



NOARK

EMPOWERING SUSTAINABILITY



PRODUCT OFFERING

Circuit Protection for Renewable Energy



NOARK
EMPOWERING SUSTAINABILITY

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DC Switch Disconnecter (1500V) Selection Table

Product	Ex9IZ HV																		
											Ex9ASD DC								
Category \ In(A)	125	160	200	250	320	350	400	500	630	800	1000	1250	1600	2000	2500	3200	4000		
DC-21B/DC-PV1	Ex9IZ-320HV					Ex9IZ-630HV					Ex9IZ-1250HV								
DC-PV2						Ex9IZ-630HV				Ex9IZ-1250HV									
DC-22B						Ex9IZ-630HV				Ex9IZ-1250HV									
DC-22A/DC-23A/DC-PV2											Ex9ASD-2500DC								
											Ex9ASD-4000DC								

Miniature Circuit Breakers Ex9BN, 6 kA



- Miniature Circuit Breakers according to AS/NZS 60898. 1:2004
- Rated short circuit breaking capacity 6 kA
- 1 up to 4-pole versions
- Tripping characteristics C, D
- Rated current up to 63 A
- Rated operational voltage 240/415 V AC
- Wide range of accessories

Miniature Circuit Breakers Ex9BN, 6 kA



C-Characteristic, 1-pole

Rated current	Poles	Char.	Part no.	Model	Packing
16A	1	C	100098	Ex9BN 1P C16A IEC	1/12/144
20A	1	C	100099	Ex9BN 1P C20A IEC	1/12/144
25A	1	C	100100	Ex9BN 1P C25A IEC	1/12/144
32A	1	C	100101	Ex9BN 1P C32A IEC	1/12/144
40A	1	C	100102	Ex9BN 1P C40A IEC	1/12/144
50A	1	C	100103	Ex9BN 1P C50A IEC	1/12/144
63A	1	C	100104	Ex9BN 1P C63A IEC	1/12/144



C-Characteristic, 3-pole

Rated current	Poles	Char.	Part no.	Model	Packing
16A	3	C	100143	Ex9BN 3P C16A IEC	1/4/48
20A	3	C	100144	Ex9BN 3P C20A IEC	1/4/48
25A	3	C	100145	Ex9BN 3P C25A IEC	1/4/48
32A	3	C	100146	Ex9BN 3P C32A IEC	1/4/48
40A	3	C	100147	Ex9BN 3P C40A IEC	1/4/48
50A	3	C	100148	Ex9BN 3P C50A IEC	1/4/48
63A	3	C	100149	Ex9BN 3P C63A IEC	1/4/48

Isolators Ex9I125



- Modulator Isolators
- Rated current up to 150 A
- Rated voltage 240 / 415 V AC
- Rated short-time withstand current $I_{cw} = 12 \times I_e, 1 \text{ s}$
- Meet requirements of IEC 60947-3
- Built-in lock mechanism for OFF position
- 1 and 3 pole version

Isolators Ex9I125



1-pole

Rated current	Poles	Width	Part no.	Model	Packing
63A	1	1MU	100864	Ex9I125 1P 63A IEC	1/12/144
80A	1	1MU	100865	Ex9I125 1P 80A IEC	1/12/144
100A	1	1MU	100866	Ex9I125 1P 100A IEC	1/12/144
125A	1	1MU	100867	Ex9I125 1P 125A IEC	1/12/144



3-pole

Rated current	Poles	Width	Part no.	Model	Packing
63A	3	3MU	100876	Ex9I125 3P 63A IEC	1/4/48
80A	3	3MU	100877	Ex9I125 3P 80A IEC	1/4/48
100A	3	3MU	100878	Ex9I125 3P 100A IEC	1/4/48
125A	3	3MU	100879	Ex9I125 3P 125A IEC	1/4/48

Miniature Circuit Breakers B1E



- Miniature Circuit Breakers up to 125 A
- Tested according to IEC 60947-2 & UL1077
- 1P/2P/3P/4P
- Rated operating voltage : 110VDC(1P); 250VDC(2P)
- Wide range of accessories
- Certifications: CE, UR, SAA

Miniature Circuit Breakers B1E

- Rated ultimate short-circuit breaking capacity I_{cu} (EN 60947-2) for I_n 80 - 125A = 20 kA



C-Characteristic, 1-pole

Rated current	Poles	Char.	Part no.	Model	Packing
80A	1	C	1000672	Ex9B1E 1P C80A DC110V IEC	1/12/108
100A	1	C	1000673	Ex9B1E 1P C100A DC110V IEC	1/12/108
125A	1	C	1000674	Ex9B1E 1P C125A DC110V IEC	1/12/108



C-Characteristic, 2-pole

Rated current	Poles	Char.	Part no.	Model	Packing
80A	2	C	1000675	Ex9B1E 2P C80A DC220V IEC	1/6/54
100A	2	C	1000676	Ex9B1E 2P C100A DC220V IEC	1/6/54
125A	2	C	1000677	Ex9B1E 2P C125A DC220V IEC	1/6/54

DC MCBs Ex9BP up to 720 V DC



- DC Miniature Circuit Breakers
- Non-polarized, suitable for photovoltaic applications
- Tested according to IEC/EN 60947-2
- Rated short circuit breaking capacity I 6 kA
- Rated operating voltage U of 180 V DC per pole
- Width 2 and 4 modules
- Tripping characteristics C, K
- Rated current up to 63A
- Wide range of accessories

DC MCBs Ex9BP up to 720 V DC

K-Characteristic, 2-module, 360 V DC



Rated current	Pole	Char.	Part no.	Model	Packing
1A	2	K	84444	Ex9BP 2P DC360V K1 IEC	1/6/72
2A	2	K	84445	Ex9BP 2P DC360V K2 IEC	1/6/72
3A	2	K	84446	Ex9BP 2P DC360V K3 IEC	1/6/72
4A	2	K	84447	Ex9BP 2P DC360V K4 IEC	1/6/72
6A	2	K	84448	Ex9BP 2P DC360V K6 IEC	1/6/72
10A	2	K	84449	Ex9BP 2P DC360V K10 IEC	1/6/72
16A	2	K	84450	Ex9BP 2P DC360V K16 IEC	1/6/72
20A	2	K	84451	Ex9BP 2P DC360V K20 IEC	1/6/72
25A	2	K	84452	Ex9BP 2P DC360V K25 IEC	1/6/72
32A	2	K	84453	Ex9BP 2P DC360V K32 IEC	1/6/72
40A	2	K	84454	Ex9BP 2P DC360V K40 IEC	1/6/72
50A	2	K	84455	Ex9BP 2P DC360V K50 IEC	1/6/72
63A	2	K	84456	Ex9BP 2P DC360V K63 IEC	1/6/72

K-Characteristic, 4-module, 720 V DC



Rated current	Pole	Char.	Part no.	Model	Packing
1A	4	K	84470	Ex9BP 4P DC720V K1 IEC	1/3/36
2A	4	K	84471	Ex9BP 4P DC720V K2 IEC	1/3/36
3A	4	K	84472	Ex9BP 4P DC720V K3 IEC	1/3/36
4A	4	K	84473	Ex9BP 4P DC720V K4 IEC	1/3/36
6A	4	K	84474	Ex9BP 4P DC720V K6 IEC	1/3/36
10A	4	K	84475	Ex9BP 4P DC720V K10 IEC	1/3/36
16A	4	K	84476	Ex9BP 4P DC720V K16 IEC	1/3/36
20A	4	K	84477	Ex9BP 4P DC720V K20 IEC	1/3/36
25A	4	K	84478	Ex9BP 4P DC720V K25 IEC	1/3/36
32A	4	K	84479	Ex9BP 4P DC720V K32 IEC	1/3/36
40A	4	K	84480	Ex9BP 4P DC720V K40 IEC	1/3/36
50A	4	K	84481	Ex9BP 4P DC720V K50 IEC	1/3/36
63A	4	K	84482	Ex9BP 4P DC720V K63 IEC	1/3/36

