

Output coupler with plug-in relay, 1 CO Spring-type terminal (push-in) 230 V AC/DC Enclosure width 6.2 mm Thermal current 6 A



Figure similar

product brandname		SIRIUS
Product designation		Coupling relays with plug-in relay
Design of the product		Output coupling links

General technical data		
Product component Plug-in socket		Yes
Product component Relay output		Yes
Product component semi-conductor output		No
Consumed active power	W	1
Insulation voltage for overvoltage category III according to IEC 60664		
• with degree of pollution 3 rated value	V	300
Type of voltage		AC/DC
maximum permissible voltage for safe isolation		
• between control and auxiliary circuit	V	300
Percental drop-out voltage related to the input voltage	%	10
Thermal current	A	6
Opening delay		

• at AC	ms	20
• at DC	ms	18
<b>Closing delay</b>		
• at AC	ms	12
• at DC	ms	8
<b>Design of the switching function positively driven</b>		No
<b>Operating frequency maximum</b>	1/h	72 000
<b>Electrical endurance (switching cycles)</b>		
• at AC-15 at 230 V typical		100 000
<b>Mechanical service life (switching cycles) typical</b>		10 000 000
<b>Shock resistance acc. to IEC 60068-2-27</b>		sinusoidal half-wave 15g / 11 ms
<b>Vibration resistance acc. to IEC 60068-2-6</b>		6 ... 150 Hz: 2 g
<b>Surge voltage resistance rated value</b>	kV	4
<b>Protection class IP</b>		IP20
<b>Equipment marking</b>		
• acc. to DIN EN 81346-2		K
• acc. to DIN EN 61346-2		K
<b>Display version LED</b>		Yes

#### Control circuit/ Control

<b>Control supply voltage</b>		
• at AC		
— at 50 Hz rated value	V	230
— at 60 Hz rated value	V	230
• at DC rated value	V	230
<b>Operating range factor control supply voltage rated value</b>		
• at AC at 50 Hz		0.8 ... 1.1
• at AC at 60 Hz		0.8 ... 1.1
• at DC		0.8 ... 1.1

#### Auxiliary circuit

<b>Type of switching contact</b>		Changeover contact
<b>Material of switching contacts</b>		AgSnO2
<b>Type of electrical connection for auxiliary and control current circuit</b>		PUSH-IN connection (spring-loaded connection)
<b>Contact reliability of auxiliary contacts</b>		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
<b>Number of CO contacts for auxiliary contacts</b>		1
<b>Operating current of auxiliary contacts</b>		
• at DC-13 at 24 V	A	1
• at DC-13 at 125 V	A	0.2
• at DC-13 at 250 V	A	0.1
• at AC-15 at 24 V	A	3

- at AC-15 at 250 V

A	3
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### Short-circuit protection

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

<b>Property of the output Short-circuit proof</b>		No
<b>Ampacity of the output relay</b>		
<ul style="list-style-type: none"> <li>• at AC-15 at 250 V at 50/60 Hz</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at DC-13</li> </ul>		
— at 24 V	A	1
— at 125 V	A	0.2
— at 250 V	A	0.1

### Electromagnetic compatibility

<b>EMC emitted interference acc. to IEC 60947-1</b>		ambience A (industrial sector)
<b>EMI immunity acc. to IEC 60947-1</b>		corresponds to degree of severity 3
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>		10 V/m
<b>Conducted interference</b>		
<ul style="list-style-type: none"> <li>• due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>		2 kV
<ul style="list-style-type: none"> <li>• due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>		1 kV
<ul style="list-style-type: none"> <li>• due to burst acc. to IEC 61000-4-4</li> </ul>		2 kV
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>		6 kV contact discharge / 8 kV air discharge

### Connections/Terminals

<b>Design of the snap-on socket base</b>		SNR
<b>Type of connectable conductor cross-sections</b>		
<ul style="list-style-type: none"> <li>• solid</li> </ul>		1x (0.25 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>		1x (0.25 ... 1.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>		1x (0.25 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• at AWG conductors solid</li> </ul>		1 x (20 ... 14)
<ul style="list-style-type: none"> <li>• at AWG conductors stranded</li> </ul>		1x (20 ... 14)
<b>Connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>• solid</li> </ul>	mm <sup>2</sup>	0.25 ... 2.5
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	mm <sup>2</sup>	0.25 ... 1.5
<ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>	mm <sup>2</sup>	0.25 ... 2.5
<b>AWG number as coded connectable conductor cross section</b>		
<ul style="list-style-type: none"> <li>• stranded</li> </ul>		20 ... 14
<ul style="list-style-type: none"> <li>• solid</li> </ul>		20 ... 14
<b>Wire length</b>		
<ul style="list-style-type: none"> <li>• at AC maximum</li> </ul>	m	500

