



Input coupler Relay coupler, 1 change-over contact 24 V AC/DC Overall width 6.2 mm screw terminal Thermal current 6A

|                                                                                                               |                                                 |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>product brand name</b>                                                                                     | SIRIUS                                          |
| <b>product category</b>                                                                                       | SIRIUS 3RQ3 coupling relays in slim design      |
| <b>product designation</b>                                                                                    | Coupling relays with relay output (not plug-in) |
| <b>design of the product</b>                                                                                  | Input coupling link                             |
| <b>product type designation</b>                                                                               | 3RQ3                                            |
| <b>General technical data</b>                                                                                 |                                                 |
| <b>display version LED</b>                                                                                    | Yes                                             |
| <b>product component</b>                                                                                      | Yes                                             |
| • relay output                                                                                                | Yes                                             |
| • semi-conductor output                                                                                       | No                                              |
| <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 | 300 V                                           |
| <b>surge voltage resistance rated value</b>                                                                   | 4 kV                                            |
| <b>maximum permissible voltage for safe isolation</b>                                                         |                                                 |
| • between control and auxiliary circuit                                                                       | 300 V                                           |
| <b>percental drop-out voltage related to the input voltage</b>                                                | 10 %                                            |
| <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>operating frequency maximum</b>                                                                            | 72 000 1/h                                      |
| <b>switching behavior</b>                                                                                     | monostable                                      |
| mechanical service life (switching cycles) typical                                                            | 10 000 000                                      |
| <b>thermal current</b>                                                                                        | 6 A                                             |
| <b>reference code acc. to IEC 81346-2</b>                                                                     | K                                               |
| <b>Control circuit/ Control</b>                                                                               |                                                 |
| <b>control supply voltage at AC</b>                                                                           |                                                 |
| • at 50 Hz rated value                                                                                        | 24 V                                            |
| • at 60 Hz rated value                                                                                        | 24 V                                            |
| <b>control supply voltage frequency</b>                                                                       |                                                 |
| • 1 rated value                                                                                               | 50 Hz                                           |
| • 2 rated value                                                                                               | 60 Hz                                           |
| <b>control supply voltage at DC</b>                                                                           |                                                 |
| • rated value                                                                                                 | 24 V                                            |
| <b>operating range factor control supply voltage rated value at DC</b>                                        |                                                 |

|                                                                                                                                                                                                                  |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>                                                                                                                        | 0.8<br>1.25                                                                        |
| <b>operating range factor control supply voltage rated value at AC at 50 Hz</b>                                                                                                                                  |                                                                                    |
| <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>                                                                                                                        | 0.8<br>1.25                                                                        |
| <b>operating range factor control supply voltage rated value at AC at 60 Hz</b>                                                                                                                                  |                                                                                    |
| <ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>                                                                                                                        | 0.8<br>1.25                                                                        |
| <b>switch ON delay time</b>                                                                                                                                                                                      |                                                                                    |
| <ul style="list-style-type: none"> <li>at AC maximum</li> <li>at DC maximum</li> </ul>                                                                                                                           | 12 ms<br>12 ms                                                                     |
| <b>OFF delay time</b>                                                                                                                                                                                            | 14 ms                                                                              |
| <b>design of the relay operating mechanism</b>                                                                                                                                                                   | poled                                                                              |
| <b>product component plug-in socket</b>                                                                                                                                                                          | No                                                                                 |
| <b>Short-circuit protection</b>                                                                                                                                                                                  |                                                                                    |
| design of the fuse link for short-circuit protection of the auxiliary switch required                                                                                                                            | fuse gG: 4 A                                                                       |
| <b>Auxiliary circuit</b>                                                                                                                                                                                         |                                                                                    |
| <b>type of switching contact</b>                                                                                                                                                                                 | Changeover contact                                                                 |
| <b>material of switching contacts</b>                                                                                                                                                                            | AgSnO <sub>2</sub>                                                                 |
| number of CO contacts for auxiliary contacts                                                                                                                                                                     | 1                                                                                  |
| <b>operational current of auxiliary contacts at AC-15</b>                                                                                                                                                        |                                                                                    |
| <ul style="list-style-type: none"> <li>at 24 V</li> <li>at 250 V</li> </ul>                                                                                                                                      | 3 A<br>3 A                                                                         |
| <b>operational current of auxiliary contacts at DC-13</b>                                                                                                                                                        |                                                                                    |
| <ul style="list-style-type: none"> <li>at 24 V</li> <li>at 125 V</li> <li>at 250 V</li> </ul>                                                                                                                    | 1 A<br>0.2 A<br>0.1 A                                                              |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                                                 | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| <b>Main circuit</b>                                                                                                                                                                                              |                                                                                    |
| <b>type of voltage</b>                                                                                                                                                                                           | AC/DC                                                                              |
| <b>Inputs/ Outputs</b>                                                                                                                                                                                           |                                                                                    |
| <b>property of the output short-circuit proof</b>                                                                                                                                                                | No                                                                                 |
| <b>Outputs</b>                                                                                                                                                                                                   |                                                                                    |
| ampacity of the output relay at AC-15 at 250 V at 50/60 Hz                                                                                                                                                       | 3 A                                                                                |
| <b>ampacity of the output relay at DC-13</b>                                                                                                                                                                     |                                                                                    |
| <ul style="list-style-type: none"> <li>at 24 V</li> <li>at 125 V</li> <li>at 250 V</li> </ul>                                                                                                                    | 1 A<br>0.2 A<br>0.1 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>                                                                                                                                                                                    |                                                                                    |
| <ul style="list-style-type: none"> <li>due to burst acc. to IEC 61000-4-4</li> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul> | 2 kV<br>2 kV<br>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                                                                                                                                                  | screw-type terminals                                                               |
| wire length                                                                                                                                                                                                      |                                                                                    |

