SIEMENS

Data sheet

3RQ3055-1SM30



Output coupler Optocoupler 1 S, transistor, 24 V DC Output max. 30 V DC, 5 A Short circuit-proof Screw terminal Overall width 6.2 mm Thermal current 5 A

product brand name SIRUS product category SIRUS SRQ3 coupling relays intim design product category Output coupling relays with semiconductor output (not plug-in) design of the product Output coupling link product type designation SRQ3 General tochical data Item in the product or output (not plug-in) display version LED Yes product feature protective coating on printed-circuit board No product feature protective coating on printed-circuit board No ensemiconductor output Yes consumed active power 0.3 W insulation votage for overvotage category III according to IEC 50 V consumed active power 0.3 W insulation votage for overvotage category III according to IEC 50 V surge votage resistance rated value 2.5 kV protector class IP IP20 flammability class of enclosure material UL94 V-0 shock resistance - • according to IEC 60068-2-6 6 150 Hz: 2 g witching frequency 100 Hz therame control 0.02/2015 contr				
product designation Coupling relays with semiconductor output (not plug-in) design of the product Output coupling link product type designation 3RQ3 General technical data	product brand name	SIRIUS		
design of the product Output coupling link product type designation 3RQ3 General technical data Image: Conserved Section (Conserved Section (Consert) (Conserved Section (Conserved Section (Conserved Sectio	product category	SIRIUS 3RQ3 coupling relays in slim design		
product type designation 3RQ3 General tachnical data	product designation	Coupling relays with semiconductor output (not plug-in)		
General technical data Yes display version LED Yes product feature protective coating on printed-circuit board No product component No • relay output No • semi-conductor output Yes • consumed active power 0.3 W insulation voltage for overvoltage category III according to IEC 50 V 00664 with degree of polition of rated value 2.5 kV protection class IP IP20 flammability class of enclosure material UJ9 V-0 shock resistance e • according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance 6 • according to IEC 60068-2-26 6 • according to IEC 60068-2-26 6 • according to IEC 81346-2 K Substance Prohibitance (Date) 03/25/2015 Control supply voltage at DC 11 • rated value 1 • initial value 1 • initial value 1 • initial value 1 • initial value 1 • i	design of the product	Output coupling link		
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ON-delay time 0.2 ms • at DC maximum 0.2 ms OFF-delay time 0.3 ms product component plug-in socket No Auxiliary circuit VO contact	minimum switching voltage when switching on	11 V		
• at DC maximum 0.2 ms OFF-delay time 0.3 ms product component plug-in socket No Auxiliary circuit type of switching contact type of switching contact NO contact	maximum switching voltage when switching off	5 V		
OFF-delay time 0.3 ms product component plug-in socket No Auxiliary circuit Type of switching contact type of switching contact NO contact	ON-delay time			
product component plug-in socket No Auxiliary circuit NO contact type of switching contact NO contact	at DC maximum	0.2 ms		
Auxiliary circuit type of switching contact NO contact	OFF-delay time	0.3 ms		
type of switching contact NO contact	product component plug-in socket	No		
	Auxiliary circuit			
number of NO contacts for auxiliary contacts 1	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 5 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	
 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
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	screw-type terminals
wire length	
at DC maximum	1 000 m
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm²)
 finely stranded with core end processing 	1x (0.25 1.5 mm²)
for AWG cables solid	1 x (20 14)
connectable conductor cross-section	
• solid	0.25 2.5 mm ²
finely stranded with core end processing AWG number as coded connectable conductor cross section	0.25 1.5 mm²
• 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
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
	0 mm
— forwards	
— forwards — backwards	0 mm
— backwards	0 mm
— backwards — upwards	0 mm 0 mm
 backwards upwards at the side 	0 mm 0 mm 0 mm
 backwards upwards at the side downwards 	0 mm 0 mm 0 mm
 backwards upwards at the side downwards for live parts 	0 mm 0 mm 0 mm 0 mm
 backwards upwards at the side downwards for live parts forwards 	0 mm 0 mm 0 mm 0 mm
 backwards upwards at the side downwards for live parts forwards backwards 	0 mm 0 mm 0 mm 0 mm 0 mm
 backwards upwards at the side downwards for live parts forwards backwards upwards 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
 backwards upwards at the side downwards for live parts forwards backwards upwards downwards 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
 backwards upwards at the side downwards for live parts forwards backwards upwards downwards at the side 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm

ambient temperature						
during operation		-25 .	-25 +60 °C			
during storage		-40 .	-40 +85 °C			
during transport		-40 .	-40 +85 °C			
relative humidity during operation		10	10 95 %			
ertificates/ approvals						
General Product App	roval			EMC	Declaration of Con- formity	
(SP)	Confirmation		EHC	RCM	UK CA	
Declaration of Con- formity	Test Certificates	Marine / Shipping	other			
C E EG-Konf.	Type Test Certific- ates/Test Report	(DNV-GL)	<u>Confirmation</u>			
urther information						

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RQ3055-1SM30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3055-1SM30

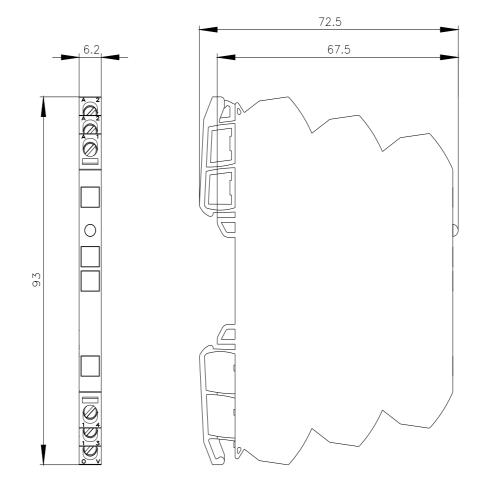
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

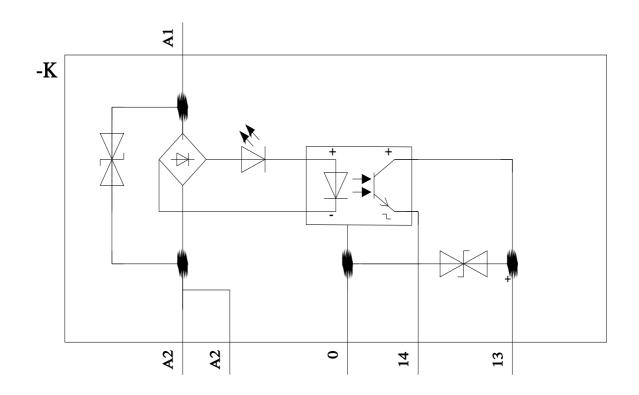
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-1SM30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3055-1SM30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-1SM30/manual





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