## **SIEMENS**

Data sheet 3RQ3018-1AF00



OUTPUT COUPLING DEVICE, RELAY COUPLER, 1 CO CONTACT 230V AC/DC WIDTH 6.2MM SCREW TERMINAL

## Figure similar

product brandname	SIRIUS
Product designation	Coupling relays with relay output (not plug-in)
Design of the product	Output coupling links

General technical data		
Product component Plug-in socket		No
Product component Relay output		Yes
Product component semi-conductor output		No
Consumed active power	W	1
Insulation voltage for overvoltage category III		
according to IEC 60664		
<ul> <li>with degree of pollution 3 rated value</li> </ul>	V	300
Type of voltage		AC/DC
maximum permissible voltage for safe isolation		
<ul> <li>between control and auxiliary circuit</li> </ul>	V	300
Percental drop-out voltage related to the input	%	10
voltage		
Thermal current	Α	6
Opening delay		

• at AC	ms	20
• at DC	ms	18
Closing delay		
• at AC	ms	12
• at DC	ms	8
Design of the switching function positively driven		No
Operating frequency maximum	1/h	72 000
Electrical endurance (switching cycles)		
● at AC-15 at 230 V typical		100 000
Mechanical service life (switching cycles) typical		10 000 000
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
Surge voltage resistance rated value	kV	4
Protection class IP		IP20
Equipment marking		
• acc. to DIN EN 81346-2		K
• acc. to DIN EN 61346-2		К
Display version LED		Yes
Control circuit/ Control		
Control supply voltage		
• at AC		
— at 50 Hz rated value	V	230
— at 60 Hz rated value	V	230
at DC rated value	V	230
Operating range factor control supply voltage rated		
value		
● at AC at 50 Hz		0.8 1.1
● at AC at 60 Hz		0.8 1.1
• at DC		0.8 1.1
Auxiliary circuit		
Type of switching contact		Changeover contact
Material of switching contacts		AgSnO2
Type of electrical connection for auxiliary and control		screw-type terminals
current circuit		
Contact reliability of auxiliary contacts		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
Number of CO contacts for auxiliary contacts		1
Operating current of auxiliary contacts		

• at DC-13 at 24 V

• at DC-13 at 125 V

• at DC-13 at 250 V

• at AC-15 at 24 V

0.2

0.1

3

Α

Α

Short-circuit protection		
Design of the fuse link for short-circuit protection of		fuse gG: 4 A
the auxiliary switch required		
Inputs/ Outputs		
Property of the output Short-circuit proof		No
Ampacity of the output relay		
• at AC-15 at 250 V at 50/60 Hz	Α	3
• 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
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Conducted interference		
<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>		2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>		1 kV
• due to burst acc. to IEC 61000-4-4		2 kV
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Connections/Terminals		
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)
<ul> <li>at AWG conductors solid</li> </ul>		1 x (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
AWG number as coded connectable conductor cross section		
• solid		20 14
Tightening torque with screw-type terminals	N·m	0.5 0.6
Wire length		
at AC maximum	m	500
• at DC maximum	m	1 000
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
— downwards	mm	0
— at the side	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	m	2 000
maximum Ambient temperature		
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 60
during storage	°C	-40 +85
during transport	°C	-40 <b>+</b> 85
Relative humidity during operation	%	10 95

## 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=3RQ3018-1AF00

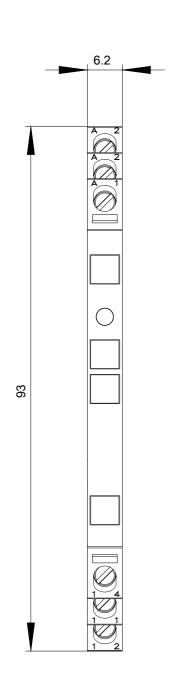
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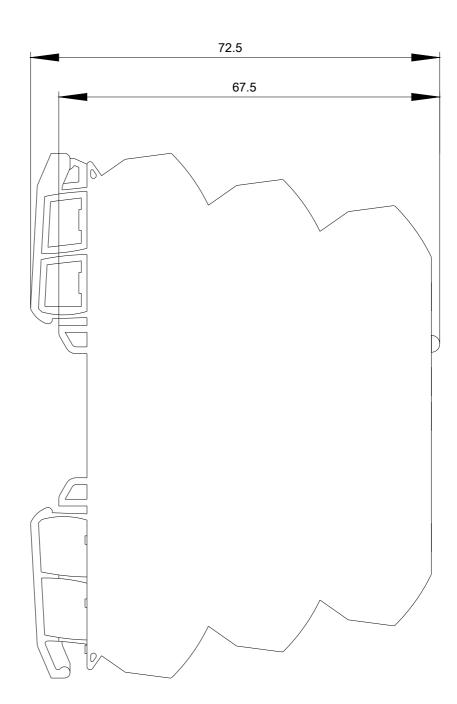
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-1AF00

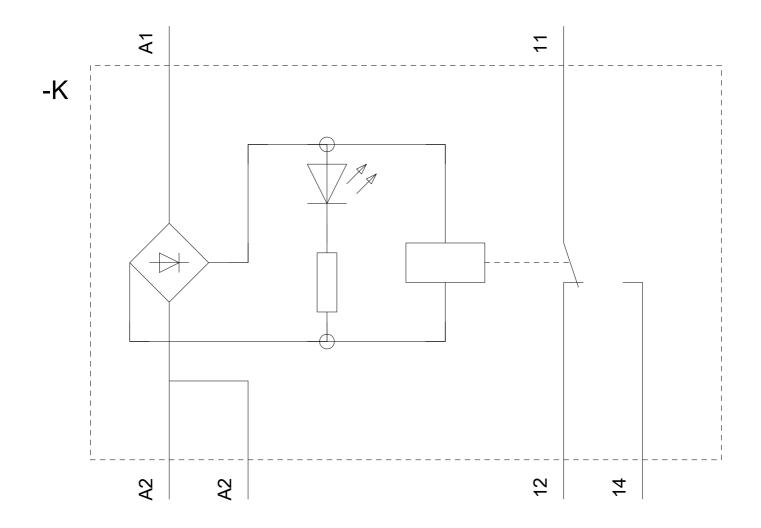
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-1AF00

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3018-1AF00&lang=en







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