DC MCBs Ex9BP up to 1000 V DC



- DC Miniature Circuit Breakers
- Non-polarized, suitable for photovoltaic applications
- Tested according to IEC/EN 60947-2
- Rated short circuit breaking capacity I 6 kA
- Rated operating voltage U of 250 V DC per pole
- Width 2 and 4 modules
- Tripping characteristics up to 63A
- Wide range of accessories

DC MCBs Ex9BP up to 1000 V DC



K-Characteristic, 2-module, 500 V DC

Rated current	Width	Char.	Article No.	Model	Packing
10A	2MU	K	90118	Ex9BP 2P DC500V K10	1/6/72
13A	2MU	K	90119	Ex9BP 2P DC500V K13	1/6/72
16A	2MU	K	90120	Ex9BP 2P DC500V K16	1/6/72
20A	2MU	K	90121	Ex9BP 2P DC500V K20	1/6/72
25A	2MU	K	90122	Ex9BP 2P DC500V K25	1/6/72
32A	2MU	K	90123	Ex9BP 2P DC500V K32	1/6/72
40A	2MU	K	90124	Ex9BP 2P DC500V K40	1/6/72
50A	2MU	K	90125	Ex9BP 2P DC500V K50	1/6/72
63A	2MU	K	90126	Ex9BP 2P DC500V K63	1/6/72



K-Characteristic, 4-module, 1000 V DC

Rated current	Width	Char.	Article No.	Model	Packing
10A	4MU	K	90127	Ex9BP 4P DC1000 K10	1/3/36
13A	4MU	K	90128	Ex9BP 4P DC1000 K13	1/3/36
16A	4MU	K	90129	Ex9BP 4P DC1000 K16	1/3/36
20A	4MU	K	90130	Ex9BP 4P DC1000 K20	1/3/36
25A	4MU	K	90131	Ex9BP 4P DC1000 K25	1/3/36
32A	4MU	K	90132	Ex9BP 4P DC1000 K32	1/3/36
40A	4MU	K	90133	Ex9BP 4P DC1000 K40	1/3/36
50A	4MU	K	90134	Ex9BP 4P DC1000 K50	1/3/36
63A	4MU	K	90135	Ex9BP 4P DC1000 K63	1/3/36

Miniature Circuit Breakers Ex9BD125



- Miniature Circuit Breakers up to 100A
- Tested according to EN 60947-2
- High rated breaking capacities up to 10 kA
- 1P/2P
- Rated operating voltage:
300VDC(1P); 600VDC (2P)
- Wide range of accessories
- Certifications: CE, TUV, SAA

Miniature Circuit Breakers Ex9BD125

Rated ultimate short-circuit breaking capacity I_{cu} (EN 60947-2) for I_n 16 - 100 A = 10 kA



C-Characteristic, 1-pole

Rated current	Poles	Char.	Part no.	Model	Packing
16A	1	C	90195	Ex9BD125 1P C16A DC300V IEC	1/12/108
20A	1	C	90196	Ex9BD125 1P C20A DC300V IEC	1/12/108
25A	1	C	90197	Ex9BD125 1P C25A DC300V IEC	1/12/108
32A	1	C	90198	Ex9BD125 1P C32A DC300V IEC	1/12/108
40A	1	C	90199	Ex9BD125 1P C40A DC300V IEC	1/12/108
50A	1	C	90221	Ex9BD125 1P C50A DC300V IEC	1/12/108
63A	1	C	90222	Ex9BD125 1P C63A DC300V IEC	1/12/108
80A	1	C	90223	Ex9BD125 1P C80A DC300V IEC	1/12/108
100A	1	C	90224	Ex9BD125 1P C100A DC300V IEC	1/12/108



C-Characteristic, 2-pole

Rated current	Poles	Char.	Part no.	Model	Packing
16A	2	C	90225	Ex9BD 125 2P C16A DC600V IEC	1/6/54
20A	2	C	90226	Ex9BD 125 2P C20A DC600V IEC	1/6/54
25A	2	C	90227	Ex9BD 125 2P C25A DC600V IEC	1/6/54
32A	2	C	90228	Ex9BD 125 2P C32A DC600V IEC	1/6/54
40A	2	C	90229	Ex9BD 125 2P C40A DC600V IEC	1/6/54
50A	2	C	90230	Ex9BD 125 2P C50A DC600V IEC	1/6/54
63A	2	C	90231	Ex9BD 125 2P C63A DC600V IEC	1/6/54
80A	2	C	90232	Ex9BD 125 2P C80A DC600V IEC	1/6/54
100A	2	C	90233	Ex9BD 125 2P C100A DC600V IEC	1/6/54

Miniature Circuit Breakers Ex9BD125

- Rated ultimate short-circuit breaking capacity I_{cu} (EN 60947-2) for I_n 16 - 100 A = 10 kA



K-Characteristic, 1-pole

Rated current	Poles	Char.	Part no.	Model	Packing
16A	1	K	90234	Ex9BD125 1P K16A DC300V IEC	1/12/108
20A	1	K	90235	Ex9BD125 1P K20A DC300V IEC	1/12/108
25A	1	K	90236	Ex9BD125 1P K25A DC300V IEC	1/12/108
32A	1	K	90237	Ex9BD125 1P K32A DC300V IEC	1/12/108
40A	1	K	90238	Ex9BD125 1P K40A DC300V IEC	1/12/108
50A	1	K	90239	Ex9BD125 1P K50A DC300V IEC	1/12/108
63A	1	K	90240	Ex9BD125 1P K63A DC300V IEC	1/12/108
80A	1	K	90241	Ex9BD125 1P K80A DC300V IEC	1/12/108
100A	1	K	90242	Ex9BD125 1P K100A DC300V IEC	1/12/108



K-Characteristic, 2-pole

Rated current	Poles	Char.	Part no.	Model	Packing
16A	2	K	90243	Ex9BD125 2P K16A DC600V IEC	1/6/54
20A	2	K	90244	Ex9BD125 2P K20A DC600V IEC	1/6/54
25A	2	K	90269	Ex9BD125 2P K25A DC600V IEC	1/6/54
32A	2	K	90270	Ex9BD125 2P K32A DC600V IEC	1/6/54
40A	2	K	90271	Ex9BD125 2P K40A DC600V IEC	1/6/54
50A	2	K	90272	Ex9BD125 2P K50A DC600V IEC	1/6/54
63A	2	K	90273	Ex9BD125 2P K63A DC600V IEC	1/6/54
80A	2	K	90274	Ex9BD125 2P K80A DC600V IEC	1/6/54
100A	2	K	90275	Ex9BD125 2P K100A DC600V IEC	1/6/54

Battery Circuit Breakers with Enclosure

- 2 Pole / 500V DC
- Weatherproof IP65 for outdoor installation
- 2 breakers - Frame 1 ($\leq 160A$) & Frame 2 ($\leq 250A$)
- 1 size enclosure for both Frame
- Adjustable 70% to 100% of rated current



