

Output coupler Optocoupler 1 NO triac, Input 24 V DC Output 20-264 V AC, 2 A Overall width 6.2 mm screw terminal Thermal current 2A



Product brand name	SIRIUS
Product category	SIRIUS 3RQ3 coupling relays in slim design
Product designation	Coupling relays with semiconductor output (not plug-in)
Design of the product	Output coupling link
Product type designation	3RQ3

General technical data	
Display version LED	Yes
Product component	
• Relay output	No
• semi-conductor output	Yes
Consumed active power	0.25 W
Surge voltage resistance rated value	4 kV
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
Switching frequency	10 Hz
Thermal current	2 A
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K

Control circuit/ Control	
<b>Control supply voltage at DC</b>	
• rated value	11 ... 30 V
<b>Operating range factor control supply voltage rated value at DC</b>	
• initial value	1
• Full-scale value	1
<b>Switch-on delay time</b>	
• at DC maximum	10 ms
<b>Off-delay time</b>	9 ms
<b>Product component Plug-in socket</b>	No

Auxiliary circuit	
<b>Type of switching contact</b>	NO contact
<b>Number of NO contacts for auxiliary contacts</b>	1

Main circuit	
<b>Type of voltage</b>	DC

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

Outputs	
<b>Ampacity of the semiconductor output at AC</b>	5 mA ... 2 A

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
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• due to conductor-conductor surge acc. to IEC 61000-4-5	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>	
• as status display by LED	LED green

Connections/ Terminals	
<b>Product function</b>	
• removable terminal	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> </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>• at AWG conductors solid</li> </ul>	1 x (20 ... 14)
<b>Connectable conductor cross-section</b>	
<ul style="list-style-type: none"> <li>• solid</li> </ul>	0.25 ... 2.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	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>	72.5 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> </ul>	0 mm
	0 mm
	0 mm
	0 mm
	0 mm
<ul style="list-style-type: none"> <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> </ul>	0 mm
	0 mm
	0 mm
	0 mm
	0 mm
<ul style="list-style-type: none"> <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

### Ambient conditions

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

#### Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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Declaration of Conformity	Marine / Shipping	other
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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=3RQ3052-1SM50>

**Cax online generator**

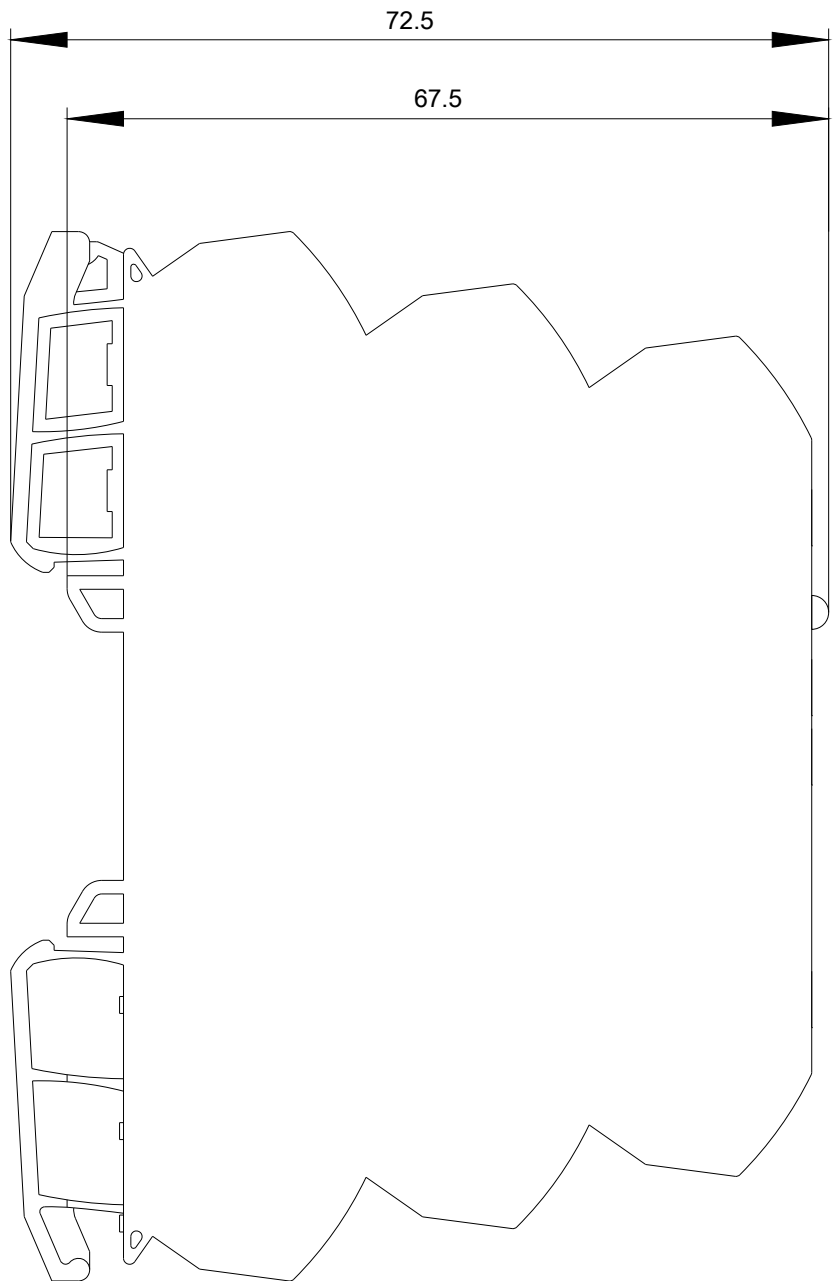
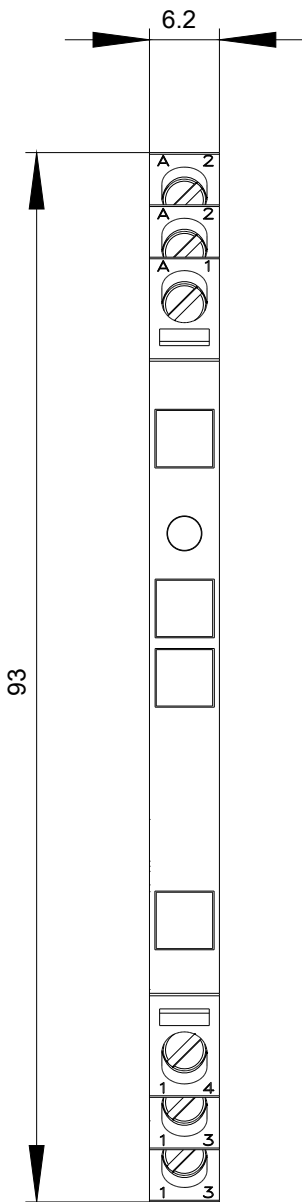
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3052-1SM50>

