



Output coupler Optocoupler 1 NO, Transistor, 24 V DC Output max. 30 V DC, 5 A short circuit-proof Spring-type terminal (push-in) Overall width 6.2 mm Thermal current 5A

|   |   |
|---|---|
| <b>product brand name</b>   | SIRIUS  |
| <b>product category</b>   | SIRIUS 3RQ3 coupling relays in slim design              |
| <b>product designation</b>  | Coupling relays with semiconductor output (not plug-in) |
| <b>design of the product</b>  | Output coupling link                                    |
| <b>product type designation</b>   | 3RQ3  |
| <b>General technical data</b>   |   |
| <b>display version LED</b>  | Yes   |
| <b>product component</b>  |   |
| • relay output  | No  |
| • semi-conductor output   | Yes   |
| <b>consumed active power</b>  | 0.3 W   |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 50 V  |
| <b>surge voltage resistance rated value</b>   | 2.5 kV  |
| <b>protection class IP</b>  | IP20  |
| <b>shock resistance</b>   |   |
| • acc. to IEC 60068-2-27  | sinusoidal half-wave 15g / 11 ms                        |
| <b>vibration resistance</b>   |   |
| • acc. to IEC 60068-2-6   | 6 ... 150 Hz: 2 g                                       |
| <b>switching frequency</b>  | 100 Hz  |
| <b>thermal current</b>  | 5 A   |
| <b>reference code acc. to IEC 81346-2</b>   | K   |
| <b>Control circuit/ Control</b>   |   |
| <b>control supply voltage at DC</b>   |   |
| • rated value   | 11 ... 30 V   |
| <b>operating range factor control supply voltage rated value at DC</b>  |   |
| • initial value   | 1   |
| • full-scale value  | 1   |
| <b>switch ON delay time</b>   |   |
| • at DC maximum   | 0.2 ms  |
| <b>OFF delay time</b>   | 0.3 ms  |
| <b>product component plug-in socket</b>   | No  |
| <b>Auxiliary circuit</b>  |   |
| <b>type of switching contact</b>  | NO contact  |
| <b>number of NO contacts for auxiliary contacts</b>   | 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>Outputs</b>  |   |
| <b>ampacity of the semiconductor output at DC</b>                                 | 5 mA ... 5 A                                |
| <b>Electromagnetic compatibility</b>  |   |
| EMC emitted interference acc. to IEC 60947-1                                      | ambience A (industrial sector)              |
| <b>EMC immunity acc. to IEC 60947-1</b>   | 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>   |   |
| 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                                     |
| <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> )          |
| • finely stranded without core end processing                                     | 1x (0.25 ... 2.5 mm <sup>2</sup> )          |
| • at AWG cables solid   | 1 x (20 ... 14)                             |
| • at AWG cables stranded  | 1x (20 ... 14)                              |
| • connectable conductor cross-section solid                                       | 0.25 ... 2.5 mm <sup>2</sup>                |
| • connectable conductor cross-section finely stranded with core end processing    | 0.25 ... 1.5 mm <sup>2</sup>                |
| • connectable conductor cross-section finely stranded without core end processing | 0.25 ... 2.5 mm <sup>2</sup>                |
| • AWG number as coded connectable conductor cross section solid                   | 20 ... 14                                   |
| • AWG number as coded connectable conductor cross section stranded                | 20 ... 14                                   |
| <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 |

#### Ambient conditions

|  |  |
|--|--|
| installation altitude at height above sea level maximum  | 2 000 m  |
| <ul style="list-style-type: none"> <li>• ambient temperature during operation</li> <li>• ambient temperature during storage</li> <li>• ambient temperature during transport</li> </ul> | -25 ... +60 °C<br>-40 ... +85 °C<br>-40 ... +85 °C |
| relative humidity during operation   | 10 ... 95 %  |

#### Certificates/ approvals

| General Product Approval | EMC | Declaration of Conformity |
|--------------------------|-----|---------------------------|
|--------------------------|-----|---------------------------|



[Miscellaneous](#)

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



[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=3RQ3055-2SM30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3055-2SM30>

