

Output coupler with plug-in Relay, 1 change-over contact screw terminal 24 V DC Enclosure width 6.2 mm Thermal current 6A



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

General technical data	
Display version LED	Yes
Product component	
• Relay output	Yes
• semi-conductor output	No
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 safe isolation	
• between control and auxiliary circuit	300 V

<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>	72 000 1/h
<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>	6 A
<b>Reference code acc. to DIN EN 81346-2</b>	K

#### Control circuit/ Control

<b>Control supply voltage at DC</b> • rated value	24 V
<b>Operating range factor control supply voltage rated value at DC</b> • initial value • Full-scale value	0.8 1.25
<b>Switch-on delay time</b> • at DC maximum	12 ms
<b>Off-delay time</b>	13 ms
<b>Closing delay</b> • at DC	6 ms
<b>Opening delay</b> • at DC	13 ms
<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
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#### 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	3 A

<ul style="list-style-type: none"> <li>• at 250 V</li> </ul>	3 A
<b>Operating current of auxiliary contacts at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 125 V</li> <li>• at 250 V</li> </ul>	1 A 0.2 A 0.1 A
<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
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### Inputs/ Outputs

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

<b>Ampacity of the output relay at AC-15</b>	
<ul style="list-style-type: none"> <li>• at 250 V at 50/60 Hz</li> </ul>	3 A
<b>Ampacity of the output relay at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 125 V</li> <li>• at 250 V</li> </ul>	1 A 0.2 A 0.1 A

### Electromagnetic compatibility

<b>EMC emitted interference</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	ambience A (industrial sector)
<b>EMI immunity</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	corresponds to degree of severity 3
<b>Conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst acc. to IEC 61000-4-4</li> <li>• due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>• due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	2 kV 2 kV 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>	
<ul style="list-style-type: none"> <li>• as status display by LED</li> </ul>	LED green

### Connections/ Terminals

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• removable terminal</li> </ul>	No
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>	screw-type terminals
<b>Wire length</b>	

<ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>	1 000 m
<b>Type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• at AWG conductors solid</li> </ul>	1x (0.25 ... 2.5 mm <sup>2</sup> ) 1x (0.25 ... 1.5 mm <sup>2</sup> ) 1 x (20 ... 14)
<b>Connectable conductor cross-section</b> <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> 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
<b>Tightening torque</b> <ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	0.5 ... 0.6 N·m

### Installation/ mounting/ dimensions

<b>Mounting position</b>	any
<b>Mounting type</b>	snap-on mounting
<b>Height</b>	93 mm
<b>Width</b>	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</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> <li>— at the side</li> </ul> </li> </ul>	0 mm 0 mm 0 mm 0 mm 0 mm  0 mm 0 mm 0 mm 0 mm 0 mm  0 mm 0 mm 0 mm 0 mm 0 mm

### Ambient conditions

<b>Installation altitude at height above sea level</b> <ul style="list-style-type: none"> <li>• maximum</li> </ul>	2 000 m
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## Relative humidity

- during operation

10 ... 95 %

## Certificates/ approvals

### General Product Approval

### EMC

### Declaration of Conformity



CCC



CSA



UL



RCM



EG-Konf.

### Declaration of Conformity

### Marine / Ship- ping

### other

[Miscellaneous](#)



[Confirmation](#)

