

Output coupler with plug-in relay, 1 CO Spring-type terminal (push-in) 24 V DC Enclosure width 6.2 mm Thermal current 6 A



Figure similar

|                          |  |                                            |
|--------------------------|--|--------------------------------------------|
| Article number           |  |                                            |
| 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 links                      |
| Product type designation |  | 3RQ3                                       |

| General technical data                                |    |     |
|-------------------------------------------------------|----|-----|
| Display version LED                                   |    | Yes |
| Product component                                     |    |     |
| • Relay output                                        |    | Yes |
| • semi-conductor output                               |    | No  |
| Consumed active power                                 | W  | 0.3 |
| Insulation voltage                                    |    |     |
| • for overvoltage category III according to IEC 60664 |    |     |
| — with degree of pollution 3 rated value              | V  | 300 |
| Surge voltage resistance rated value                  | kV | 4   |
| maximum permissible voltage for safe isolation        |    |     |

|                                                                |     |                                  |
|----------------------------------------------------------------|-----|----------------------------------|
| • between control and auxiliary circuit                        | V   | 300                              |
| <b>Percental drop-out voltage related to the input voltage</b> | %   | 10                               |
| <b>Protection class IP</b>                                     |     | IP20                             |
| <b>Shock resistance</b>                                        |     |                                  |
| • acc. to IEC 60068-2-27                                       |     | sinusoidal half-wave 15g / 11 ms |
| <b>Vibration resistance</b>                                    |     |                                  |
| • acc. to IEC 60068-2-6                                        |     | 6 ... 150 Hz: 2 g                |
| <b>Operating frequency maximum</b>                             | 1/h | 72 000                           |
| <b>Switching behavior</b>                                      |     | monostable                       |
| <b>Mechanical service life (switching cycles)</b>              |     |                                  |
| • typical                                                      |     | 10 000 000                       |
| <b>Electrical endurance (switching cycles)</b>                 |     |                                  |
| • at AC-15 at 230 V typical                                    |     | 100 000                          |
| <b>Thermal current</b>                                         | A   | 6                                |
| <b>Equipment marking</b>                                       |     |                                  |
| • acc. to DIN EN 61346-2                                       |     | K                                |
| • acc. to DIN EN 81346-2                                       |     | K                                |

#### Control circuit/ Control

|                                                                        |    |       |
|------------------------------------------------------------------------|----|-------|
| <b>Control supply voltage at DC</b>                                    |    |       |
| • rated value                                                          | V  | 24    |
| <b>Operating range factor control supply voltage rated value at DC</b> |    |       |
| • initial value                                                        |    | 0.8   |
| • Full-scale value                                                     |    | 1.25  |
| <b>Off-delay time</b>                                                  | ms | 13    |
| <b>Closing delay</b>                                                   |    |       |
| • at DC                                                                | ms | 6     |
| <b>Opening delay</b>                                                   |    |       |
| • at DC                                                                | ms | 13    |
| <b>Design of the relay operating mechanism</b>                         |    | poled |
| <b>Product component Plug-in socket</b>                                |    | Yes   |

#### Short-circuit protection

|                                                                 |  |              |
|-----------------------------------------------------------------|--|--------------|
| <b>Design of the fuse link</b>                                  |  |              |
| • for short-circuit protection of the auxiliary switch required |  | fuse gG: 4 A |

#### Auxiliary circuit

|                                                         |  |                    |
|---------------------------------------------------------|--|--------------------|
| <b>Type of switching contact</b>                        |  | Changeover contact |
| <b>Material of switching contacts</b>                   |  | AgSnO2             |
| <b>Number of CO contacts</b>                            |  |                    |
| • for auxiliary contacts                                |  | 1                  |
| <b>Operating current of auxiliary contacts at AC-15</b> |  |                    |

|                                                         |   |                                                                                    |
|---------------------------------------------------------|---|------------------------------------------------------------------------------------|
| • at 24 V                                               | A | 3                                                                                  |
| • at 250 V                                              | A | 3                                                                                  |
| <b>Operating current of auxiliary contacts at DC-13</b> |   |                                                                                    |
| • at 24 V                                               | A | 1                                                                                  |
| • at 125 V                                              | A | 0.2                                                                                |
| • at 250 V                                              | A | 0.1                                                                                |
| <b>Contact reliability of auxiliary contacts</b>        |   | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |

#### Main circuit

|                        |  |    |
|------------------------|--|----|
| <b>Type of voltage</b> |  | DC |
|------------------------|--|----|

#### Inputs/ Outputs

|                                                   |  |    |
|---------------------------------------------------|--|----|
| <b>Property of the output Short-circuit proof</b> |  | No |
|---------------------------------------------------|--|----|

