

NOARK

B1D1D20

MCB UL489 - 1002402 - 1P - 20A - D-curve - 10kA - 125Vdc

Miniature Circuit Breaker (MCB) - UL 489 - NOARK (B1D series) - 20A rated current - D-curve - 1-pole (1P) - 10kA (125Vdc) interrupting rating - 125Vdc rated voltage - box lug connections - DIN rail mounting (35mm width) - equivalent to 1002402

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 "D" Tripping curve (thermal overload trip occurs at currents ranging from 10 to 20 x the nominal current)
Poles	1-pole (1P)
Rated current	20A
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) for #18AWG...#6AWG / 0.75mm2...16mm2 conductors (when using 2 conductors per lug)
Tripping curve	D
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 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% At +104˚F (+40˚C) the relative humidity does not exceed 50% Altitude does not exceed 6561ft (2000m)
Electrical durability (with load)	6000 operations
Mechanical durability (at no load)	10000 operations
Order code / Manufacturer SKU	B1D1D20 1002402
Manufacturer product status	Commercialized
Equivalent to	1002402
Compliant with standard(s)	UL 489 CSA C22.2 no.5-16 UL 489 (file number E355392) UL 486 IEC 60947-2 RoHS compliant
Degree of pollution	3 III
Application type	Branch Circuit Protection - Convenience receptacle circuits (internal/external) - Motor control circuits - Load circuits leaving the equipment (external) - HVACR equipment -- heating / ventilation / air conditioning / refrigeration (internal/external) - PLC I/O points - Power supplies - Control instrumentation - Relays - UPS - 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 - B1D1D20 - Part details

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

Access to all NOARK drawings

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