


NOARK

# Ex9RCA13DES

Safety control relay - 1321890 - Ex9RCA - built-in surge suppression - 48Vdc coil - 1NO+3NC aux. contacts

Safety control relay with built-in surge suppression - NOARK (Ex9RCA series) - 4-poles (4P) - 38.4-52.8Vdc (48Vdc nom.; 0.8...1.1 x Us) supply voltage - 1NO+3NC aux. contact - IP20 - equivalent to 1321890

## 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** | Safety relay |
| **Product series / family name** | Industrial controls > Relays > Safety relays |
| **Sub-range name** | Ex9RCA series |
| **Functions** | Safety control relay |
| **Design** | built-in surge suppression |
| **Poles** | 4-poles (4P) |
| **Supply voltage (DC)** | 38.4-52.8Vdc (48Vdc nom.; 0.8...1.1 x Us)<br>4.8-36Vdc drop-off (0.1...0.75 x Us) |

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|---|---|
| **Rated current** | 10A (continuous)<br>600A (switching capacity)<br>6A (120Vac; AC-15)<br>3A (230Vac; AC-15)<br>3A (240Vac; AC-15)<br>1.9A (400Vac; AC-15)<br>1.5A (480Vac; AC-15)<br>1.4A (500Vac; AC-15)<br>1.2A (600Vac; AC-15)<br>5A (24Vdc; DC-13; main poles)<br>2.5A (48Vdc; DC-13; main poles)<br>1.1A (110Vdc; DC-13; main poles)<br>0.55A (220Vdc; DC-13; main poles)<br>0.3A (440Vdc; DC-13; main poles)<br>0.2A (600Vdc; DC-13; main poles)<br>2.8A (24Vdc; AC-13; auxiliary poles)<br>1.2A (48Vdc; AC-13; auxiliary poles)<br>0.55A (110Vdc; AC-13; auxiliary poles)<br>0.27A (220Vdc; AC-13; auxiliary poles)<br>0.15A (440Vdc; AC-13; auxiliary poles)<br>0.1A (600Vdc; AC-13; auxiliary poles)<br>10A (Ith conventional free air thermal current at 40˚C ambient)<br>10A (Ith conventional free air thermal current at 60˚C ambient) |
| **Rated Voltage (DC)** | 600Vdc (load carrying capacity per UL) |
| **Rated impulse voltage (Uimp)** | 6 kV |
| **Rated insulation voltage (Ui)** | (IEC) 690 V<br>(UL / CSA) 600 V |
| **Normally Open (NO) auxliary contacts** | 1 NO contacts |
| **Normally Closed (NC) auxiliary contacts** | 3 NC contacts |
| **Response time** | (closing delay) 25-40ms / 0.025-0.04 s<br>(opening delay) 10-15ms / 0.01-0.015 s |
| **Contacts type** | 1NO+3NC (1 Normally Open + 3 Normally Closed) aux. contacts<br>11-12 NC<br>21-22 NC<br>33-34 NO<br>41-42 NC |
| **Degree of protection** | IP20 |
| **Dimensions** | H58mm x W45mm x D73mm<br>H2.28" x W1.77" x D2.87" |
| **Ambient air temperature for operation** | -4˚F...+140˚F / -20˚C...+60 ˚C |
| **Ambient air temperature for storage** | -76˚F...+176˚F / -60˚C...+80 ˚C |
| **Power consumption** | (hold-in) 3.2-4 W<br>(pick-up) 3.2-4 W |

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|---|---|
| **Order code / Manufacturer SKU** | Ex9RCA13DE<br>1321890 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1321890 |
| **Compliant with standard(s)** | UL 60947-1 (file number E353865)<br>IEC/EN 60947-5-1<br>CSA<br>CE<br>CCC<br>RoHS<br>GB/T 14048.4 |

## Benefits

The new NOARK Electric Ex9RCA Safety Control Relay is designed to provide fail-safe performance for safety function applications.
It features mechanically linked contacts for use on safety feedback circuits with up to 6NCs in contact configuration.
When installed the normally closed contact is force guided with the normally open contacts making he Ex9RCA ideal for SRP/CS.
- Force guided/mechanically linked contacts as per IEC/UL60947-5-1 Annex L
- Mechanically linked contacts symbol prominently displayed on red front cover
- Fixed transparent anti-dust cover allows easy identification of device action and prevents manual operation
- AC or DC operating coils 4-pole models
- Extended contacts configuration up to 8-poles with permanent front block
- Easily mounts on DIN 35mm or panel
- 5 year limited warranty

## Documents

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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