



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 component	No
<ul style="list-style-type: none"> relay output 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	
<ul style="list-style-type: none"> according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
vibration resistance	
<ul style="list-style-type: none"> 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	K
Substance Prohibitance (Date)	03/25/2015

Control circuit/ Control

control supply voltage at AC	
<ul style="list-style-type: none"> at 50 Hz rated value at 60 Hz rated value 	110 ... 230 V 110 ... 230 V
control supply voltage frequency	
<ul style="list-style-type: none"> 1 rated value 2 rated value 	50 Hz 60 Hz
control supply voltage at DC	
<ul style="list-style-type: none"> rated value 	110 ... 230 V
operating range factor control supply voltage rated value at DC	
<ul style="list-style-type: none"> initial value full-scale value 	0.7 1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> initial value full-scale value 	0.7 1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> initial value 	0.7

<ul style="list-style-type: none"> • full-scale value 	1.1
minimum switching voltage when switching on	74 V
maximum switching voltage when switching off	20 V
ON-delay time	
<ul style="list-style-type: none"> • at AC maximum 	5 ms
<ul style="list-style-type: none"> • at DC maximum 	3 ms
OFF-delay time	7 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	
<ul style="list-style-type: none"> • due to burst according to IEC 61000-4-4 	2 kV
<ul style="list-style-type: none"> • due to conductor-earth surge according to IEC 61000-4-5 	2 kV
<ul style="list-style-type: none"> • due to conductor-conductor surge according to IEC 61000-4-5 	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	spring-loaded terminals (push-in)
wire length	
<ul style="list-style-type: none"> • at AC maximum 	500 m
<ul style="list-style-type: none"> • at DC maximum 	1 000 m
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid 	1x (0.25 ... 2.5 mm ²)
<ul style="list-style-type: none"> • finely stranded with core end processing 	1x (0.25 ... 1.5 mm ²)
<ul style="list-style-type: none"> • finely stranded without core end processing 	1x (0.25 ... 2.5 mm ²)
<ul style="list-style-type: none"> • at AWG cables solid 	1 x (20 ... 14)
<ul style="list-style-type: none"> • at AWG cables stranded 	1x (20 ... 14)
connectable conductor cross-section	
<ul style="list-style-type: none"> • solid 	0.25 ... 2.5 mm ²
<ul style="list-style-type: none"> • finely stranded with core end processing 	0.25 ... 1.5 mm ²
<ul style="list-style-type: none"> • finely stranded without core end processing 	0.25 ... 2.5 mm ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • solid 	20 ... 14
<ul style="list-style-type: none"> • stranded 	20 ... 14
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
depth	72.5 mm
required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting 	
<ul style="list-style-type: none"> — forwards 	0 mm
<ul style="list-style-type: none"> — backwards 	0 mm
<ul style="list-style-type: none"> — upwards 	0 mm
<ul style="list-style-type: none"> — downwards 	0 mm
<ul style="list-style-type: none"> — 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

General Product Approval

EMC



[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=3RQ3070-2SG30>

Cax online generator

<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>



