



!!! phased-out product !!! the preferred successor is 3RQ4070-2SG30 input coupler optocoupler 1 NO contact, transistor input 110-230 V AC/DC output max. 30 V DC, 0.5 A short-circuit-proof width 6.2 mm spring-loaded terminal (push-in) thermal current 0.5 A

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	Input coupling link
product type designation	3RQ3
<b>General technical data</b>	
display version LED	Yes
product feature protective coating on printed-circuit board	No
product component	
• relay output	No
• semi-conductor output	Yes
consumed active power	0.5 W
surge voltage resistance rated value	4 kV
flammability class of enclosure material	UL94 V-0
shock resistance	
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance	
• according to IEC 60068-2-6	6 ... 150 Hz: 2 g
switching frequency	0.2 Hz
thermal current	0.5 A
reference code according to IEC 81346-2	K
Substance Prohibition (Date)	03/25/2015
Net Weight	0.031 kg
<b>Control circuit/ Control</b>	
control supply voltage at AC	
• at 50 Hz rated value	110 ... 230 V
• at 60 Hz rated value	110 ... 230 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at DC rated value	110 ... 230 V
operating range factor control supply voltage rated value at DC	
• initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value at	

<b>AC at 60 Hz</b>	
• initial value	0.7
• full-scale value	1.1
<b>minimum switching voltage when switching on</b>	74 V
<b>maximum switching voltage when switching off</b>	20 V
<b>ON-delay time</b>	
• at AC maximum	5 ms
• at DC maximum	3 ms
<b>OFF-delay time maximum</b>	7 ms
<b>Mechanical data</b>	
<b>product component plug-in socket</b>	No
<b>Auxiliary circuit</b>	
<b>type of switching contact</b>	NO contact
<b>number of NO contacts for auxiliary contacts</b>	1
<b>Main circuit</b>	
<b>type of voltage</b>	AC/DC
<b>Inputs/ Outputs</b>	
<b>property of the output short-circuit proof</b>	No
<b>switching voltage of the semiconductor output at DC</b>	10 ... 30 V
<b>ampacity of the semiconductor output at DC</b>	10 mA ... 0.5 A
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	2 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>Display</b>	
display version as status display by LED	LED green
<b>Connections/ Terminals</b>	
<b>product function removable terminal</b>	No
<b>type of electrical connection</b>	
• for auxiliary and control circuit	spring-loaded terminals (push-in)
wire length	
• at AC maximum	500 m
• at DC maximum	1 000 m
<b>type of connectable conductor cross-sections</b>	
• solid	1x (0.25 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing	1x (0.25 ... 1.5 mm <sup>2</sup> )
• finely stranded without core end processing	1x (0.25 ... 2.5 mm <sup>2</sup> )
• for AWG cables solid	1x (20 ... 14)
• for AWG cables stranded	1x (20 ... 14)
<b>connectable conductor cross-section</b>	
• solid	0.25 ... 2.5 mm <sup>2</sup>
• finely stranded with core end processing	0.25 ... 1.5 mm <sup>2</sup>
• finely stranded without core end processing	0.25 ... 2.5 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
• solid	20 ... 14
• stranded	20 ... 14
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	snap-on mounting
<b>height</b>	93 mm
<b>width</b>	6.2 mm
<b>depth</b>	72.5 mm

required spacing	
<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>— at the side</li> <li>— downwards</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>	<ul style="list-style-type: none"> <li>0 mm</li> </ul>

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

**Approvals Certificates**

Environment	General Product Approval				
<a href="#">Environmental Con- firmations</a>					

EMV	Test Certificates	Maritime application	other
		<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Confirmation</a> 

**Further information**

**Information on the packaging**  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
**Information for data generation and storage**  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>  
**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<https://www.siemens.com/ic10>  
**Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3070-2SG30>  
**Cax online generator**  
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3070-2SG30>  
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-2SG30>  
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3070-2SG30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3070-2SG30&lang=en)



