#### Data sheet



Output coupler Relay coupler, 1 CO, 24 V DC Operating range 0.7...1.25 x US Enclosure width 6.2 mm Springtype terminal (push-in) Thermal current 6 A

## Figure similar

### Article number

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 links
Product type designation	3RQ3

General technical data		
Display version LED		Yes
Product component		
<ul> <li>Relay output</li> </ul>		Yes
<ul> <li>semi-conductor output</li> </ul>		No
Consumed active power	W	0.3
Insulation voltage		
<ul> <li>for overvoltage category III according to IEC 60664</li> </ul>		
— with degree of pollution 3 rated value	V	300
Surge voltage resistance rated value	kV	4
maximum permissible voltage for safe isolation		

between control and auxiliary circuit	V	300
Percental drop-out voltage related to the input	%	14.6
voltage		
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	1/h	72 000
Switching behavior	_	monostable
Mechanical service life (switching cycles)	-	
• typical		10 000 000
Electrical endurance (switching cycles)	-	
• at AC-15 at 230 V typical		100 000
Thermal current	Α	6
Equipment marking		
• acc. to DIN EN 61346-2		К
• acc. to DIN EN 81346-2		К
Control circuit/ Control		
Control supply voltage at DC		
• rated value	V	24
Operating range factor control supply voltage rated value at DC		
		0.7
• initial value		0.7
• Full-scale value		1.25
Off-delay time	ms	10
Closing delay		
• at DC	ms	6
Opening delay		
• at DC	ms	13
Design of the relay operating mechanism		
	_	poled
Product component Plug-in socket		No No
Product component Plug-in socket  Short-circuit protection		·
		·
Short-circuit protection		·
Short-circuit protection  Design of the fuse link  • for short-circuit protection of the auxiliary switch		No
Short-circuit protection  Design of the fuse link  • for short-circuit protection of the auxiliary switch required		No
Short-circuit protection  Design of the fuse link  • for short-circuit protection of the auxiliary switch required  Auxiliary circuit		No fuse gG: 4 A
Short-circuit protection  Design of the fuse link  • for short-circuit protection of the auxiliary switch required  Auxiliary circuit  Type of switching contact		fuse gG: 4 A  Changeover contact
Short-circuit protection  Design of the fuse link  • for short-circuit protection of the auxiliary switch required  Auxiliary circuit  Type of switching contact  Material of switching contacts		No fuse gG: 4 A Changeover contact

● at 24 V	Α	3
● at 250 V	Α	3
Operating current of auxiliary contacts at DC-13		
• at 24 V	Α	1
● at 125 V	Α	0.2
● at 250 V	Α	0.1
Contact reliability of auxiliary contacts		one incorrect switching operation of 100 million
		switching operations (17 V, 5 mA)
B.AIn - Street IA		
Main circuit  Type of voltage		DC
Type of voltage		50
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	Α	3
Ampacity of the output relay at DC-13		
● at 24 V	Α	1
● at 125 V	Α	0.2
● at 250 V	Α	0.1
Electromagnetic compatibility		
EMC emitted interference		
• acc. to IEC 60947-1		ambience A (industrial sector)
EMI immunity		
• acc. to IEC 60947-1		corresponds to degree of severity 3
Conducted interference		0.117
• due to burst acc. to IEC 61000-4-4		2 kV
<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>		2 kV
• due to conductor-conductor surge acc. to IEC		1 kV
61000-4-5		
Field-bound parasitic coupling 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		
<ul> <li>removable terminal</li> </ul>		No
Type of electrical connection		

Wire length		
• at DC maximum	m	1 000
Type of connectable conductor cross-sections		
• solid		1x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1x (0.25 1.5 mm²)
• finely stranded without core end processing		1x (0.25 2.5 mm²)
at AWG conductors solid		1 x (20 14)
at AWG conductors stranded		1x (20 14)
Connectable conductor cross-section		
• solid	mm²	0.25 2.5
<ul> <li>finely stranded with core end processing</li> </ul>	mm²	0.25 1.5
<ul> <li>finely stranded without core end processing</li> </ul>	mm²	0.25 2.5
AWG number as coded connectable conductor cross section		
• solid		20 14
• stranded		20 14

