SIEMENS

Data sheet 3RQ3018-1AB00



Output coupler Relay coupler, 1 change-over contact 24 V AC/DC Overall width 6.2 mm screw terminal Thermal current 6A $\,$

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 feature protective coating on printed-circuit board	No
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 protective separation	
 between control and auxiliary circuit 	300 V
percental drop-out voltage related to the input voltage	10 %
protection class IP	IP20
flammability class of enclosure material	UL94 V-0
shock resistance	
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance	
according to IEC 60068-2-6	6 150 Hz: 2 g
operating frequency maximum	72 000 1/h
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
thermal current	6 A
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	03/25/2015
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value at DC	

• initial value	0.8
full-scale value	1.25
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
• full-scale value	1.25
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.8
• full-scale value	1.25
ON-delay time	
• at AC maximum	12 ms
at DC maximum	12 ms
OFF-delay time	14 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 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	AC/DC
type of voltage Inputs/ Outputs	
type of voltage Inputs/ Outputs property of the output short-circuit proof	No
type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	
type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13	No 3 A
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type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V	No 3 A 1 A 0.2 A
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type of voltage Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 125 V • at 250 V Electromagnetic compatibility EMC emitted interference according to IEC 60947-1	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector)
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• for AWG cables solid • sol			
	for AWG cables solid	1 x (20 14)	
Finely stranded with core end processing 0.25 1.5 mm²			
AWC number as coded connectable conductor cross section • solid 20 14 tightening torque with screw-type terminals 0.5 0.6 N·m 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 — upwards 0 mm — upwards 0 mm — downwards 0 mm — of mounting 0 mm — at the side 0 mm — backwards 0 mm — backwards 0 mm — at the side 0 mm — backwards 0 mm — backwards 0 mm — towards 0 mm — backwards 0 mm — towards 0 mm — backwards 0 mm — towards 0 mm — towards 0 mm — towards 0 mm — upwards 0 mm — the side 0 mm — upwards 0 mm — at the side 0 mm — at the side 0 mm — at the side 0 mm — at the side 0 mm — townwards 0 mm — at the side 0 mm — townwards 0 mm — at the side 0 mm — townwards 0 mm — to ownwards 0 mm — backwards 0 mm — backward			
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tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position fastening method height 99 mm width 6,2 mm depth 72.5 mm required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side — for grounded parts — for grounded parts — to sackwards — upwards — o mm • for grounded parts — forwards — at the side — downwards — upwards — upwards — o mm • for grounded parts — forwards — backwards — upwards — upwards — upwards — upwards — upwards — upwards — o mm • for live parts — forwards — downwards — backwards — backwards — o mm • for live parts — forwards — upwards — backwards — upwards — o mm • for live parts — forwards — o mm — o mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — o mm —			
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Sasp-on mounting Sasp-on mounting Sasp-on mounting	Installation/ mounting/ dimensions		
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width 6.2 mm depth 72.5 mm required spacing 72.5 mm • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm — backwards 0 mm — backwards 0 mm — at the side 0 mm — downwards 0 mm • for live parts 0 mm — forwards 0 mm — backwards 0 mm — backwards 0 mm — ownwards 0 mm — at the side 0 mm Ambient conditions 0 mm Ambient conditions 2 000 m ambient temperature 0 during operation -25 +60 °C • during storage -40 +85 °C • during transport -40 +85 °C relative humidity during operation 10 95 % Certificates/ approvals	fastening method	snap-on mounting	
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● during transport -40 +85 °C relative humidity during operation 10 95 % Certificates/ approvals	 during operation 	-25 +60 °C	
relative humidity during operation 10 95 % Certificates/ approvals	during storage	-40 +85 °C	
Certificates/ approvals	during transport	-40 +85 °C	
	relative humidity during operation	10 95 %	
General Product Approval EMC	Certificates/ approvals		
	General Product Approval		EMC













Declaration of Conformity

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report



Confirmation

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RQ3018-1AB00

Cax online generator

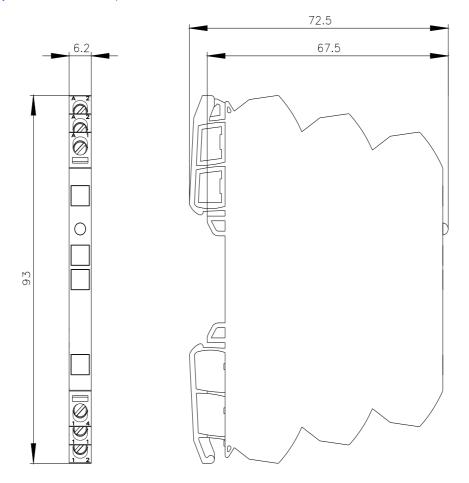
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-1AB00

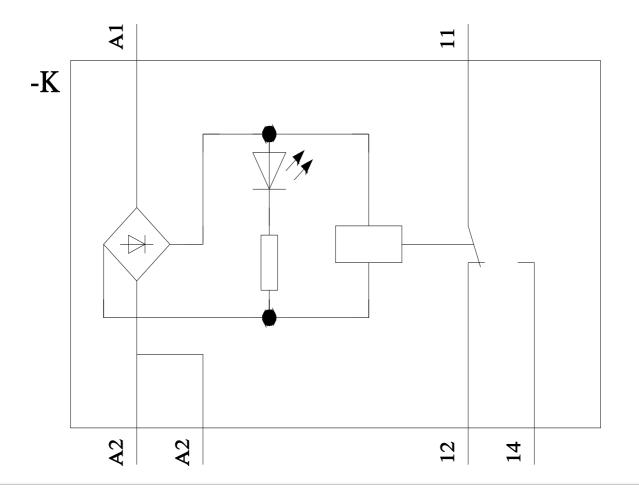
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-1AB00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-1AB00/manual





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