

NOARK

B1NQ1C45

MCB UL489 - 1001643 - 1P - 45A - C-curve - 10kA - 120Vac/240Vac

Miniature Circuit Breaker (MCB) - UL 489 - NOARK (B1NQ series) - 45A rated current - C-curve - 1-pole (1P) - 10kA (120Vac) / 10kA (240Vac) interrupting rating - 120Vac/240Vac rated voltage - box lug connections - DIN rail mounting (35mm width) - equivalent to 1001643

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 AC applications
Sub-range name	B1NQ series
Network frequency	50/60 Hz
Functions	Miniature Circuit Breaker (MCB)
Design	Thermal-Magnetic inverse time-delay over-current release type "C" Tripping curve (thermal overload trip occurs at currents ranging from 5 to 10 x the nominal current)
Poles	1-pole (1P)
Rated current	45A
Rated voltage (AC)	120Vac/240Vac
Rated impulse voltage (Uimp)	6 kV
Rated insulation voltage (Ui)	500 V
Connection type	box lug connections
Cross-section	for #14AWG...#4AWG / 2.5mm2...25mm2 conductors (when using a single conductor per lug) for #14AWG...#6AWG / 2.5mm2...16mm2 conductors (when using 2 conductors per lug)
Tripping curve	C

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Short circuit breaking rating	10kA (120Vac) 10kA (240Vac) 10kA (60Vdc)
Protection functions	Overvoltage III
Mounting mode	DIN rail Flush and surface mount available with the use of additional mounting clips
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	B1NQ1C45 1001643
Manufacturer product status	Commercialized
Equivalent to	1001643
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

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- Breakers mount on standard 35mm DIN rail
- Can be used in UL 1077 or CSA C22.2 No.235 applications
- Field installable shunt trip and auxiliary switch
- 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

NOARK - DIN Rail Miniature Circuit Breakers - Ex9 B1NQ series - Datasheet.pdf

Access to all NOARK drawings

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