DC MCCB Battery Breaker

Poles	Frame	Rated current In	Overcurrent release Ir	Instant release Ii	Part no.	Model	Packing
2	1	80A	56-80A	800A	852894	Ex9MD1B TM 80 2P IEC	1/12
2	1	100A	70-100A	1000A	852895	Ex9MD1B TM 100 2P IEC	1/12
2	1	125A	87-125A	1250A	852896	Ex9MD1B TM 125 2P IEC	1/12
2	1	160A	112-160A	1600A	850906	Ex9MD1B TM 160 2P IEC	1/12
2	2	160A	112-160A	1120-1920A	852899	Ex9MD2B TM 160 2P IEC	1/8
2	2	180A	126-180A	900-1800A	852900	Ex9MD2B TM 180 2P IEC	1/8
2	2	200A	140-200A	1000-2000A	852901	Ex9MD2B TM 200 2P IEC	1/8
2	2	250A	175-250A	1250-2500A	852902	Ex9MD2B TM 250 2P IEC	1/8

Enclosure

Poles	Frame	Rated current In	Part no.	Model	Packing
2	1&2	250A	850771	WPB	1/8

Moulded Case Circuit Breakers Ex9M DC TM



- Thermo-magnetic tripping unit for power distribution
- Frame sizes M1-M5
- Rated operating current up to 800 A
- 2-pole 3 and 4-pole versions
- Rated ultimate short circuit breaking capacity $I_{cu} = I_{cs}$ up to 100kA
- Rated voltage 500 V DC (2-pole) 750 V DC (3-pole) and 1000 V DC (4-pole)

Moulded Case Circuit Breakers Ex9M DC TM

Version Ex9MD1B up to 160 A, $I_{cu} = 25 \text{ kA}$

- 2 (up to 500 V DC), 3 (up to 750 V DC) and 4-pole (up to 1000 V DC) Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 25 \text{ kA}$ at 1000 V DC
- I_r can be set in range $(0.7 - 1.0) \times I_n$
- I_l can be set in range $(5 - 10) \times I_n$ for 125A and 160A types, otherwise is fixed at $10 \times I_n$
- Mounting screws, screw type terminals as well as phase barriers in the scope of delivery



Poles	Rated current in	Part no.	Model	Packing
2	50A	852892	Ex9MD1B TM 50 2P IEC	1/12
2	63A	852893	Ex9MD1B TM 63 2P IEC	1/12
2	80A	852894	Ex9MD1B TM 80 2P IEC	1/12
2	100A	852895	Ex9MD1B TM 100 2P IEC	1/12
2	125A	852896	Ex9MD1B TM 125 2P IEC	1/12
2	160A	850906	Ex9MD1B TM 160 2P IEC	1/12
3	50A	852556	Ex9MD1B TM 50 3P IEC	1/12
3	63A	852557	Ex9MD1B TM 63 3P IEC	1/12
3	80A	852558	Ex9MD1B TM 80 3P IEC	1/12
3	100A	852559	Ex9MD1B TM 100 3P IEC	1/12
3	125A	852560	Ex9MD1B TM 125 3P IEC	1/12
3	160A	852561	Ex9MD1B TM 160 3P IEC	1/12
4	50A	852567	Ex9MD1B TM 50 4P4T IEC	1/12
4	63A	852568	Ex9MD1B TM 63 4P4T IEC	1/12
4	80A	852569	Ex9MD1B TM 80 4P4T IEC	1/12
4	100A	852570	Ex9MD1B TM 100 4P4T IEC	1/12
4	125A	852571	Ex9MD1B TM 125 4P4T IEC	1/12
4	160A	852572	Ex9MD1B TM 160 4P4T IEC	1/12

Moulded Case Circuit Breakers Ex9M DC TM

Version Ex9MD2B up to 250 A, $I_{cu} = 25 \text{ kA}$

- 2 (up to 500 V DC), 3 (up to 750 V DC) and 4-pole (up to 1000 V DC) Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 25 \text{ kA}$ at 1000 V DC
- I_r can be set in range $(0.7 - 1.0) \times I_n$
- I_l can be set in range $(7 - 12) \times I_n$ for 125A and $(5 - 10) \times I_n$ for other devices up to 250 A
- Mounting screws, screw type terminals as well as phase barriers in the scope of delivery



Poles	Rated current in	Part no.	Model	Packing
2	125A	852898	Ex9MD2B TM 125 2P IEC	1/8
2	160A	852899	Ex9MD2B TM 160 2P IEC	1/8
2	180A	852900	Ex9MD2B TM 180 2P IEC	1/8
2	200A	852901	Ex9MD2B TM 200 2P IEC	1/8
2	250A	852902	Ex9MD2B TM 250 2P IEC	1/8
3	125A	852661	Ex9MD2B TM 125 3P IEC	1/8
3	160A	852662	Ex9MD2B TM 160 3P IEC	1/8
3	180A	852663	Ex9MD2B TM 180 3P IEC	1/8
3	200A	852664	Ex9MD2B TM 200 3P IEC	1/8
3	250A	852666	Ex9MD2B TM 250 3P IEC	1/8
4	125A	852667	Ex9MD2B TM 125 4P4T IEC	1/8
4	160A	852668	Ex9MD2B TM 160 4P4T IEC	1/8
4	180A	852669	Ex9MD2B TM 180 4P4T IEC	1/8
4	200A	852670	Ex9MD2B TM 200 4P4T IEC	1/8
4	250A	852672	Ex9MD2B TM 250 4P4T IEC	1/8

Moulded Case Circuit Breakers Ex9M DC TM

Version Ex9MD3B up to 400 A, $I_{cu} = 25$ kA

- 3 (up to 750 V DC) and 4-pole (up to 1000 V DC) Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 25$ kA at 1000 V DC
- I_r can be set in range $(0.7 - 1.0) \times I_n$
- I_i can be set in range $(5 - 10) \times I_n$
- Mounting screws, screw type terminals as well as phase barriers in the scope of delivery



Poles	Rated current in	Part no.	Model	Packing
3	250A	852721	Ex9MD3B TM 250 3P IEC	1/2
3	315A	852722	Ex9MD3B TM 315 3P IEC	1/2
3	350A	852723	Ex9MD3B TM 350 3P IEC	1/2
3	400A	852724	Ex9MD3B TM 400 3P IEC	1/2
4	250A	852725	Ex9MD3B TM 250 4P4T IEC	1/2
4	315A	852726	Ex9MD3B TM 315 4P4T IEC	1/2
4	350A	852727	Ex9MD3B TM 350 4P4T IEC	1/2
4	400A	852728	Ex9MD3B TM 400 4P4T IEC	1/2

Moulded Case Circuit Breakers Ex9M DC TM

Version Ex9MD4B up to 630 A, $I_{cu} = 25 \text{ kA}$

- 3 (up to 750 V DC) and 4-pole (up to 1000 V DC) Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 25 \text{ kA}$ at 1000 V DC
- I_r can be set in range $(0.7 - 1.0) \times I_n$
- I_i can be set in range $(5 - 10) \times I_n$
- Mounting screws, screw type terminals as well as phase barriers in the scope of delivery



Poles	Rated current in	Part no.	Model	Packing
3	400A	852761	Ex9MD4B TM 400 3P IEC	1/1
3	500A	852762	Ex9MD4B TM 500 3P IEC	1/1
3	630A	852763	Ex9MD4B TM 630 3P IEC	1/1
4	400A	852764	Ex9MD4B TM 400 4P4T IEC	1/1
4	500A	852765	Ex9MD4B TM 500 4P4T IEC	1/1
4	630A	852766	Ex9MD4B TM 630 4P4T IEC	1/1