#### Outputs

|                                              |   |     |
|----------------------------------------------|---|-----|
| <b>Ampacity of the output relay at AC-15</b> |   |     |
| • at 250 V at 50/60 Hz                       | A | 3   |
| <b>Ampacity of the output relay at DC-13</b> |   |     |
| • at 24 V                                    | A | 1   |
| • at 125 V                                   | A | 0.2 |
| • at 250 V                                   | A | 0.1 |

#### Electromagnetic compatibility

|                                                             |  |                                             |
|-------------------------------------------------------------|--|---------------------------------------------|
| <b>EMC emitted interference</b>                             |  |                                             |
| • acc. to IEC 60947-1                                       |  | ambience A (industrial sector)              |
| <b>EMI immunity</b>                                         |  |                                             |
| • acc. to IEC 60947-1                                       |  | corresponds to degree of severity 3         |
| <b>Conducted interference</b>                               |  |                                             |
| • due to burst acc. to IEC 61000-4-4                        |  | 2 kV                                        |
| • due to conductor-earth surge acc. to IEC 61000-4-5        |  | 2 kV                                        |
| • due to conductor-conductor surge acc. to IEC 61000-4-5    |  | 1 kV                                        |
| <b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b> |  | 10 V/m                                      |
| <b>Electrostatic discharge acc. to IEC 61000-4-2</b>        |  | 6 kV contact discharge / 8 kV air discharge |

#### Display

|                            |  |           |
|----------------------------|--|-----------|
| <b>Display version</b>     |  |           |
| • as status display by LED |  | LED green |

#### Connections/Terminals

|                                             |  |                                               |
|---------------------------------------------|--|-----------------------------------------------|
| <b>Product function</b>                     |  |                                               |
| • removable terminal                        |  | No                                            |
| <b>Type of electrical connection</b>        |  |                                               |
| • for auxiliary and control current circuit |  | PUSH-IN connection (spring-loaded connection) |

|                                                                |     |                       |
|----------------------------------------------------------------|-----|-----------------------|
| <b>Wire length</b>                                             |     |                       |
| • at DC maximum                                                | m   | 1 000                 |
| <b>Type of connectable conductor cross-sections</b>            |     |                       |
| • solid                                                        |     | 1x (0.25 ... 2.5 mm²) |
| • finely stranded with core end processing                     |     | 1x (0.25 ... 1.5 mm²) |
| • finely stranded without core end processing                  |     | 1x (0.25 ... 2.5 mm²) |
| • at AWG conductors solid                                      |     | 1 x (20 ... 14)       |
| • at AWG conductors stranded                                   |     | 1x (20 ... 14)        |
| <b>Connectable conductor cross-section</b>                     |     |                       |
| • solid                                                        | mm² | 0.25 ... 2.5          |
| • finely stranded with core end processing                     | mm² | 0.25 ... 1.5          |
| • finely stranded without core end processing                  | mm² | 0.25 ... 2.5          |
| <b>AWG number as coded connectable conductor cross section</b> |     |                       |
| • solid                                                        |     | 20 ... 14             |
| • stranded                                                     |     | 20 ... 14             |

#### Installation/ mounting/ dimensions

|                              |    |                  |
|------------------------------|----|------------------|
| <b>Mounting position</b>     |    | any              |
| <b>Mounting type</b>         |    | snap-on mounting |
| <b>Height</b>                | mm | 93               |
| <b>Width</b>                 | mm | 6.2              |
| <b>Depth</b>                 | mm | 76               |
| <b>Required spacing</b>      |    |                  |
| • with side-by-side mounting |    |                  |
| — forwards                   | mm | 0                |
| — Backwards                  | mm | 0                |
| — upwards                    | mm | 0                |
| — downwards                  | mm | 0                |
| — at the side                | mm | 0                |
| • for grounded parts         |    |                  |
| — forwards                   | mm | 0                |
| — Backwards                  | mm | 0                |
| — upwards                    | mm | 0                |
| — at the side                | mm | 0                |
| — downwards                  | mm | 0                |
| • for live parts             |    |                  |
| — forwards                   | mm | 0                |
| — Backwards                  | mm | 0                |
| — upwards                    | mm | 0                |
| — downwards                  | mm | 0                |
| — at the side                | mm | 0                |

## Ambient conditions

|                                                        |    |             |
|--------------------------------------------------------|----|-------------|
| <b>Installation altitude at height above sea level</b> |    |             |
| • maximum                                              | m  | 2 000       |
| <b>Ambient temperature</b>                             |    |             |
| • during operation                                     | °C | -25 ... +60 |
| • during storage                                       | °C | -40 ... +85 |
| • during transport                                     | °C | -40 ... +85 |
| <b>Relative humidity</b>                               |    |             |
| • during operation                                     | %  | 10 ... 95   |

