

Output coupler 1 CO contact hard gold-plated 24 V  
AC/DC Enclosure width 6.2 mm Spring-load. terminal  
(push-in) 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 relay output (not plug-in)
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 AC</b>		
• at 50 Hz rated value	V	24
• at 60 Hz rated value	V	24
<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>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>Off-delay time</b>	ms	14
<b>Closing delay</b>		
• at AC	ms	12
• at DC	ms	6
<b>Opening delay</b>		
• at AC	ms	14

• at DC	ms	13
<b>Design of the relay operating mechanism</b>		poled
<b>Product component Plug-in socket</b>		No

#### 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-HTV
<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 (5 V, 1 mA)

#### Main circuit

<b>Type of voltage</b>		AC/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>		
• 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

<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
<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>		No
<ul style="list-style-type: none"> <li>• removable terminal</li> </ul>		
<b>Type of electrical connection</b>		PUSH-IN connection (spring-loaded connection)
<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> </ul>	m	500
<ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>	m	1 000
<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>• solid</li> </ul>		20 ... 14
<ul style="list-style-type: none"> <li>• stranded</li> </ul>		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	72.5
<b>Required spacing</b>		
<ul style="list-style-type: none"> <li>• with side-by-side mounting</li> </ul>		
— 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	 EAC	 EG-Konf.

[Confirmation](#)

#### 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=3RQ3018-2AB01>

**Cax online generator**

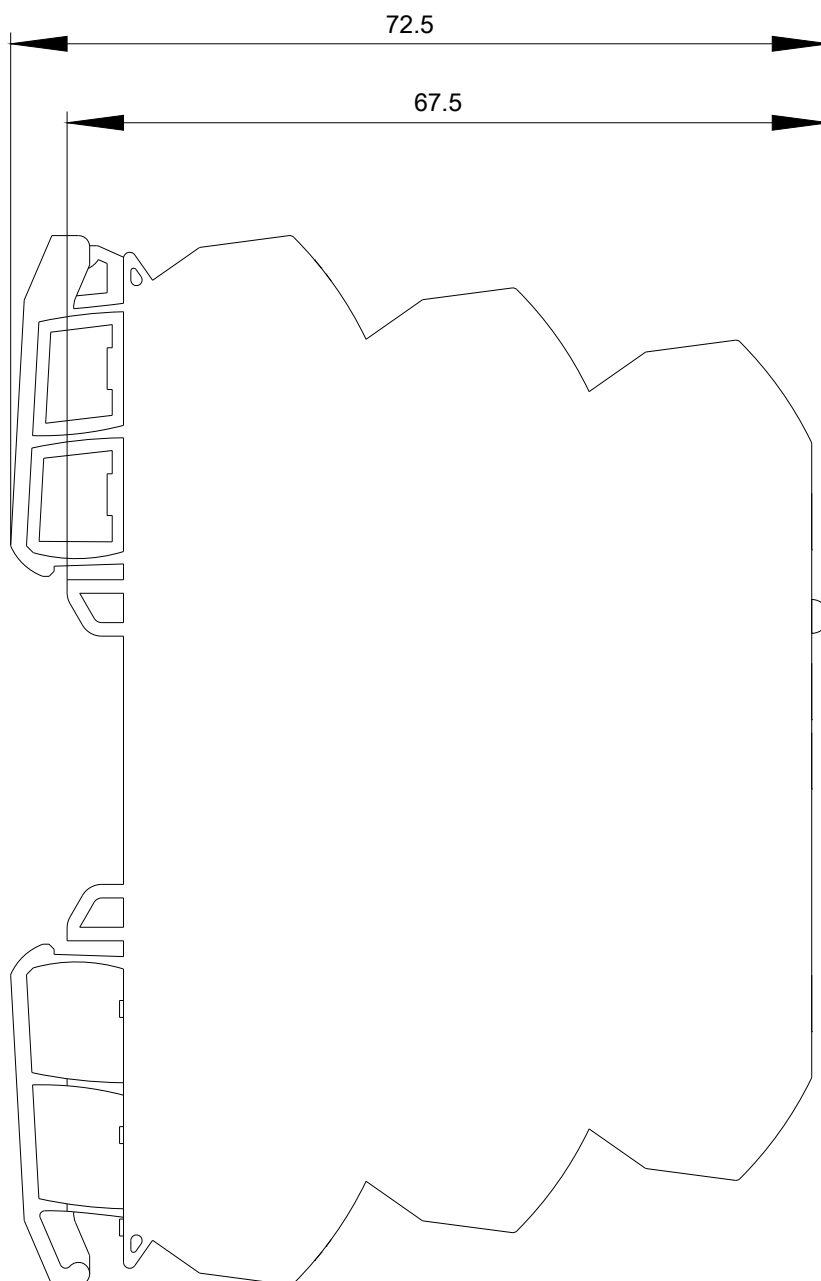
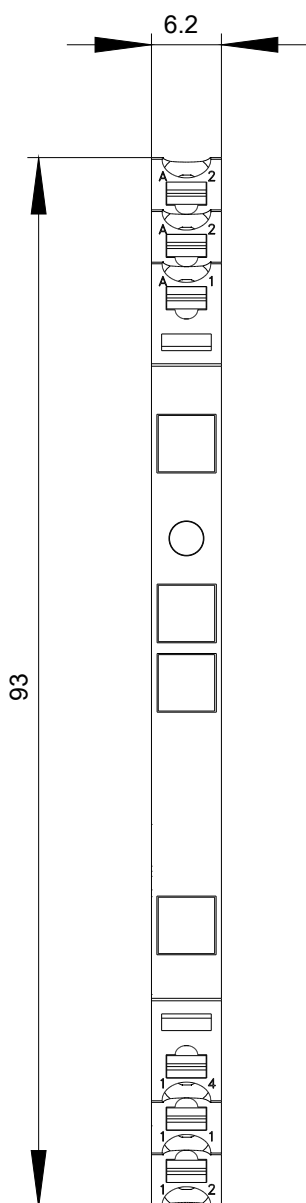
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-2AB01>