Moulded Case Circuit Breakers Ex9M DC TM

Version Ex9MD5B up to 800 A, $I_{cu} = 25$ kA

- 3 (up to 750 V DC) and 4-pole (up to 1000 V DC) Moulded Case Circuit Breakers
- $I_{cs} = I_{cu} = 25$ kA at 1000 V DC
- I_r can be set in range $(0.7 - 1.0) \times I_n$
- I_i can be set in range $(5 - 10) \times I_n$
- Mounting screws, screw type terminals as well as phase barriers in the scope of delivery



Poles	Rated current in	Part no.	Model	Packing
3	630A	852791	Ex9MD5B TM 630 3P IEC	1/1
3	700A	852792	Ex9MD5B TM 700 3P IEC	1/1
3	800A	852793	Ex9MD5B TM 800 3P IEC	1/1
4	630A	852794	Ex9MD5B TM 630 4P4T IEC	1/1
4	700A	852795	Ex9MD5B TM 700 4P4T IEC	1/1
4	800A	852796	Ex9MD5B TM 800 4P4T IEC	1/1

Moulded Case Circuit Breakers Ex9MD3HV



- Frame current: 400A, 630A
- Rated voltage: DC1500V
- Rated current: 250A, 315A, 350A, 400A
- Breaking capacity I_{cu} (kA): 15kA
- IP Grade: IP20
- With isolation: YES
- Standards: IEC/EN60947-2, GB/T14048.2
- Certification: CE, CCC, CB

SKU code
Ex9MD3HVF TM 200 2P
Ex9MD3HVF TM 225 2P
Ex9MD3HVF TM 250 2P
Ex9MD3HVF TM 280 2P
Ex9MD3HVF TM 300 2P
Ex9MD3HVF TM 315 2P
Ex9MD3HVF TM 350 2P
Ex9MD3HVF TM 400 2P
Ex9MD3HVF TM 450 2P
Ex9MD3HVF TM 500 2P
Ex9MD3HVF TM 550 2P
Ex9MD3HVF TM 630 2P

DC MCCB Switch Disconnectors Ex9MSD



3-pole versions

Rated current	Frame size	Part no.	Model	Packing
160A	M1	852839	Ex9M1SD 3P IEC	1/12
250A	M2	852843	Ex9M2SD 3P IEC	1/8
400A	M3	852847	Ex9M3SD 3P IEC	1/2
630A	M4	852851	Ex9M4SD 3P IEC	1/1
800A	M5	852855	Ex9M5SD 3P IEC	1/1
800A	M6	852871	Ex9M6SD DC800 3P IEC	1/1
1000A	M6	852865	Ex9M6SD DC1000 3P IEC	1/1
1250A	M6	852867	Ex9M6SD DC1250 3P IEC	1/1
1600A	M6	852869	Ex9M6SD DC1600 3P IEC	1/1



4-pole versions

Rated current	Frame size	Part no.	Model	Packing
160A	M1	852840	Ex9M1SD 4P	1/12
250A	M2	852844	Ex9M2SD 4P	1/8
400A	M3	852848	Ex9M3SD 4P	1/2
630A	M4	852852	Ex9M4SD 4P	1/1
800A	M5	852856	Ex9M5SD 4P	1/1
800A	M6	852872	Ex9M6SD DC800 4P IEC	1/1
1000A	M6	852866	Ex9M6SD DC1000 4P IEC	1/1
1250A	M6	852868	Ex9M6SD DC1250 4P IEC	1/1
1600A	M6	852870	Ex9M6SD DC1600 4P IEC	1/1

Ex9I(Z)HV Series Switch Disconnecter



- Both DC & AC applications
- Complying with IEC 60947-3
- DC-PV2 with maximum DC voltage 1500V
- Rated current 630A and 800A

Ex9I(Z)HV Series Switch Disconnecter



Ex9I(Z)HV Series Switch Disconnecter

Order Code	SKU
850676	Ex9IZ-630HV W11 350A IEC
850681	Ex9IZ-630HV W11 400A IEC
850686	Ex9IZ-630HV 500A IEC
850691	Ex9IZ-630HV W11 630A IEC
850706	ERH24-9I 200 IEC
850700	AX24W-9I 11 IEC
850701	AX24W-9I 22 IEC
850702	AX24-9I 11 IEC
850703	AX24-9I 22 IEC
850705	TCV24-9I IEC
850721	Ex9IZ-1250HV W11 800A IEC

DC Switch Disconnectors Ex9ASD



- Frame current: 2500A, 4000A
- Rated operating voltage: DC750V(3P),1000V(4P),1500V(4P)
- Rated current: 630A, 800A, 1000A, 1250A, 1600A, 2000A, 2500A, 3200A, 4000A
- Series connection and poles: Series connection 3P/4P
- Certification: CCC, CE, CB

Accessories for MCCBs Ex9M



- Accessories for Ex9M line devices
- Auxiliary contacts synchronous with main contacts
- Signal contacts active on electrical tripping of the circuit breaker (tripping signal contacts)
- Shunt trip and undervoltage releases
- Remote operators
- Rotary handles
- Connection terminals and covers
- Mounting depth spacers and adaptors

Accessories for MCCBs Ex9M

Auxiliary and signal contact units

- Contact units for auxiliary and signal contact functions are suitable for all frame sizes
- Auxiliary contacts synchronous with main contacts of the circuit breaker
- Signal contacts active on electrical tripping of the circuit breaker (tripping signal contacts)
- It is possible to use 1 unit AL21L plus up to four units of AX21M in one MCCBs (depends on frame size)



Function	Frame size	Contacts	Article No.	Type	Packing
Auxiliary	all	1 CO	852508	AX21M	1/24
Signal	all	1 CO	852509	AL21M	1/24

Shunt trip releases

- It is possible to use one unit of shunt trip release SHT2i or one unit of undervoltage release UVT2i



Aux. cont.	Frame size	Operating Voltage	Part No.	Type	Packing
-	M1	48V AC	20288	SHT21 AC48V	1/24
-	M1	110V AC	20289	SHT21 AC110V	1/24
-	M1	220-240V AC	20290	SHT21 AC220-240V	1/24
-	M1	380-415V AC	20291	SHT21 AC380-415V	1/24
-	M1	24V DC	20292	SHT21 DC24V	1/24
-	M1	220V DC	20296	SH21 DC220V	1/24
-	M2,M3	48V AC	23175	SHT22 AC48V	1/24
-	M2,M3	110V AC	23176	SHT22 AC110V	1/24
-	M2,M3	220-240V AC	23177	SHT22 AC220-240V	1/24
-	M2,M3	380-415V AC	23178	SHT22 AC380-415V	1/24
-	M2,M3	24V DC	23179	SHT22 DC24V	1/24
-	M2,M3	220V DC	23183	SHT22 DC220V	1/24

Accessories for MCCBs Ex9M

Undervoltage releases

- It is possible to use one unit of undervoltage release UVT2i or one unit of shunt trip release SHT2i



Aux. cont.	Frame size	Operating Volage	Part No.	Model	Packing
-	M1	220-240V AC	20229	UVT21 220-240V AC	1/24
-	M1	380-415V AC	20300	UVT21 380-415V AC	1/24
-	M1	DC24V	110705	UVT 21 DC24V EU	1/24
-	M2,M3	220-240V AC	23195	UVT22 220-240V AC	1/24
-	M2,M3	380-415V AC	23186	UVT22 380-415V AC	1/24
-	M2	DC24V	21270	UVT22 DC24V IEC	1/24

