



Output coupler with plug-in Relay, 1 change-over contact screw terminal 24 V  
AC/DC Enclosure width 6.2 mm Thermal current 6A

|                                                                                                               |                                            |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| product brand name                                                                                            | SIRIUS                                     |
| product category                                                                                              | SIRIUS 3RQ3 coupling relays in slim design |
| product designation                                                                                           | Coupling relays with plug-in relay         |
| 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                                                                                                | Yes                                        |
| • semi-conductor output                                                                                       | No                                         |
| consumed active power                                                                                         | 0.3 W                                      |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V                                      |
| surge voltage resistance rated value                                                                          | 4 kV                                       |
| maximum permissible voltage for protective separation                                                         |                                            |
| • between control and auxiliary circuit                                                                       | 300 V                                      |
| percental drop-out voltage related to the input voltage                                                       | 10 %                                       |
| protection class IP                                                                                           | IP20                                       |
| flammability class of enclosure material                                                                      | UL94 V-0                                   |
| shock resistance                                                                                              |                                            |
| • according to IEC 60068-2-27                                                                                 | sinusoidal half-wave 15g / 11 ms           |
| operating frequency maximum                                                                                   | 72 000 1/h                                 |
| switching behavior                                                                                            | monostable                                 |
| mechanical service life (operating cycles) typical                                                            | 10 000 000                                 |
| thermal current                                                                                               | 6 A                                        |
| reference code according to IEC 81346-2                                                                       | K                                          |
| Substance Prohibitance (Date)                                                                                 | 03/25/2015                                 |
| <b>Control circuit/ Control</b>                                                                               |                                            |
| control supply voltage at AC                                                                                  |                                            |
| • at 50 Hz rated value                                                                                        | 24 V                                       |
| • at 60 Hz rated value                                                                                        | 24 V                                       |
| control supply voltage frequency                                                                              |                                            |
| • 1 rated value                                                                                               | 50 Hz                                      |
| • 2 rated value                                                                                               | 60 Hz                                      |
| control supply voltage at DC rated value                                                                      |                                            |
| •                                                                                                             | 24 V                                       |
| operating range factor control supply voltage rated value at DC                                               |                                            |
| • initial value                                                                                               | 0.8                                        |
| • full-scale value                                                                                            | 1.25                                       |

|                                                                                       |                                                                                    |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>operating range factor control supply voltage rated value at AC at 50 Hz</b>       |                                                                                    |
| • initial value                                                                       | 0.8                                                                                |
| • full-scale value                                                                    | 1.25                                                                               |
| <b>operating range factor control supply voltage rated value at AC at 60 Hz</b>       |                                                                                    |
| • initial value                                                                       | 0.8                                                                                |
| • full-scale value                                                                    | 1.25                                                                               |
| <b>ON-delay time</b>                                                                  |                                                                                    |
| • at AC maximum                                                                       | 12 ms                                                                              |
| • at DC maximum                                                                       | 12 ms                                                                              |
| <b>OFF-delay time maximum</b>                                                         | 14 ms                                                                              |
| <b>Mechanical data</b>                                                                |                                                                                    |
| <b>product component plug-in socket</b>                                               | Yes                                                                                |
| <b>design of the relay operating mechanism</b>                                        | poled                                                                              |
| <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>                             |                                                                                    |
| • at 24 V                                                                             | 3 A                                                                                |
| • at 250 V                                                                            | 3 A                                                                                |
| <b>operational current of auxiliary contacts at DC-13</b>                             |                                                                                    |
| • at 24 V                                                                             | 1 A                                                                                |
| • at 125 V                                                                            | 0.2 A                                                                              |
| • at 250 V                                                                            | 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                                                                                 |
| 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>                                          |                                                                                    |
| • at 24 V                                                                             | 1 A                                                                                |
| • at 125 V                                                                            | 0.2 A                                                                              |
| • at 250 V                                                                            | 0.1 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>                                                         |                                                                                    |
| • due to burst according to IEC 61000-4-4                                             | 2 kV                                                                               |
| • due to conductor-earth surge according to IEC 61000-4-5                             | 2 kV                                                                               |
| • due to conductor-conductor surge according to IEC 61000-4-5                         | 1 kV                                                                               |
| <b>field-based interference according to IEC 61000-4-3</b>                            | 10 V/m                                                                             |
| <b>electrostatic discharge according 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 AC maximum                                                                       | 500 m                                                                              |
| • 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> )                                                 |
| • for 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>                                                   | 76 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 %                  |
| <b>Approvals Certificates</b>                                  |                              |
| <b>General Product Approval</b>                                |                              |



[Confirmation](#)



|                          |     |                   |                   |       |
|--------------------------|-----|-------------------|-------------------|-------|
| General Product Approval | EMV | Test Certificates | Marine / Shipping | other |
|--------------------------|-----|-------------------|-------------------|-------|



[KC](#)

[Type Test Certificates/Test Report](#)



