

Output coupler with plug-in Relay, 1 change-over contact screw terminal 24 V AC/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
Surge voltage resistance rated value	4 kV
maximum permissible voltage for safe isolation	
• between control and auxiliary circuit	300 V
Percental drop-out voltage related to the input voltage	10 %
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms

<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
<b>Reference code acc. to DIN EN 61346-2</b>	K

#### Control circuit/ Control

<b>Control supply voltage at AC</b>	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
<b>Control supply voltage frequency</b>	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
<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	0.8
• Full-scale value	1.25
<b>Operating range factor control supply voltage rated value at AC at 50 Hz</b>	
• initial value	0.8
• Full-scale value	1.25
<b>Operating range factor control supply voltage rated value at AC at 60 Hz</b>	
• initial value	0.8
• Full-scale value	1.25
<b>Switch-on delay time</b>	
• at AC maximum	12 ms
• at DC maximum	12 ms
<b>Off-delay time</b>	14 ms
<b>Closing delay</b>	
• at AC	12 ms
• at DC	6 ms
<b>Opening delay</b>	
• at AC	14 ms
• 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>	fuse gG: 4 A
<ul style="list-style-type: none"> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	
Auxiliary circuit	
<b>Type of switching contact</b>	Changeover contact
<b>Material of switching contacts</b>	AgSnO <sub>2</sub>
<b>Number of CO contacts</b>	1
<ul style="list-style-type: none"> <li>for auxiliary contacts</li> </ul>	
<b>Operating current of auxiliary contacts at AC-15</b>	3 A
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 250 V</li> </ul>	
<b>Operating current of auxiliary contacts at DC-13</b>	1 A 0.2 A 0.1 A
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 125 V</li> <li>at 250 V</li> </ul>	
<b>Contact reliability of auxiliary contacts</b>	
Main circuit	
<b>Type of voltage</b>	AC/DC
Inputs/ Outputs	
<b>Property of the output Short-circuit proof</b>	No
Outputs	
<b>Ampacity of the output relay at AC-15</b>	3 A
<ul style="list-style-type: none"> <li>at 250 V at 50/60 Hz</li> </ul>	
<b>Ampacity of the output relay at DC-13</b>	1 A 0.2 A 0.1 A
<ul style="list-style-type: none"> <li>at 24 V</li> <li>at 125 V</li> <li>at 250 V</li> </ul>	
Electromagnetic compatibility	
<b>EMC emitted interference</b>	ambience A (industrial sector)
<ul style="list-style-type: none"> <li>acc. to IEC 60947-1</li> </ul>	
<b>EMI immunity</b>	corresponds to degree of severity 3
<ul style="list-style-type: none"> <li>acc. to IEC 60947-1</li> </ul>	
<b>Conducted interference</b>	2 kV 2 kV 1 kV
<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>	
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>	10 V/m

Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
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### Display

<b>Display version</b>	LED green
<ul style="list-style-type: none"> <li>as status display by LED</li> </ul>	

### Connections/ Terminals

<b>Product function</b>	No
<ul style="list-style-type: none"> <li>removable terminal</li> </ul>	
<b>Type of electrical connection</b>	screw-type terminals
<ul style="list-style-type: none"> <li>for auxiliary and control current circuit</li> </ul>	
<b>Wire length</b>	
<ul style="list-style-type: none"> <li>at AC maximum</li> <li>at DC maximum</li> </ul>	500 m 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> </ul> </li> </ul>	0 mm 0 mm 0 mm 0 mm 0 mm  0 mm 0 mm 0 mm

— at the side	0 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm

**Ambient conditions**

<b>Installation altitude at height above sea level</b>	
• maximum	2 000 m
<b>Relative humidity</b>	
• during operation	10 ... 95 %