## Certificates/approvals

| General Product Approval                                                          |                                                                                   | Declaration of Conformity                                                         | other                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |    |
| CCC                                                                               | CSA                                                                               | UL                                                                                | EG-Konf.                                                                            |
|                                                                                   |                                                                                   |                                                                                   |  |
|                                                                                   |                                                                                   |                                                                                   | <a href="#">Confirmation</a>                                                        |

## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3118-2AM00>

### Cax online generator

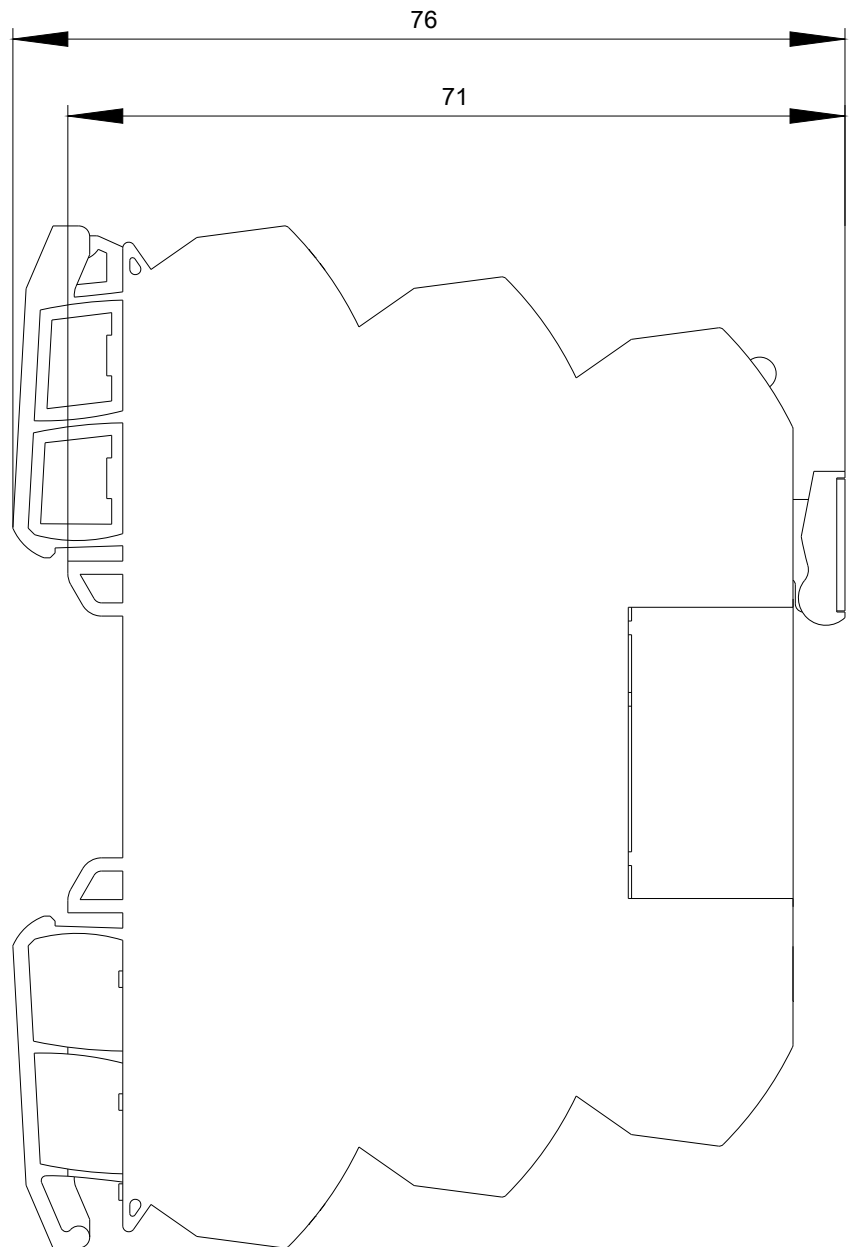
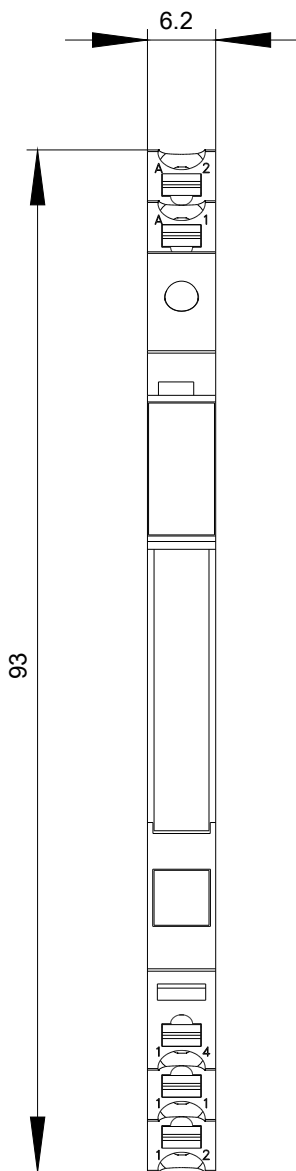
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-2AM00>

