



output coupler with integrated relay, 230 V AC/DC, 1 change-over contact, spring-loaded terminal (push-in), 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                                                                                        | 1.2 W                                       |
| consumed active power                                                                                         | 1.3 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                                  |
| SVHC substance name                                                                                           | Lead - 7439-92-1                            |
| Weight                                                                                                        | 34 g                                        |
| <b>Control circuit/ Control</b>                                                                               |                                             |
| control supply voltage at AC                                                                                  |                                             |
| • at 50 Hz rated value                                                                                        | 230 V                                       |
| • at 60 Hz rated value                                                                                        | 230 V                                       |
| control supply voltage frequency                                                                              |                                             |

|                                                                                                                 |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 1 rated value</li> </ul>                                               | 50 Hz                                                                              |
| <ul style="list-style-type: none"> <li>• 2 rated value</li> </ul>                                               | 60 Hz                                                                              |
| <b>control supply voltage at DC rated value</b>                                                                 | 230 V                                                                              |
| <b>operating range factor control supply voltage rated value at DC</b>                                          |                                                                                    |
| <ul style="list-style-type: none"> <li>• initial value</li> </ul>                                               | 0.8                                                                                |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                            | 1.1                                                                                |
| <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> </ul>                                               | 0.8                                                                                |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                            | 1.1                                                                                |
| <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> </ul>                                               | 0.8                                                                                |
| <ul style="list-style-type: none"> <li>• full-scale value</li> </ul>                                            | 1.1                                                                                |
| <b>ON-delay time</b>                                                                                            |                                                                                    |
| <ul style="list-style-type: none"> <li>• at AC maximum</li> </ul>                                               | 10 ms                                                                              |
| <ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>                                               | 8 ms                                                                               |
| <b>OFF-delay time maximum</b>                                                                                   | 10 ms                                                                              |
| <b>Switching Function</b>                                                                                       |                                                                                    |
| <b>design of the switching function positively driven</b>                                                       | No                                                                                 |
| <b>Digital Outputs</b>                                                                                          |                                                                                    |
| <b>property of the output short-circuit proof</b>                                                               | No                                                                                 |
| <b>Mechanical data</b>                                                                                          |                                                                                    |
| <b>product component plug-in socket</b>                                                                         | No                                                                                 |
| <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>                                                       |                                                                                    |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                     | 3 A                                                                                |
| <ul style="list-style-type: none"> <li>• at 250 V</li> </ul>                                                    | 3 A                                                                                |
| <b>operational current of auxiliary contacts at DC-13</b>                                                       |                                                                                    |
| <ul style="list-style-type: none"> <li>• at 24 V</li> </ul>                                                     | 1 A                                                                                |
| <ul style="list-style-type: none"> <li>• at 125 V</li> </ul>                                                    | 0.2 A                                                                              |
| <ul style="list-style-type: none"> <li>• at 250 V</li> </ul>                                                    | 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                                                                              |
| 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> </ul>                                                     | 1 A                                                                                |
| <ul style="list-style-type: none"> <li>• at 125 V</li> </ul>                                                    | 0.2 A                                                                              |
| <ul style="list-style-type: none"> <li>• at 250 V</li> </ul>                                                    | 0.1 A                                                                              |
| <b>Electromagnetic compatibility</b>                                                                            |                                                                                    |
| <b>electromagnetic compatibility</b>                                                                            | 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                                                |
| <b>conducted interference</b>                                                                                   |                                                                                    |
| <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> </ul>                     | 2 kV                                                                               |
| <ul style="list-style-type: none"> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> </ul>     | 2 kV                                                                               |
| <ul style="list-style-type: none"> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul> | 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                                                                          |

| Safety related data                                     |       |                                   |
|---------------------------------------------------------|-------|-----------------------------------|
| B10d value                                              |       | 1 200 000                         |
| Connections/ Terminals                                  |       |                                   |
| product function removable terminal                     |       | No                                |
| type of electrical connection                           |       | spring-loaded terminals (push-in) |
| • for auxiliary and control circuit                     |       |                                   |
| type of connectable conductor cross-sections            |       |                                   |
| • solid                                                 |       |                                   |
| • finely stranded with core end processing              |       |                                   |
| • finely stranded without core end processing           |       |                                   |
| • for AWG cables solid                                  |       |                                   |
| • for AWG cables stranded                               |       |                                   |
| connectable conductor cross-section                     |       |                                   |
| • solid                                                 |       |                                   |
| • finely stranded with core end processing              |       |                                   |
| • finely stranded without core end processing           |       |                                   |
| AWG number as coded connectable conductor cross section |       |                                   |
| • solid                                                 |       |                                   |
| • stranded                                              |       |                                   |
| size of the screwdriver tip                             |       | PZ1                               |
| 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                                              |       |                                   |
| — backwards                                             |       |                                   |
| — upwards                                               |       |                                   |
| — downwards                                             |       |                                   |
| — at the side                                           |       |                                   |
| • for grounded parts                                    |       |                                   |
| — forwards                                              |       |                                   |
| — backwards                                             |       |                                   |
| — upwards                                               |       |                                   |
| — at the side                                           |       |                                   |
| — downwards                                             |       |                                   |
| • for live parts                                        |       |                                   |
| — forwards                                              |       |                                   |
| — backwards                                             |       |                                   |
| — upwards                                               |       |                                   |
| — downwards                                             |       |                                   |
| — at the side                                           |       |                                   |
| Ambient conditions                                      |       |                                   |
| installation altitude at height above sea level maximum |       | 2 000 m                           |
| ambient temperature                                     |       |                                   |
| • during operation                                      |       |                                   |
| • during storage                                        |       |                                   |
| • during transport                                      |       |                                   |
| relative humidity during operation                      |       | 10 ... 95 %                       |
| Approvals Certificates                                  |       |                                   |
| General Product Ap-<br>proval                           | other | Environment                       |

## 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=3RQ4018-2AF00>

## Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ4018-2AF00>

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

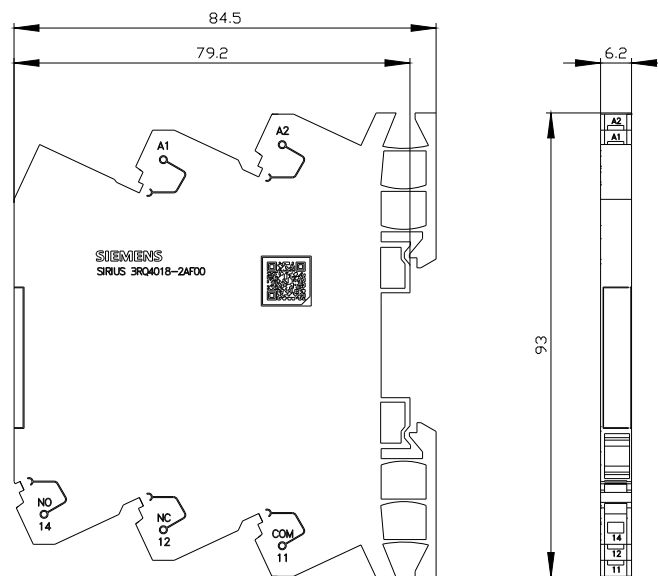
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ4018-2AF00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ4018-2AF00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ4018-2AF00&lang=en)

## Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ4018-2AF00/manual>



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