

Output coupler with plug-in Relay, 1 CO, hard gold-plated Screw terminal 115 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	0.5 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	9.6 %
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms

Operating frequency maximum	72 000 1/h
Switching behavior	monostable
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
Thermal current	6 A
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K

#### Control circuit/ Control

Control supply voltage at AC	
• at 50 Hz rated value	115 V
• at 60 Hz rated value	115 V
Control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
Control supply voltage at DC	
• rated value	115 V
Operating range factor control supply voltage rated value at DC	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.8
• Full-scale value	1.1
Switch-on delay time	
• at AC maximum	8 ms
• at DC maximum	6 ms
Off-delay time	17 ms
Closing delay	
• at AC	12 ms
• at DC	5 ms
Opening delay	
• at AC	12 ms
• at DC	10 ms
Design of the relay operating mechanism	poled
Product component Plug-in socket	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> -HTV
<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
---	---

### 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 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

General Product Approval			EMC	Declaration of Conformity
				
CCC	CSA	UL		EG-Konf.

Declaration of Conformity	Marine / Ship-ping	other
<a href="#">Miscellaneous</a>		<a href="#">Confirmation</a>

### 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=3RQ3118-1AE01>

**Cax online generator**

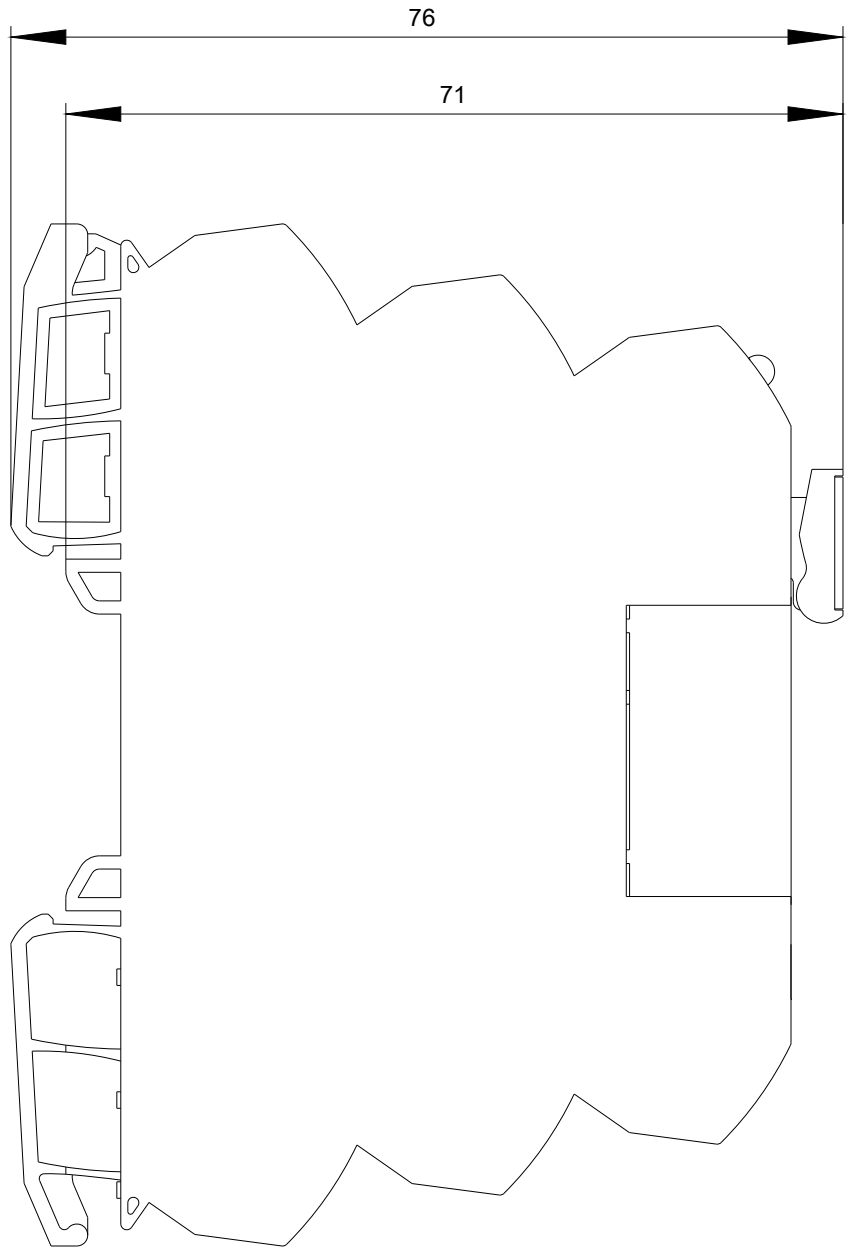
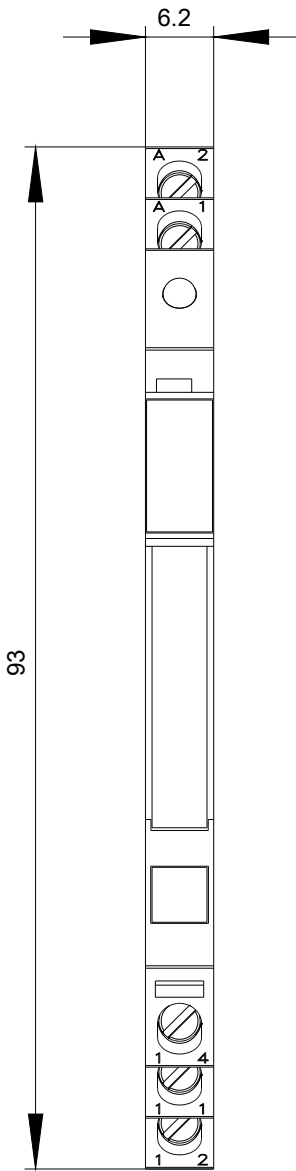
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-1AE01>

