


NOARK

# B1D1C30

MCB UL489 - 1002381 - 1P - 30A - C-curve - 10kA - 125Vdc

Miniature Circuit Breaker (MCB) - UL 489 - NOARK (B1D series) - 30A rated current - C-curve - 1-pole (1P) - 10kA (125Vdc) interrupting rating - 125Vdc rated voltage - box lug connections - DIN rail mounting (35mm width) - equivalent to 1002381

## 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) > UL489 > for DC applications |
| **Sub-range name** | B1D series |
| **Functions** | Miniature Circuit Breaker (MCB) |
| **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** | 30A |
| **Rated Voltage (DC)** | 125Vdc |
| **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 (when using a single conductor per lug)<br>for #18AWG...#6AWG / 0.75mm2...16mm2 conductors (when using 2 conductors per lug) |
| **Tripping curve** | C |
| **Short circuit breaking rating** | 10kA (125Vdc) |

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|---|---|
| **Protection functions** | Overvoltage III |
| **Mounting mode** | DIN rail |
| **Degree of protection** | IP20 |
| **Dimensions** | H109.3mm x W17.8mm x D76mm<br>H4.3" 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)** | 10000 operations |
| **Order code / Manufacturer SKU** | B1D1C30<br>1002381 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1002381 |
| **Compliant with standard(s)** | UL 489<br>CSA C22.2 no.5-16<br>UL 489 (file number E355392)<br>UL 486<br>IEC 60947-2<br>RoHS compliant |
| **Degree of pollution** | 3<br>III |
| **Application type** | Branch Circuit Protection<br>- Convenience receptacle circuits (internal/external)<br>- Motor control circuits<br>- Load circuits leaving the equipment (external)<br>- HVACR equipment -- heating / ventilation / air conditioning / refrigeration (internal/external)<br>- PLC I/O points<br>- Power supplies<br>- Control instrumentation<br>- Relays<br>- UPS<br>- Power conditioners |

## Benefits

- Complete range of UL 489 listed miniature circuit breakers up to a 63A current rating
- Breakers mount on standard 35mm DIN rail - B1NQ also provides a flush and surface mount options with additional mounting clips
- Standard ratings of 10kA at 480Y/277Vac and 10kA at 125Vdc

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- Suitable for branch circuit device protection
- Trip-free design - breaker cannot be defeated by holding the handle in the ON position
- Captive screws cannot be lost
- For use in applications for which UL 489 is allowed
- Field installable shunt trip and auxiliary switch subsequent mounting
- Available with provisions for ring tongue terminals
- Module width of only 0.71 in (18 mm) per pole
- Contact position indicator (red/green)
- Possibility for locking the toggle in ON or OFF position

## Documents

E-PLAN - NOARK - B1D1C30 - Part details

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

Access to all NOARK drawings

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