SIEMENS

Data sheet

3RQ3018-2AN08-0AA0

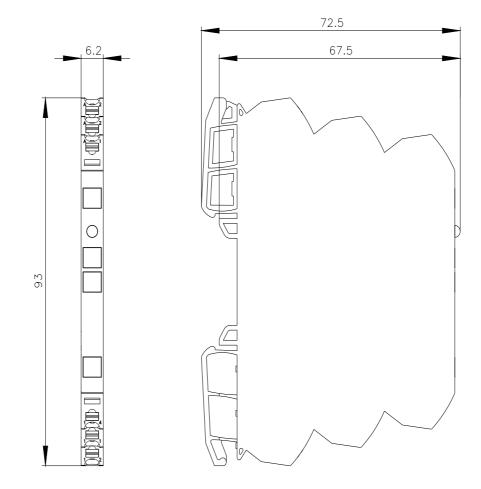


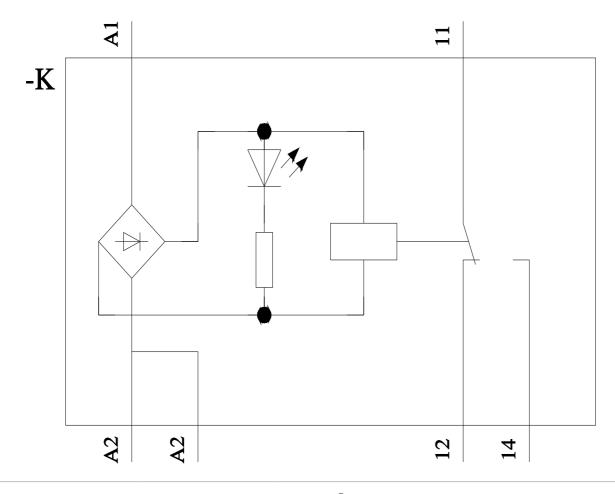
output coupler relay coupler, 1 change-over contact 110 V DC working range 0.7 to 1.25 x US width 6.2 mm spring-type terminal (push-in) thermal current 6 A (see derating characteristic)

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
flammability class of enclosure material	UL94 V-0
shock resistance	
 for railway applications according to EN 61373 	Category 1, Class B
vibration resistance	
 for railway applications according to EN 61373 	Category 1, Class B
operating frequency maximum	72 000 1/h
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
thermal current	6 A; for derating see characteristics
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	03/25/2015
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
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	
	fuer aC: 4 A
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	1A
• 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	Νο
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 50/00 H2	
• at 24 V	1A
• at 24 V	0.2 A
• at 250 V	0.1 A
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC enhancementer 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 burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
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	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 mm ²)
 finely stranded without core end processing at AWG cables solid 	
	1x (0.25 2.5 mm ²)
at AWG cables solid	1x (0.25 2.5 mm²) 1 x (20 14)
 at AWG cables solid at AWG cables stranded	1x (0.25 2.5 mm²) 1 x (20 14)
at AWG cables solid at AWG cables stranded connectable conductor cross-section	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14)
at AWG cables solid at AWG cables stranded connectable conductor cross-section solid	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ²
at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ²
 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross 	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ²
 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section 	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 0.25 2.5 mm ²
 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid solid 	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 0.25 2.5 mm ² 20 14
 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded 	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 0.25 2.5 mm ² 20 14
 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions 	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 0.25 2.5 mm ² 20 14 20 14
 at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing AWG number as coded connectable conductor cross section solid stranded Installation/ mounting/ dimensions mounting position 	1x (0.25 2.5 mm ²) 1 x (20 14) 1x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 0.25 2.5 mm ² 20 14 20 14 any

lepth		72.5 mm		
equired 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		
bient conditions				
istallation altitude at height above sea level maxim	num	2 000 m		
mbient temperature		2 000 111		
during operation		-40 +70 °C		
during operation orge		-40 +85 °C		
		10 ±85 °C		
during transport		-40 +85 °C		
Confirmation		-40 +85 °C 10 95 %	FAL	ЕМС
elative humidity during operation rtificates/ approvals General Product Approval			EAC	EMC EMC RCM
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