Installation/ mounting/ dimensions		
Mounting position		any
Mounting type		snap-on mounting
Height	mm	93
Width	mm	6.2
Depth	mm	72.5
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	0
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0

Ambient conditions		
Installation altitude at height above sea level		
• maximum	m	2 000
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-40 <b>+7</b> 0
during storage	°C	-40 <b>+</b> 85
during transport	°C	-40 <b>+</b> 85
Relative humidity		
<ul><li>during operation</li></ul>	%	10 95

# Certificates/approvals

General Product Approval

Declaration of Conformity

Certificates











Type Test
Certificates/Test
Report

Marine / Shipping	other		Railway	
DNV-GL DNVGLCOM/AF	Confirmation	Environmental Confirmations	Vibration and Shock	Confirmation

#### Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

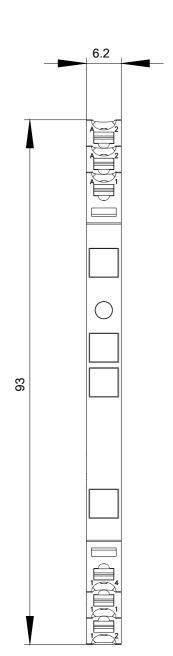
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3018-2AM08-0AA0

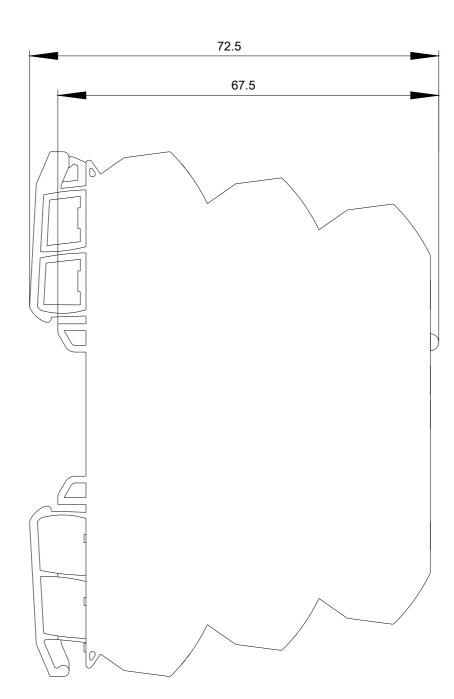
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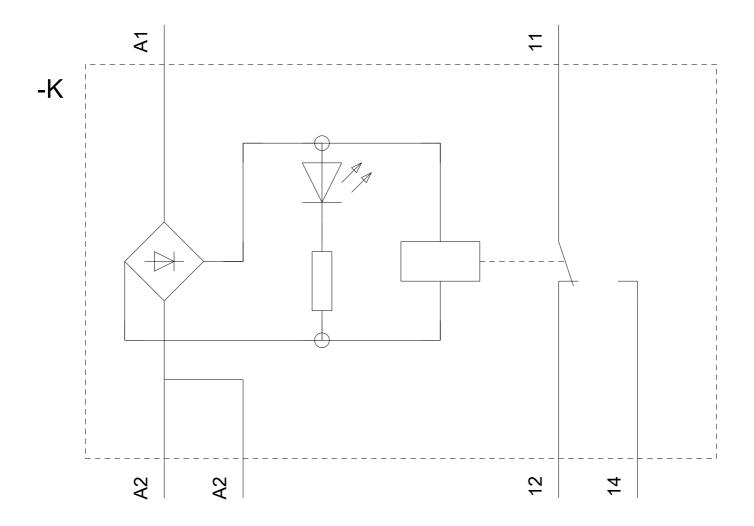
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-2AM08-0AA0

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, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3018-2AM08-0AA0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3018-2AM08-0AA0&lang=en</a>







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