Remote operators

- Motor drives for electrical and remote control of MCCBs
- Available up to M5 frame size



Frame size	Operating Volage	Part No.	Model	Packing
M1	230 V AC	20283	MOD 21 AC230V	1/8
M1	110 V AC	20284	MOD 21 AC110V	1/8
M1	24 V DC	20287	MOD 21 DC24V	1/8
M2	230 V AC	23170	MOD 22 AC230V	1/8
M2	110 V AC	23171	MOD 22 AC110V	1/8
M2	24 V DC	23174	MOD 22 DC24V	1/8
M3	230 V AC	25114	MOD 23 AC230V	1/8
M3	110 V AC	25115	MOD 23 AC110V	1/8
M3	24 V DC	25118	MOD 23 DC 24V	1/8
M4,M5	230 V AC	26913	MOD 24 AC240V	1/8
M4,M5	110 V AC	26916	MOD 24 AC110V	1/8
M4,M5	24 V DC	103747	MOD 24 DC24V	1/8

Accessories for MCCBs Ex9M

Direct rotary handles

- Rotatory handle for direct mounting onto breaker
- Scope of delivery: mechanism block, rotary handle
- Indication of connected breaker status ON-OFF-TRIP
- Degree of protection IP40, IK07
- Can be locked in ON and OFF position with up to three padlocks (not in a scope of delivery)



Frame size	Part no.	Model	Packing
M1	20303	RHD21	1/36
M2	23189	RHD22	1/18
M3	25122	RHD23	1/9
M4,M5	26921	RHD24	1/6

Extended rotary handles

- Rotary handle with extension shaft (extension shaft can be shortened)
- Possibility of longer extension shaft 500 mm (only the shaft as separated item)
- Scope of delivery: mechanism block, extension shaft, rotary handle
- Indication of connected breaker status ON-OFF-TRIP
- Degree of protection IP54, IK08
- Can be locked in ON and OFF position with up to three padlocks (not in a scope of delivery)



Frame size	Length	Part No.	Model	Packing
M1	300 mm	20302	ERH21	1/6
M2	300 mm	23188	ERH22	1/6
M3	300 mm	25121	ERH23	1/6
M4,M5	300 mm	26920	ERH24	1/4

Accessories for MCCBs Ex9M

Connection terminals

- Connection terminals for MCCBs of all frame sizes
- Box and tunnel terminal versions
- For connecting with Al or Cu wires (box terminals only for Cu wires)
- Packed separately (for 3P connection, it is necessary to order 3pcs of terminal)
- Box terminals newly in the scope of delivery of AC devices, M1, M2



Box terminals

Frame size	Version	Terminals	Max. terminal capacity	Article No.	Type	Packing
M1	box	1	4-95 mm ²	103705	MC21	1 pc
M2	box	1	10-120 mm ²	103709	MC22	1 pc
M3	box	1	120-240 mm ²	103715	MC23	1 pc
M3	box	1	120-240 mm ²	103717	MC23 UL	1 pc

Tunnel terminals



Frame size	Version	Terminals	Max. terminal capacity	Article No.	Type	Packing
M1	tunnel	1	16-95 mm ²	103707	MC21 W	1 pc
M2	tunnel	1	35-240 mm ²	103869	MC22 W	1 pc
M2	tunnel	2	35-120 mm ²	103711	MC22 W2	1 pc
M2	tunnel	6	10-35 mm ²	103713	MC22 W6	1 pc
M3	tunnel	2	120-240 mm ²	103719	MC23 W2	1 pc
M3	tunnel	2	120-240 mm ²	103871	MC23 W2 UL	1 pc
M3	tunnel	4	35-95 mm ²	103721	MC23 W4	1 pc
M4,M5	tunnel	2	120-240 mm ²	106314	MC24 W2	1 pc

Screw terminals



Frame size	Version	Terminals	Screw size	Article No.	Type	Packing
M1	screw	1	M6	107873	MCS21	1 pc
M2	screw	1	M8	107874	MCS22	1 pc

Accessories for MCCBs Ex9M

Terminal covers, short

- Terminal covers to increase touch protection of terminals



Frame size	Poles	Part no.	Model	Packing
M1	3P	20304	TCV21 3P	1 pc
M2	3P	23190	TCV22 3P	1 pc
M3	3P	25123	TCV23 3P	1 pc
M1	4P	20305	TCV21 4P	1 pc
M2	4P	23191	TCV22 4P	1 pc
M3	4P	25124	TCV23 4P	1 pc
M4,M5	4P		TCV24 4P	1 pc

Accessories for MCCBs Ex9M

Terminal covers, long

- Terminal covers to increase touch protection of terminals



Frame size	Poles	Part no.	Model	Packing
M1	3P	20306	TCE21 3P	1 pc
M2	3P	23192	TCE22 3P	1 pc
M3	3P	25125	TCE23 3P	1 pc
M4,M5	3P	26904	TCE24 3P	1 pc
M1	4P	20307	TCE21 4P	1 pc
M2	4P	23193	TCE22 4P	1 pc
M3	4P	25126	TCE23 4P	1 pc
M4,M5	4P	852989	TCE24 4P	1 pc

DIN-rail adaptors

- Adaptors for mounting of MCCBs onto DIN-rail 35mm
- Suitable for all variants of MCCBs and MCCB Switch Disconnectors of given frame size



Frame sizes	Poles	Article No.	Type	Packing
M1	3P, 4P	20309	DRA21	1
M2	3P, 4P	106320	DRA22	1

Accessories for MCCBs Ex9M

Rear connection plate

The rear connection plate is used for wiring at the back of mounting board so as to cooperate with distribution board or satisfy other needs.



Part no.	Description	Model	Unit
20312	Rear connection plate for Ex9M1 3P	RCP 21 3P	1 set
20313	Rear connection plate for Ex9M1 4P	RCP 21 4P	1 set
23198	Rear connection plate for Ex9M2 3P	RCP 22 3P	1 set
23199	Rear connection plate for Ex9M2 4P	RCP 22 4P	1 set
25130	Rear connection plate for Ex9M3 3P	RCP 23 3P	1 set
25131	Rear connection plate for Ex9M3 4P	RCP 23 4P	1 set
26909	Rear connection plate for Ex9M4&5 3P	RCP 24 3P	1 set
26910	Rear connection plate for Ex9M4&5 4P	RCP 24 4P	1 set

Handle locking device

The locking system can lock the circuit breaker at the disconnect position.

- The locking system can be equipped with (1-3) padlocks, with a diameter of (5-8) mm.
- The padlocks should be provided by the user itself.



