# 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 feature protective coating on printed-circuit board	No		
product component			
<ul> <li>relay output</li> </ul>	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 protective separation			
<ul> <li>between control and auxiliary circuit</li> </ul>	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			
<ul> <li>according to IEC 60068-2-27</li> </ul>	sinusoidal half-wave 15g / 11 ms		
vibration resistance			
<ul> <li>according to IEC 60068-2-6</li> </ul>	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	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			
Main circuit type of voltage	AC/DC		
	AC/DC		
type of voltage	AC/DC No		
type of voltage Inputs/ Outputs property of the output short-circuit proof			
type of voltage Inputs/ Outputs	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	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 ampacity of the output relay at DC-13	No 3 A		
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	No 3 A 1 A		
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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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         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		
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         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	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		
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<ul> <li>A VAUG cables shadhed</li> <li>Y YAUG cables shadhed</li> <li>Y Y</li></ul>	<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.25 2.5 mm²)		
• er/ WDL dates standed       r k (2) 4)         concretable conductor cross section       0.25 25 mm²         0.25 25 mm²       0.25 m²         AWD dates with core and processing       0.25 25 mm²         0.25 25 mm²       0.25 m²         AWD dates without core due processing       0.25 25 mm²         0.25 25 mm²       0.25 m²         AWD dates without core due processing       0.25 25 mm²         existing standed without core due processing       0.25 m²         mounting standards with core and processing       0.25 m²         mounting standards       0 mm²         featuring method       80 m²         with       82 mm²         depth       62 m²         - edates       0 mm²         - edates       0 mm² <t< td=""><td></td><td></td><td></td><td></td></t<>				
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depth     76 mm       required spacing        • with side by side mounting     0 mm       - backwards     0 mm       - downwards     0 mm       - backwards     0 mm       - downwards     0 mm       - downg betweet betwet betweet betweet betweet betweet betwet betwet betwet betw				
required spacing <ul> <li>this side sp-side mounting <li>this side sp-side mounting</li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></ul>				
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>opwards</li> <li>opwards</li> <li>of or grounded parts</li> <li>of or grounded parts</li> <li>of or wards</li> <li>opwards</li> <li>opwards<!--</td--><td>•</td><td>78 11111</td><td></td><td></td></li></ul>	•	78 11111		
<ul> <li>- forwards</li> <li>- backwards</li> <li>- Orwards</li> <li>- Orw</li></ul>				
- bekwards       0 mm         - upwards       0 mm         - a the side       0 mm         - a the side       0 mm         - a the side       0 mm         - bekwards       0 mm         - downwards       0 mm     <				
- upwards       0 mm         - downwards       0 mm         - for wards       0 mm         - for wards       0 mm         - for wards       0 mm         - upwards       0 mm         - or wards       0 mm         - downwards       0 mm         - down ands       0 mm         - downareation       0 mm				
- overwards       0 mm         - at the side       0 mm         - orwards       0 mm         - backwards       0 mm         - backwards       0 mm         - at the side       0 mm         - downwards       0 mm         - backwards       0 mm         - downwards       0 mm         - at the side       0 mm         - downwards       0 mm         - during tansport <td></td> <td></td> <td></td> <td></td>				
- at the side       0 mm         • for grounded parts       0 mm         - backwards       0 mm         - upwards       0 mm         - upwards       0 mm         - upwards       0 mm         - upwards       0 mm         - downads       0 mm         - downads       0 mm         - downads       0 mm         - downads       0 mm         - backwards       0 mm         - upwards       0 mm         - at the side       0 mm         - at the side       0 mm         - duing storage       - duing storage         - duing storage       - 25 +0 ° C         - duing storage       - duine +85 ° C         - for feature at apport       - for feature at apport         - foreferetat       Dromentame	•			
<ul> <li>• for grounded parts         <ul> <li>· Growards             <ul></ul></li></ul></li></ul>				
-       Orwards       Orm         -       backwards       Orm         -       at the side       Orm         -       downwards       Orm         -       ofwards       Orm         -       backwards       Orm         -       upwards       Orm         -       upwards       Orm         -       ofwards       Orm         -       ofwards       Orm         -       upwards       Orm         -       ofwards       Orm         ofwing storage       -       <		0 mm		
- backwards       0 mm         - upwards       0 mm         - at the side       0 mm         - at the side       0 mm         - downwards       0 mm         - for live parts       0 mm         - for live parts       0 mm         - downwards       0 mm         - backwards       0 mm         - downwards	<ul> <li>for grounded parts</li> </ul>			
- upwards       0 mm         - at the side       0 mm         - downwards       0 mm         - for live parts       0 mm         - backwards       0 mm         - at the side       0 mm         - downwards       - 200 m         - at the side       - 0 mm         - during operation       - 25 m + 60 °C         - during transport       - 40 m + 85 °C         - during transport       - 60 °C         - for	— forwards	0 mm		
<ul> <li>- at the side</li></ul>	— backwards	0 mm		
- downwards       0 mm         - for live parts       0 mm         - for wards       0 mm         - upwards       0 mm         - downwards       - downwards         - downwards       - downwards         - downwards       - 25 + 60 °C         - downwards       - 40 + 85 °C         - down + 85 °C       - 40 + 85 °C         - down + 85 °C       - 60 °C         - down +	— upwards	0 mm		
• for live parts         0 mm           - backwards         0 mm           - backwards         0 mm           - backwards         0 mm           - downwards         0 mm           - at the side         0 mm           - during operation         2000 m           - at the side         -40 +85 °C           - during transport         -40 +85 °C           - during transport         -40 +85 °C           - during transport         0 m +85 °C           - teative humidity during operation         0 +85 °C           - teatid teatid teatid to teatid teative         Confirmation<	— at the side	0 mm		
	— downwards	0 mm		
- backwards       0 mm         - upwards       0 mm         - downwards       0 mm         - at the side       - at the side         - at the side       - at the	• for live parts			
- upwards       0 mm         - a the side       0 mm         Anbient conditions       0 mm         Installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         - during storage       -40 +85 °C         - during transport       -40 +85 °C         - during transport       -0 m +85 °C         - relative hum/go operation       10 +85 °C         - confirmation       Confirmation         Operation of Conformity       Test Certific- ties/resi Report       Confirmation         Further information       Confirmation       C	— forwards	0 mm		
- downwards       0 mm         - a the side       0 mm         Anbient conditions       2 000 m         installation altive a height above sea level maximum       2 000 m         ambient temperature       - 40 + 85 °C         - during transport       - 40 + 85 °C         - during transport       - 40 + 85 °C         - relative humidity during operation       - 0 m s %         Confirmation       - 0 m s %         Confirmation       - 0 m s %         Confirmation       - 0 m s %         Declaration of Conformity       Test Certificates         Marine / Shipping       other         EGE       Marine / Shipping         Other       - 0 mest rest Certificates         Poclaration of Conformity       Type Test Certificates         Marine / Shipping       other         Further information       - 0 mesting         Further information       - 0 mesting         Biemens has decided to exit the Russian market (see here).       - 0 mesting	— backwards	0 mm		
	— upwards	0 mm		
Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -40 +85 °C         • during transport       10 95 %         Cortificates/ approvals       EMC         Confirmation       Out of Conformity         Confirmation       Confirmation         Confirmation       Out of Conformity         Confirmation       Type Test Certificates         Marine / Shipping       other         Further Information       Confirmation         Further Information       Simens has decided to exit the Russian market (see here).	— downwards	0 mm		
installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         - during operation       -25 +60 °C         - during storage       -40 +85 °C         - during transport       -40 +85 °C         - relative humidity during operation       10 +85 °C         Certificates/ approvals       EMC         Certificates/ approvals       EMC         Declaration of Conformity       Test Certificates       Marine / Shipping       other         Efficience       UKS       Type Test Certific- ates/Test Report       Confirmation         Further Information       Type Test Certific- ates/Test Report       Confirmation	— at the side	0 mm		
amblent temperature       -25 +60 °C         • during operation       -40 +85 °C         • during transport       -40 +85 °C         • during transport       10 95 %         EMC         Confirmation	Ambient conditions			
ambient temperature       -25 +60 °C         • during operation       -26 +60 °C         • during storage       -40 +85 °C         • during transport       -40 +85 °C         • during transport       10 95 %         Contificates/ approvals         General Product Approval         General Product Approval         EMC         Declaration of Conformity         Test Certificates         Confirmation         Confirmation </td <td>installation altitude at height above sea level maximum</td> <td>2 000 m</td> <td></td> <td></td>	installation altitude at height above sea level maximum	2 000 m		
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• during storage • during transport       -40 +85 °C -40 +85 °C         • during transport       -40 +85 °C         relative humidity during operation       10 95 %         Confirmation         Confirmation         EMC         Confirmation         Confirmation         Confirmation         Confirmation         Declaration of Conformity         Test Certificates         Marine / Shipping         Other         Confirmation         Confirmation         Other         Declaration of Conformity       Test Certificates       Marine / Shipping       other         Confirmation         Confirmation         Other         Confirmation         Confirmation         Confirmation	-	-25 +60 °C		
• during transport       -40 +85 °C         relative humidity during operation       10 95 %         EMC         Confirmation         EMC         Declaration of Conformity       Test Certificates       Marine / Shipping       other         Declaration of Conformity       Test Certificates       Marine / Shipping       other         EVEK         EVEK       Sies/Test Report         Confirmation         Siemens has decided to exit the Russian market (see here).				
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#### 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

