Data sheet

3RQ3018-2AM08-0AA0



output coupler relay coupler, 1 CO, 24 V DC working range 0.7 to 1.25 x US enclosure 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	0.3 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
maximum permissible voltage for safe isolation	
 between control and auxiliary circuit 	300 V
percental drop-out voltage related to the input voltage	14.6 %
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	K
Control circuit/ Control	
control supply voltage at DC	
rated value	24 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	5 ms
OFF delay time	10 ms
design of the relay operating mechanism	poled

product component plug in cooket	No	
product component plug-in socket	No	
Short-circuit protection		
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gG: 4 A	
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 AC-13 at 250 V at 50/60 Hz		
• at 24 V	1 A	
• at 125 V	0.2 A	
• at 250 V	0.1 A	
	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	011/	
• 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	spring-loaded terminals (push-in)	
wire length	, J	
• 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 with core end processing	1x (0.25 1.5 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 mm ²	
 connectable conductor cross-section finely stranded with core end processing 	0.25 1.5 mm ²	
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		
relative humidity during operation	10 95 %		
Certificates/ approvals			
General Product Approval		EMC	













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=3RQ3018-2AM08-0AA0

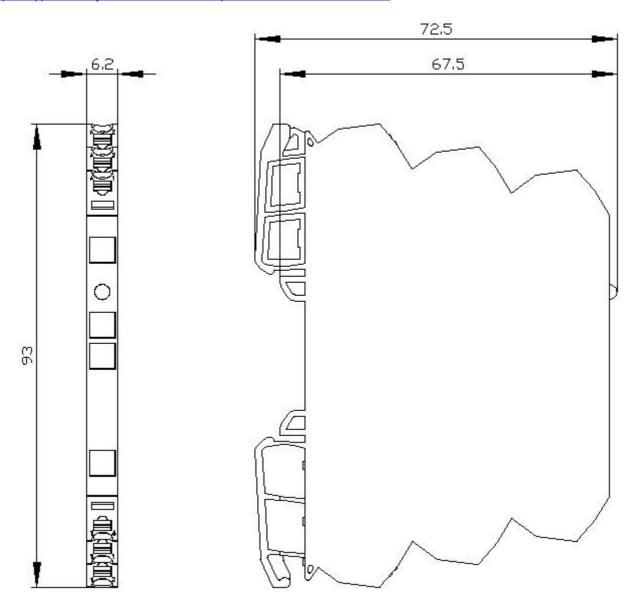
Cax online generator

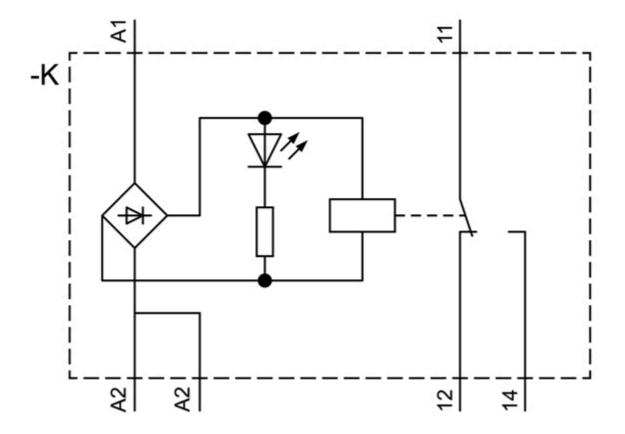
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-2AM08-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AM08-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-2AM08-0AA0&lang=en





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