SIEMENS

Data sheet 3RQ3053-2SG30



!!! phased-out product !!! the preferred successor is 3RQ4053-2SG30 output coupler optocoupler 1 NO transistor, 110-230 V AC/DC output max. 30 V DC, 3 A short-circuit-proof enclosure width 6.2 mm spring-loaded terminal (push-in) thermal current 3 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
General technical data	
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	300 V
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	10 Hz
thermal current	3 A
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	03/25/2015
Weight	0.031 kg
Control circuit/ Control	
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 AC at 60 Hz	
• initial value	0.7
• full-scale value	1.1
minimum switching voltage when switching on	74 V
maximum switching voltage when switching off	20 V
ON-delay time	
at AC maximum	3 ms
at DC maximum	2 ms
OFF-delay time maximum	10 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	AC/DC
Inputs/ Outputs	Nobe
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	1 mA 3 A
Electromagnetic compatibility	I IIIA VA
	ambianas A (industrial agetar)
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	ambience A (industrial sector)
conducted interference	corresponds to degree of severity 3
	2 kV
due to burst according to IEC 61000-4-4 due to conductor couth curso according to IEC 61000 4.5	2 kV
due to conductor-earth surge according to IEC 61000-4-5 due to conductor conductor surge according to IEC.	1 kV
 due to conductor-conductor surge according to IEC 61000-4-5 	I 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	
	LED green
Display display version as status display by LED Connections/ Terminals	LED green
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display version as status display by LED	
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection	No
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit	
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection	No
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum	No spring-loaded terminals (push-in) 500 m
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum	No spring-loaded terminals (push-in) 500 m
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections	No spring-loaded terminals (push-in) 500 m 1 000 m
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections • solid	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 2.4 mm²)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 2.4 mm²)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection • for auxiliary and control circuit wire length • at AC maximum • at DC maximum type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 4.5 mm²) 1x (0.25 4.5 mm²)
display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 2.5 mm²) 1 x (20 14) 1x (20 14)
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display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection	No spring-loaded terminals (push-in) 500 m 1 000 m 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (20 14) 1x (20 14) 0.25 2.5 mm² 0.25 2.5 mm² 0.25 2.5 mm²
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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
— downwards	0 mm
for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	10 95 %
Approvals Certificates	
General Product Approval	

General Product Approval













EMV Test Certificates Maritime application other



<u>KC</u>

Type Test Certificates/Test Report





Confirmation

Environment

Environmental Confirmations

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=3RQ3053-2SG30

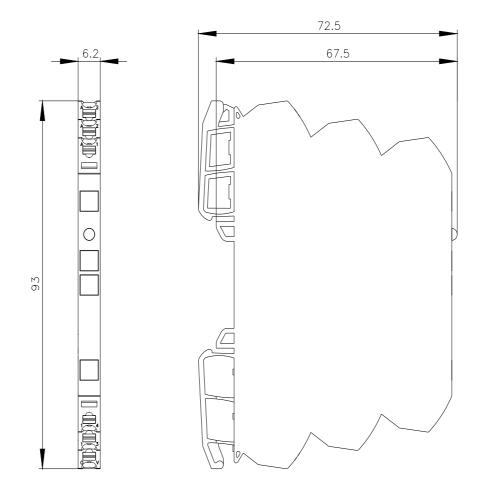
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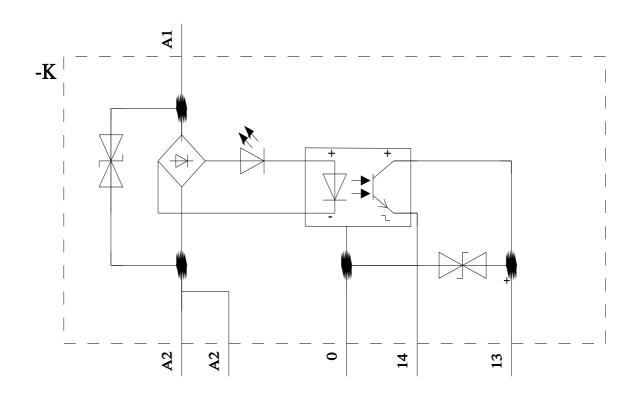
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3053-2SG30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3053-2SG30&lang=en





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