## Further information

### 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

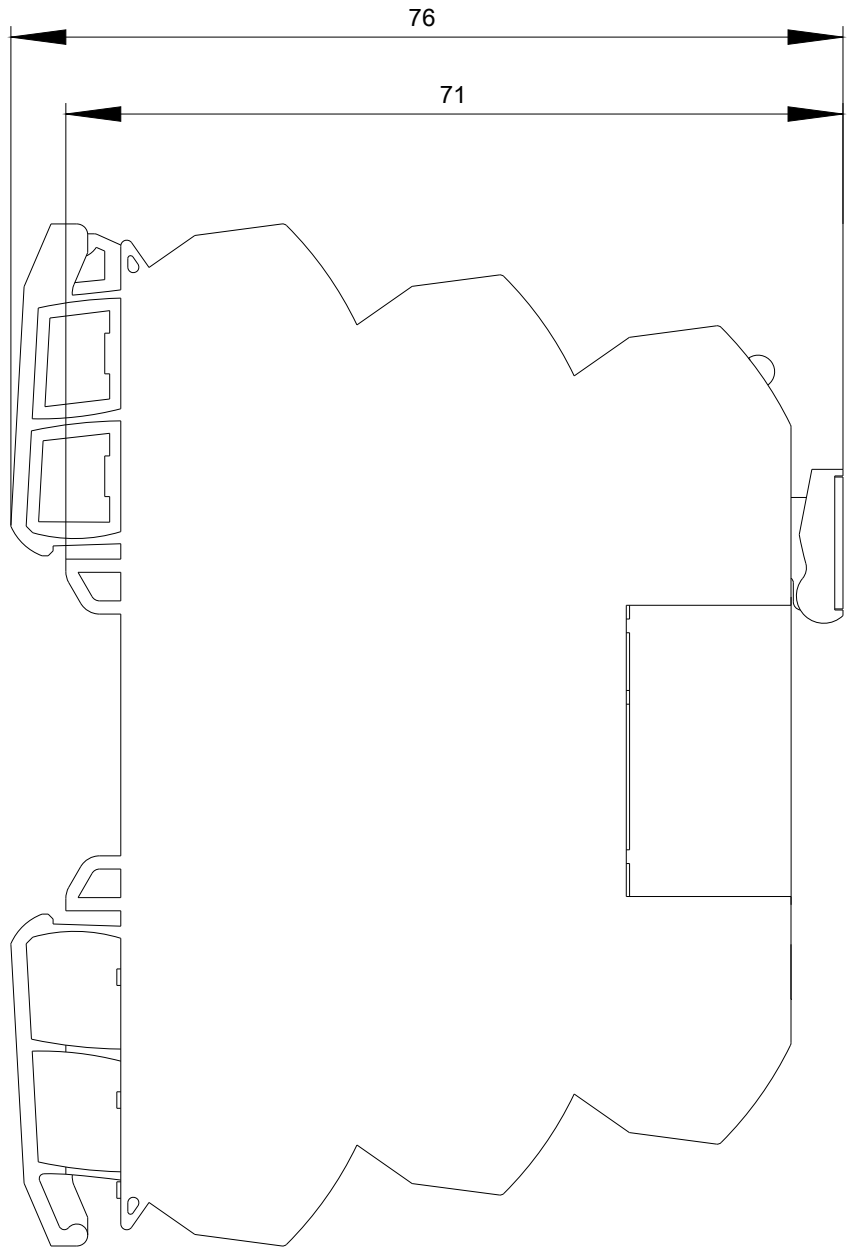
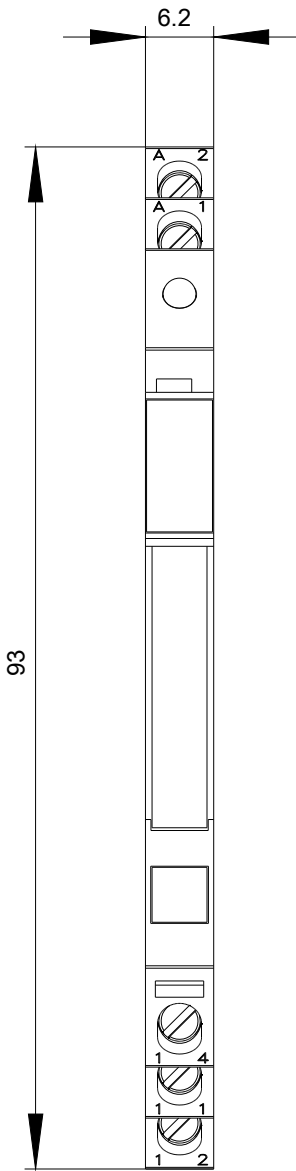
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AM00>

