



!!! phased-out product !!! the preferred successor is 3RQ4118-1AM00 output coupler with plug-in relay, 1 change-over contact screw terminal 24 V DC enclosure width 6.2 mm thermal current 6 A

|   |   |
|---|---|
| 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   | <ul style="list-style-type: none"> <li>• relay output Yes</li> <li>• semi-conductor output No</li> </ul>          |
| 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   | <ul style="list-style-type: none"> <li>• between control and auxiliary circuit 300 V</li> </ul>                   |
| percental drop-out voltage related to the input voltage   | 10 %  |
| flammability class of enclosure material  | UL94 V-0  |
| shock resistance  | <ul style="list-style-type: none"> <li>• according to IEC 60068-2-27 sinusoidal half-wave 15 g / 11 ms</li> </ul> |
| vibration resistance  | <ul style="list-style-type: none"> <li>• according to IEC 60068-2-6 6 ... 150 Hz: 2 g</li> </ul>                  |
| 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 (day/month/year)   | 03/25/2015  |
| Net Weight  | 34 g  |
| <b>Control circuit/ Control</b>   |   |
| control supply voltage at DC rated value  | 24 V  |
| operating range factor control supply voltage rated value at DC   | <ul style="list-style-type: none"> <li>• initial value 0.8</li> <li>• full-scale value 1.25</li> </ul>            |
| ON-delay time   | <ul style="list-style-type: none"> <li>• at DC maximum 12 ms</li> </ul>   |
| OFF-delay time maximum  | 13 ms   |



| Mechanical data   |  |
|---|--|
| product component plug-in socket  | Yes  |
| design of the relay operating mechanism   | poled  |
| Short-circuit protection  |  |
| design of the fuse link for short-circuit protection of the auxiliary switch required | fuse gG: 4 A   |
| Auxiliary circuit   |  |
| type of switching contact   | Changeover contact   |
| material of switching contacts  | AgSnO2   |
| 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) |
| Main circuit  |  |
| type of voltage   | DC   |
| Inputs/ Outputs   |  |
| property of the output short-circuit proof  | No   |
| 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  |
| Electromagnetic compatibility   |  |
| 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  |
| Display   |  |
| display version as status display by LED  | LED green  |
| 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 mm <sup>2</sup> )   |
| • finely stranded with core end processing  | 1x (0.25 ... 1.5 mm <sup>2</sup> )   |
| • for AWG cables solid  | 1x (20 ... 14)   |
| connectable conductor cross-section   |  |
| • solid   | 0.25 ... 2.5 mm <sup>2</sup>   |
| • finely stranded with core end processing  | 0.25 ... 1.5 mm <sup>2</sup>   |
| AWG number as coded connectable conductor cross section                               |  |
| • solid   | 20 ... 14  |
| tightening torque with screw-type terminals   | 0.5 ... 0.6 N·m  |
| Installation/ mounting/ dimensions  |  |
| mounting position   | any  |
| fastening method  | snap-on mounting   |
| height  | 93 mm  |
| width   | 6.2 mm   |

|   |       |
|---|-------|
| <b>depth</b>  | 76 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 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— at the side 0 mm</li> <li>— downwards 0 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— backwards 0 mm</li> <li>— upwards 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 mm</li> </ul> </li> </ul> |       |

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

**Approvals Certificates**

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| <b>Environment</b>                                | <b>General Product Approval</b>   |   |   |   |   |
| <a href="#">Environmental Con-<br/>firmations</a> |  |  |  |  |  |

|   |   |  |  |
|---|---|--|--|
| <b>EMV</b>  | <b>Test Certificates</b>  | <b>Maritime application</b>                        | <b>other</b>   |
|  |  | <a href="#">Type Test Certificates/Test Report</a> |  <a href="#">Confirmation</a> |

**Further information**

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
Information for data generation and storage  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>  
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=3RQ3118-1AM00>  
Cax online generator  
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AM00>  
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AM00>  
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3118-1AM00&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AM00&lang=en)

