

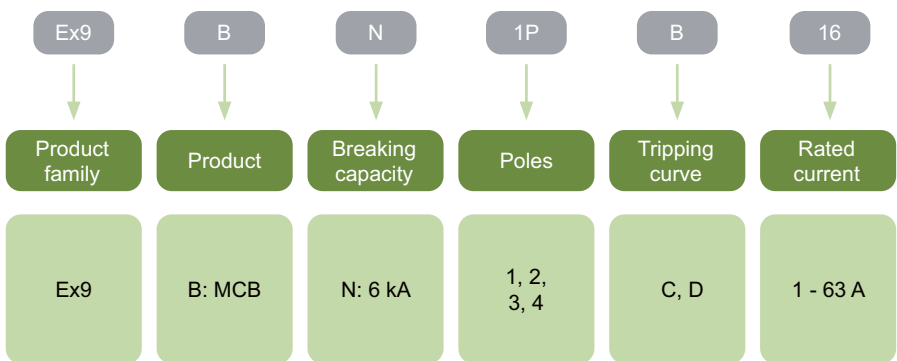
# Miniature Circuit Breakers Ex9BN, 6 kA



- 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
- 72 V DC per pole (1P, 2P)  
48 V DC per pole (3P, 4P)
- Wide range of accessories

Ex9BN miniature circuit breakers are suitable for domestic as well as industrial applications. They can be combined with wide range of accessories including auxiliary and signal contacts, shunt trip release, under-voltage and overvoltage release. It is possible to create diversified combination of accessories. These combinations are only limited by total number, not by the type of accessories - all components fit together. It can be used up to three units of auxiliary or alarm contacts plus up to two units for release units.

### Type Key



### Certification marks



# Miniature Circuit Breakers Ex9BN, 6 kA

## Accessories



Auxiliary or signal contacts  
**AX, AL, AXL**  
Up to 3 units

Voltage or trip releases  
**SHT, UVT, OVT**  
Up to 2 units

MCB  
**Ex9B**  
1, 2, 3, 4-pole

Auxiliary contacts AX3111, AX3122

see page 132

Alarm contact AL3111

see page 132

Auxiliary and alarm contact AXL31

see page 132

Shunt trip releases SHT31, SHT3111

see page 132

Undervoltage releases UVT31, UVT3101, UVT3110

see page 133

Overvoltage release OVT31

see page 133

the accessories are mounted to the MCBs from the left and are identical for devices of the line Ex9B, Ex9IP.

# Miniature Circuit Breakers Ex9BN, 6 kA

## C-Characteristic, 1-pole



Rated current	Poles	Char.	Part no.	Model	Packing
1A	1	C	100090	Ex9BN 1P C1A IEC	1/12/144
2A	1	C	100091	Ex9BN 1P C2A IEC	1/12/144
3A	1	C	100092	Ex9BN 1P C3A IEC	1/12/144
4A	1	C	100093	Ex9BN 1P C4A IEC	1/12/144
6A	1	C	100094	Ex9BN 1P C6A IEC	1/12/144
10A	1	C	100096	Ex9BN 1P C10A IEC	1/12/144
13A	1	C	100097	Ex9BN 1P C13A IEC	1/12/144
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, 2-pole



Rated current	Poles	Char.	Part no.	Model	Packing
1A	2	C	100120	Ex9BN 2P C1A IEC	1/6/72
2A	2	C	100121	Ex9BN 2P C2A IEC	1/6/72
3A	2	C	100122	Ex9BN 2P C3A IEC	1/6/72
4A	2	C	100123	Ex9BN 2P C4A IEC	1/6/72
6A	2	C	100124	Ex9BN 2P C6A IEC	1/6/72
10A	2	C	100126	Ex9BN 2P C10A IEC	1/6/72
16A	2	C	100128	Ex9BN 2P C16A IEC	1/6/72
20A	2	C	100129	Ex9BN 2P C20A IEC	1/6/72
25A	2	C	100130	Ex9BN 2P C25A IEC	1/6/72
32A	2	C	100131	Ex9BN 2P C32A IEC	1/6/72
40A	2	C	100132	Ex9BN 2P C40A IEC	1/6/72
50A	2	C	100133	Ex9BN 2P C50A IEC	1/6/72
63A	2	C	100134	Ex9BN 2P C63A IEC	1/6/72

