



Output coupler Optocoupler 1 NO, Transistor, 24 V DC Output max. 30 V DC, 2 A short circuit-proof screw terminal 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                                                    |
| <b>General technical data</b>                                                                                 |                                                         |
| display version LED                                                                                           | Yes                                                     |
| 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                                                  |
| protection class IP                                                                                           | IP20                                                    |
| flammability class of enclosure material                                                                      | UL94 V-0                                                |
| shock resistance                                                                                              |                                                         |
| • acc. to IEC 60068-2-27                                                                                      | sinusoidal half-wave 15g / 11 ms                        |
| vibration resistance                                                                                          |                                                         |
| • acc. to IEC 60068-2-6                                                                                       | 6 ... 150 Hz: 2 g                                       |
| switching frequency                                                                                           | 100 Hz                                                  |
| thermal current                                                                                               | 2 A                                                     |
| reference code acc. to IEC 81346-2                                                                            | K                                                       |
| Substance Prohibitance (Date)                                                                                 | 25.03.2015                                              |
| <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                                                                                                | 0.3 ms                                                  |
| 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>                                             |                                             |
| <b>type of voltage</b>                                          | DC                                          |
| <b>Inputs/ Outputs</b>                                          |                                             |
| <b>property of the output short-circuit proof</b>               | Yes                                         |
| <b>switching voltage of the semiconductor output at DC</b>      | 10 ... 30 V                                 |
| <b>ampacity of the semiconductor output at DC</b>               | 5 mA ... 2 A                                |
| <b>Electromagnetic compatibility</b>                            |                                             |
| 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         |
| <b>conducted interference</b>                                   |                                             |
| • due to burst acc. to IEC 61000-4-4                            | 2 kV                                        |
| • due to conductor-earth surge acc. to IEC 61000-4-5            | 2 kV                                        |
| • due to conductor-conductor surge acc. to IEC 61000-4-5        | 1 kV                                        |
| <b>field-based interference acc. to IEC 61000-4-3</b>           | 10 V/m                                      |
| <b>electrostatic discharge acc. to IEC 61000-4-2</b>            | 6 kV contact discharge / 8 kV air discharge |
| <b>Display</b>                                                  |                                             |
| display version as status display by LED                        | LED green                                   |
| <b>Connections/ Terminals</b>                                   |                                             |
| <b>product function removable terminal</b>                      | No                                          |
| type of electrical connection for auxiliary and control circuit | screw-type terminals                        |
| wire length                                                     |                                             |
| • at DC maximum                                                 | 1 000 m                                     |
| <b>type of connectable conductor cross-sections</b>             |                                             |
| • solid                                                         | 1x (0.25 ... 2.5 mm <sup>2</sup> )          |
| • finely stranded with core end processing                      | 1x (0.25 ... 1.5 mm <sup>2</sup> )          |
| • at AWG cables solid                                           | 1 x (20 ... 14)                             |
| <b>connectable conductor cross-section</b>                      |                                             |
| • solid                                                         | 0.25 ... 2.5 mm <sup>2</sup>                |
| • finely stranded with core end processing                      | 0.25 ... 1.5 mm <sup>2</sup>                |
| <b>AWG number as coded connectable conductor cross section</b>  |                                             |
| • solid                                                         | 20 ... 14                                   |
| tightening torque with screw-type terminals                     | 0.5 ... 0.6 N·m                             |
| <b>Installation/ mounting/ dimensions</b>                       |                                             |
| <b>mounting position</b>                                        | any                                         |
| <b>fastening method</b>                                         | snap-on mounting                            |
| <b>height</b>                                                   | 93 mm                                       |
| <b>width</b>                                                    | 6.2 mm                                      |
| <b>depth</b>                                                    | 72.5 mm                                     |
| <b>required spacing</b>                                         |                                             |
| • 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                                        |
| <b>Ambient conditions</b>                                       |                                             |

|                                                         |                |
|---------------------------------------------------------|----------------|
| installation altitude at height above sea level maximum | 2 000 m        |
| <b>ambient temperature</b>                              |                |
| • 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 | Declaration of Conformity |
|--------------------------|-----|---------------------------|



|                           |                   |                   |       |
|---------------------------|-------------------|-------------------|-------|
| Declaration of Conformity | Test Certificates | Marine / Shipping | other |
|---------------------------|-------------------|-------------------|-------|

