SIEMENS

Data sheet 3RQ3038-1AF01



Input coupler Relay coupler, 1 change-over contact hard gold-plated contacts 230 V AC/DC screw terminal Overall 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 relay output (not plug-in)
design of the product	Input 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	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	
 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	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	

* full-case value * full-case value * full-case value * initial value		
Special prage factor control supply voltage rated value at Act 45 Hz. * Initial value 0.8 - * Initial value 0.8		
AC at 8 bit Initial value 0.8 1.1		1.1
A cilistatic value		
Special project factor control supply voltage rated value at A cl at 6 1%	• initial value	0.8
AC at to fixe initial value i	• full-scale value	1.1
• full-scale value ON-clotaly time		
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and DC maximum OFF-delay time design of the relay operating mechanism poled product component plug-in socket No No Short-circuit protection design of the fixse link for short-circuit protection of the auxiliary which required Auxiliary circuit type of switching contact at 24 V at 250 V contact reliability of auxiliary contacts at DC-13 at 2125 V at 2125 V contact reliability of auxiliary contacts Type of voltage April 250 V contact reliability of auxiliary contacts April 250 V Auxiliary circuit Type of voltage April 250 V April 2	ON-delay time	
Section of the relay operating mechanism Deled	at AC maximum	9 ms
design of the relay operating mechanism poled No	at DC maximum	8 ms
Incording protection Incorporate Incorporate Incorporation Incorporate Inc	OFF-delay time	19 ms
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awkin required type of switching contact material of switching contacts	Short-circuit protection	
type of switching contact material of switching contacts material of switching contacts number of Co contacts for auxiliary contacts at AC-15 • alt 24 V 3A • alt 250 V 3A operational current of auxiliary contacts at DC-13 • alt 24 V 1A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A • alt 125 V 0.2 A • alt 250 V 0.1 A Contact reliability of auxiliary contacts Where of voltage Inputs/ Outputs property of the output short-circuit proof mapacity of the output relay at AC-15 at 250 V at 50/60 Hz • alt 24 V 1A • alt 125 V 0.2 A • alt 25 V 0.1 A Electromagnetic compatibility Electromagnetic c		fuse gG: 4 A
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number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	type of switching contact	Changeover contact
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e at 24 V e at 250 V operational current of auxillary contacts at DC-13 e at 24 V e at 125 V ot 250 V on at 250 V O.2 A one incorrect switching operation of 100 million switching operations (5 V, 1 m/A) Contact reliability of auxiliary contacts Main circuit Type of voltage Inputs/ Outputs Properly 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 125 V e at 125 V o.1 A anapacity of the output relay at DC-13 at 125 V o.1 A at 125 V o.1 A at 125 V o.1 A Electromagnetic compatibility EMC emitted interference according to IEC 60047-1 EMC immunity according to IEC 60947-1 conducted interference e due to burst according to IEC 61000-4-4 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 Display display version as status display by LED EDSplay drop of electrical connection for auxiliary and control circuit wire length e at AC maximum at DC maximum	number of CO contacts for auxiliary contacts	1
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• at 24 V • at 1250 V 0.2 A at 250 V 0.1 A contact reliability of auxiliary contacts maximum size of the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz • at 125 V • at 125 V • at 125 V may be described by the output short-circuit proof ampacity of the output relay at AC-15 at 250 V at 50/60 Hz • at 125 V • at	• at 250 V	3 A
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Inputs/ Outputs property of the output short-circuit proof		
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type of electrical connection for auxiliary and control circuit wire length at AC maximum at DC maximum type of connectable conductor cross-sections solid screw-type terminals 500 m 1 000 m type of connectable conductor cross-sections 1x (0.25 2.5 mm²)	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	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
wire length • at AC maximum • at DC maximum 1 000 m type of connectable conductor cross-sections • solid 1x (0.25 2.5 mm²)	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
● at AC maximum • at DC maximum 1 000 m type of connectable conductor cross-sections • solid 1x (0.25 2.5 mm²)	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	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
◆ at DC maximum type of connectable conductor cross-sections ◆ solid 1x (0.25 2.5 mm²)	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	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
type of connectable conductor cross-sections ● solid	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	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
• solid 1x (0.25 2.5 mm²)	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 screw-type terminals
	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 • at AC maximum	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 screw-type terminals 500 m
• finely stranded with core end processing 1x (0.25 1.5 mm²)	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 • at AC maximum • at DC maximum	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 screw-type terminals 500 m
. ,	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-carth 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 • at AC maximum • at DC maximum type of connectable conductor cross-sections	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 screw-type terminals 500 m 1 000 m

	4 (22 41)
for AWG cables solid	1 x (20 14)
connectable conductor cross-section	
• solid	0.25 2.5 mm ²
finely stranded with core end processing	0.25 1.5 mm²
AWG 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
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
for live parts	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-40 +85 °C
during transport	-40 +85 °C
relative humidity during operation	10 95 %
Certificates/ approvals	
0 10 1 14	F110

General Product Approval





Confirmation









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=3RQ3038-1AF01

Cax online generator

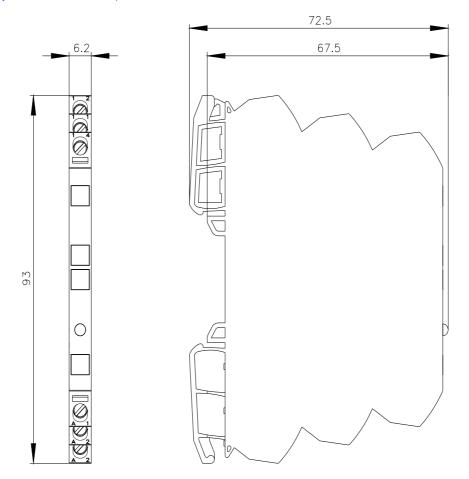
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3038-1AF01

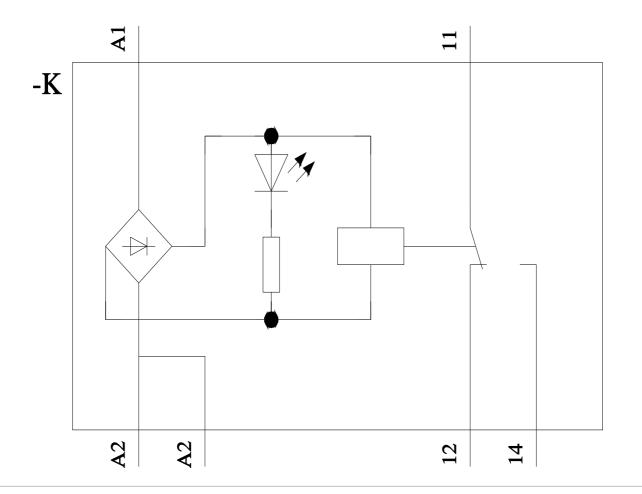
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3038-1AF01&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-1AF01/manual





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