- at DC maximum

m	1 000
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### 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>		
<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>— downwards</li> <li>— at the side</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>	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

### Ambient conditions

<b>Installation altitude at height above sea level maximum</b>	m	2 000
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	°C	-25 ... +60
	°C	-40 ... +85
	°C	-40 ... +85
<b>Relative humidity during operation</b>	%	10 ... 95

### Further information

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

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

**Industry Mall (Online ordering system)**

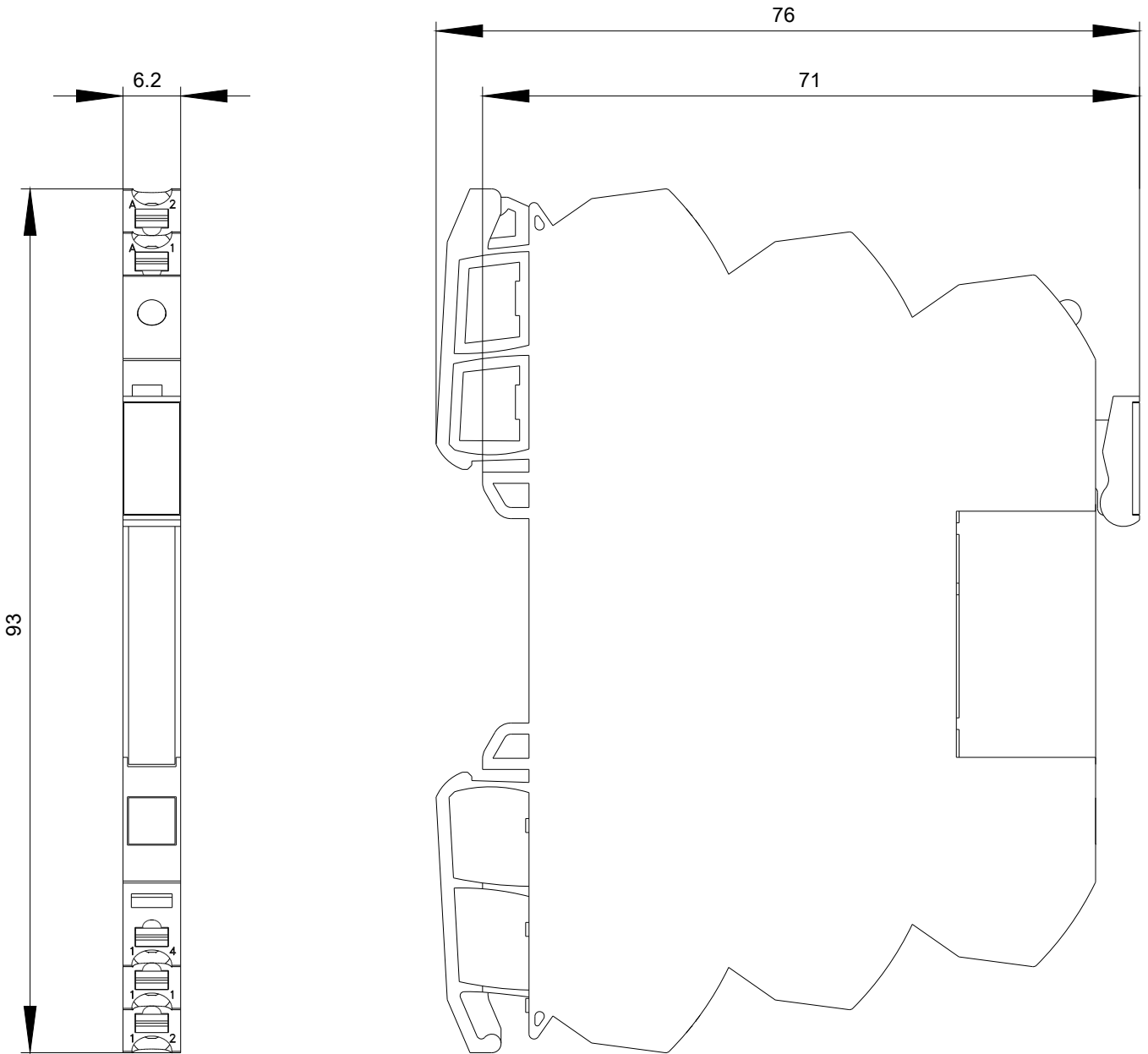
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3118-2AF00>

