



!!! phased-out product !!! the preferred successor is 3RQ4128-1AB30 output coupler optocoupler 1 NO, transistor, 24 V DC output max. 30 V DC, 5 A with M-0-A switch short-circuit-proof screw terminal width 6.2 mm thermal current 5 A

|                                                                                                               |                                                         |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| product brand name                                                                                            | SIRIUS                                                  |
| product category                                                                                              | SIRIUS 3RQ3 coupling relays in slim design              |
| product designation                                                                                           | Coupling relays with semiconductor output (not plug-in) |
| 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                                                                                                | No                                                      |
| • semi-conductor output                                                                                       | Yes                                                     |
| consumed active power                                                                                         | 0.3 W                                                   |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 50 V                                                    |
| surge voltage resistance rated value                                                                          | 2.5 kV                                                  |
| flammability class of enclosure material                                                                      | UL94 V-0                                                |
| shock resistance                                                                                              |                                                         |
| • according to IEC 60068-2-27                                                                                 | sinusoidal half-wave 15 g / 11 ms                       |
| vibration resistance                                                                                          |                                                         |
| • according to IEC 60068-2-6                                                                                  | 6 ... 150 Hz: 2 g                                       |
| switching frequency                                                                                           | 100 Hz                                                  |
| thermal current                                                                                               | 5 A                                                     |
| reference code according to IEC 81346-2                                                                       | K                                                       |
| Substance Prohibitance (day/month/year)                                                                       | 03/25/2015                                              |
| Net Weight                                                                                                    | 0.032 kg                                                |
| <b>Control circuit/ Control</b>                                                                               |                                                         |
| control supply voltage at DC rated value                                                                      | 11 ... 30 V                                             |
| operating range factor control supply voltage rated value at DC                                               |                                                         |
| • initial value                                                                                               | 1                                                       |
| • full-scale value                                                                                            | 1                                                       |
| minimum switching voltage when switching on                                                                   | 11 V                                                    |
| maximum switching voltage when switching off                                                                  | 5 V                                                     |
| ON-delay time                                                                                                 |                                                         |
| • at DC maximum                                                                                               | 0.2 ms                                                  |
| OFF-delay time maximum                                                                                        | 0.3 ms                                                  |
| <b>Mechanical data</b>                                                                                        |                                                         |
| product component plug-in socket                                                                              | No                                                      |
| <b>Auxiliary circuit</b>                                                                                      |                                                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| type of switching contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NO contact                                                                                                                   |
| number of NO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                                                                                                            |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                              |
| type of voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DC                                                                                                                           |
| <b>Inputs/ Outputs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                              |
| property of the output short-circuit proof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                                                                                                          |
| switching voltage of the semiconductor output at DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 ... 30 V                                                                                                                  |
| ampacity of the semiconductor output at DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 mA                                                                                                                         |
| <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> <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>                                                                                                                                                                                                                                                                                                                           | 2 kV<br>2 kV<br>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>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |
| product function removable terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No                                                                                                                           |
| type of electrical connection <ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | screw-type terminals                                                                                                         |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• for 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>1x (20 ... 14)                                   |
| connectable conductor cross-section <ul style="list-style-type: none"> <li>• solid</li> <li>• 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>                                                                 |
| <b>AWG number as coded connectable conductor cross section</b> <ul style="list-style-type: none"> <li>• solid</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 20 ... 14                                                                                                                    |
| tightening torque with screw-type terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.5 ... 0.6 N·m                                                                                                              |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                              |
| mounting position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | any                                                                                                                          |
| fastening method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | snap-on mounting                                                                                                             |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 93 mm                                                                                                                        |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.2 mm                                                                                                                       |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 75 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> </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 |

— at the side

0 mm

#### Ambient conditions

|                                                         |                |
|---------------------------------------------------------|----------------|
| 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 %    |

#### Approvals Certificates

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

[Environmental Con-  
firmations](#)



|     |                   |                      |       |
|-----|-------------------|----------------------|-------|
| EMV | Test Certificates | Maritime application | other |
|-----|-------------------|----------------------|-------|



[Type Test Certi-  
ficates/Test Report](#)



[Confirmation](#)



#### 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=3RQ3065-1SM30>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3065-1SM30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3065-1SM30>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3065-1SM30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3065-1SM30&lang=en)



