



DIN Rail Miniature Circuit Breakers - UL489

NOARK Miniature Circuit Breakers offer these advantages: high-performance, small size, excellent protection, easy DIN rail installation, fast wiring utilizing double terminal technology and ring tongue terminals. The integrated captive connecting screws simplify the connection process.

NOARK MCBs fulfill North American and global approval requirements. The NOARK B1H/B1N/B1D series is UL listed for 489 applications, as well as CSA C 22.2 No. 5.

Additionally, the NOARK B1E Series comply with UL 1077 for Supplemental Protector applications while also complying with both CSA 22.2 No. 235, IEC 60947-2 and UL 486 standards for connection terminals which allows the user to apply field wiring directly to the breaker. Inquire with ITC for more details on the B1E series.

Features and specifications:

- Three Terminal Options:
 - o Box Lug
 - o Ring Tongue Terminal
 - o Quick Connect
- Multiple Accessories
 - o Extended rotary handle
 - o Electrical auxiliaries: auxiliary, shunt trip, under-voltage trip
 - o Jumper combs
 - Locking device
- Flexible Terminals
 - o Less physical demand
 - o Detachable shield to make it faster and easier for installer
- Status indicator (red/green)
- Module width: 18mm (0.71") per pole
- No. of poles: 1, 2, 3
- Voltage Ratings: AC: 120, 240, 277, 480Y/277
- Amperage ratings: 0.5~63 A
- Trip Curves: B, C, D
- Interupting capacity: 10 kA
- Approvals: cULus (UL 489, CSA 22.2 No. 5-16, IEC 60947-2); # E355392







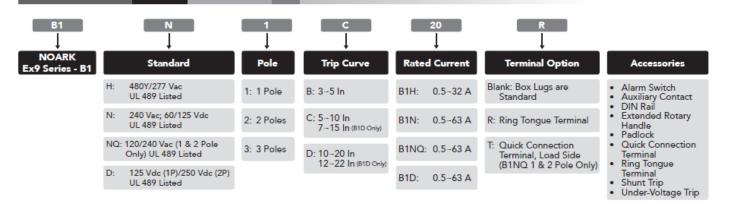
DC: 60, 125, 250



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| | | B1H | | | B1N | | | B1NQ | | B1D | | |
|--|---|--|-------|-----|--------------------|---------------------------|-------------|--------|---------|---------------------------|----|--|
| Conformed Standard | | | | | - | | UL 489 | | | | | |
| Number of Poles | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | |
| Rated Operational Voltage (V) | | 480Y/277 Vac | | | 240 Vac 125 Vdc | 240 Vac | 120/240 Vac | | 125 Vdc | 250 Vdc | | |
| Rated Frequency (Hz) | | 50/60 - | | | | | | | | - | | |
| Rated Current (A) | | | 0.532 | | 0.563 | | | | | | | |
| Instantaneous Tripping Type | | B (3-5 In), C (5 | | | | C (5-10 ln), D (10-20 ln) | | | | C (7-15 ln), D (12-22 ln) | | |
| Interrupting (kA) | 120 Vac | | | - | | | - | | 0 | | | |
| | 240 Vac | 10 | | | | 10 | | 10 | | | | |
| | 277 Vac | | 10 | | | | | | | | | |
| | 480Y/277 Vac | - | | | | | | - | | | | |
| | 60 Vdc | | | | 10 | 10 | - | | | | | |
| | 125 Vdc | | - | | - | 10 | | | - | 10 | - | |
| | 250 Vdc | | | | | | | | | | 10 | |
| Inverse Time-Delay Over-Current Release Type | | Thermal-Magnetic | | | | | | | | | | |
| Service Life | Electrical | 10,000 | | | | | | 6,000 | | | | |
| Service Lite | Mechanical | | | 20, | 000 | | | 10,000 | | | | |
| Protection Degree | | IP 20 | | | | | | | | | | |
| Wire AWG (mm ²) | Single Wire | 184 (0.7525) | | | | | | | | | | |
| wire AwG (mm ⁻) | Two Wires | 186 (0.7516 / 1410 (2.56) | | | | | | | | | | |
| Operating Temperature Range | | -22 °F to 167 °F (-30 °C to +75 °C) | | | | | | | | | | |
| Insulation | Rated Insulation Voltage (V) | 500 | | | | | | | | | | |
| Coordination | Rated Impulse Withstand Voltage (kV) | 6 | | | | | | | | | | |
| Pollution Degree | | Class III | | | | | | | | | | |
| Over Voltage Category | | Class III | | | | | | | | | | |
| Mounting | | 35 mm DIN rail / Flush and surface mount available on B1NQ with the use of additional mounting clips | | | | | | | | | | |
| Altitude ft (m) | | Does not exceed 6,561 (2,000) | | | | | | | | | | |
| Atmospheric Conditions | | At 68 °F (+20), the relative humidity does not exceed 90% At 104 °F (+40), the relative humidity does not exceed 50% | | | | | | | | | | |

Product Selection Guide



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