Part no.	Description	Model	Unit
20301	Keylock for Ex9M1	KLK 21	1pc
23187	Keylock for Ex9M2	KLK 22	1pc
25120	Keylock for Ex9M3	KLK 23	1pc

DC Fuse disconnectors Ex9FP DC 1000V



- DC fuse disconnectors
- Suitable for PV systems
- Rated short-circuit breaking capacity I_{cn} with appropriate fuse-link up to 33 kA
- Rated current up to 30 A
- Rated operational voltage 1000 V DC
- Optical tripping indicator
- Fuse-links of size 10 x 38 mm
- 1 and 2-pole variants
- Utilization category DC-20B

DC Fuse disconnectors Ex9FP



1-pole

Poles	Article No.	Type	Packing
1	101766	Ex9FP 1P 30A	1/12/144



2-pole

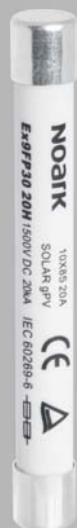
Poles	Article No.	Type	Packing
2	101767	Ex9FP 2P 30A	1/6/72

DC Fuse disconnectors Ex9FP30H DC 1500V



- DC fuse disconnectors for PV systems
- Rated short-circuit breaking capacity I_{cn} with appropriate fuse-link up to 20 kA
- Rated current up to 30 A
- Fuse-links of size 10 x 85 mm
- 1500 V DC

DC Fuse disconnectors Ex9FP30H for PV



1-pole

Poles	Article No.	Type	Packing
1	850036	Ex9FP30H	1/12/144

Fuse-link

Dimension (mm)	Rated current (A)	Article No.	Type
10x85	2	850037	Ex9FP30 2H
10x85	4	850038	Ex9FP30 4H
10x85	6	850039	Ex9FP30 6H
10x85	8	850040	Ex9FP30 8H
10x85	10	850041	Ex9FP30 10H
10x85	12	850042	Ex9FP30 12H
10x85	15	850043	Ex9FP30 15H
10x85	16	850044	Ex9FP30 16H
10x85	20	850045	Ex9FP30 20H
10x85	25	850046	Ex9FP30 25H
10x85	30	850047	Ex9FP30 30H

DC surge protection devices Ex9UEP (N)



- DC Surge Protection Devices suitable for Photovoltaic systems
- PV T2 (Class II, Type 2, C) class SPDs
- Meet requirements of EN 61643
- Nominal discharge current I_n 20 kA (8/20 μ s) per path
- Maximum discharge current I_{max} 40kA (8/20 μ s)
- Max. continuous operational voltage UCPV from 500 to 1500 V DC
- For grounded and ungrounded PV systems
- Plug-in module design with status indication
- Optional remote indication contact

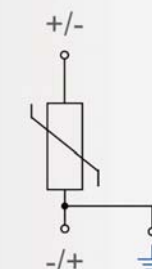
DC surge protection devices Ex9UEP (N)



Complete devices for grounded PV systems, 1-pole

Max. oper. voltage UCPV	Connection configuration	Signaling contact	Article No.	Type	Packing
500 V DC	I	no	850000	Ex9UEP 20 1P 500 (N)	1/96
500 V DC	I	yes	850001	Ex9UEP 20R 1P 500 (N)	1/96
600 V DC	I	no	850004	Ex9UEP 20 1P 600 (N)	1/96
600 V DC	I	yes	850005	Ex9UEP 20R 1P 600 (N)	1/96
750 V DC	I	no	850018	Ex9UEP 20 1P 750 (N)	1/96
750 V DC	I	yes	850019	Ex9UEP 20R 1P 750 (N)	1/96

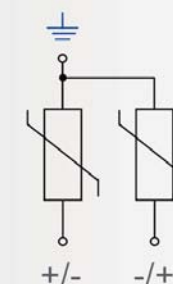
Connection diagram



Complete devices for ungrounded PV systems, 2-pole

Max. oper. voltage UCPV	Connection configuration	Signaling contact	Article No.	Type	Packing
500 V DC	U	no	850002	Ex9UEP 20 2P 500 (N)	1/81
500 V DC	U	yes	850003	Ex9UEP 20R 2P 500 (N)	1/81
600 V DC	U	no	850006	Ex9UEP 20 2P 600 (N)	1/81
600 V DC	U	yes	850007	Ex9UEP 20R 2P 600 (N)	1/81
750 V DC	U	no	850020	Ex9UEP 20 2P 750 (N)	1/81
750 V DC	U	yes	850021	Ex9UEP 20R 2P 750 (N)	1/81

Connection diagram



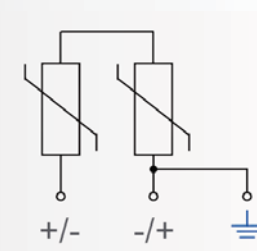
DC surge protection devices Ex9UEP (N)



Complete devices for grounded PV systems, 2-pole

Max. oper. voltage UCPV	Connection configuration	Signaling contact	Article No.	Type	Packing
1000 V DC	U	no	850022	Ex9UEP 20 2P 1000 (N)	1/81
1000 V DC	U	yes	850023	Ex9UEP 20R 2P 1000 (N)	1/81
1200 V DC	U	no	850008	Ex9UEP 20 2P 1200 (N)	1/81
1200 V DC	U	yes	850009	Ex9UEP 20R 2P 1200 (N)	1/81
1500 V DC	U	no	850026	Ex9UEP 20 2P 1500 (N)	1/81
1500 V DC	U	yes	850027	Ex9UEP 20R 2P 1500 (N)	1/81

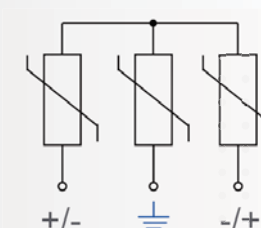
Connection diagram



Complete devices for ungrounded PV systems, 3-pole

Max. oper. voltage UCPV	Connection configuration	Signaling contact	Article No.	Type	Packing
1000 V DC	Y	no	850024	Ex9UEP 20 3P 1000 (N)	1/54
1000 V DC	Y	yes	850025	Ex9UEP 20R 3P 1000 (N)	1/54
1200 V DC	Y	no	850010	Ex9UEP 20 3P 1200 (N)	1/54
1200 V DC	Y	yes	850011	Ex9UEP 20R 3P 1200 (N)	1/54
1500 V DC	Y	no	850028	Ex9UEP 20 3P 1500 (N)	1/54
1500 V DC	Y	yes	850029	Ex9UEP 20R 3P 1500 (N)	1/54

Connection diagram



DC surge protection devices Ex9UEP (N)

Spare plug-in module



Max. oper. voltage UCPV	Suitable for device	Article No.	Type	Packing
500 V DC	Ex9UEP 20 1P 500 (N)	850012	Ex9UEP 20 1P 500 M (N)	1
600 V DC	Ex9UEP 20 1P 600 (N)	850014	Ex9UEP 20 1P 600 M (N)	1
750 V DC	Ex9UEP 20 1P 750 (N)	850030	Ex9UEP 20 1P 750 M (N)	1
500 V DC	Ex9UEP 20 2P 500 (N)	850013	Ex9UEP 20 2P 500 M (N)	1
600 V DC	Ex9UEP 20 2P 600 (N)	850015	Ex9UEP 20 2P 600 M (N)	1
750 V DC	Ex9UEP 20 2P 750 (N)	850031	Ex9UEP 20 2P 750 M (N)	1
1000 V DC	Ex9UEP 20 2P 1000 (N)	850032	Ex9UEP 20 2P 1000 M (N)	1
1200 V DC	Ex9UEP 20 2P 1200 (N)	850016	Ex9UEP 20 2P 1250 M (N)	1
1500 V DC	Ex9UEP 20 2P 1500 (N)	850034	Ex9UEP 20 2P 1500 M (N)	1
1000 V DC	Ex9UEP 20 3P 1000 (N)	850033	Ex9UEP 20 3P 1000 M (N)	1
1200 V DC	Ex9UEP 20 3P 1200 (N)	850017	Ex9UEP 20 3P 1200 M (N)	1
1500 V DC	Ex9UEP 20 3P 1500 (N)	850035	Ex9UEP 20 3P 1500 M (N)	1

