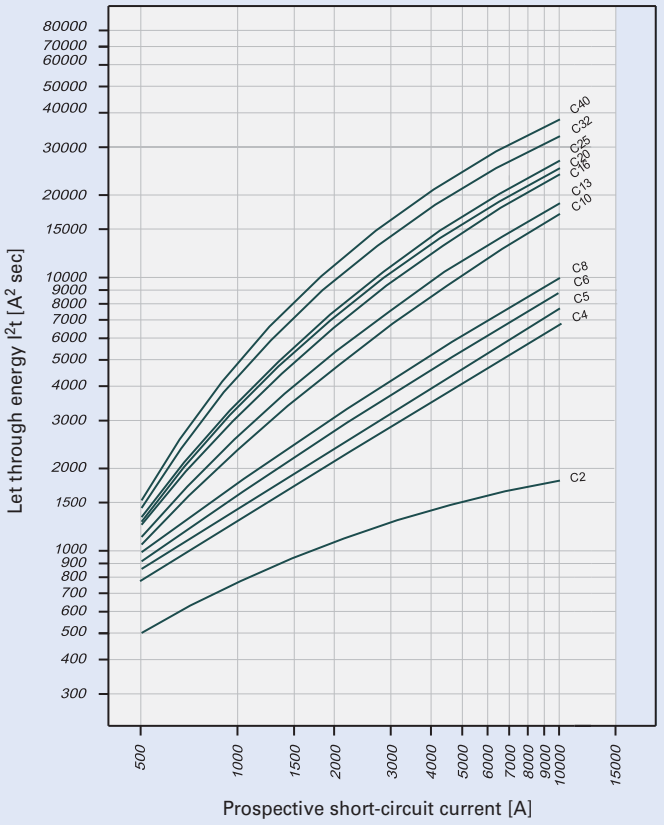
Darker areas: no selectivity

Let-through Energy PKNM-../1N/

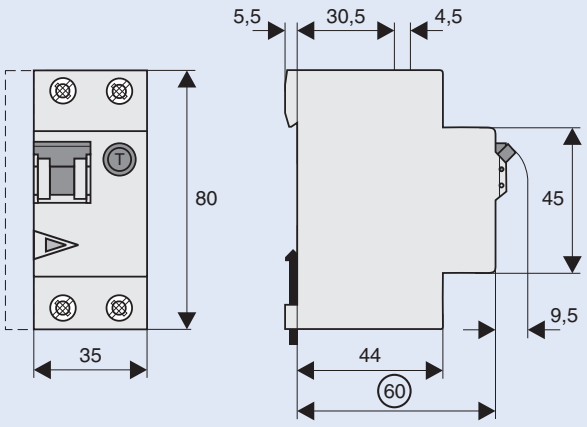
Let-through energy PKNM, characteristic B, 1+N-pole



Let-through energy PKNM, characteristic C, 1+N-pole

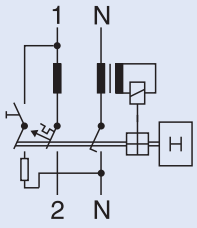


Dimensions (mm)



Connection diagram

1+N-pole



Combined RCD/MCB Devices PKNM, 1+N-pole

- Combined RCD/MCB device
- Line voltage-independent tripping
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Guide for secure terminal connection
- Switching toggle (MCB component) in colour designating the rated current
- Contact position indicator red - green
- Comprehensive range of accessories suitable for subsequent installation
- Type -A: Protects against special forms of residual pulsating DC which have not been smoothed
- Typ -G: 10 ms time delay in order to avoid unwanted tripping (e.g. during thunderstorms).Compulsory in Austria for any circuit where personal injury or damage to property may occur in case of unwanted tripping (§12.1.6 ÖVE/ÖNORME 8001-1).

Accessories:		
Auxiliary switch for subsequent installation		
	ZP-IHK	286052
	ZP-WHK	286053
Tripping signal switch for subsequent installation		
	ZP-NHK	248437
Shunt trip release	ZP-ASA/..	248438, 248439
Tripping module	Z-KAM	248294
Terminal cover cap	KLV-TC-2	276240
Additional terminal 35mm^2	Z-HA-EK/35	263960
Switching interlock	IS/SPE-1TE	101911

Technical Data

Electrical	
Design according to	IEC/EN 61009
Current test marks as printed onto the device	
Tripping	
line voltage-independent	instantaneous 250A (8/20ƒÊs) surge current-proof; Type G 10 ms delay 3kA (8/20ƒÊs) surge current-proof
Rated voltage Ue	230 V; 50 Hz
Operational voltage range	196-253 V
Rated tripping current Iƒ¢n	10, 30, 100, 300 mA
Rated non-tripping current Iƒ¢no	0.5 Iƒ¢n
Sensitivity	AC and pulsating DC
Selectivity class	3
Rated breaking capacity	10 kA
Rated current	2 - 40 A
Rated peak withstand voltage Uimp Characteristic	4 kV (1.2/50ƒÊs) B, C
Maximum back-up fuse (short circuit)	100 A gL (>10 kA)
Endurance	electrical comp. > 4,000 operating cycles
	mechanical comp. > 20,000 operating cycles

Mechanical	
Frame size	45 mm
Device height	80 mm
Device width	35 mm (2MU)
Mounting	3-position DIN rail clip, permits removal from existing busbar system
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity	1 - 25 mm^2
Busbar thickness	0.8 - 2 mm
Degree of protection switch	IP20
Degree of protection, built-in	IP40
Tripping temperature	-25°C to +40°C
Storage- and transport temperature	-35°C to +60°C
Resistance to climatic conditions	acc. to IEC/EN 61009

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