## **SIEMENS**

Data sheet 3RQ3052-1SM30



Output coupler Optocoupler 1 NO, Transistor, 24 V DC Output max. 30 V DC, 2 A short circuit-proof screw terminal 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 component	
<ul> <li>relay output</li> </ul>	No
<ul> <li>semi-conductor output</li> </ul>	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
protection class IP	IP20
flammability class of enclosure material	UL94 V-0
shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance	
• acc. to IEC 60068-2-6	6 150 Hz: 2 g
switching frequency	100 Hz
thermal current	2 A
reference code acc. to IEC 81346-2	K
Substance Prohibitance (Date)	25.03.2015
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	0.3 ms
product component plug-in socket	No
Auxiliary circuit	
type of switching contact	NO contact
number of NO contacts for auxiliary contacts	1

Type of voltage  Type of connectable connectable conductor cross-sections  **all Common through the conductor cross-sections**  **all Common through the conductor cross-sections**  **all Common through the conductor cross-sections**  **all Common through through through through the conductor through t	Main circuit	
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EMC immunity acc. to IEC 60947-1 conducted interference	Electromagnetic compatibility	
EMC immunity acc. to IEC 60947-1 conducted interference		ambience A (industrial sector)
• due to burst acc. to IEC 61000-44   0 due to conductor earth surge acc. to IEC 61000-4-5   2 kV   2 kV   0 due to conductor conductor surge acc. to IEC 61000-4-2   1 kV   0 due to conductor conductor surge acc. to IEC 61000-4-3   10 V/m   6 kV contact discharge /8 kV air discharge   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   LED green   0 display version as status display by LED   0 display version as status display by LED   0 display version as status display by LED   0 display by LED   0 display terminals   0 display terminals   0 display terminals   0 display terminals   0 display version display	EMC immunity acc. to IEC 60947-1	
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due to conductor-conductor surge acc. to IEC 6100-4-3 field-based interference acc. to IEC 61000-4-2 field-based interference acc. to IEC 61000-4-2 deloctrostatic discharge acc. to IEC 61000-4-2 display version as slatus display by LED Connections/Torminals product function removable terminal Type of electrical connection for auxiliary and control circuit wire length at DC maximum 1 000 m Type of connectable conductor cross-sections solid finely stranded with core end processing at AVNC scales solid sinely stranded with core end processing solid finely stranded with core end proces	<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	2 kV
field-based interference acc. to IEC 61000-4-3   10 V/m	<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
field-based interference acc. to IEC 61000-4-2   6 kV contact discharge / 8 kV air discharge		1 kV
electrostatic discharge acc. to IEC 6100-4-2  Display  display version as status display by LED  Connections/ Terminals  product function removable terminal  ype of electrical connection for auxiliary and control circuit  wire length  • at DC maximum  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • at AWG cables solid  connectable conductor cross-section  • solid  • finely stranded with core end processing  • inely stranded with core end processing  • finely stranded with core end processing  • solid  connectable conductor cross-section  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • solid		40 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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display version as status display by LED  Connections/ Torminals  product function removable terminal type of electrical connection for auxiliary and control circuit wire length	_	6 kV contact discharge / 6 kV all discharge
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product function removable terminal   type of electrical connection for auxiliary and control circuit wire length		LED green
Sype of electrical connection for auxiliary and control circuit		No
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• at DC maximum   1 000 m		screw-type terminals
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• finely stranded with core end processing     AWG number as coded connectable conductor cross section     • solid 20 14  tightening torque with screw-type terminals 0.5 0.6 N·m  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     - upwards 0 mm     - at the side 0 mm      • for grounded parts     - backwards 0 mm     - backwards 0 mm     - at the side 0 mm      • for ive parts     - forwards 0 mm      • for live parts     - forwards 0 mm      • backwards 0 mm      • backwards 0 mm      • backwards 0 mm      • for grounded parts     - conwards 0 mm      • backwards 0 mm      • backwards 0 mm      • backwards 0 mm      • backwards 0 mm      • for live parts     - conwards 0 mm      • for live parts     - forwards 0 mm      • for live parts     - downwards 0 mm      • downwards 0 mm	connectable conductor cross-section	
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e solid 20 14  tightening torque with screw-type terminals 0.5 0.6 N·m  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  — upwards 0 mm  — downwards 0 mm  — at the side 0 mm  — backwards 0 mm  — backwards 0 mm  • for grounded parts  — forwards 0 mm  — at the side 0 mm  — at the side 0 mm  — at the side 0 mm  — downwards 0 mm  — at the side 0 mm  — orwards 0 mm  — backwards 0 mm  — backwards 0 mm  — backwards 0 mm  — obackwards 0 mm  — at the side 0 mm  — at the side 0 mm  — downwards 0 mm  — at the side 0 mm  — downwards 0 mm  — at the side 0 mm  — downwards 0 mm  — downwards 0 mm  — forwards 0 mm  — downwards 0 mm  — downwards 0 mm  — downwards 0 mm  — downwards 0 mm  — backwards 0 mm  — downwards 0 mm	<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
Solid tightening torque with screw-type terminals 0.5 0.6 N·m  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 — downwards 0 mm — at the side 0 mm  Forwards 0 mm  Installation/ mounting 0 mm  Ins		
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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     0 mm       — forwards     0 mm       — backwards     0 mm       — upwards     0 mm       — at the side     0 mm       • for grounded parts     0 mm       — forwards     0 mm       — backwards     0 mm       — at the side     0 mm       — downwards     0 mm       — for live parts     0 mm       — backwards     0 mm       — backwards     0 mm       — upwards     0 mm       — downwards     0 mm       — downwards     0 mm       — at the side     0 mm		0.5 0.6 N·m
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height         93 mm           width         6.2 mm           depth         72.5 mm           required spacing         0 mm           • with side-by-side mounting         0 mm           — forwards         0 mm           — backwards         0 mm           — downwards         0 mm           — at the side         0 mm           — for grounded parts         0 mm           — forwards         0 mm           — backwards         0 mm           — at the side         0 mm           — for live parts         0 mm           — forwards         0 mm           — backwards         0 mm           — backwards         0 mm           — downwards         0 mm           — downwards         0 mm           — at the side         0 mm		•
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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         0 mm           — forwards         0 mm           — backwards         0 mm           — at the side         0 mm           — downwards         0 mm           • for live parts         0 mm           — backwards         0 mm           — backwards         0 mm           — upwards         0 mm           — downwards         0 mm           — at the side         0 mm		
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— downwards 0 mm — at the side 0 mm		
— 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
<ul> <li>during transport</li> </ul>	-40 +85 °C
relative humidity during operation	10 95 %
Certificates/ approvals	

