



Output coupler with plug-in Relay, 1 CO, hard gold-plated 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	Yes
- relay output - 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	300 V
between control and auxiliary circuit	10 %
percental drop-out voltage related to the input voltage	IP20
protection class IP	UL94 V-0
flammability class of enclosure material	
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 (switching 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 - at 60 Hz rated value	230 V
control supply voltage frequency	230 V
1 rated value 2 rated value	50 Hz
control supply voltage at DC	60 Hz
rated value	230 V
operating range factor control supply voltage rated value at DC	
- initial value - full-scale value	0.8
	1.1

operating range factor control supply voltage rated value at AC at 50 Hz

- initial value
- full-scale value

0.8
1.1

operating range factor control supply voltage rated value at AC at 60 Hz

- initial value
- full-scale value

0.8
1.1

ON-delay time

- at AC maximum
- at DC maximum

9 ms
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 hard gold-plated

number of CO contacts for auxiliary contacts

1

operational current of auxiliary contacts at AC-15

- at 24 V
- at 250 V

3 A
3 A

operational current of auxiliary contacts at DC-13

- at 24 V
- at 125 V
- at 250 V

1 A
0.2 A
0.1 A

contact reliability of auxiliary contacts

one incorrect switching operation of 100 million switching operations (5 V, 1 mA)

Main circuit

type of voltage

AC/DC

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

3 A

ampacity of the output relay at DC-13

- at 24 V
- at 125 V
- at 250 V

1 A
0.2 A
0.1 A

Electromagnetic compatibility

EMC emitted interference according to IEC 60947-1

ambience A (industrial sector)

EMC immunity according to IEC 60947-1

corresponds to degree of severity 3

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

2 kV
2 kV
1 kV

field-based interference according to IEC 61000-4-3

10 V/m

electrostatic discharge according to IEC 61000-4-2

6 kV contact discharge / 8 kV air discharge

Display

display version as status display by LED

LED green

Connections/ Terminals

product function removable terminal

No

type of electrical connection for auxiliary and control circuit wire length

spring-loaded terminals (push-in)

- at AC maximum
- at DC maximum

500 m
1 000 m

type of connectable conductor cross-sections

- solid
- finely stranded with core end processing
- finely stranded without core end processing
- at AWG cables solid

1x (0.25 ... 2.5 mm²)
1x (0.25 ... 1.5 mm²)
1x (0.25 ... 2.5 mm²)
1 x (20 ... 14)

• at AWG cables stranded	1x (20 ... 14)
connectable conductor cross-section	
• solid	0.25 ... 2.5 mm ²
• finely stranded with core end processing	0.25 ... 1.5 mm ²
• finely stranded without core end processing	0.25 ... 2.5 mm ²
AWG number as coded connectable conductor cross section	
• solid	20 ... 14
• stranded	20 ... 14

Installation/ mounting/ dimensions

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 — forwards — backwards — upwards — downwards — at the side	0 mm 0 mm 0 mm 0 mm 0 mm
• for grounded parts — forwards — backwards — upwards — at the side — downwards	0 mm 0 mm 0 mm 0 mm 0 mm
• for live parts — forwards — backwards — upwards — downwards — at the side	0 mm 0 mm 0 mm 0 mm 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

General Product Approval	EMC
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[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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EG-Konf.

[Type Test Certificates/Test Report](#)



[Confirmation](#)

Further information

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=3RQ3118-2AF01>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-2AF01>

