


NOARK

# B1E1C50

MCB UL1077 - 1000459 - 1P - 50A - C-curve - 5kA - 277Vac/125Vdc

Miniature Circuit Breaker (MCB) / supplementary protector - UL 1077 - NOARK (B1E series) - 50A rated current - C-curve - 1-pole (1P) - 5kA (277Vac) / 10kA (60Vdc) interrupting rating - 277Vac / 125Vdc rated voltage - box lug connections - DIN rail mounting (35mm width) - equivalent to 1000459

## Additional information

The technical information provided in the datasheet is subject to change without notice. For confirmation, please contact NOARK's product support team.

## Specifications

| | |
|---|---|
| **Primary brand** | NOARK |
| **Main function** | Miniature Circuit Breaker (MCB) |
| **Product series / family name** | Electrical protection > Circuit breakers > Miniature Circuit Breakers (MCBs) > UL1077 |
| **Sub-range name** | B1E series |
| **Network frequency** | 50/60 Hz |
| **Functions** | Miniature Circuit Breaker (MCB) / supplementary protector |
| **Design** | Thermal-Magnetic inverse time-delay over-current release type<br>"C" Tripping curve (thermal overload trip occurs at currents ranging from 5 to 10 x the nominal current) |
| **Poles** | 1-pole (1P) |
| **Rated current** | 50A |
| **Rated Voltage (DC)** | 125Vdc |
| **Rated voltage (AC)** | 277Vac |
| **Rated impulse voltage (Uimp)** | 6 kV |
| **Rated insulation voltage (Ui)** | 500 V |
| **Connection type** | box lug connections |
| **Cross-section** | for #18AWG...#4AWG / 0.75mm2...25mm2 conductors |
| **Tripping curve** | C |

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| | |
|---|---|
| **Short circuit breaking rating** | 10kA (120Vac)<br>10kA (240Vac)<br>5kA (277Vac)<br>10kA (60Vdc) |
| **Protection functions** | Overvoltage III |
| **Mounting mode** | DIN rail |
| **Degree of protection** | IP20 |
| **Dimensions** | H89.4mm x W17.8mm x D76mm<br>H3.52" x W0.7" x D2.99" |
| **Net Width (mm)** | 35 mm |
| **Ambient air temperature for operation** | -22˚F...+167˚F / -30˚C...+75 ˚C |
| **Climatic resistance** | At +68˚F (+20˚C) the relative humidity does not exceed 90%<br>At +104˚F (+40˚C) the relative humidity does not exceed 50%<br>Altitude does not exceed 6561ft (2000m) |
| **Electrical durability (with load)** | 6000 operations |
| **Mechanical durability (at no load)** | 20000 operations |
| **Order code / Manufacturer SKU** | B1E1C50<br>1000459 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1000459 |
| **Compliant with standard(s)** | UL 1077<br>CSA C22.2 no.235<br>UL Recognized for use in the United States in accordance with NFPA70 (NEC)<br>UL 1077 (file number E355391)<br>IEC 60947-2<br>CE marking<br>RoHS compliant |
| **Degree of pollution** | 3<br>III |
| **Application type** | Supplementary Protection<br>- Control circuits<br>- Lighting<br>- Business equipment<br>- Appliances |

## Benefits

- Breakers mount on standard 35mm DIN rail
- Thermal-magnetic over current protection - three levels of protection, categorized by B / C and D curves
- Fulfills UL 1077, IEC 60947-2 standard

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- Field-installable shunt trip and auxiliary switch up to 63A
- Module width of only 0.71 in (18 mm) per pole
- Contact position indicator (red/green)

## Documents

E-PLAN - NOARK - B1E1C50 - Part details

NOARK - DIN Rail Miniature Circuit Breakers - Ex9 B1 series - Datasheet.pdf

Access to all NOARK drawings

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