|                                                                                                                                                                                       |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC maximum</li> <li>• at DC maximum</li> </ul>                                                                                            | 500 m<br>1 000 m                                                                            |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                   |                                                                                             |
| <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• at 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>1 x (20 ... 14) |
| <ul style="list-style-type: none"> <li>• connectable conductor cross-section solid</li> <li>• connectable conductor cross-section 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>                                |
| <ul style="list-style-type: none"> <li>• AWG number as coded connectable conductor cross section solid</li> </ul>                                                                     | 20 ... 14                                                                                   |
| <ul style="list-style-type: none"> <li>• tightening torque with screw-type terminals</li> </ul>                                                                                       | 0.5 ... 0.6 N·m                                                                             |

#### Installation/ mounting/ dimensions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |
| <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> <li>— upwards</li> <li>— downwards</li> <li>— at the side</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<br>0 mm<br>0 mm<br>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

|                                 |            |
|---------------------------------|------------|
| <b>General Product Approval</b> | <b>EMC</b> |
|---------------------------------|------------|



|                                  |                          |              |
|----------------------------------|--------------------------|--------------|
| <b>Declaration of Conformity</b> | <b>Marine / Shipping</b> | <b>other</b> |
|----------------------------------|--------------------------|--------------|



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=3RQ3038-1AB00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3038-1AB00>

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

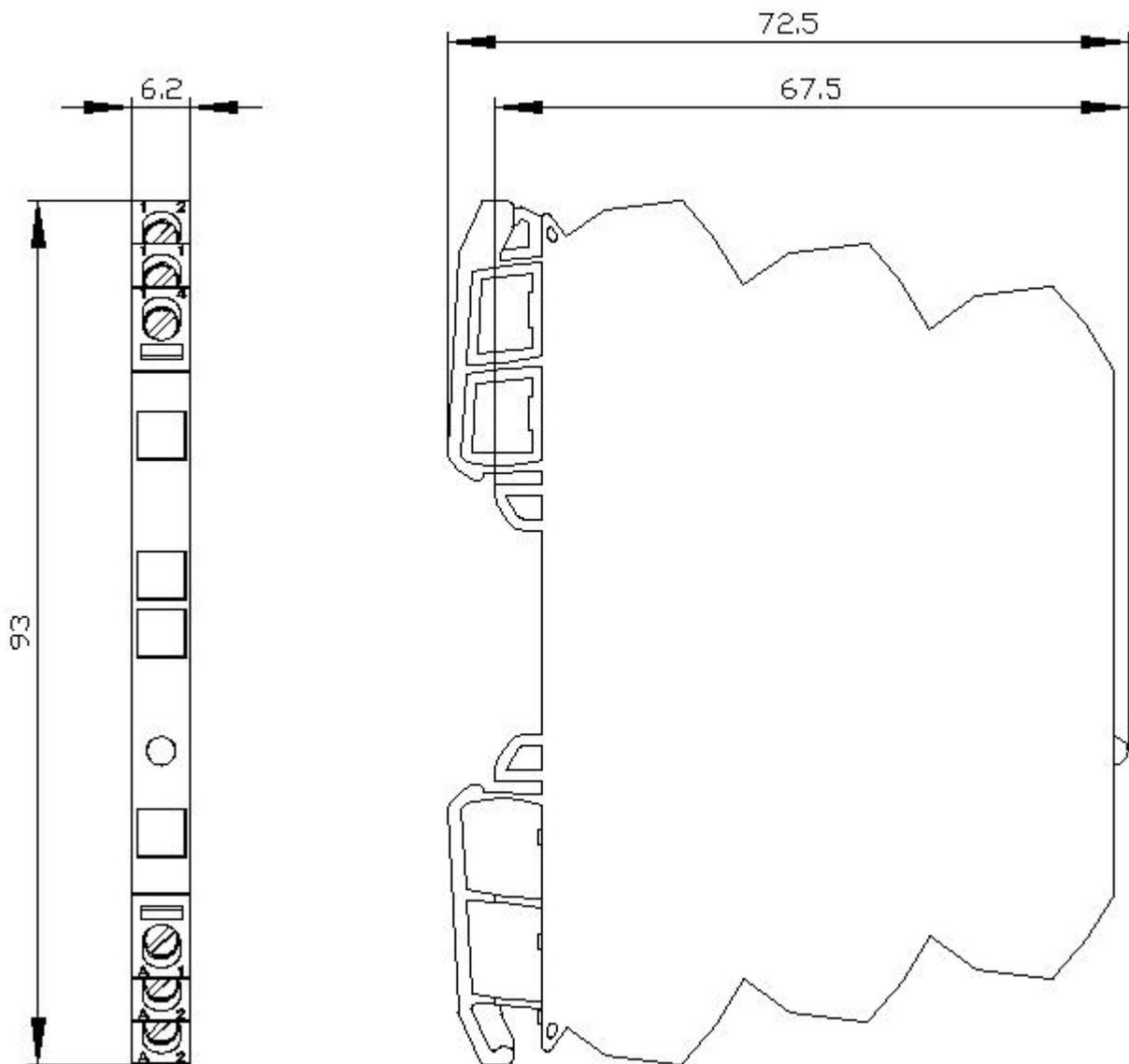
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-1AB00>