[Confirmation](#)

#### Environment

[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### 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=3RQ3118-1AB00>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AB00>

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

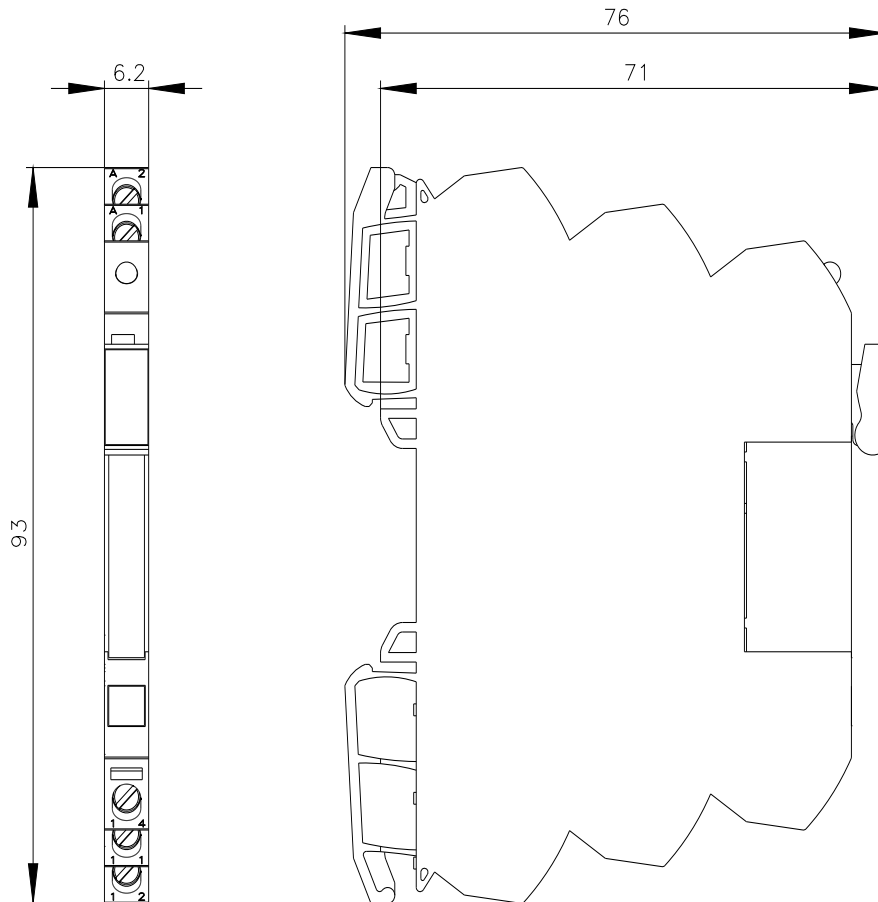
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AB00>

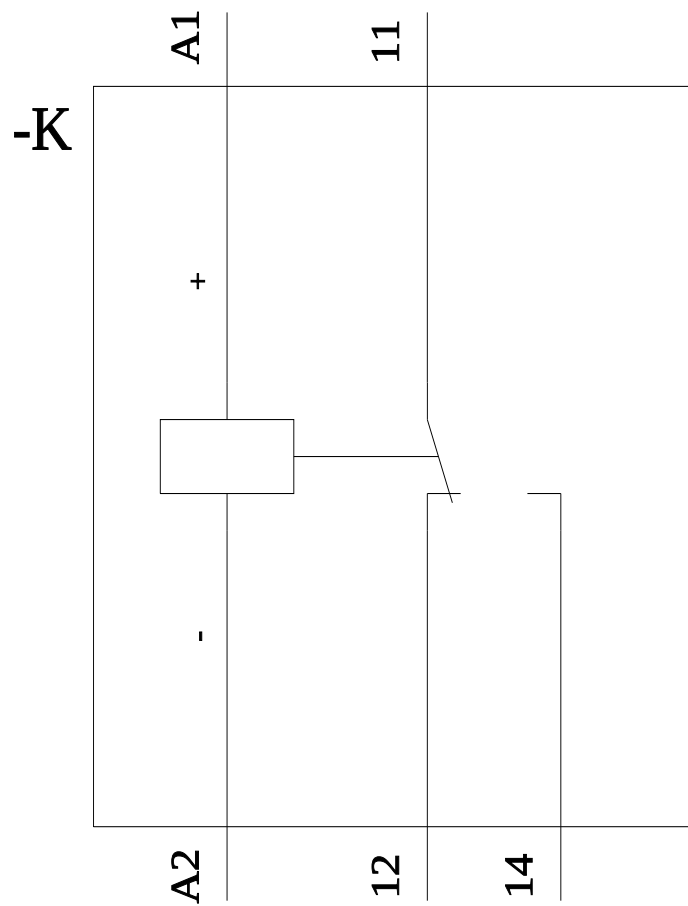
##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3118-1AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AB00&lang=en)

##### Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AB00/manual>





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