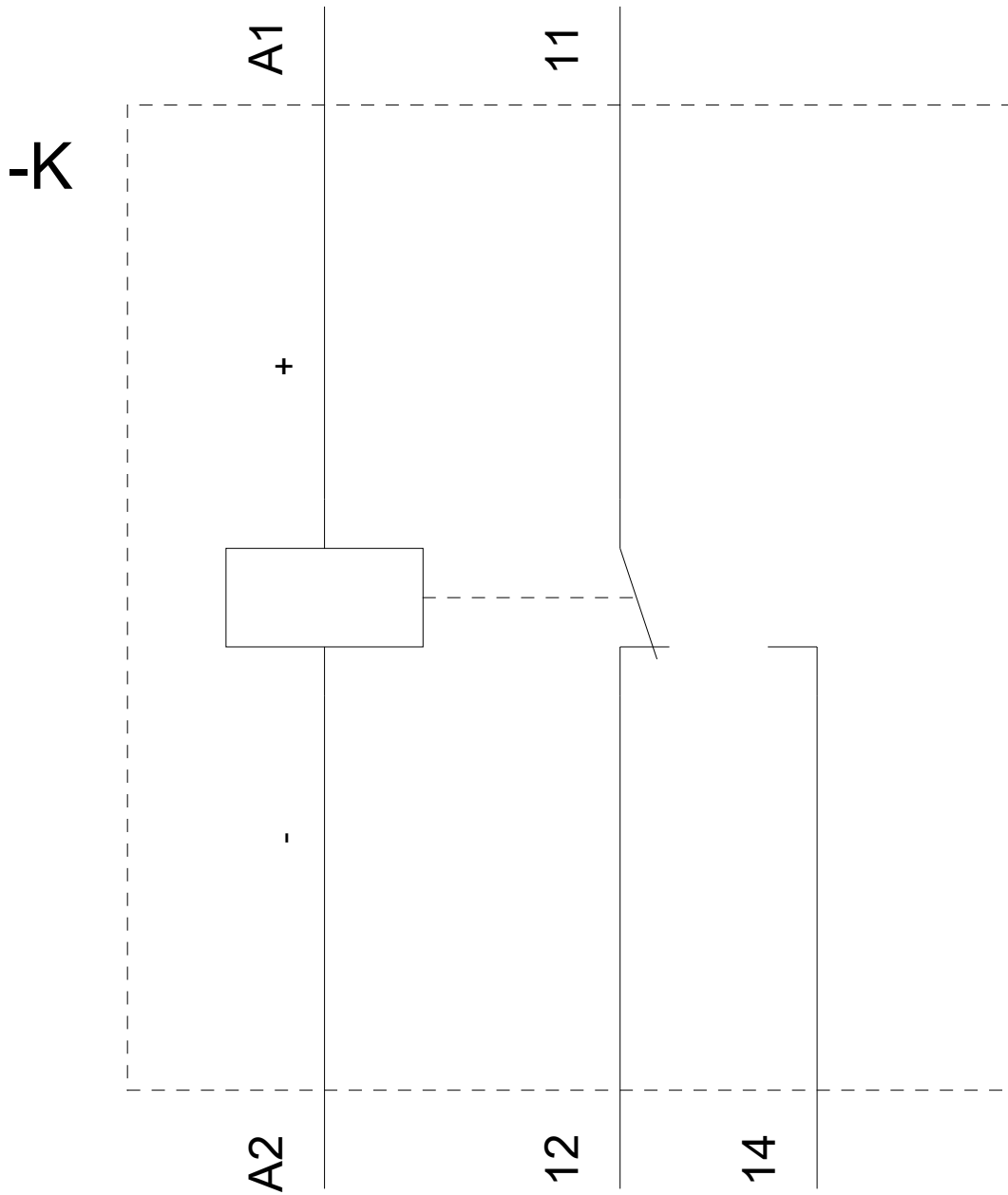
**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-2AF00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AF00>





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