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



[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=3RQ3052-1SM30>

Cax online generator

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

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

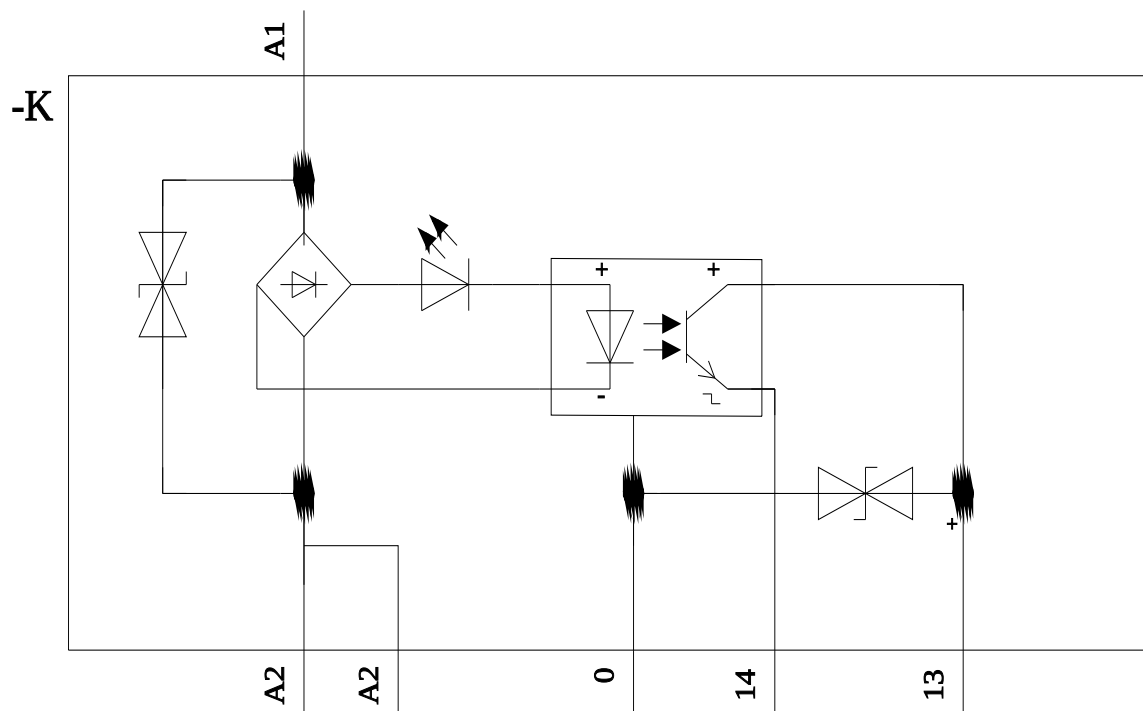
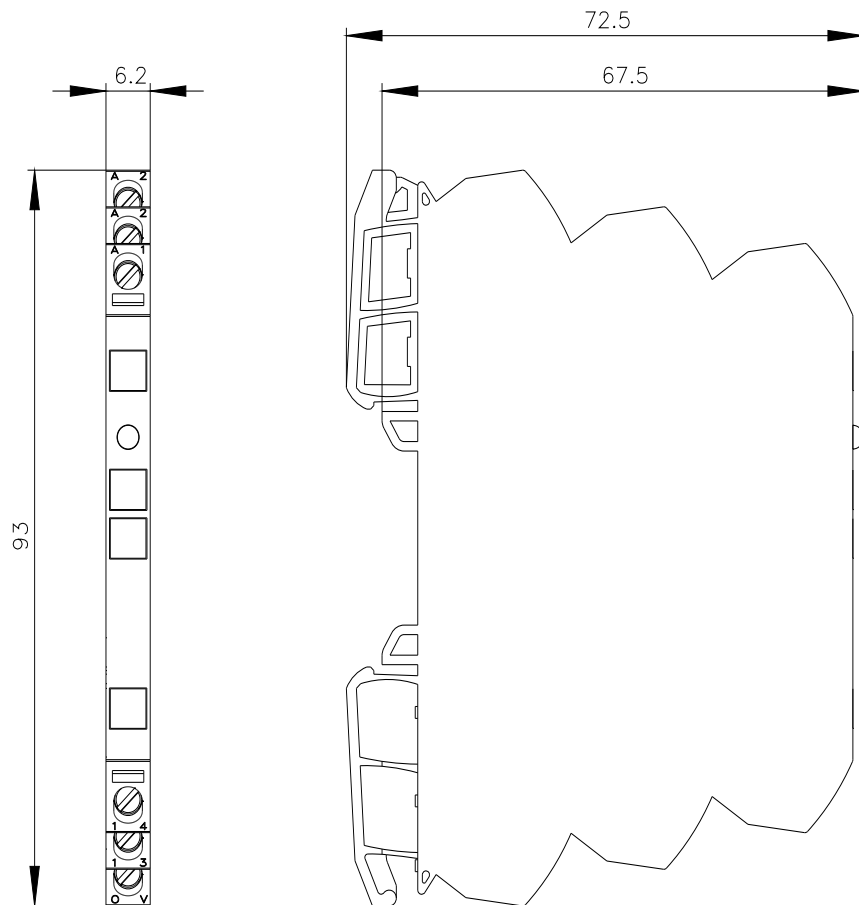
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-1SM30>

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

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

Characteristic: Derating

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



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