# Miniature Circuit Breakers Ex9BN, 6 kA

## C-Characteristic, 3-pole



Rated current	Poles	Char.	Part no.	Model	Packing
1A	3	C	100135	Ex9BN 3P C1A IEC	1/4/48
2A	3	C	100136	Ex9BN 3P C2A IEC	1/4/48
3A	3	C	100137	Ex9BN 3P C3A IEC	1/4/48
4A	3	C	100138	Ex9BN 3P C4A IEC	1/4/48
6A	3	C	100139	Ex9BN 3P C6A IEC	1/4/48
10A	3	C	100141	Ex9BN 3P C10A IEC	1/4/48
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

# Miniature Circuit Breakers Ex9BN, 6 kA

## D-Characteristic, 3-pole



Rated current	Poles	Char.	Part no.	Model	Packing
1A	3	D	100225	Ex9BN 3P D1A IEC	1/4/48
2A	3	D	100226	Ex9BN 3P D2A IEC	1/4/48
3A	3	D	100227	Ex9BN 3P D3A IEC	1/4/48
4A	3	D	100228	Ex9BN 3P D4A IEC	1/4/48
6A	3	D	100229	Ex9BN 3P D6A IEC	1/4/48
10A	3	D	100231	Ex9BN 3P D10A IEC	1/4/48
16A	3	D	100233	Ex9BN 3P D16A IEC	1/4/48
20A	3	D	100234	Ex9BN 3P D20A IEC	1/4/48
25A	3	D	100235	Ex9BN 3P D25A IEC	1/4/48
32A	3	D	100236	Ex9BN 3P D32A IEC	1/4/48
40A	3	D	100237	Ex9BN 3P D40A IEC	1/4/48
50A	3	D	100238	Ex9BN 3P D50A IEC	1/4/48
63A	3	D	100239	Ex9BN 3P D63A IEC	1/4/48

# Technical Data Ex9BN

## Miniature Circuit Breakers, 6 kA

### General parameters

Very high limiting of short circuit current

Suitable for household as well as industrial applications

#### Accessories

Auxiliary contacts	AX3111, AX3122	
Alarm contact	AL3111	
Auxiliary and alarm contact	AXL31	
Shunt trip releases	SHT31, SHT3111	
Undervoltage releases	UVT31, UVT3101, UVT3110	
Oversvoltage release	OVT31 280V AC±5%	

Max. number of installed accessories is 3 pcs of one contact units (AX3111, AL3111) or 2 pcs of two contact units (AX3122, AXL31) and 2 pcs of releases (SHT31, UVT31, OVT31)

### Electrical parameters

Tested according to	AS/NZS 60898.1:2004
Rated op. voltage $U_e$	240/415 V AC
	72 V DC per pole (1P, 2P), 48 V DC per pole (3P, 4P)
Minimum voltage	12 V AC/DC
Rated impulse withstand voltage $U_{imp}$ according IEC 60898-1	6 kV
Rated impulse withstand voltage $U_{imp}$ according IEC 60947-2	6 kV
Rated insulation voltage $U_i$	690 V AC
Rated frequency	50/60 Hz
Rated breaking capacity $I_{cn}$ according IEC 60898-1	6 kA
Rated breaking capacity $I_{cn}$ according IEC 60947-2	10kA
Rated current	1 — 63 A
Tripping characteristics	B, C, D
Mechanical service life	20 000 operation cycles
Electrical service life	10 000 operation cycles
Selectivity class	3
Utilization category	A
Max. back-up fuse	max. 125 A gG
Line voltage connection	arbitrary above or below

### Wiring diagrams

