SIEMENS

Data sheet

3RQ3018-2AN08-0AA0



output coupler relay coupler, 1 change-over contact 110 V DC working range 0.7 to 1.25 x US width 6.2 mm spring-type terminal (push-in) thermal current 6 A (see derating characteristic)

product brand name	SIRIUS		
product category	SIRIUS 3RQ3 coupling relays in slim design		
product designation	Coupling relays with relay 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 	Yes		
 semi-conductor output 	No		
consumed active power	0.6 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		
maximum permissible voltage for safe isolation			
 between control and auxiliary circuit 	300 V		
percental drop-out voltage related to the input voltage	9.6 %		
protection class IP	IP20		
shock resistance			
 for railway applications acc. to DIN EN 61373 	Category 1, Class B		
vibration resistance			
 for railway applications acc. to DIN EN 61373 	Category 1, Class B		
operating frequency maximum	72 000 1/h		
switching behavior	monostable		
mechanical service life (switching cycles) typical	10 000 000		
thermal current	6 A; for derating see characteristics		
reference code acc. to IEC 81346-2	К		
Control circuit/ Control			
control supply voltage at DC			
rated value	110 V		
operating range factor control supply voltage rated value at DC			
 initial value 	0.7		
• full-scale value	1.25		
switch ON delay time			
• at DC maximum	6 ms		
OFF delay time	11 ms		
design of the relay operating mechanism	poled		

product component plug-in socket	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gG: 4 A
auxiliary switch required	1000 g0. 477
Auxiliary circuit	
type of switching contact	Changeover contact
material of switching contacts	AgSnO2
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
● at 125 V	0.2 A
• at 250 V	0.1 A
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) $$
Main circuit	
type of voltage	DC
Inputs/ Outputs	
property of the output short-circuit proof	No
Outputs	
ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 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 	1 kV
61000-4-5	
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	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)
 finely stranded with core end processing 	1x (0.25 1.5 mm²)
 finely stranded without core end processing 	1x (0.25 2.5 mm²)
 at AWG cables solid 	1 x (20 14)
at AWG cables stranded	1x (20 14)
 connectable conductor cross-section solid 	0.25 2.5 mm²
 connectable conductor cross-section finely stranded with core end processing 	0.25 1.5 mm²
 connectable conductor cross-section finely stranded without core end processing 	0.25 2.5 mm²
 AWG number as coded connectable conductor cross section solid 	20 14
AWG number as coded connectable conductor	20 14

cross section stranded					
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			
— 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 		-40 +70 °C			
 ambient temperature during storage 		-40 +85 °C			
ambient temperature during transport		-40 +85 °C			
ambient temperature during transport		-40 +85 °C			
ambient temperature during transport relative humidity during operation		-40 +85 °C		EMC	
ambient temperature during transport relative humidity during operation Certificates/ approvals		-40 +85 °C		EMC	
ambient temperature during transport relative humidity during operation Certificates/ approvals	(h)	-40 +85 °C 10 95 %	FAC	EMC	
ambient temperature during transport relative humidity during operation Certificates/ approvals	(H) u	-40 +85 °C	EAC	EMC EMC RCM	
ambient temperature during transport relative humidity during operation Certificates/ approvals	٩	-40 +85 °C 10 95 %	EAC	EMC EMC RCM	
ambient temperature during transport relative humidity during operation Certificates/ approvals General Product Approval Cortificates/ approval	(June)	-40 +85 °C 10 95 %		EMC ECM	
ambient temperature during transport relative humidity during operation Certificates/ approvals	UL UL Test Certifica	-40 +85 °C 10 95 %		EMC ECM	
ambient temperature during transport relative humidity during operation Certificates/ approvals General Product Approval Cortificates/ approval		-40 +85 °C 10 95 % EFRE ates Marine / Shippin		EMC ECM	
ambient temperature during transport relative humidity during operation Certificates/ approvals General Product Approval Certificates/ approvals Certificates/ approvals Declaration of Conformity	<u>Type Test</u> Certificates/T	-40 +85 °C 10 95 % EFRE ates Marine / Shippin	ng other	EMC	
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ambient temperature during transport relative humidity during operation Certificates/ approvals General Product Approval Certificates/ approvals Certificates/ approvals Declaration of Conformity	<u>Type Test</u> Certificates/T	-40 +85 °C 10 95 % EFRE ates Marine / Shippin	ng other	EMC ECM	

 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=3RQ3018-2AN08-0AA0

 Cax online generator

 http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-2AN08-0AA0

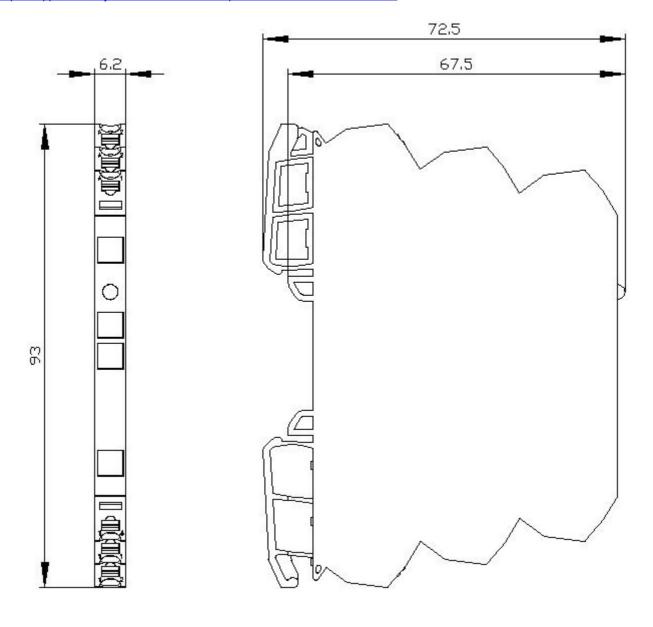
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

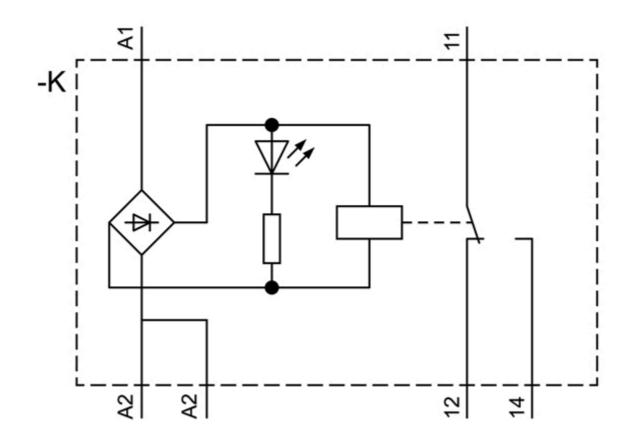
 https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AN08-0AA0

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

 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-2AN08-0AA0&

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AN08-0AA0/manual





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