



!!! phased-out product !!! the preferred successor is 3RQ4050-2SM50 output coupler optocoupler 1 NO, transistor, 24 V DC output max. 60 V DC, 0.5 A spring-loaded terminal (push-in) width 6.2 mm 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	Output 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	0.3 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	50 V
surge voltage resistance rated value	2.5 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	50 Hz
thermal current	0.5 A
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	03/25/2015
Net Weight	0.028 kg
<b>Control circuit/ Control</b>	
control supply voltage at DC rated value	11 ... 30 V
operating range factor control supply voltage rated value at DC	
• initial value	1
• full-scale value	1
minimum switching voltage when switching on	11 V
maximum switching voltage when switching off	5 V
ON-delay time	
• at DC maximum	0.3 ms
OFF-delay time maximum	2 ms
<b>Mechanical data</b>	
product component plug-in socket	No
<b>Auxiliary circuit</b>	

type of switching contact	NO contact
number of NO contacts for auxiliary contacts	1
<b>Main circuit</b>	
type of voltage	DC
<b>Inputs/ Outputs</b>	
property of the output short-circuit proof	No
switching voltage of the semiconductor output at DC	10 ... 60 V
ampacity of the semiconductor output at DC	1 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> <ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4</li> <li>• due to conductor-earth surge according to IEC 61000-4-5</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	2 kV 2 kV 1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
<b>Display</b>	
display version as status display by LED	LED green
<b>Connections/ Terminals</b>	
product function removable terminal	No
type of electrical connection <ul style="list-style-type: none"> <li>• for auxiliary and control circuit</li> </ul>	spring-loaded terminals (push-in)
wire length <ul style="list-style-type: none"> <li>• at DC maximum</li> </ul>	1 000 m
type of connectable conductor cross-sections <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• for AWG cables solid</li> <li>• for AWG cables stranded</li> </ul>	1x (0.25 ... 2.5 mm <sup>2</sup> ) 1x (0.25 ... 1.5 mm <sup>2</sup> ) 1x (0.25 ... 2.5 mm <sup>2</sup> ) 1x (20 ... 14) 1x (20 ... 14)
connectable conductor cross-section <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> </ul>	0.25 ... 2.5 mm <sup>2</sup> 0.25 ... 1.5 mm <sup>2</sup> 0.25 ... 2.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> </ul>	20 ... 14 20 ... 14
<b>Installation/ mounting/ dimensions</b>	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
depth	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> </ul>	0 mm 0 mm 0 mm 0 mm 0 mm  0 mm 0 mm 0 mm 0 mm 0 mm

- for live parts
  - forwards
  - backwards
  - upwards
  - downwards
  - at the side

0 mm  
0 mm  
0 mm  
0 mm  
0 mm

#### Ambient conditions

installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
relative humidity during operation	10 ... 95 %

#### Approvals Certificates

Environment	General Product Approval
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[Environmental Con-  
firmations](#)



EMV	Test Certificates	Maritime application	other
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[Type Test Certi-  
ficates/Test Report](#)



[Confirmation](#)

#### 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=3RQ3050-2SM50>

##### Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3050-2SM50>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3050-2SM50>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RQ3050-2SM50&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3050-2SM50&lang=en)



