



Output coupler Optocoupler 1 NO, Transistor, 24 V DC Output max. 30 V DC, 2 A short circuit-proof Spring-type terminal (push-in) Overall width 6.2 mm Thermal current 2A

| | |
|---|---|
| product brand name | SIRIUS |
| product category | SIRIUS 3RQ3 coupling relays in slim design |
| product designation | Coupling relays with semiconductor output (not plug-in) |
| design of the product | Output coupling link |
| product type designation | 3RQ3 |
| General technical data | |
| display version LED | Yes |
| product feature protective coating on printed-circuit board | No |
| product component | |
| • relay output | No |
| • semi-conductor output | Yes |
| consumed active power | 0.3 W |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 50 V |
| surge voltage resistance rated value | 2.5 kV |
| flammability class of enclosure material | UL94 V-0 |
| shock resistance | |
| • according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance | |
| • according to IEC 60068-2-6 | 6 ... 150 Hz: 2 g |
| switching frequency | 100 Hz |
| thermal current | 2 A |
| reference code according to IEC 81346-2 | K |
| Substance Prohibitance (Date) | 03/25/2015 |
| Weight | 0.03 kg |
| Control circuit/ Control | |
| control supply voltage at DC rated value | 11 ... 30 V |
| operating range factor control supply voltage rated value at DC | |
| • initial value | 1 |
| • full-scale value | 1 |
| minimum switching voltage when switching on | 11 V |
| maximum switching voltage when switching off | 5 V |
| ON-delay time | |
| • at DC maximum | 0.2 ms |
| OFF-delay time maximum | 0.3 ms |
| Mechanical data | |
| product component plug-in socket | No |
| Auxiliary circuit | |
| type of switching contact | NO contact |
| number of NO contacts for auxiliary contacts | 1 |

| | |
|---|---|
| Main circuit | |
| type of voltage | DC |
| Inputs/ Outputs | |
| property of the output short-circuit proof | Yes |
| switching voltage of the semiconductor output at DC | 10 ... 30 V |
| ampacity of the semiconductor output at DC | 5 mA ... 2 A |
| Electromagnetic compatibility | |
| EMC emitted interference according to IEC 60947-1 | ambience A (industrial sector) |
| EMC immunity according to IEC 60947-1 | corresponds to degree of severity 3 |
| conducted interference | |
| • due to burst according to IEC 61000-4-4 | 2 kV |
| • due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| • due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| field-based interference according to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 6 kV contact discharge / 8 kV air discharge |
| Display | |
| display version as status display by LED | LED green |
| Connections/ Terminals | |
| product function removable terminal | No |
| type of electrical connection for auxiliary and control circuit | spring-loaded terminals (push-in) |
| wire length | |
| • at DC maximum | 1 000 m |
| type of connectable conductor cross-sections | |
| • solid | 1x (0.25 ... 2.5 mm ²) |
| • finely stranded with core end processing | 1x (0.25 ... 1.5 mm ²) |
| • finely stranded without core end processing | 1x (0.25 ... 2.5 mm ²) |
| • for AWG cables solid | 1 x (20 ... 14) |
| • for AWG cables stranded | 1x (20 ... 14) |
| connectable conductor cross-section | |
| • solid | 0.25 ... 2.5 mm ² |
| • finely stranded with core end processing | 0.25 ... 1.5 mm ² |
| • finely stranded without core end processing | 0.25 ... 2.5 mm ² |
| AWG number as coded connectable conductor cross section | |
| • solid | 20 ... 14 |
| • stranded | 20 ... 14 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | snap-on mounting |
| height | 93 mm |
| width | 6.2 mm |
| depth | 72.5 mm |
| required spacing | |
| • with side-by-side mounting | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| • for grounded parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 0 mm |
| — downwards | 0 mm |
| • for live parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |

— at the side

0 mm

Ambient conditions

| | |
|---|----------------|
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| • during operation | -25 ... +60 °C |
| • during storage | -40 ... +85 °C |
| • during transport | -40 ... +85 °C |
| relative humidity during operation | 10 ... 95 % |

Approvals Certificates

General Product Approval

EMV




EG-Konf.



UL



RCM

| EMV | Test Certificates | Marine / Shipping | other | Environment |
|--------------------|--|---|------------------------------|---|
| KC | Type Test Certificates/Test Report |  | Confirmation | Environmental Confirmations |

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3052-2SM30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3052-2SM30>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-2SM30>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3052-2SM30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-2SM30/manual>