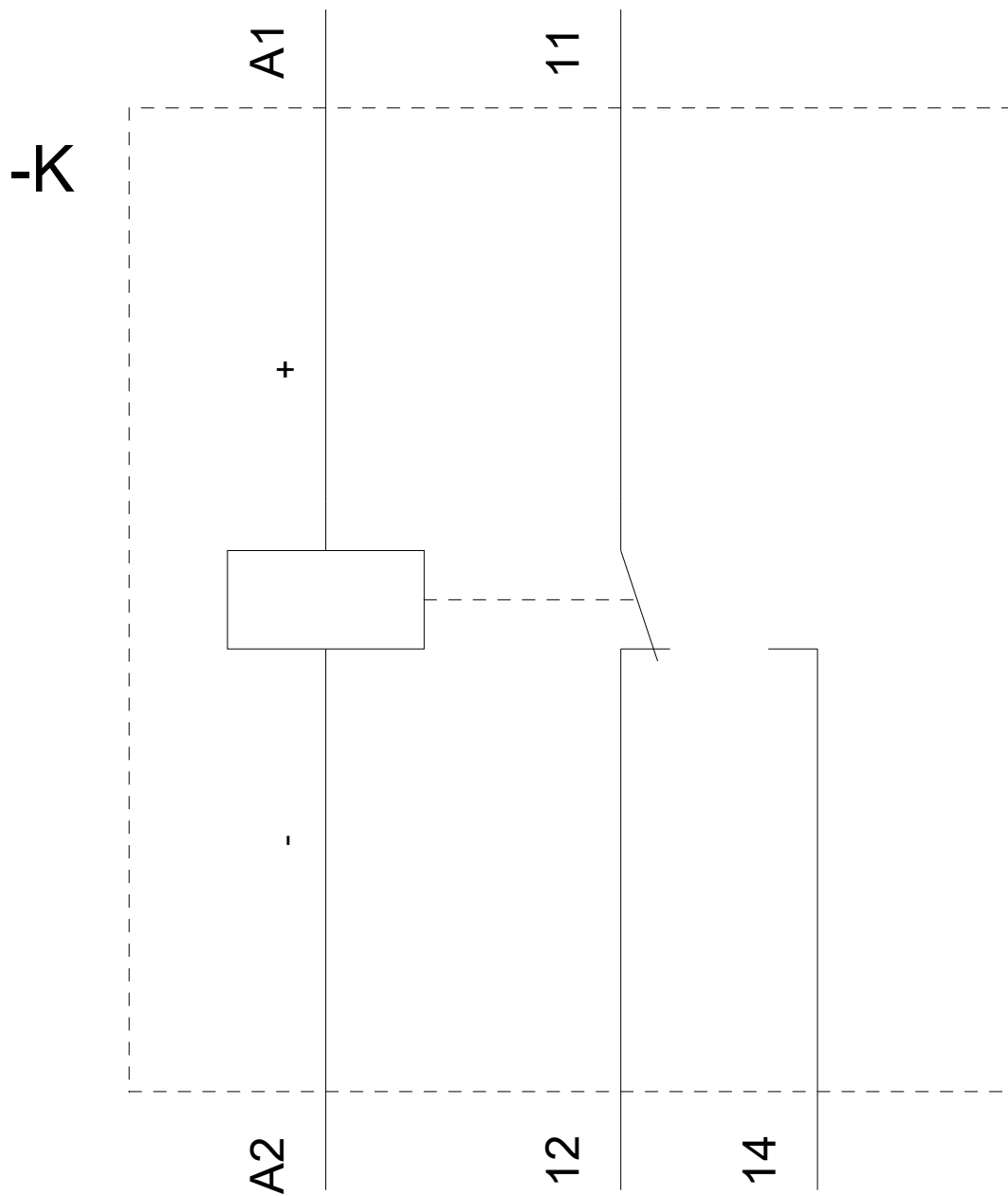
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<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, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3118-1AM00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AM00&lang=en)





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