## **SIEMENS**

Data sheet 3RQ3070-2SG30



Input coupler Optocoupler 1 NO contact, Transistor Input 110-230 V AC/DC Output max. 30 V DC, 0.5 A short circuit-proof Overall width 6.2 mm Spring-type terminal (push-in) 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 feature protective coating on printed-circuit board	No
product component	
<ul> <li>relay output</li> </ul>	No
semi-conductor output	Yes
consumed active power	0.5 W
surge voltage resistance rated value	4 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	0.2 Hz
thermal current	0.5 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	110 230 V
at 60 Hz rated value	110 230 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at DC	
rated value	110 230 V
operating range factor control supply voltage rated value at DC	
• initial value	0.7
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.7
• full-scale value	1.1
operating range factor control supply voltage rated value at	

AC at 60 Hz	
• initial value	0.7
• full-scale value	1.1
minimum switching voltage when switching on	74 V
maximum switching voltage when switching off	20 V
ON-delay time	
at AC maximum	5 ms
at DC maximum	3 ms
OFF-delay time	7 ms
product component plug-in socket	No
Auxiliary circuit	140
	NOtt
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	, made to any or
due to burst according to IEC 61000-4-4	2 kV
<ul> <li>due to builst according to IEC 01000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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	
	LED green
display version as status display by LEL)	
display version as status display by LED	LLD green
Connections/ Terminals	
Connections/ Terminals product function removable terminal	No
Connections/ Terminals  product function removable terminal  type of electrical connection for auxiliary and control circuit	
Connections/ Terminals  product function removable terminal  type of electrical connection for auxiliary and control circuit  wire length	No spring-loaded terminals (push-in)
connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length • at AC maximum	No spring-loaded terminals (push-in) 500 m
connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length at AC maximum at DC maximum	No spring-loaded terminals (push-in)
connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in) 500 m 1 000 m
connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²)
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 • solid • finely stranded with core end processing	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²)
connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²)
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 • solid • finely stranded with core end processing	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 2.4 mm²)
connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²)
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connections/ Terminals product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 2.4 mm²)
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  • solid  • finely stranded with core end processing  • finely stranded without core end processing  • for AWG cables solid  • for AWG cables stranded  connectable conductor cross-section	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 1.4) 1x (20 14)
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  solid  finely stranded with core end processing  finely stranded without core end processing  for AWG cables solid  for AWG cables stranded  connectable conductor cross-section  solid	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (0.25 2.5 mm²) 1x (20 14) 1x (20 14)
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  • solid  • finely stranded with core end processing  • finely stranded without core end processing  • for AWG cables solid  • for AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (20 14) 1x (20 14)  0.25 2.5 mm² 0.25 1.5 mm²
product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (20 14) 1x (20 14)  0.25 2.5 mm² 0.25 1.5 mm²
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product function removable terminal type of electrical connection for auxiliary and control circuit wire length	No spring-loaded terminals (push-in)  500 m 1 000 m  1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²) 1x (20 14) 1x (20 14)  0.25 2.5 mm² 0.25 2.5 mm² 0.25 2.5 mm² 0.25 1.5 mm² 0.25 2.5 mm² 0.25 2.5 mm² 0.25 2.5 mm² 0.25 2.5 mm²

General Product Approval	_	EMC
Certificates/ approvals		
relative humidity during operation	10 95 %	
during transport	-40 +85 °C	
during storage	-40 +85 °C	
during operation	-25 +60 °C	
ambient temperature		
installation altitude at height above sea level maximum	2 000 m	
Ambient conditions		
— at the side	0 mm	
— downwards	0 mm	
— upwards	0 mm	
— backwards	0 mm	
— forwards	0 mm	
• for live parts		
— downwards	0 mm	
— at the side	0 mm	
— upwards	0 mm	
— backwards	0 mm	
— forwards	0 mm	
for grounded parts		
— at the side	0 mm	
— downwards	0 mm	
— upwards	0 mm	





Confirmation







**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

other





Type Test Certificates/Test Report



Confirmation

## Further information

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=3RQ3070-2SG30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RQ3070-2SG30}$ 

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

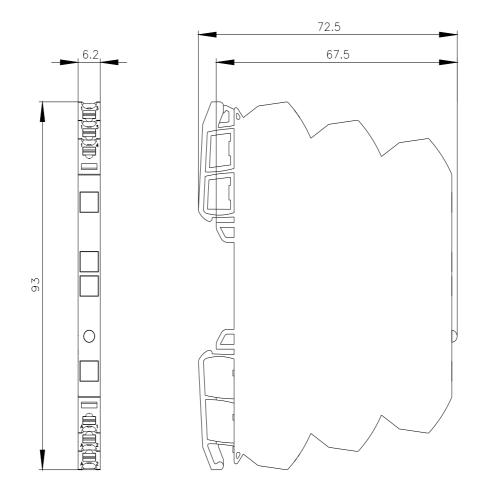
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-2SG30

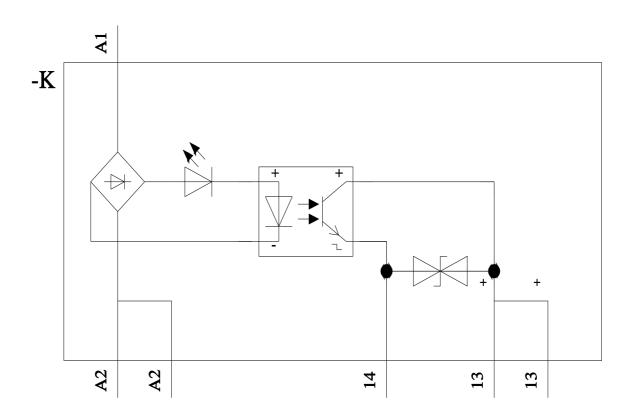
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RQ3070-2SG30&lang=en

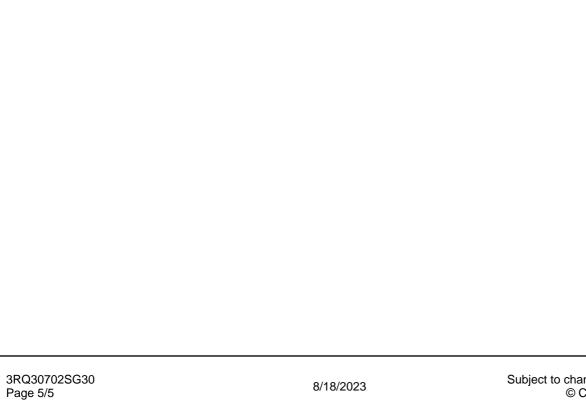
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-2SG30/manual





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