



output coupler with integrated relay, 24 V AC/DC, 1 change-over contact, screw terminal, width 6.2 mm, thermal current 6 A

|   |   |
|---|---|
| product brand name  | SIRIUS                                      |
| product category  | SIRIUS 3RQ4 coupling relay, narrow design   |
| product designation   | Coupling relay with integrated relay output |
| design of the product   | output coupling link                        |
| product type designation  | 3RQ4  |
| <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  |
| power loss [W] maximum  | 0.25 W                                      |
| 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                                       |
| • between control and auxiliary circuit according to IEC 60947-1  | 300 V                                       |
| percental drop-out voltage related to the input voltage   | 10 %  |
| 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                           |
| operating frequency maximum   | 72 000 1/h                                  |
| switching behavior  | monostable                                  |
| mechanical service life (operating cycles) typical  | 10 000 000                                  |
| electrical endurance (operating cycles)   |   |
| • at AC-15 at 250 V typical   | 100 000                                     |
| thermal current   | 6 A   |
| reference code according to IEC 81346-2   | K   |
| Substance Prohibitance (Date)   | 09/26/2024                                  |
| Weight  | 38 g  |
| <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   | 0.85   |
| • full-scale value  | 1.25   |
| operating range factor control supply voltage rated value at AC at 50 Hz              |  |
| • initial value   | 0.8  |
| • full-scale value  | 1.25   |
| operating range factor control supply voltage rated value at AC at 60 Hz              |  |
| • initial value   | 0.8  |
| • full-scale value  | 1.25   |
| ON-delay time   |  |
| • at AC maximum   | 10 ms  |
| • at DC maximum   | 10 ms  |
| OFF-delay time maximum  | 10 ms  |
| <b>Switching Function</b>   |  |
| design of the switching function positively driven                                    | No   |
| <b>Digital Outputs</b>  |  |
| property of the output short-circuit proof  | No   |
| <b>Mechanical data</b>  |  |
| product component plug-in socket  | No   |
| design of the relay operating mechanism   | 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>  |  |
| type of switching contact   | Changeover contact   |
| material of switching contacts  | AgSnO <sub>2</sub>   |
| number of CO contacts for auxiliary contacts  | 1  |
| operational current of auxiliary contacts at AC-15                                    |  |
| • at 24 V   | 3 A  |
| • at 250 V  | 3 A  |
| operational current of auxiliary contacts at DC-13                                    |  |
| • at 24 V   | 1 A  |
| • at 125 V  | 0.2 A  |
| • at 250 V  | 0.1 A  |
| contact reliability of auxiliary contacts   | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| <b>Main circuit</b>   |  |
| type of voltage   | AC/DC  |
| ampacity of the output relay at AC-15 at 250 V at 50/60 Hz                            | 3 A  |
| ampacity of the output relay at DC-13   |  |
| • at 24 V   | 1 A  |
| • at 125 V  | 0.2 A  |
| • at 250 V  | 0.1 A  |
| <b>Electromagnetic compatibility</b>  |  |
| electromagnetic compatibility   | acc. to EN 60947-5-1   |
| 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  |
| conducted interference  |  |
| • 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   |
| 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>Safety related data</b>  |  |

|   |       |  |
|---|-------|--|
| B10d value  |       | 1 200 000                                    |
| Connections/ Terminals                                  |       |  |
| product function removable terminal                     |       | No   |
| type of electrical connection                           |       |  |
| • for auxiliary and control circuit                     |       | screw-type terminals                         |
| type of connectable conductor cross-sections            |       |  |
| • solid   |       | 1x (0.25 ... 2.5 mm²)                        |
| • finely stranded with core end processing              |       | 1x (0.25 ... 2.5 mm²), 2x (0.25 ... 1.5 mm²) |
| • for AWG cables solid                                  |       | 1x (20 ... 14), 2x (20 ... 16)               |
| connectable conductor cross-section                     |       |  |
| • solid   |       | 0.25 ... 2.5 mm²                             |
| • finely stranded with core end processing              |       | 0.25 ... 2.5 mm²                             |
| AWG number as coded connectable conductor cross section |       |  |
| • solid   |       | 20 ... 14                                    |
| tightening torque with screw-type terminals             |       | 0.5 ... 0.6 N·m                              |
| size of the screwdriver tip                             |       | 3,0 x 0,5 mm                                 |
| stripped length   |       | 10 mm  |
| Installation/ mounting/ dimensions                      |       |  |
| mounting position                                       |       | any  |
| fastening method  |       | snap-on mounting                             |
| height  |       | 93 mm  |
| width   |       | 6.2 mm                                       |
| depth   |       | 84.5 mm                                      |
| required spacing  |       |  |
| • 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                                      |
| 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                                | other | Environment                                  |



[Confirmation](#)



#### 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=3RQ4018-1AB00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ4018-1AB00>

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

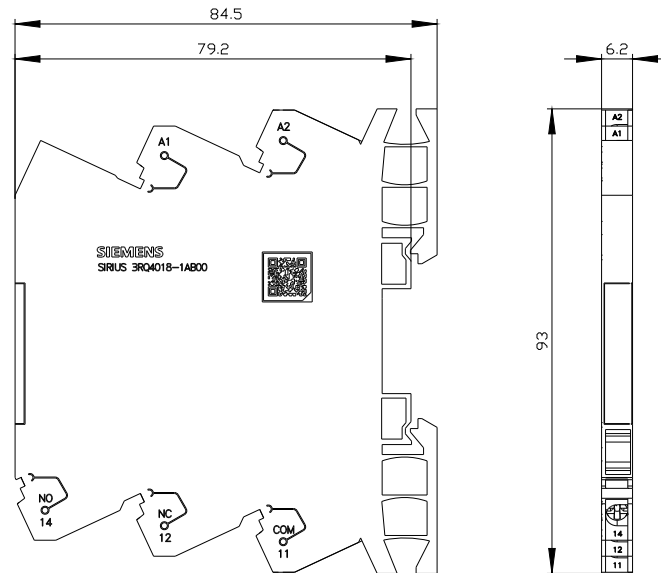
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ4018-1AB00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ4018-1AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ4018-1AB00&lang=en)

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ4018-1AB00/manual>



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