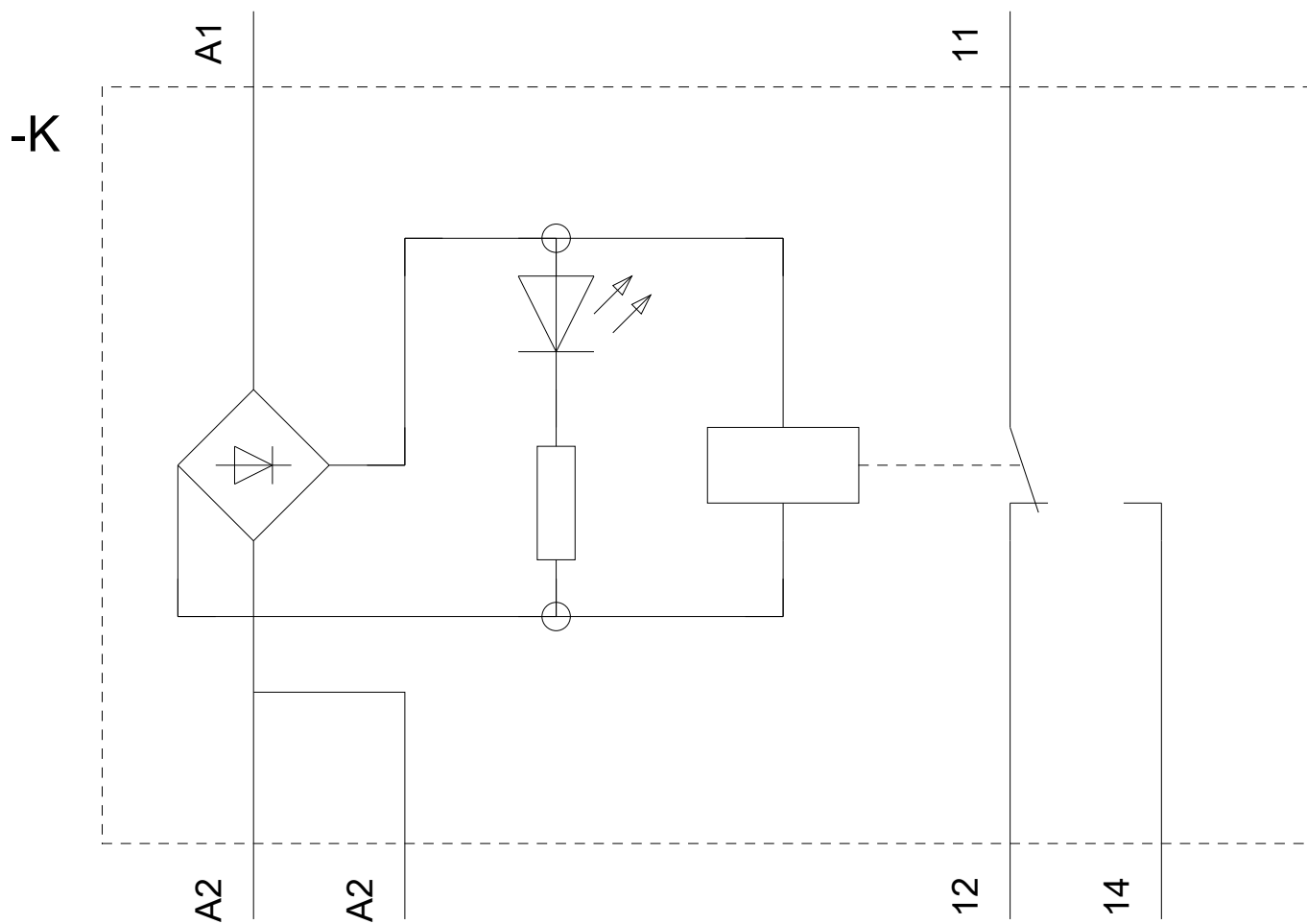
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AB01>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3018-2AB01&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-2AB01&lang=en)





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