

NOARK

# Ex9R100B65A

Thermal overload relay (TOR) - 1420028 - Ex9R - 100A frame - 48-65A setting - class 10 - direct mount

Thermal overload relay (TOR) - NOARK (Ex9R series) - 48A...65A 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 1420028

## 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

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|---|---|
| **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)<br>Automatic / manual reset function<br>Temperature compensation<br>Tripping indicator<br>TEST and STOP pushbutton |
| **Poles** | 3-poles (3P) |
| **Rated current** | 48A...65A current setting range<br><br>Contacts ratings<br>1.64A rated operating current (at 220Vac; AC-15; aux. contact)<br>0.95A rated operating current (at 380Vac; AC-15; aux. contact)<br>0.13A rated operating current (at 220Vdc; DC-13; aux. contact)<br>5A (continuous; at 600Vac; aux. contacts)<br>1A (continuous; at 300Vdc; aux. contacts) |
| **Rated operating voltage (Ue)** | 600 V |
| **Rated impulse voltage (Uimp)** | 6 kV |
| **Connection type** | Screw-clamp connections<br>18mm stripping length (main power connections)<br>11mm stripping length (aux. contact connections) |

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| | |
|---|---|
| **Cross-section** | #12AWG...#10AWG / 4mm2...6mm2 conductors (main power connection; rigid cable)<br>#8AWG...#1AWG / 10mm2...50mm2 conductors (main power connection; flexible cable)<br>#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<br>Phase failure protection |
| **Protection settings** | Protection against thermal overload -- 48A...65A (adjustable)<br>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<br>H3.15" x W2.83" x D4.61"<br>H80mm x W72mm x D117mm |
| **Technical compatibility with** | 40-100A Ex9C devices |
| **Minimum current** | 48 A |
| **Maximum current** | 65 A |
| **Order code / Manufacturer SKU** | Ex9R100B65A<br>1420028 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1420028 |
| **Compliant with standard(s)** | UL listed (file number E353865)<br>UL 60947-1<br>UL 60947-4-1<br>IEC/EN 60947-4-1<br>cUL<br>CE<br>CCC<br>CSA |
| **Class** | 10 |
| **Tightening torque** | (main power connection) 9 N.m<br>(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

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- 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 - Ex9R100B65A - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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