

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 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	
• Relay output	No
• semi-conductor output	Yes
Consumed active power	0.5 W
Surge voltage resistance rated value	4 kV
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
Switching frequency	0.2 Hz
Thermal current	0.5 A
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K

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
Switch-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	
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
Outputs	
Ampacity of the semiconductor output at DC	10 mA ... 0.5 A
Electromagnetic compatibility	
EMC emitted interference	
• acc. to IEC 60947-1	ambience A (industrial sector)
EMI immunity	
• acc. to IEC 60947-1	corresponds to degree of severity 3
Conducted interference	

<ul style="list-style-type: none"> • due to burst acc. to IEC 61000-4-4 	2 kV
<ul style="list-style-type: none"> • due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
<ul style="list-style-type: none"> • due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge

Display

Display version	
<ul style="list-style-type: none"> • as status display by LED 	LED green

Connections/ Terminals

Product function	
<ul style="list-style-type: none"> • removable terminal 	No
Type of electrical connection	
<ul style="list-style-type: none"> • for auxiliary and control current circuit 	screw-type terminals
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"> • at AWG conductors solid 	1 x (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
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> • solid 	20 ... 14
Tightening torque	
<ul style="list-style-type: none"> • with screw-type terminals 	0.5 ... 0.6 N·m

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	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 — Backwards — upwards 	0 mm 0 mm 0 mm

- downwards 0 mm
- 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
Relative humidity	
• during operation	10 ... 95 %

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
---------------------------------	------------	----------------------------------



Declaration of Conformity	Marine / Shipping	other
----------------------------------	--------------------------	--------------

[Miscellaneous](#)



[Confirmation](#)

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

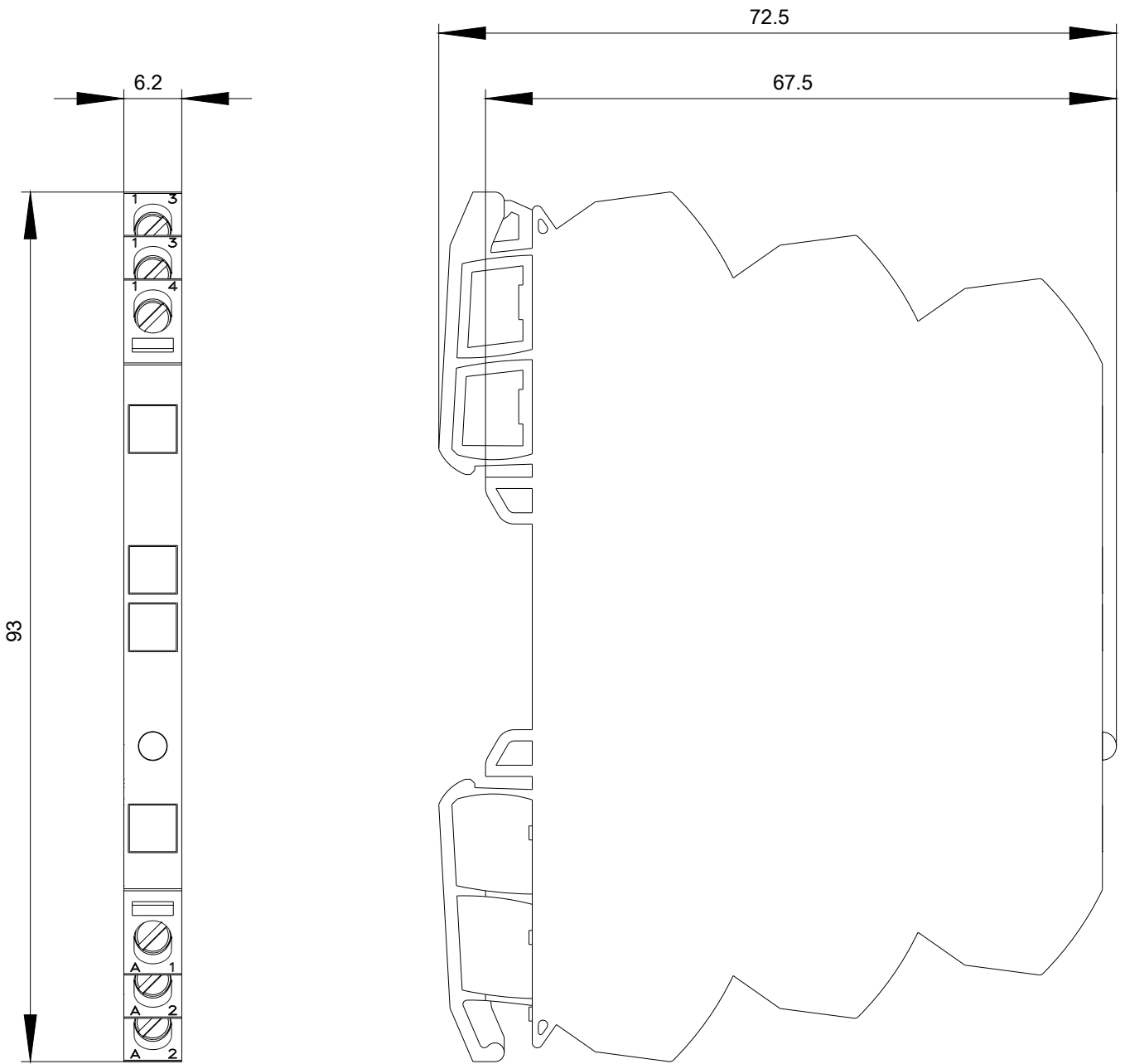
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3070-1SG30>

