

DC Miniature Circuit Breakers Ex9BD

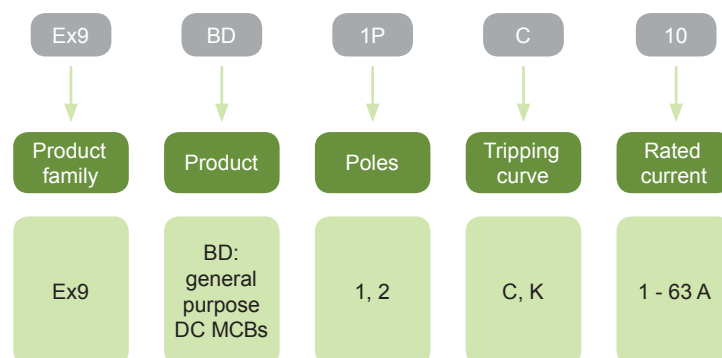


- General purpose DC Miniature Circuit Breakers
- Tested according to IEC / EN 60947-2
- Rated operating voltage U_n 220 V DC per pole
- Rated current 1 up to 63 A
- Rated short circuit breaking capacity I_{cu} 10 kA
- 1 and 2 pole versions
- Tripping characteristics C, K
- Wide range of accessories

General purpose DC Miniature Circuit Breakers Ex9BD are designed for general direct current applications. Due to their polarity dependence it is necessary to respect the polarity of the current.

For applications with varying polarity, as e.g. Photovoltaic, please use PV MCB line Ex9BP (see Catalogue of Photovoltaic Components).

Type Key



Certification marks



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Accessories



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

Voltage or trip releases
SHT, UVT
Up to 2 units

MCB
Ex9BD
1, 2-module width

Auxiliary contacts AX3111, AX3122

see page 72

Alarm contact AL3111

see page 72

Auxiliary and alarm contact AXL31

see page 72

Shunt trip releases SHT31, SHT3111

see page 72

Undervoltage releases UVT31, UVT3101, UVT3110

see page 73

All accessories are mounted to the MCBs Ex9BD from the left side and are identical for devices of the line Ex9B and Ex9PN.

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C-Characteristic, 1-pole, 220 V DC



| Rated current | Width | Char. | Article No. | Type | Packing |
|---------------|-------|-------|-------------|----------------|----------|
| 1 A | 1 MU | C | 103553 | Ex9BD 1P C 1A | 1/12/144 |
| 2 A | 1 MU | C | 103554 | Ex9BD 1P C 2A | 1/12/144 |
| 3 A | 1 MU | C | 103555 | Ex9BD 1P C 3A | 1/12/144 |
| 4 A | 1 MU | C | 103556 | Ex9BD 1P C 4A | 1/12/144 |
| 6 A | 1 MU | C | 103557 | Ex9BD 1P C 6A | 1/12/144 |
| 10 A | 1 MU | C | 103558 | Ex9BD 1P C 10A | 1/12/144 |
| 16 A | 1 MU | C | 103559 | Ex9BD 1P C 16A | 1/12/144 |
| 20 A | 1 MU | C | 103560 | Ex9BD 1P C 20A | 1/12/144 |
| 25 A | 1 MU | C | 103561 | Ex9BD 1P C 25A | 1/12/144 |
| 32 A | 1 MU | C | 103562 | Ex9BD 1P C 32A | 1/12/144 |
| 40 A | 1 MU | C | 103563 | Ex9BD 1P C 40A | 1/12/144 |
| 50 A | 1 MU | C | 103564 | Ex9BD 1P C 50A | 1/12/144 |
| 63 A | 1 MU | C | 103565 | Ex9BD 1P C 63A | 1/12/144 |