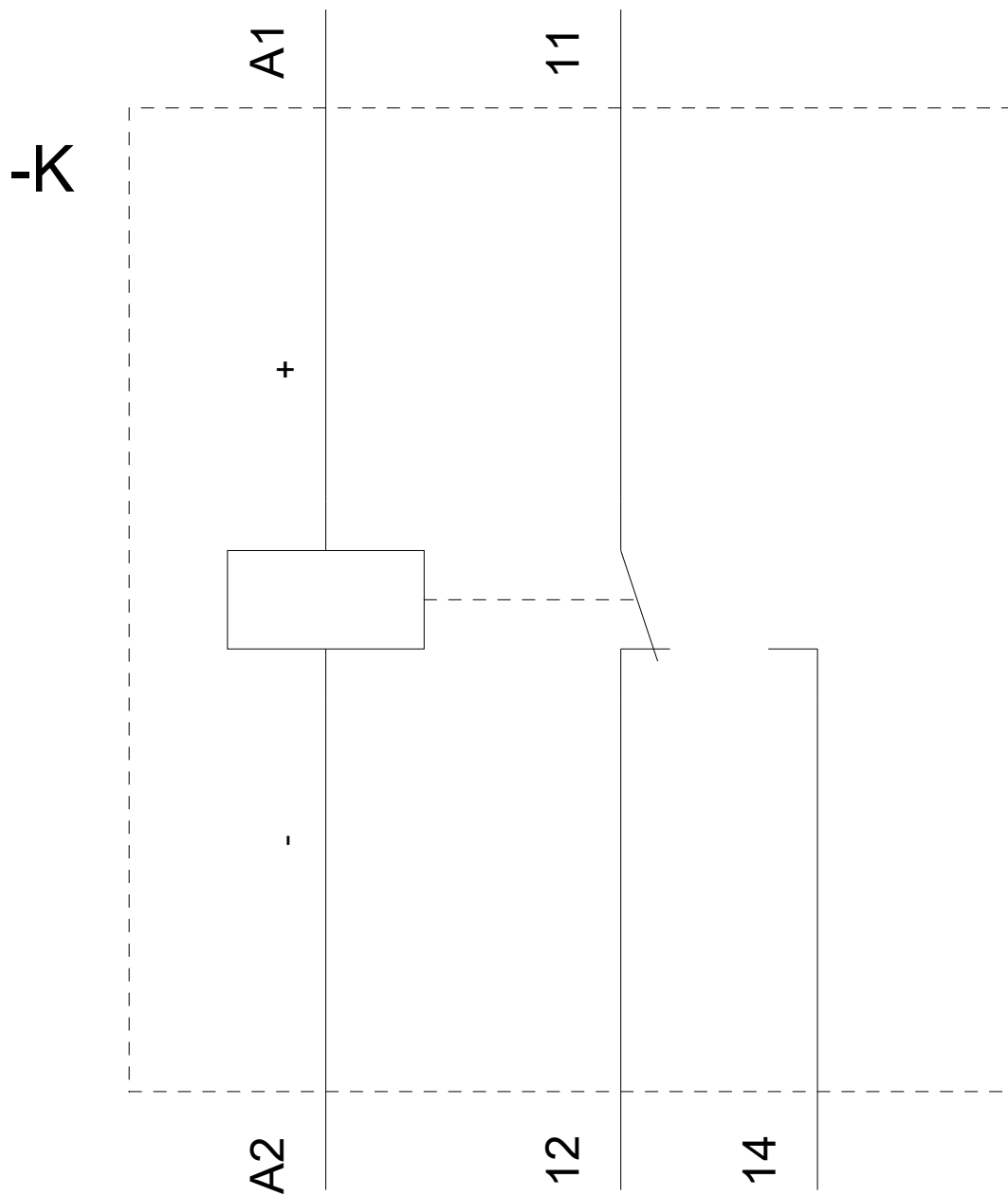
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-1AE01>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3118-1AE01&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-1AE01&lang=en)





last modified:

07/26/2019