



Output coupler Relay coupler, 1 change-over contact 230 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 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 (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	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
- 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

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
- 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 (17 V, 5 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

screw-type terminals

- at AC maximum
- at DC maximum

500 m
1 000 m

type of connectable conductor cross-sections

- solid
- finely stranded with core end processing
- at AWG cables solid

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

connectable conductor cross-section

• solid • finely stranded with core end processing	0.25 ... 2.5 mm ² 0.25 ... 1.5 mm ²
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 — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — at the side	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 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 • during storage • during transport	-25 ... +60 °C -40 ... +85 °C -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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[Type Test Certificates/Test Report](#)



[Confirmation](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

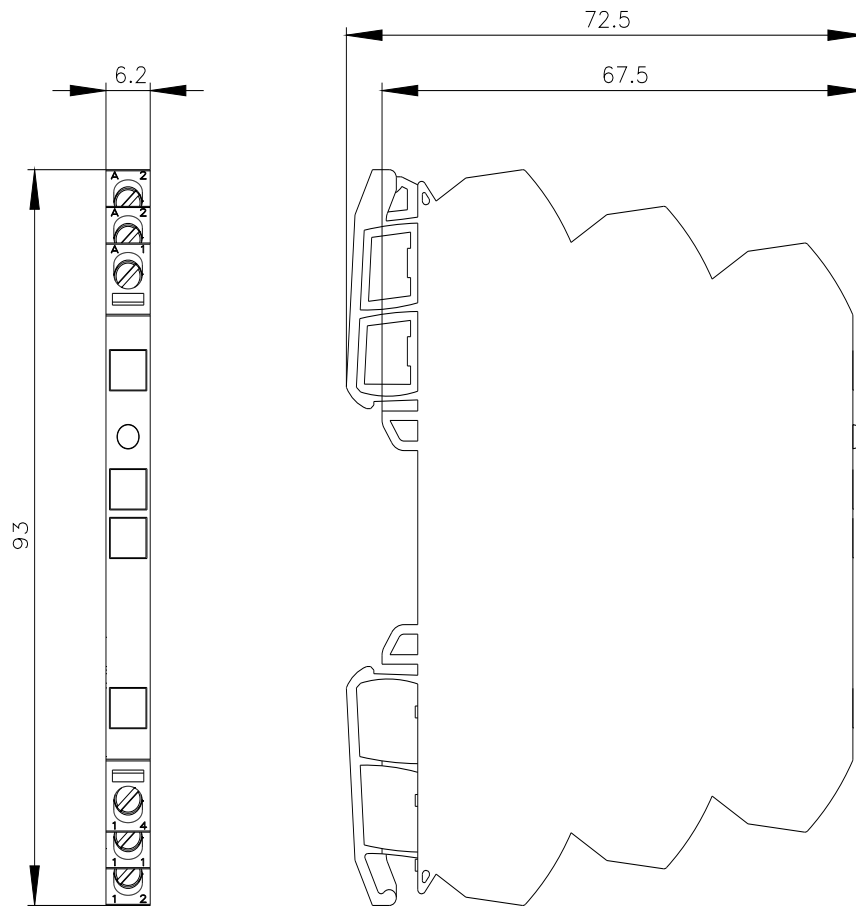
Industry Mall (Online ordering system)

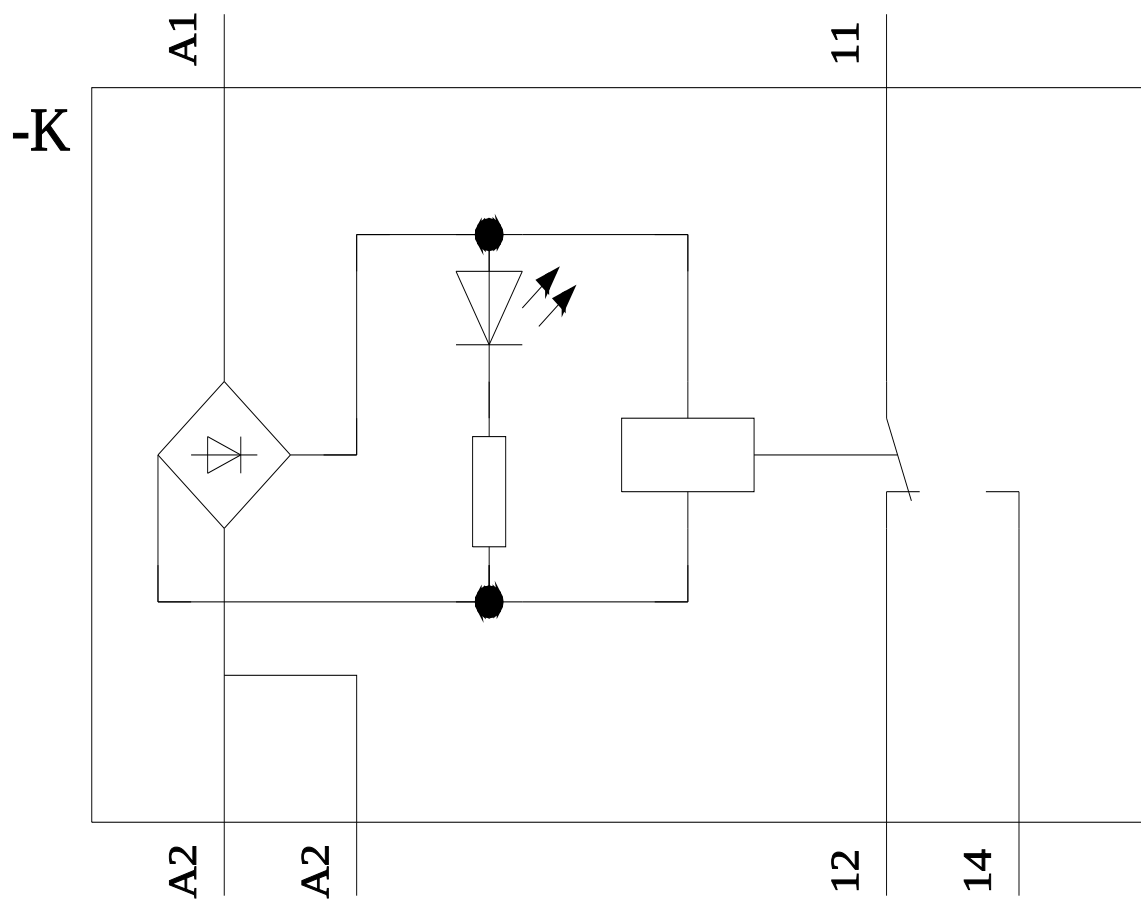
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3018-1AF00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-1AF00>

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





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