



Input coupler Optocoupler 1 NO contact, Transistor Input 24 V AC/DC
Output max. 30 V DC, 0.5 A Overall width 6.2 mm screw terminal Thermal
current 0.5 A

product brand name	SIRIUS
product category	SIRIUS 3RQ3 coupling relays in slim design
product designation	Coupling relays with semiconductor output (not plug-in)
design of the product	Input coupling link
product type designation	3RQ3

General technical data

display version LED	Yes
product component	No
- relay output - semi-conductor output	Yes
consumed active power	0.5 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	50 V
surge voltage resistance rated value	2.5 kV
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
switching frequency	0.1 Hz
thermal current	0.5 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	11 ... 30 V
control supply voltage frequency	11 ... 30 V
1 rated value 2 rated value	50 Hz
control supply voltage at DC	60 Hz
rated value	11 ... 30 V
operating range factor control supply voltage rated value at DC	
- initial value - full-scale value	1
operating range factor control supply voltage rated value at AC at 50 Hz	1
- initial value - full-scale value	1
operating range factor control supply voltage rated	1

value at AC at 60 Hz

- initial value
- full-scale value

1

1

minimum switching voltage when switching on

11 V

maximum switching voltage when switching off

5 V

ON-delay time

- at AC maximum
- at DC maximum

2 ms

1 ms

OFF-delay time

4 ms

product component plug-in socket

No

Auxiliary circuit**type of switching contact**

NO contact

number of NO contacts for auxiliary contacts

1

Main circuit**type of voltage**

AC/DC

Inputs/ Outputs**property of the output short-circuit proof**

No

switching voltage of the semiconductor output at DC

10 ... 30 V

ampacity of the semiconductor output at DC

10 mA ... 0.5 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

screw-type terminals

wire length

- 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 mm²0.25 ... 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
 - backwards
 - upwards
 - downwards
 - at the side
- for grounded parts

0 mm

0 mm

0 mm

0 mm

0 mm

— 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

General Product Approval

EMC

Declaration of Conformity



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping

other



[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=3RQ3070-1SB30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3070-1SB30>

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

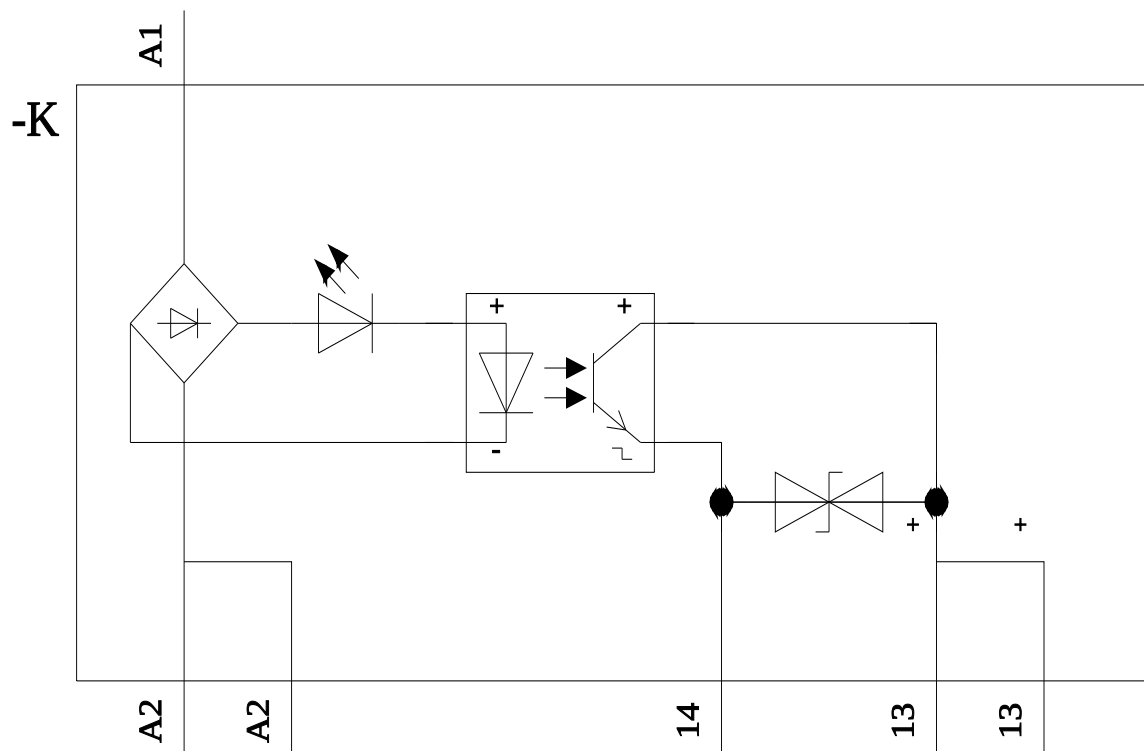
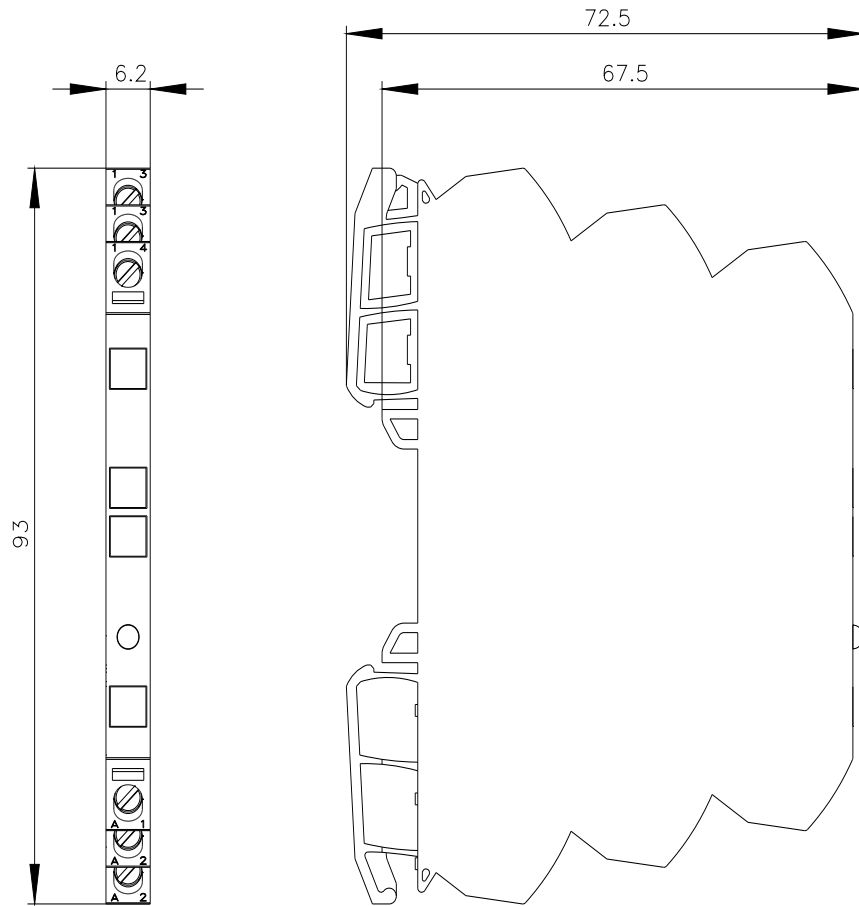
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-1SB30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3070-1SB30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-1SB30/manual>



last modified:

5/6/2021