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

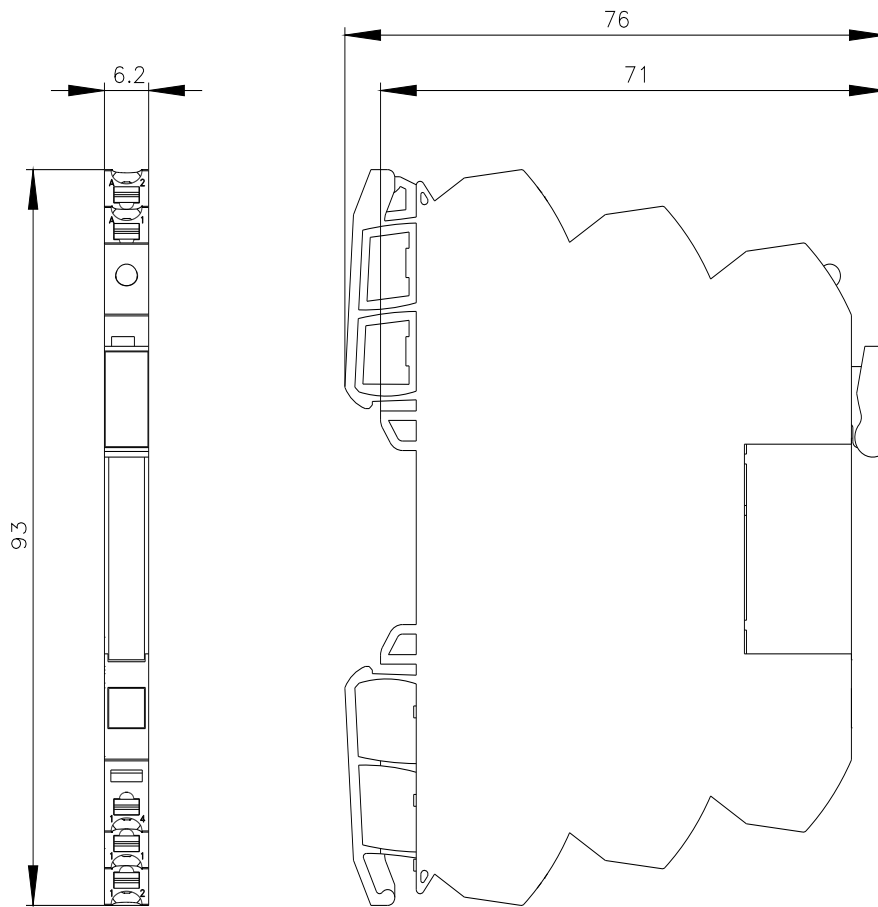
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AF01>

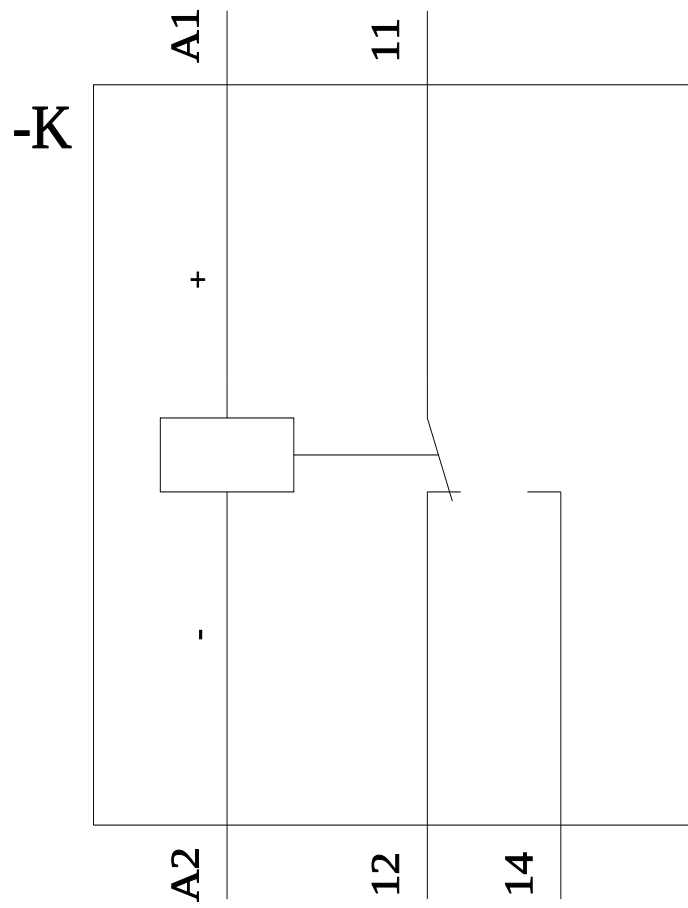
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3118-2AF01&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AF01/manual>





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