## SIEMENS



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 component <br> - relay output <br> - semi-conductor output | No 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 |
| protection class IP | IP20 |
| shock resistance <br> - acc. to IEC 60068-2-27 | sinusoidal half-wave $15 \mathrm{~g} / 11 \mathrm{~ms}$ |
| vibration resistance <br> - acc. to IEC 60068-2-6 | $6 \ldots 150 \mathrm{~Hz}: 2 \mathrm{~g}$ |
| switching frequency | 100 Hz |
| thermal current | 2 A |
| reference code acc. to IEC 81346-2 | K |
| Control circuit/ Control |  |
| control supply voltage at DC <br> - rated value | $11 \ldots 30 \mathrm{~V}$ |
| operating range factor control supply voltage rated value at DC <br> - initial value <br> - full-scale value | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ |
| switch ON delay time - at DC maximum | 0.2 ms |
| OFF delay time | 0.3 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 | DC |

Inputs/ Outputs

| property of the output short-circuit proof | Yes |
| :---: | :---: |
| Outputs |  |
| ampacity of the semiconductor output at DC | $5 \mathrm{~mA} . . .2 \mathrm{~A}$ |
| Electromagnetic compatibility |  |
| EMC emitted interference acc. to IEC 60947-1 | ambience A (industrial sector) |
| EMC immunity acc. to IEC 60947-1 | corresponds to degree of severity 3 |
| conducted interference <br> - due to burst acc. to IEC 61000-4-4 <br> - due to conductor-earth surge acc. to IEC 61000-4-5 <br> - due to conductor-conductor surge acc. to IEC 61000-4-5 | $\begin{aligned} & 2 \mathrm{kV} \\ & 2 \mathrm{kV} \\ & 1 \mathrm{kV} \end{aligned}$ |
| field-based interference acc. to IEC 61000-4-3 | $10 \mathrm{~V} / \mathrm{m}$ |
| electrostatic discharge acc. 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 |  |
| type of connectable conductor cross-sections <br> - solid <br> - finely stranded with core end processing <br> - finely stranded without core end processing <br> - at AWG cables solid <br> - at AWG cables stranded | $\begin{aligned} & 1 \times\left(0.25 \ldots 2.5 \mathrm{~mm}^{2}\right) \\ & 1 \times\left(0.25 \ldots 1.5 \mathrm{~mm}^{2}\right) \\ & 1 \times\left(0.25 \ldots 2.5 \mathrm{~mm}^{2}\right) \\ & 1 \times(20 \ldots 14) \\ & 1 \times(20 \ldots 14) \end{aligned}$ |
| - connectable conductor cross-section solid <br> - connectable conductor cross-section finely stranded with core end processing | $\begin{aligned} & 0.25 \ldots 2.5 \mathrm{~mm}^{2} \\ & 0.25 \ldots 1.5 \mathrm{~mm}^{2} \end{aligned}$ |
| - connectable conductor cross-section finely stranded without core end processing | $0.25 \ldots 2.5 \mathrm{~mm}^{2}$ |
| - AWG number as coded connectable conductor cross section solid | $20 . .14$ |
| - AWG number as coded connectable conductor cross section 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 <br> - 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 <br> - forwards <br> - backwards | 0 mm <br> 0 mm |


| - upwards <br> - downwards <br> - at the side | 0 mm <br> 0 mm <br> 0 mm |  |  |
| :---: | :---: | :---: | :---: |
| Ambient condifions |  |  |  |
| installation altitude at height above sea level maximum | 2000 m |  |  |
| - ambient temperature during operation <br> - ambient temperature during storage <br> - ambient temperature during transport | $\begin{aligned} & -25 \ldots+60^{\circ} \mathrm{C} \\ & -40 \ldots+85^{\circ} \mathrm{C} \\ & -40 \ldots+85^{\circ} \mathrm{C} \end{aligned}$ |  |  |
| relative humidity during operation | 10 ... 95 \% |  |  |
| Certificates/ approvals |  |  |  |
| General Product Approval |  | EMC | Declaration of Conformity |


| Declaration of | Marine / Shipping | other |
| :--- | :--- | :--- |

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Confirmation

## Further information

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