**Certificates/ approvals**

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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<b>Declaration of Conformity</b>	<b>Marine / Ship-ping</b>	<b>other</b>
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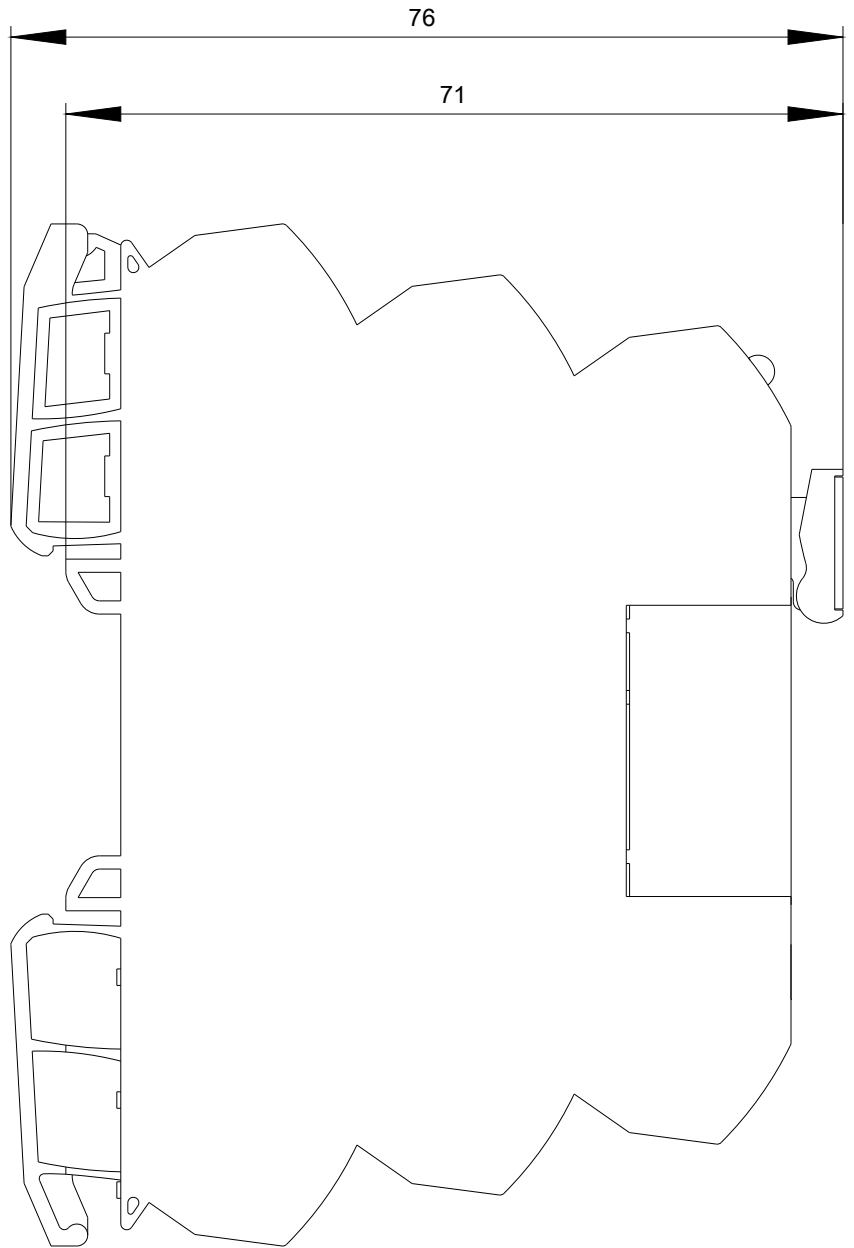
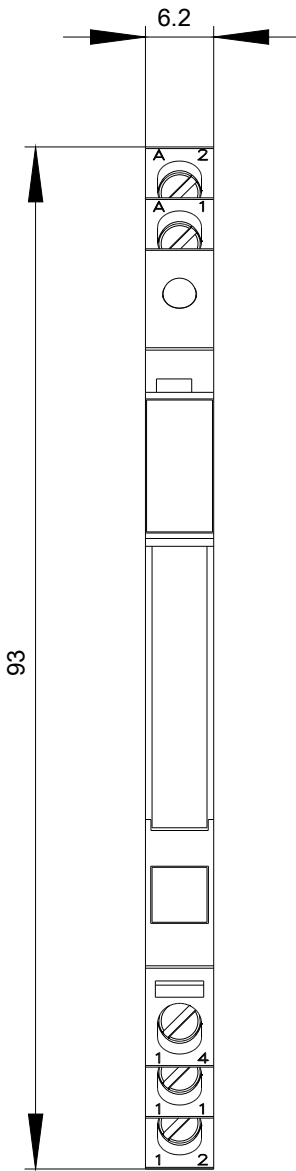
[Miscellaneous](#)

