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	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			
 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		
protection class IP	IP20		
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	5 A		
reference code acc. to IEC 81346-2	К		
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		
switch 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		
Main circuit			

Inputs/ Outputs					
property of the output short-circuit proof	Yes				
Outputs					
ampacity of the semiconductor output at DC	5 mA 5 A				
Electromagnetic compatibility					
EMC emitted interference acc. to IEC 60947-1	ambience A (industrial sector)				
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3				
conducted interference					
 due to burst acc. to IEC 61000-4-4 	2 kV				
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV				
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV				
field-based interference acc. to IEC 61000-4-3	10 V/m				
electrostatic discharge acc. 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)				
at AWG cables solid	1 x (20 14)				
 connectable conductor cross-section solid 	0.25 2.5 mm ²				
 connectable conductor cross-section finely stranded 	0.25 1.5 mm ²				
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				
— backwards	0 mm				
— upwards	0 mm				
— downwards — at the side	0 mm 0 mm				
 for grounded parts 	0 mm				
for grounded parts — forwards	0 mm				
— backwards	0 mm 0 mm				
— upwards	0 mm				
— at the side	0 mm				
— at the side — 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		maximum 2	2 000 m				
ambient temperature during operation		-2	-25 +60 °C				
 ambient temperature during storage 			-40 +85 °C				
 ambient temperature during transport 			-40 +85 °C				
relative humidity during operation			10 95 %				
Certificates/ approvals							
General Product A	pproval			EMC	Declaration of Conformity		
(SP) M		EHC	EHC	RCM	<u>Miscellaneous</u>		
Declaration of Conformity	Marine / Shipping	other					
C C EG-Konf.	DNV-GL	Confirmation					
Further information							

Information- and Downloadcenter (Catalogs, Brochures,...)

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RQ3055-1SM30

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

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3055-1SM30

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3055-1SM30&lang=en

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

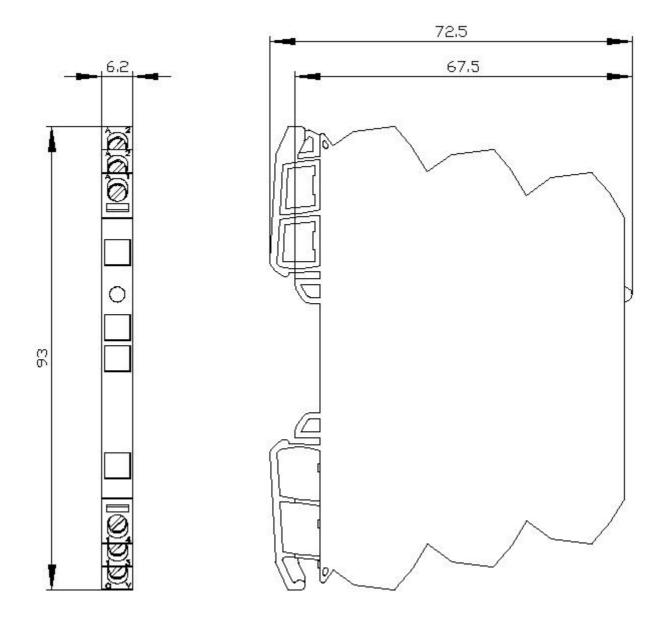
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

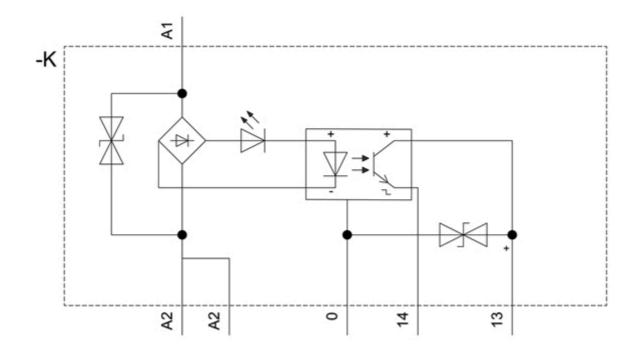
https://www.siemens.com/ic10

Cax online generator

Characteristic: Derating

Industry Mall (Online ordering system)





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