

NOARK

Ex9R100B104A

Thermal overload relay (TOR) - 1420046 - Ex9R - 100A frame - 80-104A setting - class 10 - direct mount

Thermal overload relay (TOR) - NOARK (Ex9R series) - 80A...104A current setting range - 3-poles (3P) - 1NO+1NC (1 Normally Open + 1 Normally Closed) aux. contacts - Screw-clamp connections - Direct mounting - frame size 100AF - compatible with 40-100A Ex9C devices - equivalent to 1420046

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	Thermal Overload Relay (TOR)
Product series / family name	Industrial controls > Overload relays
Sub-range name	Ex9R series
Network frequency	50/60 Hz
Functions	Thermal overload relay (TOR) Automatic / manual reset function Temperature compensation Tripping indicator TEST and STOP pushbutton
Poles	3-poles (3P)
Rated current	80A...104A current setting range Contacts ratings 1.64A rated operating current (at 220Vac; AC-15; aux. contact) 0.95A rated operating current (at 380Vac; AC-15; aux. contact) 0.13A rated operating current (at 220Vdc; DC-13; aux. contact) 5A (continuous; at 600Vac; aux. contacts) 1A (continuous; at 300Vdc; aux. contacts)
Rated operating voltage (Ue)	600 V
Rated impulse voltage (Uimp)	6 kV
Connection type	Screw-clamp connections 18mm stripping length (main power connections) 11mm stripping length (aux. contact connections)

All rights reserved 2016-2026 to KYKLO and products.na.noark-electric.com

Cross-section	#12AWG...#10AWG / 4mm2...6mm2 conductors (main power connection; rigid cable) #8AWG...#1AWG / 10mm2...50mm2 conductors (main power connection; flexible cable) #18AWG...#12AWG / 1mm2...2.5mm2 conductors (auxiliary contact terminal connection)
Short circuit breaking rating	10kA (3-phase at 600Vac)
Protection functions	Adjustable thermal protection (Overload) Class 10A Phase failure protection
Protection settings	Protection against thermal overload -- 80A...104A (adjustable) Phase failure -- 0.3 x In sensitivity
Mounting mode	Direct mounting
Contacts type	1NO+1NC (1 Normally Open + 1 Normally Closed) aux. contacts
Dimensions	frame size 100AF H3.15" x W2.83" x D4.61" H80mm x W72mm x D117mm
Technical compatibility with	40-100A Ex9C devices
Minimum current	80 A
Maximum current	104 A
Order code / Manufacturer SKU	Ex9R100B104A 1420046
Manufacturer product status	Commercialized
Equivalent to	1420046
Compliant with standard(s)	UL listed (file number E353865) UL 60947-1 UL 60947-4-1 IEC/EN 60947-4-1 cUL CE CCC CSA
Class	10
Tightening torque	(main power connection) 9 N.m (auxiliary contact connection) 1.7 N.m
Degree of pollution	III
Application type	2000m / 6562ft max. operating altitude

Benefits

- For use with Ex9C and Ex9CR
- Rated current up to 500A at 600Vac, 50/60Hz
- Overload protection trip Class 10 and Class 10A

All rights reserved 2016-2026 to KYKLO and products.na.noark-electric.com

- Phase loss sensitivity
- Adjustable current setting for overload protection
- Automatic or manual reset selectable
- Status indication
- STOP and TEST function
- Direct mount to contactors or 35mm DIN rail mounting base option
- 5-year limited warranty

Documents

E-PLAN - NOARK - Ex9R100B104A - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

All rights reserved 2016-2026 to KYKLO and products.na.noark-electric.com