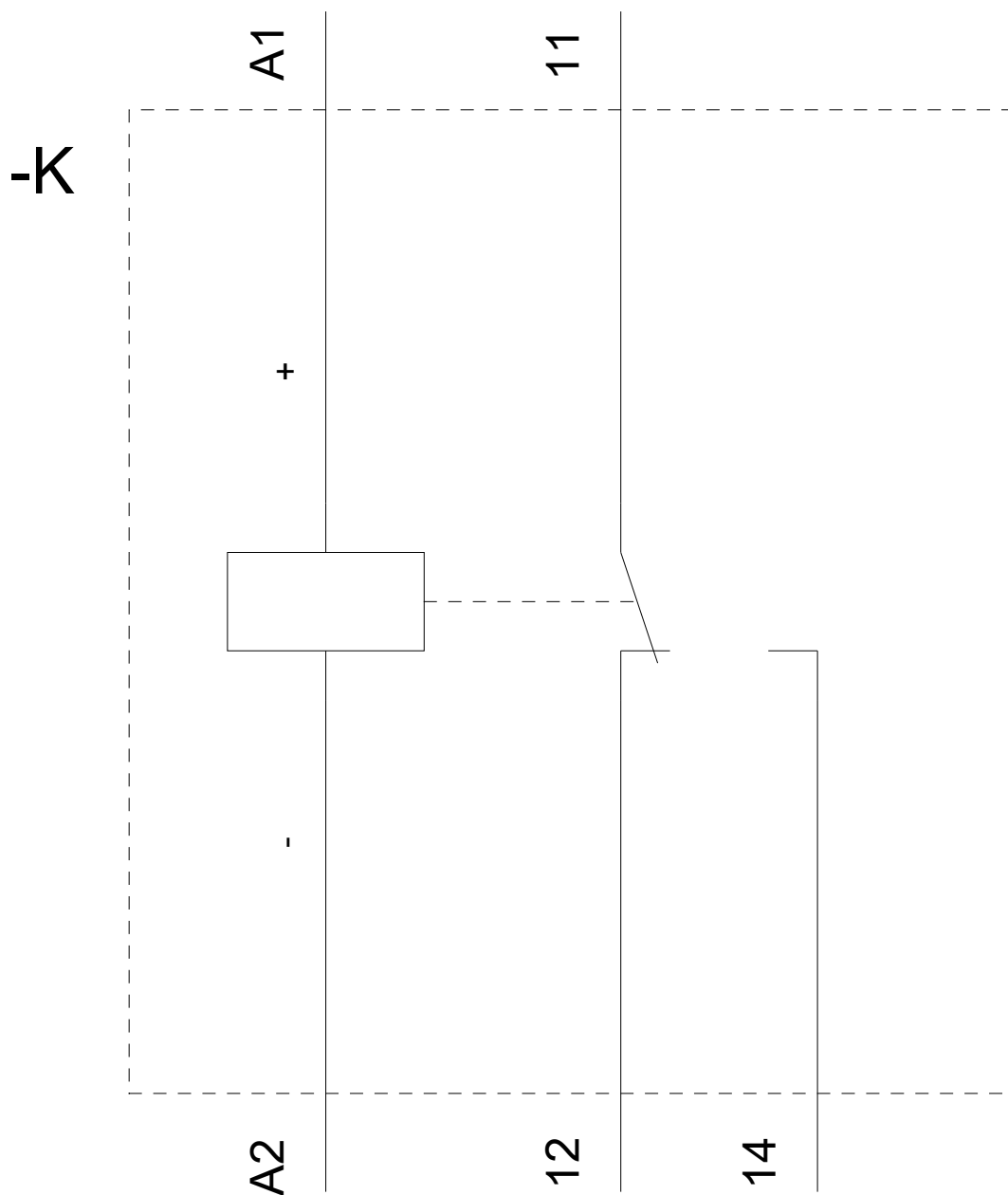
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AM00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3118-2AM00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-2AM00&lang=en)





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