



!!! phased-out product !!! the preferred successor is 3RQ4052-1SM30 output coupler optocoupler 1 NO, transistor, 24 V DC output max. 30 V DC, 2 A short-circuit-proof screw terminal width 6.2 mm thermal current 2 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   | Output coupling link                                    |
| product type designation  | 3RQ3  |
| <b>General technical data</b>   |   |
| 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  |
| Net Weight  | 0.032 kg  |
| <b>Control circuit/ Control</b>   |   |
| 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  |
| <b>Mechanical data</b>  |   |
| product component plug-in socket  | No  |
| <b>Auxiliary circuit</b>  |   |

|  |  |
|--|--|
| type of switching contact  | NO contact   |
| number of NO contacts for auxiliary contacts   | 1  |
| <b>Main circuit</b>  |  |
| type of voltage  | DC   |
| <b>Inputs/ Outputs</b>   |  |
| 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   |
| <b>Electromagnetic compatibility</b>   |  |
| 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  |
| <b>conducted interference</b> <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>  | 2 kV<br>2 kV<br>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  |
| <b>Display</b>   |  |
| display version as status display by LED   | LED green  |
| <b>Connections/ Terminals</b>  |  |
| product function removable terminal  | No   |
| type of electrical connection <ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> </ul>  | screw-type terminals   |
| wire length <ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>  | 1 000 m  |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• for AWG cables solid</li> </ul>   | 1x (0.25 ... 2.5 mm <sup>2</sup> )<br>1x (0.25 ... 1.5 mm <sup>2</sup> )<br>1x (20 ... 14)           |
| connectable conductor cross-section <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> </ul>  | 0.25 ... 2.5 mm <sup>2</sup><br>0.25 ... 1.5 mm <sup>2</sup>   |
| AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> <li>• solid</li> </ul>  | 20 ... 14  |
| tightening torque with screw-type terminals  | 0.5 ... 0.6 N·m  |
| <b>Installation/ mounting/ dimensions</b>  |  |
| mounting position  | any  |
| fastening method   | snap-on mounting   |
| height   | 93 mm  |
| width  | 6.2 mm   |
| depth  | 72.5 mm  |
| required spacing <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> </ul> </li> </ul> | 0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>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



[KC](#)

##### Test Certificates

##### Maritime application

##### other

##### Environment

[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 for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### 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=3RQ3052-1SM30>

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3052-1SM30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-1SM30>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3052-1SM30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3052-1SM30&lang=en)