C-Characteristic, 2-pole, 440 V DC



| Rated current | Width | Char. | Article No. | Type | Packing |
|---------------|-------|-------|-------------|----------------|---------|
| 1 A | 2 MU | C | 103566 | Ex9BD 2P C 1A | 1/6/72 |
| 2 A | 2 MU | C | 103567 | Ex9BD 2P C 2A | 1/6/72 |
| 3 A | 2 MU | C | 103568 | Ex9BD 2P C 3A | 1/6/72 |
| 4 A | 2 MU | C | 103569 | Ex9BD 2P C 4A | 1/6/72 |
| 6 A | 2 MU | C | 103570 | Ex9BD 2P C 6A | 1/6/72 |
| 10 A | 2 MU | C | 103571 | Ex9BD 2P C 10A | 1/6/72 |
| 16 A | 2 MU | C | 103572 | Ex9BD 2P C 16A | 1/6/72 |
| 20 A | 2 MU | C | 103573 | Ex9BD 2P C 20A | 1/6/72 |
| 25 A | 2 MU | C | 103574 | Ex9BD 2P C 25A | 1/6/72 |
| 32 A | 2 MU | C | 103575 | Ex9BD 2P C 32A | 1/6/72 |
| 40 A | 2 MU | C | 103576 | Ex9BD 2P C 40A | 1/6/72 |
| 50 A | 2 MU | C | 103577 | Ex9BD 2P C 50A | 1/6/72 |
| 63 A | 2 MU | C | 103578 | Ex9BD 2P C 63A | 1/6/72 |

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K-Characteristic, 1-pole, 220 V DC



| Rated current | Width | Char. | Article No. | Type | Packing |
|---------------|-------|-------|-------------|----------------|----------|
| 1 A | 1 MU | K | 103605 | Ex9BD 1P K 1A | 1/12/144 |
| 2 A | 1 MU | K | 103606 | Ex9BD 1P K 2A | 1/12/144 |
| 3 A | 1 MU | K | 103607 | Ex9BD 1P K 3A | 1/12/144 |
| 4 A | 1 MU | K | 103608 | Ex9BD 1P K 4A | 1/12/144 |
| 6 A | 1 MU | K | 103609 | Ex9BD 1P K 6A | 1/12/144 |
| 10 A | 1 MU | K | 103610 | Ex9BD 1P K 10A | 1/12/144 |
| 16 A | 1 MU | K | 103611 | Ex9BD 1P K 16A | 1/12/144 |
| 20 A | 1 MU | K | 103612 | Ex9BD 1P K 20A | 1/12/144 |
| 25 A | 1 MU | K | 103613 | Ex9BD 1P K 25A | 1/12/144 |
| 32 A | 1 MU | K | 103614 | Ex9BD 1P K 32A | 1/12/144 |
| 40 A | 1 MU | K | 103615 | Ex9BD 1P K 40A | 1/12/144 |
| 50 A | 1 MU | K | 103616 | Ex9BD 1P K 50A | 1/12/144 |
| 63 A | 1 MU | K | 103617 | Ex9BD 1P K 63A | 1/12/144 |

K-Characteristic, 2-pole, 440 V DC



| Rated current | Width | Char. | Article No. | Type | Packing |
|---------------|-------|-------|-------------|----------------|---------|
| 1 A | 2 MU | K | 103618 | Ex9BD 2P K 1A | 1/6/72 |
| 2 A | 2 MU | K | 103619 | Ex9BD 2P K 2A | 1/6/72 |
| 3 A | 2 MU | K | 103620 | Ex9BD 2P K 3A | 1/6/72 |
| 4 A | 2 MU | K | 103621 | Ex9BD 2P K 4A | 1/6/72 |
| 6 A | 2 MU | K | 103622 | Ex9BD 2P K 6A | 1/6/72 |
| 10 A | 2 MU | K | 103623 | Ex9BD 2P K 10A | 1/6/72 |
| 16 A | 2 MU | K | 103624 | Ex9BD 2P K 16A | 1/6/72 |
| 20 A | 2 MU | K | 103625 | Ex9BD 2P K 20A | 1/6/72 |
| 25 A | 2 MU | K | 103626 | Ex9BD 2P K 25A | 1/6/72 |
| 32 A | 2 MU | K | 103627 | Ex9BD 2P K 32A | 1/6/72 |
| 40 A | 2 MU | K | 103628 | Ex9BD 2P K 40A | 1/6/72 |
| 50 A | 2 MU | K | 103629 | Ex9BD 2P K 50A | 1/6/72 |
| 63 A | 2 MU | K | 103630 | Ex9BD 2P K 63A | 1/6/72 |