

Input coupler Relay coupler, 1 change-over contact hard gold-plated contacts 24 V AC/DC screw terminal Overall width 6.2 mm 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	Input 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	0.3 W
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
Shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms

Operating frequency maximum	72 000 1/h
Switching behavior	monostable
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	
• at AC-15 at 230 V typical	100 000
Thermal current	6 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	24 V
• at 60 Hz rated value	24 V
Control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
Control supply voltage at DC	
• rated value	24 V
Operating range factor control supply voltage rated value at DC	
• initial value	0.8
• Full-scale value	1.25
Operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
• Full-scale value	1.25
Operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.8
• Full-scale value	1.25
Switch-on delay time	
• at AC maximum	12 ms
• at DC maximum	12 ms
Off-delay time	14 ms
Closing delay	
• at AC	12 ms
• at DC	6 ms
Opening delay	
• at AC	14 ms
• at DC	13 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	AgSnO ₂ -HTV
Number of CO contacts	
for auxiliary contacts	1
Operating current of auxiliary contacts at AC-15	
at 24 V	3 A
at 250 V	3 A
Operating current of auxiliary contacts at DC-13	
at 24 V	1 A
at 125 V	0.2 A
at 250 V	0.1 A
Contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (5 V, 1 mA)
Main circuit	
Type of voltage	AC/DC
Inputs/ Outputs	
Property of the output Short-circuit proof	No
Outputs	
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	1 A
at 125 V	0.2 A
at 250 V	0.1 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	
due to burst acc. to IEC 61000-4-4	2 kV
due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
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		LED green
as status display by LED		
Connections/ Terminals		
Product function		No
removable terminal		
Type of electrical connection		screw-type terminals
for auxiliary and control current circuit		
Wire length		500 m
- at AC maximum - at DC maximum		1 000 m
Type of connectable conductor cross-sections		1x (0.25 ... 2.5 mm ²)
- solid - finely stranded with core end processing - at AWG conductors solid		1x (0.25 ... 1.5 mm ²) 1 x (20 ... 14)
Connectable conductor cross-section		0.25 ... 2.5 mm ²
- solid - finely stranded with core end processing		0.25 ... 1.5 mm ²
AWG number as coded connectable conductor cross section		20 ... 14
solid		
Tightening torque		0.5 ... 0.6 N·m
with screw-type terminals		
Installation/ mounting/ dimensions		
Mounting position		any
Mounting type		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		0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 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
 CCC	 EAC	 EG-Konf.
 CSA	 UL	 RCM

Declaration of Conformity	Marine / Ship-ping	other
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[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=3RQ3038-1AB01>

Cax online generator

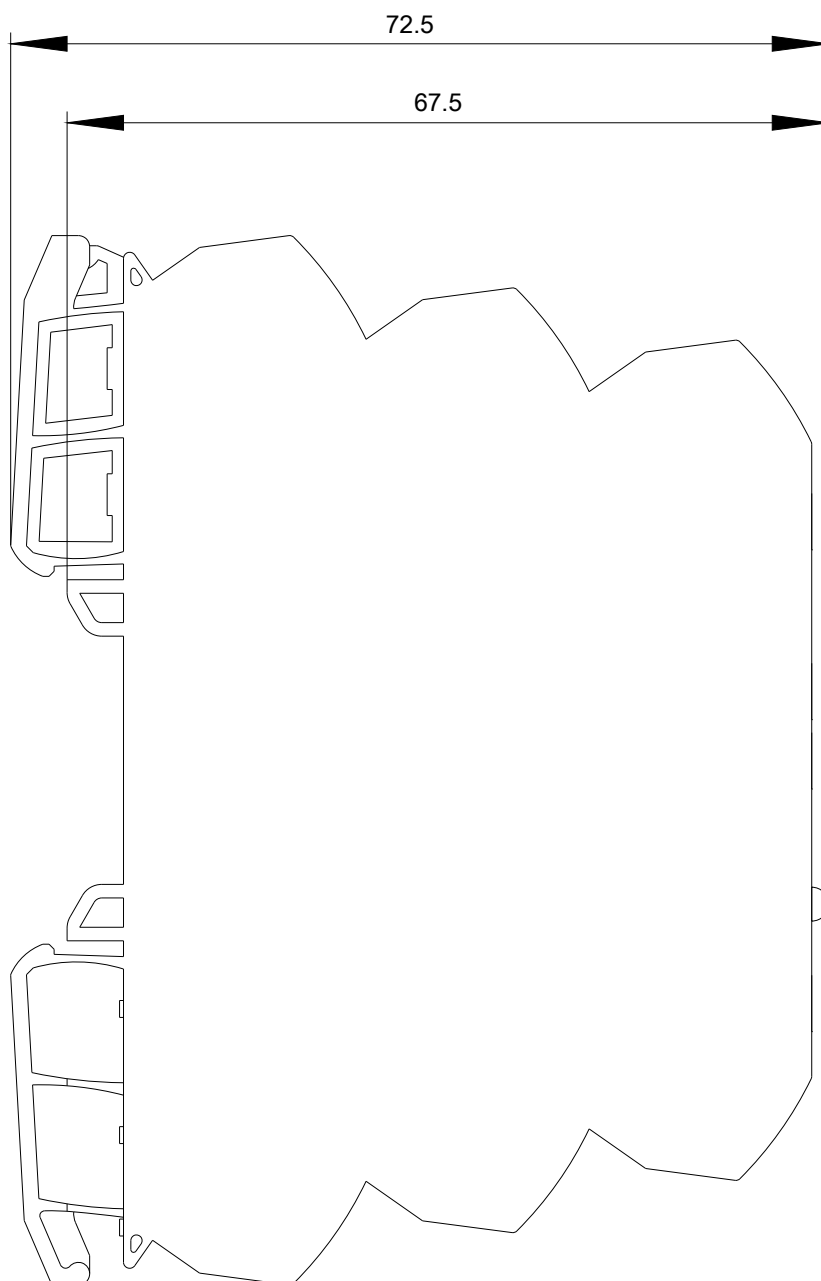
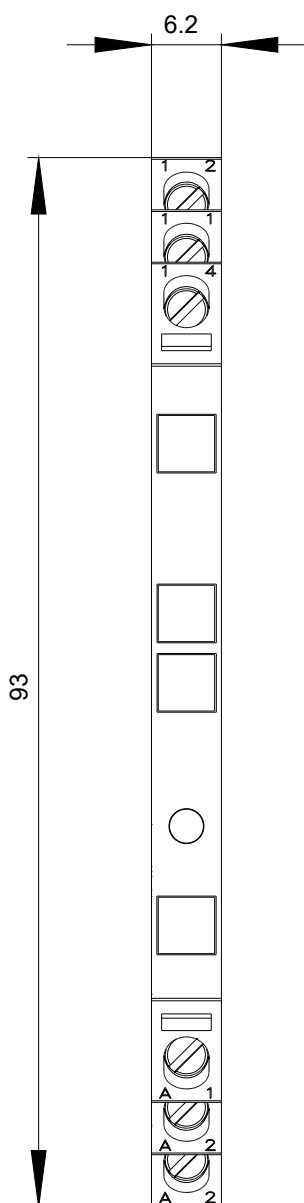
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3038-1AB01>