**Declaration of General Product Approval EMC** Conformity













**Declaration of** Conformity

**Test Certificates** 

Marine / Shipping

other

**Miscellaneous** 

Type Test Certificates/Test Report



Confirmation

## Further information

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=3RQ3052-1SM30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3052-1SM30

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

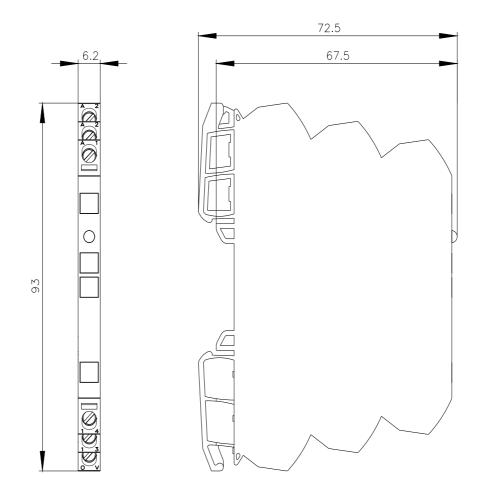
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-1SM30

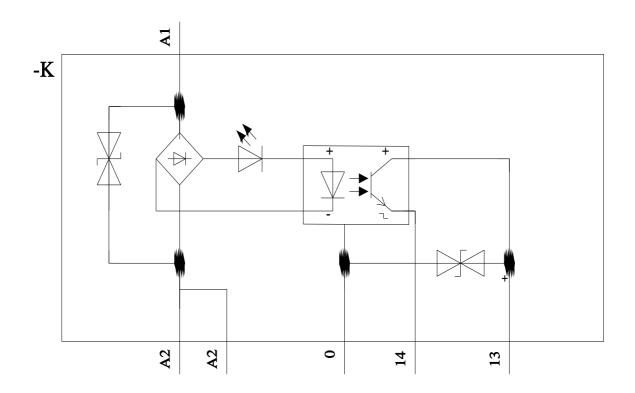
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3052-1SM30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3052-1SM30/manual





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