## **SIEMENS**

Data sheet 3RQ3052-2SM30



Output coupler Optocoupler 1 NO, Transistor, 24 V DC Output max. 30 V DC, 2 A short circuit-proof Spring-type terminal (push-in) Overall width 6.2 mm 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 feature protective coating on printed-circuit board	No
product component	
<ul> <li>relay output</li> </ul>	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	100 Hz
thermal current	2 A
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	03/25/2015
Weight	0.03 kg
Control circuit/ Control	
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	0.2 ms
OFF-delay time maximum	0.3 ms
Mechanical data	
product component plug-in socket	No
Auxiliary circuit	
type of switching contact	NO contact
number of NO contacts for auxiliary contacts	1

Main circuit	
type of voltage	DC
Inputs/ Outputs	
property of the output short-circuit proof	Yes
switching voltage of the semiconductor output at DC	10 30 V
ampacity of the semiconductor output at DC	5 mA 2 A
Electromagnetic compatibility	
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
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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
Display	, , ,
display version as status display by LED	LED green
Connections/ Terminals	
product function removable terminal	No
type of electrical connection for auxiliary and control circuit	spring-loaded terminals (push-in)
wire length	
at DC maximum	1 000 m
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.25 2.5 mm²)
<ul> <li>for AWG cables solid</li> </ul>	1 x (20 14)
for AWG cables stranded	1x (20 14)
connectable conductor cross-section	
• 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 mm²
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
depth	72.5 mm
required spacing	
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
<ul><li>— downwards</li><li>● for live parts</li></ul>	0 mm
for live parts     — forwards	0 mm
— lorwards — backwards	0 mm
— packwards — upwards	0 mm
— downwards	0 mm
— downwards	V IIIII

— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	10 95 %
Approvals Certificates	

**General Product Approval** 















EMV Test Certificates

Marine / Shipping

other

**Environment** 

<u>KC</u>

Type Test Certificates/Test Report



Confirmation

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RQ3052-2SM30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3052-2SM30

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

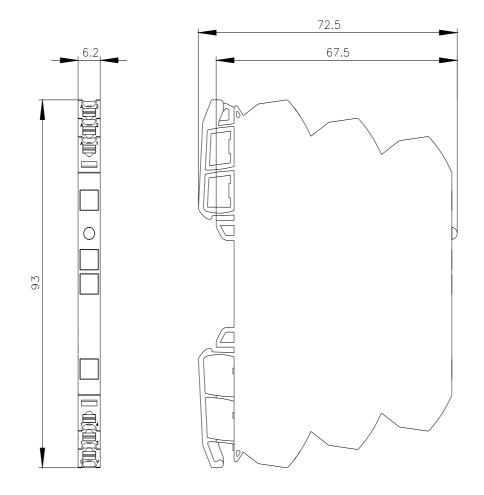
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-2SM30

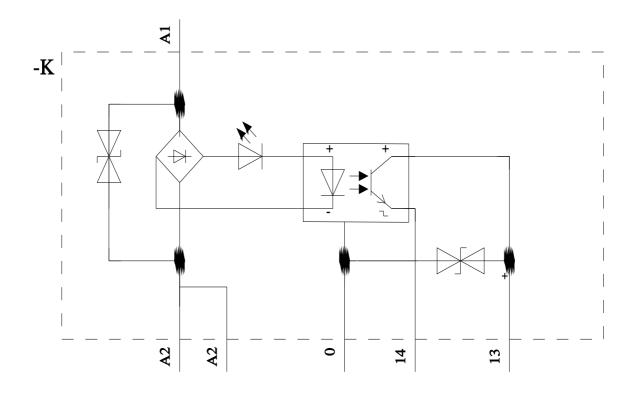
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3052-2SM30\&lang=en}}$ 

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-2SM30/manual





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