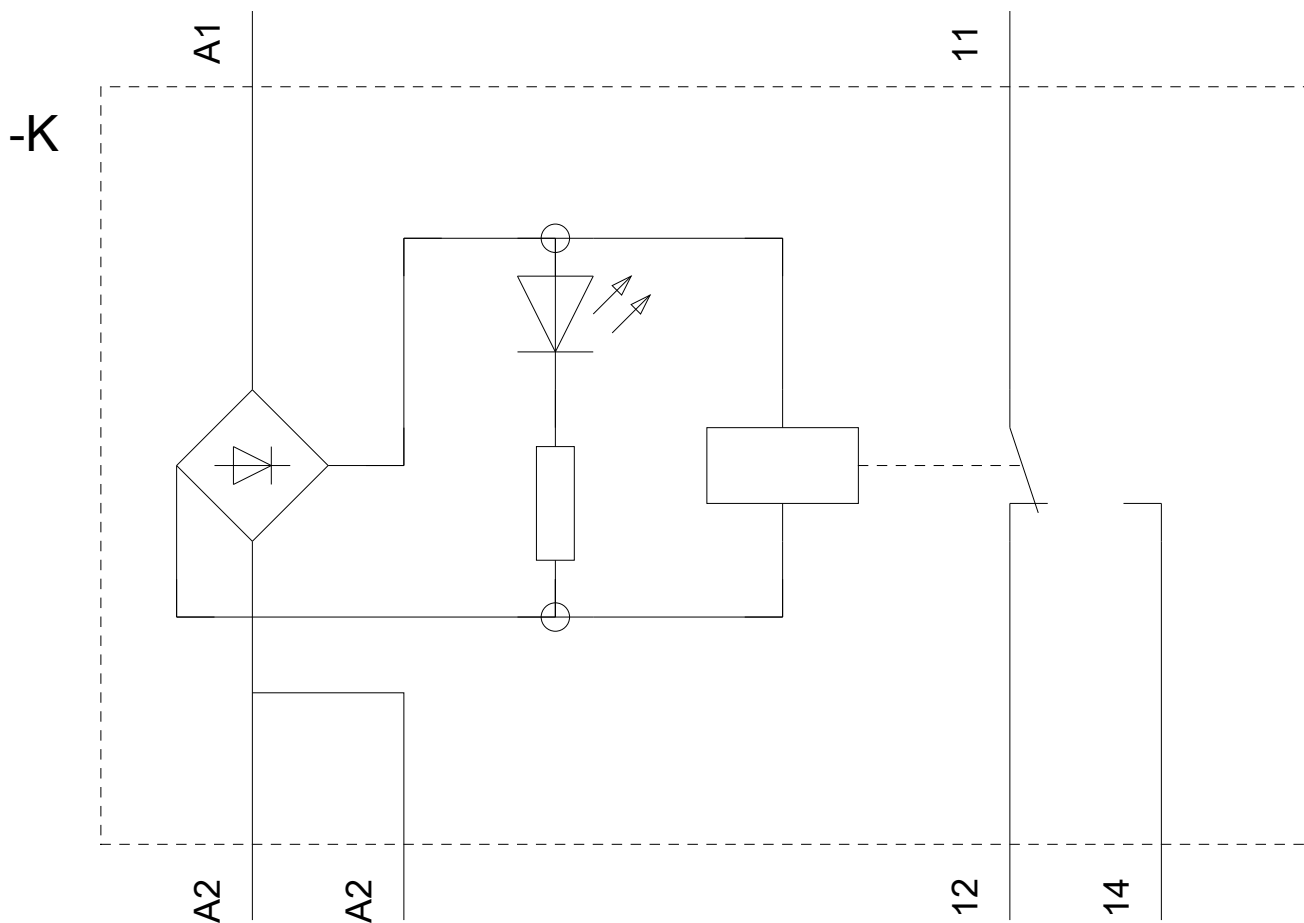
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3038-1AB01>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3038-1AB01&lang=en





last modified:

07/26/2019