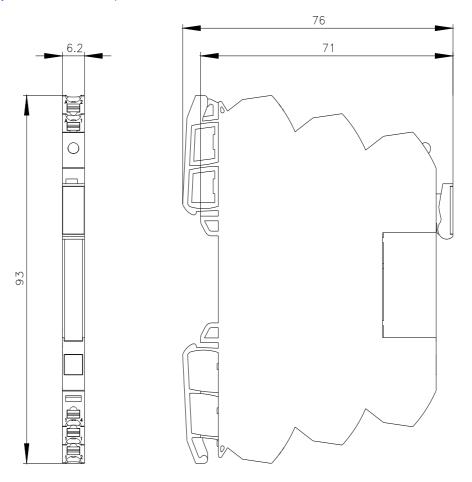
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

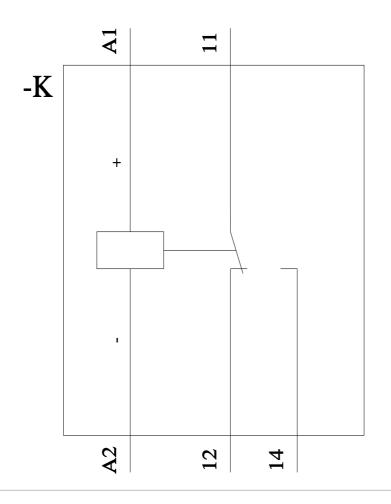
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AF00

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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