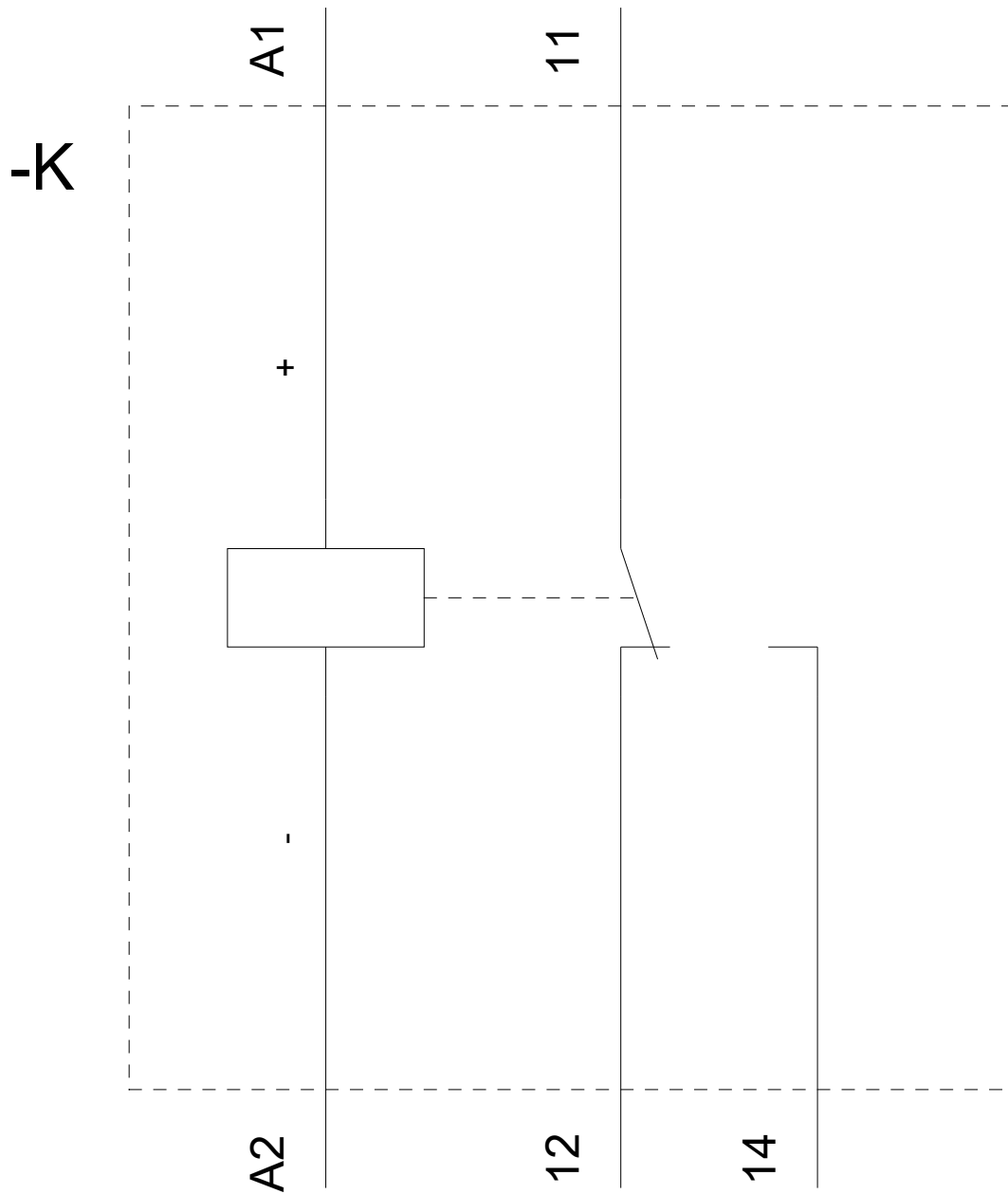


[Confirmation](#)

**Further information**

- Information- and Downloadcenter (Catalogs, Brochures,...)**  
[www.siemens.com/sirius/catalogs](http://www.siemens.com/sirius/catalogs)
- Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3118-1AB00>
- Cax online generator**  
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AB00>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AB00>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3118-1AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AB00&lang=en)





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