

NOARK

Ex9RE40B0.5

Electronic Overload Relay (EOR) - 1420049 - Ex9RE - 40A frame - 0.1-0.5A setting - class 5/10/20/30

Electronic Overload Relay (EOR) - NOARK (Ex9RE series) - 0.1A...0.5A current setting range - 110Vac (50/60Hz) supply voltage - 3-poles (3P) - 1NO+1NC (1 Normally Open + 1 Normally Closed) aux. contacts - Screw-clamp connections - Direct mounting - frame size 40AF - IP20 - equivalent to Ex9RE40B05 / 1420049

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	Electronic Overload Relay (EOR)
Product series / family name	Industrial controls > Overload relays
Sub-range name	Ex9RE series
Functions	Electronic Overload Relay (EOR) Manual reset function 120s fixed automatic reset function TEST and STOP pushbutton Status and fault signalling (2 x LEDs)
Poles	3-poles (3P)
Supply voltage (AC)	110Vac (50/60Hz)
Display	2 x LEDs (status and fault signalling)
Rated current	0.1A...0.5A current setting range Contacts ratings 3A rated operating current (at 250Vac; AC-15; aux. contact) 3A rated operating current (at 30Vdc; DC-13; aux. contact) 3A (conventional thermal current; Ith)
Rated impulse voltage (Uimp)	6 kV
Rated insulation voltage (Ui)	(IEC) 690 V (UL/CSA) 600 V (IEC; auxiliary contact) 250 V

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Connection type	Screw-clamp connections M4 screw connection (main power) M3 screw connections (aux. contact)
Cross-section	#18AWG...#8AWG / 1mm2...10mm2 conductors (main power connection; flexible cable) #18AWG / 1mm2 conductors (auxiliary contact terminal connection; flexible cable) 2 x #12AWG / 2.5mm2 conductors (auxiliary contact terminal connection; flexible cable) #18AWG / 1mm2 conductors (auxiliary contact terminal connection; flexible cable with cable end) 1 x #16AWG / 1.5mm2 + 1 x #12AWG / 2.5mm2 conductors (auxiliary contact terminal connection; flexible cable with cable end)
Short circuit breaking rating	25kA (at 600Vac with MCCB M1; at 600Vac max. with fuse) 100kA (at 480Vac with MCCB M1; at 600Vac max. with fuse)
Protection functions	Adjustable electronic protection (Overload) Class 5 / Class 10 / Class 20 / Class 30 Short-circuit protection Phase failure protection Stall and jam protection
Protection settings	Protection against electronic overload -- 0.1A...0.5A (adjustable) Phase failure -- 0.36 x In sensitivity (current unbalance; trip in 2s) Stall and jam protection -- 4.8 x FLA (trip in 3s)
Mounting mode	Direct mounting
Contacts type	1NO+1NC (1 Normally Open + 1 Normally Closed) aux. contacts
Degree of protection	IP20
Dimensions	frame size 40AF H2.76" x W1.77" x D2.82" H70.1mm x W45mm x D71.8mm
Ambient air temperature for operation	-13...+104˚F / -25...+40 ˚C
Ambient air temperature for storage	-67...+176˚F / -55...+80 ˚C
Minimum current	0.1 A
Maximum current	0.5 A
Order code / Manufacturer SKU	Ex9RE40B0.5 1420049
Manufacturer product status	Commercialized
Equivalent to	Ex9RE40B05 1420049

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Compliant with standard(s)	Vibration resistance - 4gn for all 3 axes Shock resistance - 15gn for 11ms; for all 3 axes UL 60947-4-1 UL 60947-5-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 CB CE CCC GB/T 14048.4 GB/T 14048.5
Class	5/10/20/30
Tightening torque	(main power connection) 2 N.m (auxiliary contact connection) 0.8 N.m
Application type	2000m / 6562ft max. operating altitude

Benefits

NOARK Electric Ex9RE40 electronic thermal overload relays are designed to provide dependable and accurate protection for motors if an overload or phase failure occur.
They also offer jam, stall and current unbalance protection.
The Ex9RE40 is available with coil voltages of 24Vac/dc, 110Vac and 220Vac with current ranges from 0.1A to 40A.
Each unit has selectable trip class settings of 5, 10, 20 and 30 providing a wide range of coverage with fewer products.
They are also equipped with integrated diagnostics via LED lights to allow for quick status identification.
Control settings are protected by a clear plastic cover.

- Coil voltages 24Vac/dc, 110Vac, 220Vac
- Available in 4 current ranges 0.1-0.5A, 0.4-2A, 1.8-9A, 8-40A
- Integrated diagnostics with LED indicators
- Selectable trip class 5, 10, 20, 30
- 1NO + 1NC auxiliary contact
- Manual or automatic reset
- Compact 45mm size
- Easily mounts on NOARK Ex9C 09-38 A contactor or on DIN 35mm
- 5 year limited warranty

Documents

E-PLAN - NOARK - Ex9RE40B0.5 - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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