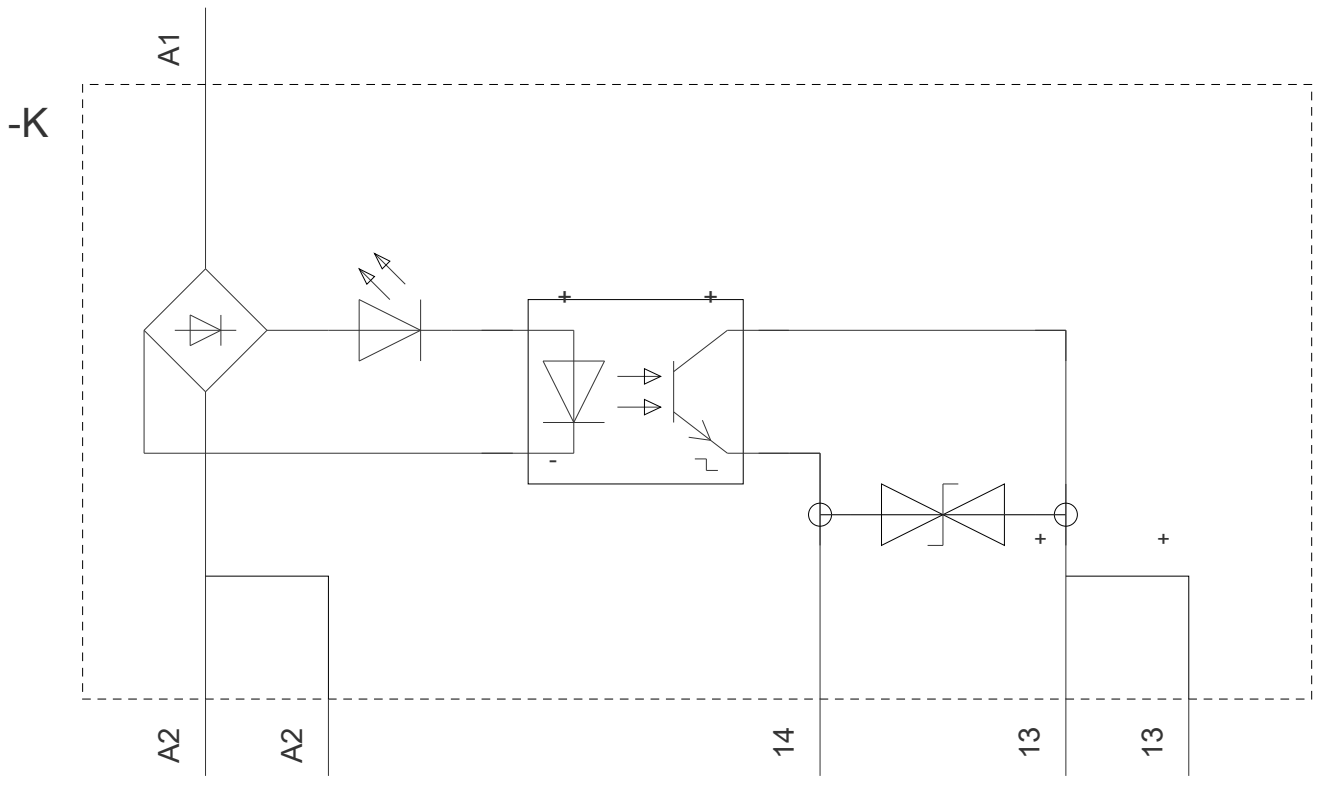
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3070-1SG30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3070-1SG30>





last modified:

07/26/2019