Grid Protection Boards for commercial system over 30kWac



- Customised for each system
- Simply “Plug & Play”
- Pre-programmed with DNSP configuration settings
- Compliant with IEC 61439

Grid Protection Boards for commercial system over 30kWac



Order code	Model	Description	Applicable System Size (kVA)
991001	Ex9PVDB-100	Grid Protection Board 100A / 30-65 kVA	30 - 60
991002	Ex9PVDB-200	Grid Protection Board 200A/ 60-125 kVA	60 - 125
991003	Ex9PVDB-400	Grid Protection Board 400A/ 250 kVA	< 250
991004	Ex9PVDB-630	Grid Protection Board 630A/ 390 kVA	< 390
991005	Ex9PVDB-800	Grid Protection Board 800A/ 500 kVA	< 500

String Combiner Box



- String combiner box provides functions of combining circuit and surge protection between PV modules and inverters.
- With optional monitoring module, it could upload and monitor the status of current, voltage, switch and SPD.
- Electrical data is displayed by LED and transferred by the means of RS485.
- ALL components are PV specialized by Noark, voltage of which is up to 1500VDC.
- Different size of combiner box and different solution to meet different demands of customers.
- Protection degree of IP 65.

String Combiner Box



Order Code	Model	Enclosure Material	Input / Output	Layout	Monitoring
9710101	PVBx101-EG	Electro-Galvanized (EG) Steel	10-IN / 1-OUT	Vertical	No
9710202	PVBx202-EG	Electro-Galvanized (EG) Steel	20-IN / 2-OUT	Vertical	No
9710181	PVBx181-EG	Electro-Galvanized (EG) Steel	18-IN / 1-OUT	Vertical	No
9711161	PVBx161-EG	Electro-Galvanized (EG) Steel	16-IN / 1-OUT	Horizontal	Yes
9711241	PVBx241-EG	Electro-Galvanized (EG) Steel	24-IN / 1-OUT	Horizontal	Yes
9711321	PVBx321-EG	Electro-Galvanized (EG) Steel	32-IN / 1-OUT	Horizontal	Yes
9720101	PVBx101-SS	Stainless Steel (SS)	10-IN / 1-OUT	Vertical	No
9720202	PVBx202-SS	Stainless Steel (SS)	20-IN / 2-OUT	Vertical	No
9720181	PVBx181-SS	Stainless Steel (SS)	18-IN / 1-OUT	Vertical	No
9720161	PVBx161-SS	Stainless Steel (SS)	16-IN / 1-OUT	Horizontal	Yes
9720241	PVBx241-SS	Stainless Steel (SS)	24-IN / 1-OUT	Horizontal	Yes
9720321	PVBx321-SS	Stainless Steel (SS)	32-IN / 1-OUT	Horizontal	Yes

Backup Box for Fronius GEN24



- Comes fully assembled in Australia and includes a Single or Three Phase 63A Fronius smart meter, 63A main switch, contactor, relay, MCB's for essential and non-essential circuits as well as 32A Inverter output MCB
- A convenient way to provide full backup capability for Fronius Primo GEN24 3.0 - 6.0 PLUS or Symo GEN24 6.0 - 10.0 PLUS inverters
- If connecting a Primo GEN24 8.0 or 10.0, you will need to purchase a single pole 63A MCB (100104 Ex9BN 1P C63A) to replace the preinstalled 32A inverter output MCB

Order code
981001
981002

Enclosure for Large DC MCCB

- IP65 For Outdoor Installation only
- Designed For Both 3 Poles and 4 Poles NOARK DC MCCBs in a Range of 400A to 800A
- Easy Cable Connection with Special Busbar Inclusive



Order code	Model	Description	Compatible MCCB
991041	Ex9BBE-400-Outdoor-Enclosure	400A Outdoor Enclosure	Ex9MD3 Up to 400A
991042	Ex9BBE-400-Outdoor- Neutral Bar	400A Neutral Bar	
25122	RHD 23 IEC	Direct Rotary Handle (Frame of 400A)	
991043	Ex9BBE-630/800-Outdoor-Enclosure	630A/800A Outdoor Enclosure	Ex9MD4 Up to 630A
991044	Ex9BBE-630/800-Outdoor-Neutral Bar	630A/800A Neutral Bar	Ex9MD5 up to 800A
26921	RHD 24 IEC	Direct Rotary Handle (Frame of 630A & 800A)	

Enclosure for Large DC MCCB

- IP43 For Indoor Installation only
- Designed For Both 3 Poles and 4 Poles NOARK DC MCCBs in a Range of 400A to 800A
- Optional Busbar Offers Easy Cable Connection
- Multiple Cable Entry From Top/Bottom and Both Side



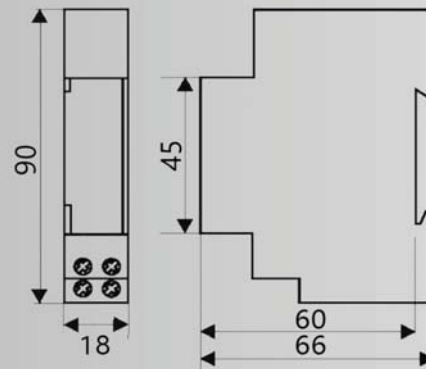
Order code	Model	Description	Compatible MCCB
991045	Ex9BBE-400-Indoor-Enclosure	400A Indoor Enclosure	Ex9MD3 Up to 400A
991046	Ex9BBE-400-Indoor-Neutral Bar	400A Neutral Bar	
991047	Ex9BBE-400-Indoor-Top Bar	400A Top Bar (Set of Different Length)	
991048	Ex9BBE-400-Indoor-Bottom Bar	400A Bottom Bar (Set of Same Short Length)	
991049	Ex9BBE-630/800-Indoor-Enclosure	630A/800A Indoor Enclosure	Ex9MD4 Up to 630A Ex9MD5 Up to 800A
991050	Ex9BBE-630/800-Indoor-Neutral Bar	630A/800A Neutral Bar	
991051	Ex9BBE-630/800-Indoor-Top Bar	630A/800A Top Bar (Set of Different Length)	
991052	Ex9BBE-630/800-Indoor-Bottom Bar	630A/800A Top Bar (Set of Same Short Length)	
26921	RHD 24 IEC	Direct Rotary Handle (Frame of 630A & 800A)	

Time Switch Ex9KG3B

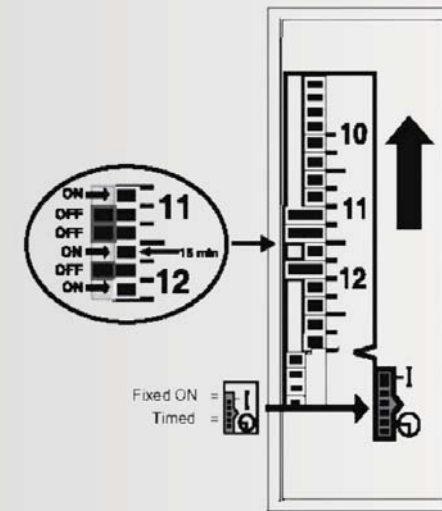


- Operating voltage U_e 230 V AC
- Quartz time basis
- Daily program of intergrated time switch
- Shortest switching time 15 min
- 1-module width version

Dimensions



Programming



Time Switch Ex9KG3B



Electrical Parameters (Ex9KG3B)