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

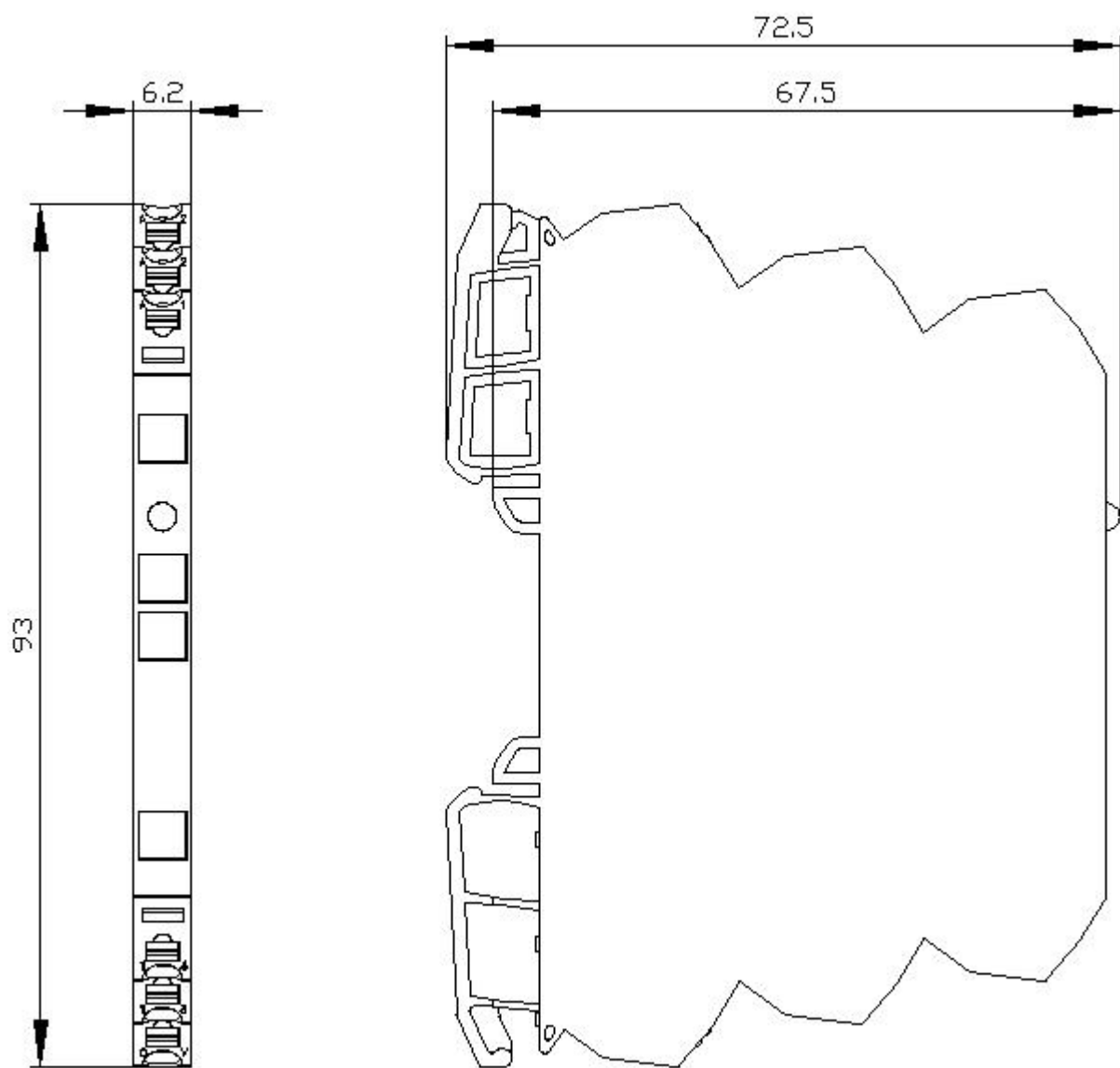
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-2SM30>

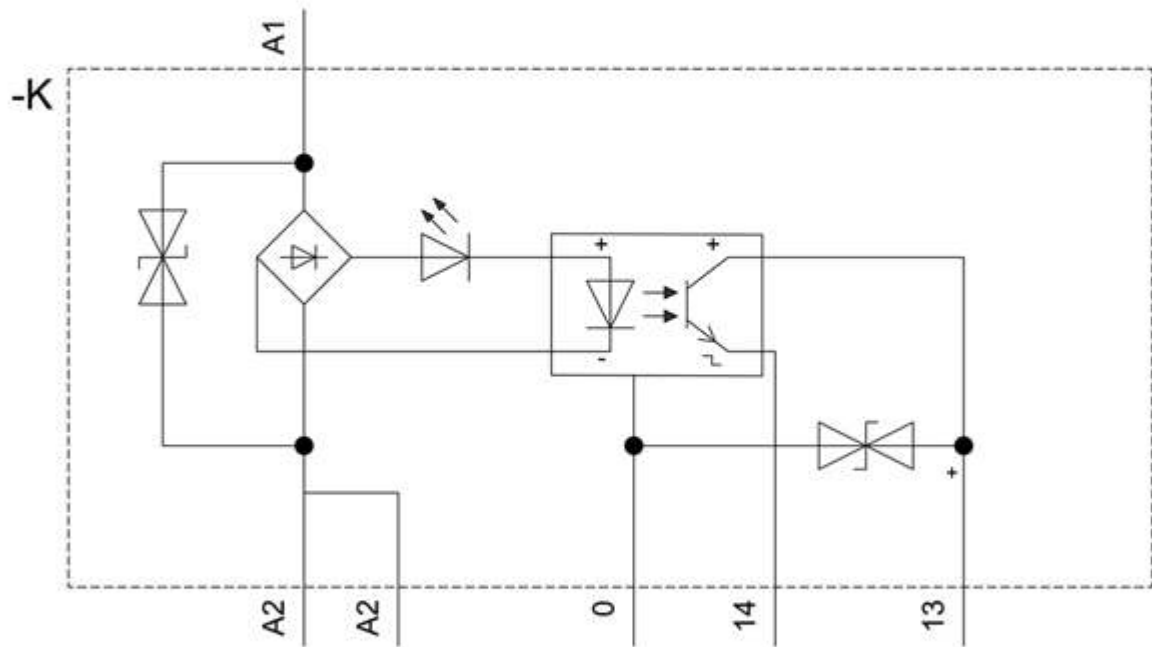
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3055-2SM30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3055-2SM30&lang=en)

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-2SM30/manual>





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