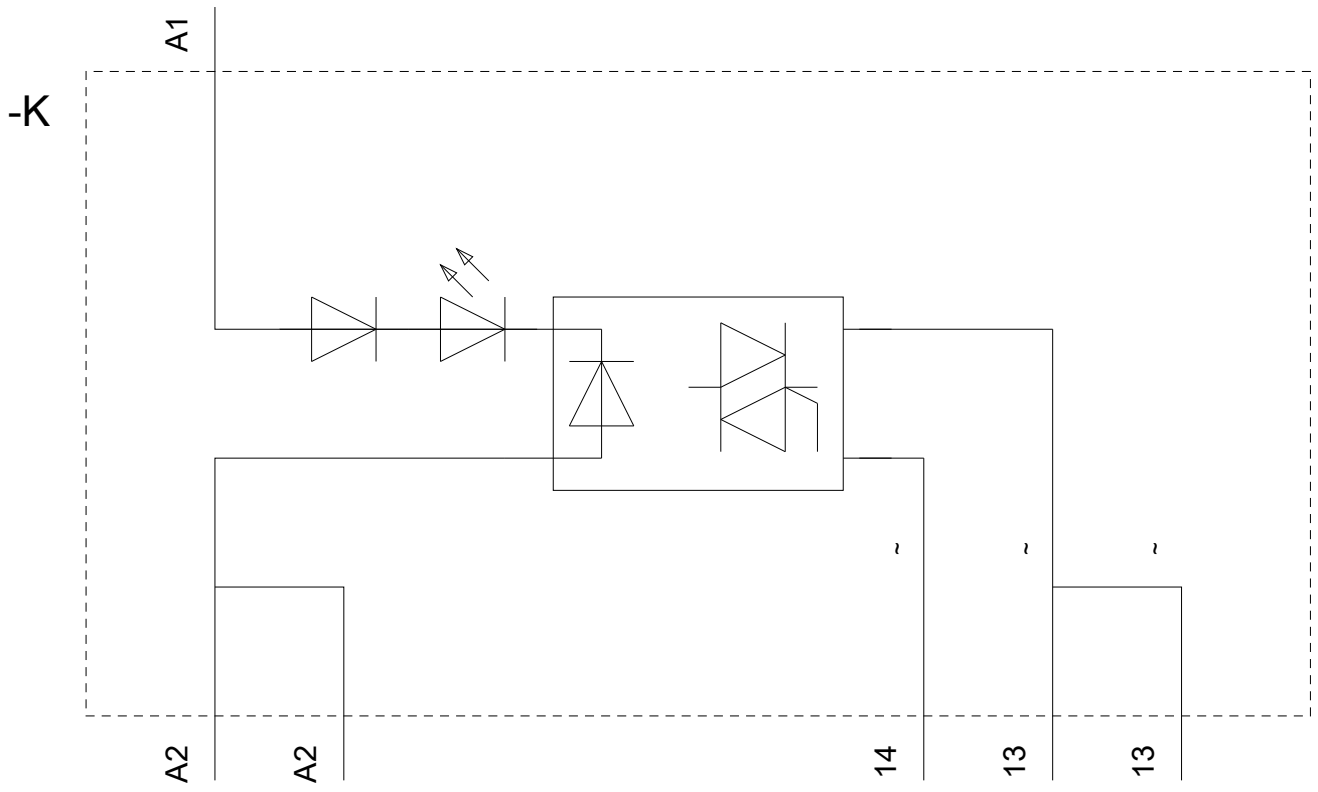
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-1SM50>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3052-1SM50&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3052-1SM50&lang=en)





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