Rated voltage	220VAC
Voltage tolerance	220-240VAC
Frequency	50Hz/60Hz (common use)
Drive method	Quartz controlled stepping motor
Time precision	+2Sec/day at 22°C
Cycle	24 Hours
Power consumption	1W
Working reserve time	100 Hours
Circuit	Separate circuit (voltage is not applied to the load circuit)
Switch construction	SPST
Auto ON/OFF	ON/AUTO switch
Resistive load	16A
Incandescent lamp	1000W
Inductive	4A
Energy saving lamps	150W
ON/OFF program setting	15 Minutes
Minimum unit	15 Minutes
Minimum interval	15 Minutes
No. of ON/OFF operations	96 operations
Ambient temperature	-10~ +50°C
Ambient humidity	Max.85%
Weight	70g

Change-Over Switch Ex9BT3G 40A



- Group Change-Over Switches
- Meet requirements of IEC EN 60947-3
- Rated current from 16 A to 40 A
- Rated Operating voltage 240/415 V AC
- Utilisation category AC-22A
- Contact form (I-O-II)
- 1 up to 4-pole versions
- Rated frequency 50/60 Hz

Change-Over Switch Ex9BT3G (40A)



1 Pole, 1 Change-Over contact (I-O-II)

Rated current	Contacts	Contacts way	Article No.	Type	Packing
16 A	1 CO	(I-O-II)	850122	Ex9BT3G 1CO 16A	1/12/144
25 A	1 CO	(I-O-II)	850123	Ex9BT3G 1CO 25A	1/12/144
32 A	1 CO	(I-O-II)	850124	Ex9BT3G 1CO 32A	1/12/144
40 A	1 CO	(I-O-II)	850125	Ex9BT3G 1CO 40A	1/12/144

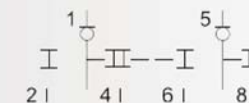
Wiring diagrams



2 Poles, 2 Change-Over contacts (I-O-II)

Rated current	Contacts	Contacts way	Article No.	Type	Packing
16 A	2 CO	(I-O-II)	850126	Ex9BT3G 2CO 16A	1/6/72
25 A	2 CO	(I-O-II)	850127	Ex9BT3G 2CO 25A	1/6/72
32 A	2 CO	(I-O-II)	850128	Ex9BT3G 2CO 32A	1/6/72
40 A	2 CO	(I-O-II)	850129	Ex9BT3G 2CO 40A	1/6/72

Wiring diagrams



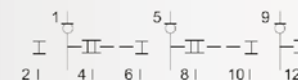
Change-Over Switch Ex9BT3G (40A)



3 Poles, 3 Change-Over contacts (I-O-II)

Rated current	Contacts	Contacts way	Article No.	Type	Packing
16 A	3 CO	(I-O-II)	850130	Ex9BT3G 3CO 16A	1/4/48
25 A	3 CO	(I-O-II)	850131	Ex9BT3G 3CO 25A	1/4/48
32 A	3 CO	(I-O-II)	850132	Ex9BT3G 3CO 32A	1/4/48
40 A	3 CO	(I-O-II)	850133	Ex9BT3G 3CO 40A	1/4/48

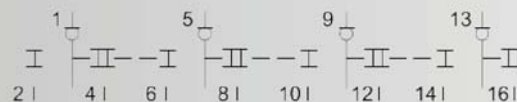
Wiring diagrams



4 Poles, 4 Change-Over contacts (I-O-II)

Rated current	Contacts	Contacts way	Article No.	Type	Packing
16 A	4 CO	(I-O-II)	850134	Ex9BT3G 4CO 16A	1/3/36
25 A	4 CO	(I-O-II)	850135	Ex9BT3G 4CO 25A	1/3/36
32 A	4 CO	(I-O-II)	850136	Ex9BT3G 4CO 32A	1/3/36
40 A	4 CO	(I-O-II)	850137	Ex9BT3G 4CO 40A	1/3/36

Wiring diagrams



Change-Over Switch Ex9BT3G (40A)

General parameters	
Modular change-over switches for switching of auxiliary, control, measuring and other circuits	
Utilization category AC-22A	
Contact form (I-O-II) allows a load to be manually changed from one electrical source to another and vice - versa	
Suitable for household as well as industrial applications	

Electrical parameters	
Tested according to	IEC EN 60947-3
Rated op. voltage	240 / 415 V AC
Rated frequency	50/60 Hz
Rated current I _e	63 A
Number of contacts	1, 2, 3, 4
Utilization category	AC-22A
Rated insulation voltage U _i	690 V
Maximum back-up fuse	125 A gG
Mechanical service life	8 500 operation cycles
Electrical service life	1 500 operation cycles

Mechanical parameters	
Device width	17.8 mm per pole
Device height	94 mm (97 mm including rail clip)
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Contact form	I-O-II
Terminals	lift
Terminal capacity	66 mm ²
Fastening torque of terminals	2.5 Nm
Ambient temperature	-5 – +40 °C
Altitude	≤ 2000 m
Relative humidity	≤ 95 %
Resistance to humidity and heat	class 2
Pollution degree	2
Installation class	III
Weight	0.073 kg (1 pole), 0.145 kg (2 pole), 0.218 kg (3 pole), 0.289 kg (4 pole)

Change-Over Switch Ex9BT3G 63A



- Group Change-Over switches
- Meet requirements of IEC EN 60947-3
- Rated current from 63 A
- Rated Operating voltage 240/415 V AC
- Utilization category AC-22A
- Contact form (I-O-II)
- 1 up to 4-pole versions
- Rated frequency 50/60 Hz

1-4 Pole, Change-Over contact (I-O-II)

Rated current	Contacts	Contacts way	Article No.	Type	Packing
63 A	1 CO	(I-O-II)	850188	Ex9BT3G 1CO 63 A	1/12/240
63 A	2 CO	(I-O-II)	850189	Ex9BT3G 2CO 63A	1/6/120
63 A	3 CO	(I-O-II)	850190	Ex9BT3G 3CO 63A	1/4/80
63 A	4 CO	(I-O-II)	850191	Ex9BT3G 4CO 63A	1/3/60

Change-Over Switch Ex9BT3G (63A)

General parameters	
Modular change-over switches for switching of auxiliary, control, measuring and other circuits	
Utilization category AC-22A	
Contact form (I-O-II) allows a load to be manually changed from one electrical source to another and vice - versa	
Suitable for household as well as industrial applications	

Electrical parameters	
Tested according to	IEC EN 60947-3
Rated op. voltage	240 / 415 V AC
Rated frequency	50/60 Hz
Rated current I _e	16, 25, 32, 40A
Number of contacts	1, 2, 3, 4
Utilization category	AC-22A
Rated insulation voltage U _i	690 V
Maximum back-up fuse	125 A gG
Mechanical service life	8 500 operation cycles
Electrical service life	1 500 operation cycles
Weight	70g

Mechanical parameters	
Device width	17.8 mm per pole
Device height	82 mm (88 mm including rail clip)
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Contact form	I-O-II
Terminals	lift
Terminal capacity	2.5 – 10 mm ²
Fastening torque of terminals	2.5 Nm
Ambient temperature	-5 – +40 °C
Altitude	≤ 2000 m
Relative humidity	≤ 95 %
Resistance to humidity and heat	class 2
Pollution degree	2
Installation class	III
Weight	0.073 kg (1 pole), 0.145 kg (2 pole), 0.218 kg (3 pole), 0.289 kg (4 pole)

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