SIEMENS

Data sheet 3RQ3118-2AF00



Output coupler with plug-in Relay, 1 change-over contact Spring-type terminal (push-in) 230 V AC/DC Enclosure width 6.2 mm Thermal current 6A $\,$

product brand name	SIRIUS
product category	SIRIUS 3RQ3 coupling relays in slim design
product designation	Coupling relays with plug-in relay
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	1 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	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	K
Substance Prohibitance (Date)	03/25/2015
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at DC	
rated value	230 V
operating range factor control supply voltage rated value at DC	
initial value	0.8

• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.8
full-scale value	1.1
ON-delay time	
at AC maximum	9 ms
at DC maximum	8 ms
OFF-delay time	19 ms
design of the relay operating mechanism	poled
product component plug-in socket	Yes
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	AC/DC
Inputs/ Outputs property of the output short-circuit proof	AC/DC No
Inputs/ Outputs property of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz	
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
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	No 3 A 1 A
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
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	No 3 A 1 A
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	No 3 A 1 A 0.2 A 0.1 A
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)
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 EMC immunity according to IEC 60947-1	No 3 A 1 A 0.2 A 0.1 A
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 EMC immunity according to IEC 60947-1 conducted interference	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector) corresponds to degree of severity 3
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 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector) corresponds to degree of severity 3 2 kV
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 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV
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 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector) corresponds to degree of severity 3
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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 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display display version as status display by LED	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
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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 EMC immunity according to IEC 60947-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display display version as status display by LED Connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No 3 A 1 A 0.2 A 0.1 A ambience A (industrial sector) corresponds to degree of severity 3 2 kV 2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge LED green No spring-loaded terminals (push-in)
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• at AWG cables stranded	at AWG cables solid	1 x (20 14)		
Solid 0.25 2.5 mm² 0.				
		17 (20 14)		
• finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • Row without core end processing • Solid		0.25 2.5 mm ²		
◆ finely stranded without core end processing 0.25 2.5 mm³ AWG number as coded connectable conductor cross section 20 14 ◆ solid 20 14 ◆ stranded 20 14 Installation/mounting/ dimensions Towns and the properties of the properties				
AWG number as coded connectable conductor cross section • solid • stranded • stranded installation/ mounting/ dimensions mounting position fastening method height 99 mm width 6.2 mm depth 76 mm required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — of rorgrounded parts — or for grounded parts — owards — backwards — o mm — at the side • of or grounded parts — forwards — backwards — upwards — o mm — other side • for grounded parts — forwards — backwards — o mm — other side • for grounded parts — forwards — backwards — upwards — o mm — backwards — o mm — o hackwards — upwards — o mm —				
■ solid		0.25 2.5		
● stranded 20 14 Instalization/ mounting position any fastening method snap-on mounting height 93 mm width 62 mm depth 76 mm required spacing 0 mm — forwards 0 mm — backwards 0 mm — backwards 0 mm — downwards 0 mm — for grounded parts 0 mm — for grounded parts 0 mm — backwards 0 mm — upwards 0 mm — at the side 0 mm — downwards 0 mm — downwards 0 mm — downwards 0 mm — backwards 0 mm — downwards 0 mm — for live parts 0 mm — upwards 0 mm — upwards 0 mm — upwards 0 mm — downwards 0 mm — upwards 0 mm — upwards 0 mm — upwa				
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mounting position any fastening method snap-on mounting height 93 mm width 6.2 mm depth 76 mm required spacing • with side-by-side mounting • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm — upwards 0 mm — downwards 0 mm — backwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 0 mm — of or live parts 0 mm — forwards 0 mm — backwards 0 mm — backwards 0 mm — downwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm — downwards 0 mm — at the side 0 mm — downwards 0 mm — at the side 0 mm — downwards 0 mm <th< td=""><td>• stranded</td><td>20 14</td><td></td></th<>	• stranded	20 14		
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height 93 mm width 6.2 mm depth 76 mm required spacing ************************************	mounting position	any		
width 6.2 mm depth 76 mm required spacing	fastening method	snap-on mounting		
Tequired spacing Figure	height	93 mm		
required spacing with side-by-side mounting — forwards — backwards — o mm — downwards — o mm — at the side for grounded parts — fonwards — o mm — backwards — o mm — at the side — o mm — at the side — o mm — o	width	6.2 mm		
with side-by-side mounting — forwards — backwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — upwards — upwards — at the side — onm — at the side — onm — backwards — mm — at the side — onm — at the side — downwards — onm — downwards — onm • for live parts — forwards — onm • onm — at the side — downwards — onm • for live parts — forwards — onm — at the side — onm — where is the side — onm — at the side — onm — at the side — onm — downwards — onm — downwards — onm — at the side — onm	depth	76 mm		
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• for live parts — forwards — backwards — upwards — upwards — downwards — at the side — at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport during transport relative humidity during operation 10 95 % Certificates/ approvals	— at the side	0 mm		
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ambient temperature • during operation • during storage • during transport • during transport -40 +85 °C relative humidity during operation 10 95 % Certificates/ approvals	Ambient conditions			
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 during storage during transport relative humidity during operation 95 % Certificates/ approvals	ambient temperature			
◆ during transport	 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	

Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping

other

CE EG-Konf.



Type Test Certificates/Test Report



Confirmation

Further information

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=3RQ3118-2AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-2AF00

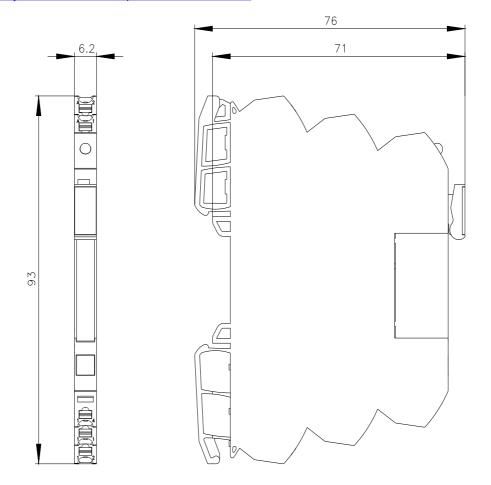
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AF00

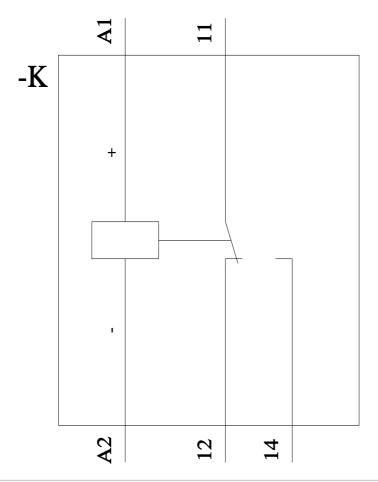
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-2AF00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AF00/manual





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