



Input coupler Optocoupler 1 NO contact, Transistor Input 110-230 V AC/DC Output max. 30 V DC, 0.5 A short circuit-proof Overall width 6.2 mm Spring-type terminal (push-in) Thermal current 0.5 A

| | |
|--|---|
| 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 | Input 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 | 0.5 W |
| surge voltage resistance rated value | 4 kV |
| protection class IP | IP20 |
| 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 | 0.2 Hz |
| thermal current | 0.5 A |
| reference code according to IEC 81346-2 | K |
| Substance Prohibitance (Date) | 03/25/2015 |
| Control circuit/ Control | |
| control supply voltage at AC | |
| • at 50 Hz rated value | 110 ... 230 V |
| • at 60 Hz rated value | 110 ... 230 V |
| control supply voltage frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| control supply voltage at DC | |
| • rated value | 110 ... 230 V |
| operating range factor control supply voltage rated value at DC | |
| • initial value | 0.7 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at AC at 50 Hz | |
| • initial value | 0.7 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated value at | |

| | |
|---|---|
| AC at 60 Hz | |
| • initial value | 0.7 |
| • full-scale value | 1.1 |
| minimum switching voltage when switching on | 74 V |
| maximum switching voltage when switching off | 20 V |
| ON-delay time | |
| • at AC maximum | 5 ms |
| • at DC maximum | 3 ms |
| OFF-delay time | 7 ms |
| 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 | AC/DC |
| Inputs/ Outputs | |
| property of the output short-circuit proof | No |
| switching voltage of the semiconductor output at DC | 10 ... 30 V |
| ampacity of the semiconductor output at DC | 10 mA ... 0.5 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 AC maximum | 500 m |
| • 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 % |

Certificates/ approvals

General Product Approval

EMC



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping

other



[Type Test Certificates/Test Report](#)



[Confirmation](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RQ3070-2SG30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3070-2SG30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-2SG30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3070-2SG30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-2SG30/manual>

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