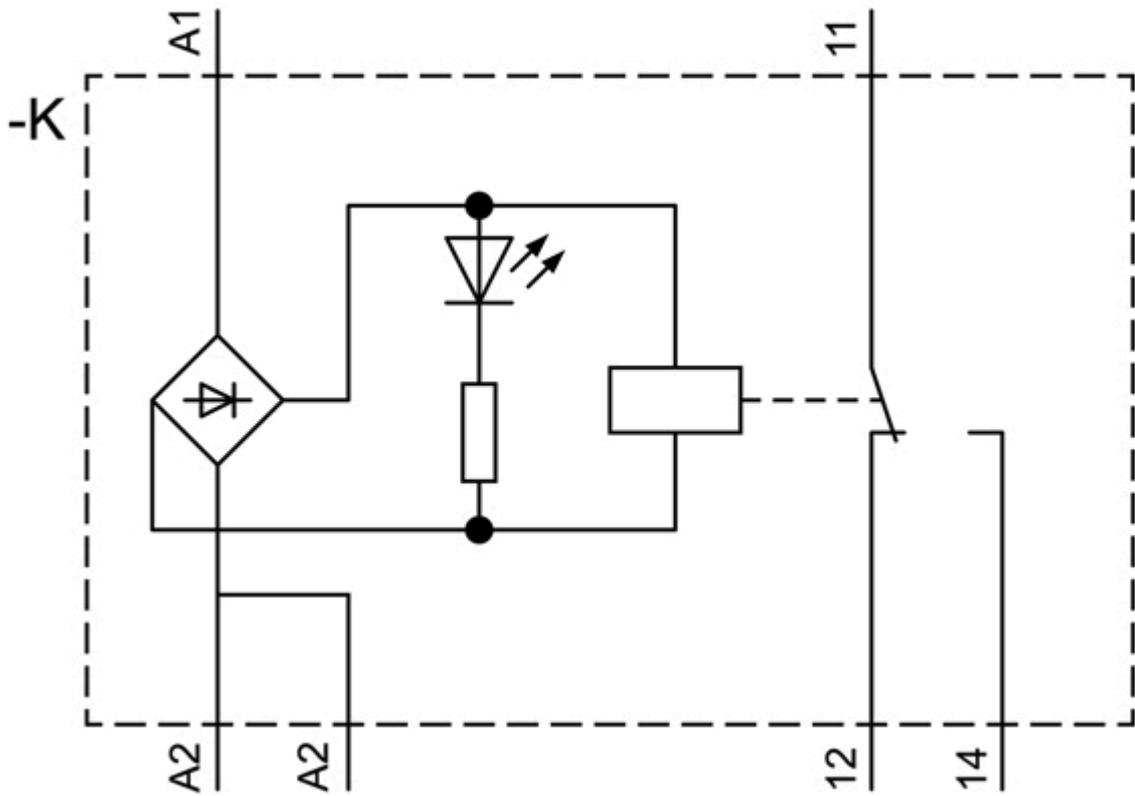
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3038-1AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3038-1AB00&lang=en)

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-1AB00/manual>





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