

Output coupler Relay coupler, 1 CO contact 230 V AC/DC Overall width 6.2 mm Spring-type terminal (push-in) Thermal current 6 A



Figure similar

Article number		
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		Output coupling links
Product type designation		3RQ3

General technical data		
Display version LED		Yes
Product component		
• Relay output		Yes
• semi-conductor output		No
Consumed active power	W	1
Insulation voltage		
• for overvoltage category III according to IEC 60664		
— with degree of pollution 3 rated value	V	300
Surge voltage resistance rated value	kV	4
maximum permissible voltage for safe isolation		

<ul style="list-style-type: none"> • between control and auxiliary circuit 	V	300
Percental drop-out voltage related to the input voltage	%	10
Protection class IP		IP20
Shock resistance <ul style="list-style-type: none"> • acc. to IEC 60068-2-27 		sinusoidal half-wave 15g / 11 ms
Vibration resistance <ul style="list-style-type: none"> • acc. to IEC 60068-2-6 		6 ... 150 Hz: 2 g
Operating frequency maximum	1/h	72 000
Switching behavior		monostable
Mechanical service life (switching cycles) <ul style="list-style-type: none"> • typical 		10 000 000
Electrical endurance (switching cycles) <ul style="list-style-type: none"> • at AC-15 at 230 V typical 		100 000
Thermal current	A	6
Equipment marking <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 		K K

Control circuit/ Control

Control supply voltage at AC <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value 	V V	230 230
Control supply voltage at DC <ul style="list-style-type: none"> • rated value 	V	230
Operating range factor control supply voltage rated value at DC <ul style="list-style-type: none"> • initial value • Full-scale value 		0.8 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 		0.8 1.1
Operating range factor control supply voltage rated value at AC at 60 Hz <ul style="list-style-type: none"> • initial value • Full-scale value 		0.8 1.1
Off-delay time	ms	19
Closing delay <ul style="list-style-type: none"> • at AC • at DC 	ms ms	12 8
Opening delay <ul style="list-style-type: none"> • at AC 	ms	20

• at DC	ms	18
Design of the relay operating mechanism		poled
Product component Plug-in socket		No

Short-circuit protection

Design of the fuse link		fuse gG: 4 A
• for short-circuit protection of the auxiliary switch required		

Auxiliary circuit

Type of switching contact		Changeover contact
Material of switching contacts		AgSnO2
Number of CO contacts		1
• for auxiliary contacts		
Operating current of auxiliary contacts at AC-15		
• at 24 V	A	3
• at 250 V	A	3
Operating current of auxiliary contacts at DC-13		
• at 24 V	A	1
• at 125 V	A	0.2
• at 250 V	A	0.1
Contact reliability of auxiliary contacts		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)

Main circuit

Type of voltage		AC/DC
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Inputs/ Outputs

Property of the output Short-circuit proof		No
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Outputs

Ampacity of the output relay at AC-15		
• at 250 V at 50/60 Hz	A	3
Ampacity of the output relay at DC-13		
• at 24 V	A	1
• at 125 V	A	0.2
• at 250 V	A	0.1

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

<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 		PUSH-IN connection (spring-loaded connection)
Wire length		
<ul style="list-style-type: none"> • at AC maximum 	m	500
<ul style="list-style-type: none"> • at DC maximum 	m	1 000
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 conductors solid 		1 x (20 ... 14)
<ul style="list-style-type: none"> • at AWG conductors stranded 		1x (20 ... 14)
Connectable conductor cross-section		
<ul style="list-style-type: none"> • solid 	mm ²	0.25 ... 2.5
<ul style="list-style-type: none"> • finely stranded with core end processing 	mm ²	0.25 ... 1.5
<ul style="list-style-type: none"> • finely stranded without core end processing 	mm ²	0.25 ... 2.5
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
Mounting type		snap-on mounting
Height	mm	93
Width	mm	6.2
Depth	mm	72.5
Required spacing		
<ul style="list-style-type: none"> • with side-by-side mounting 		
<ul style="list-style-type: none"> — forwards 	mm	0
<ul style="list-style-type: none"> — Backwards 	mm	0

— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	0
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0

Ambient conditions

Installation altitude at height above sea level		
• maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
Relative humidity		
• during operation	%	10 ... 95

Certificates/approvals

General Product Approval	Declaration of Conformity	other
 CCC		 EG-Konf.
 CSA		Confirmation
 UL		

Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3018-2AF00>

Cax online generator

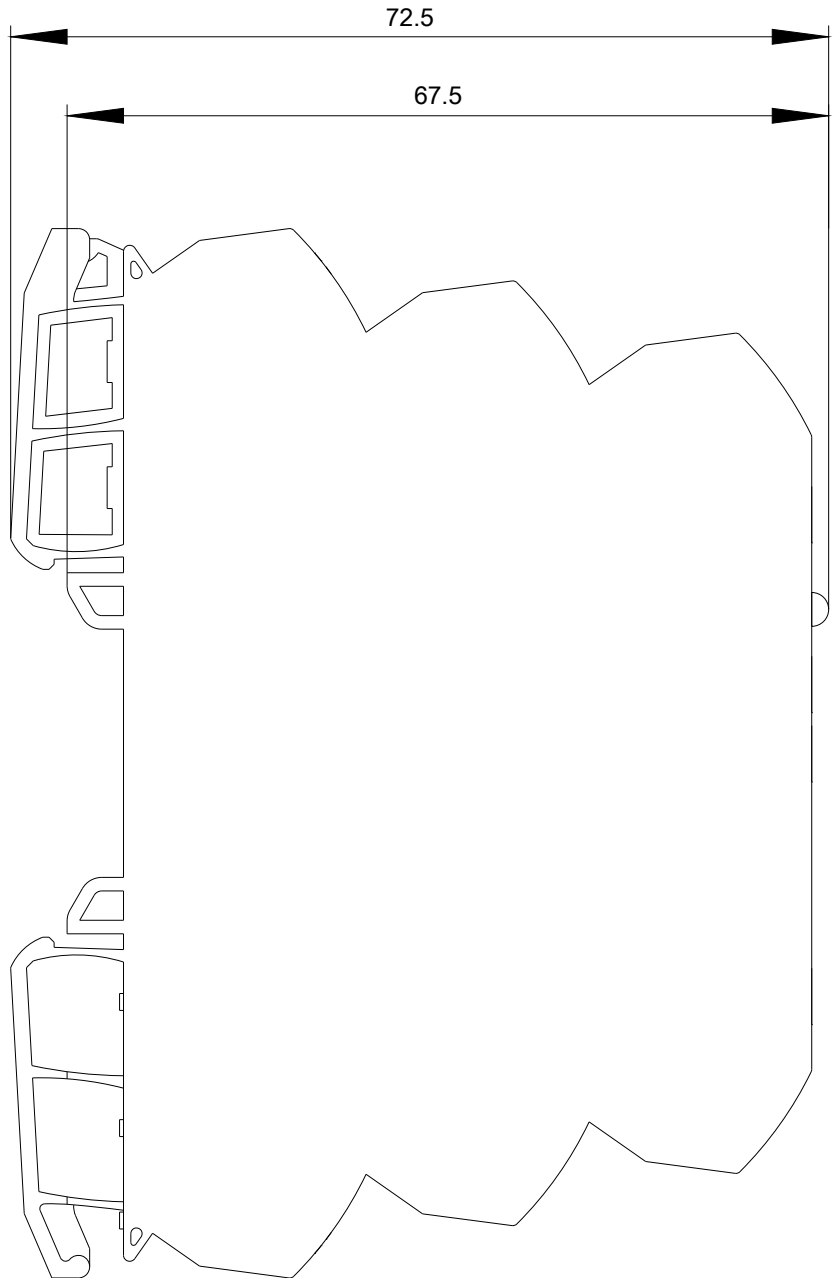
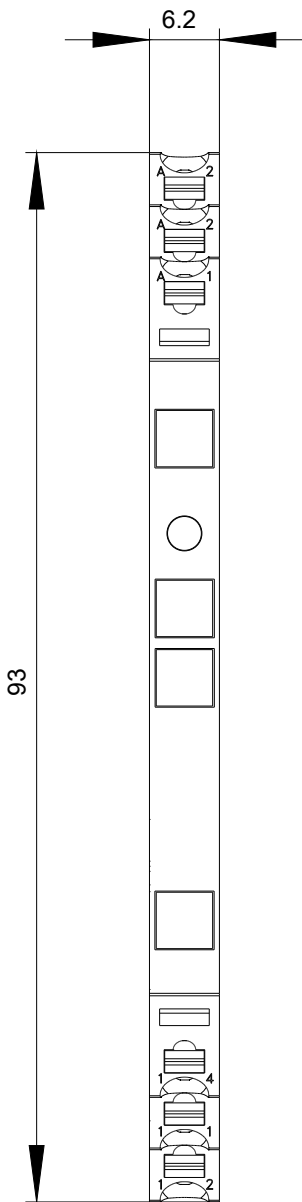
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3018-2AF00>

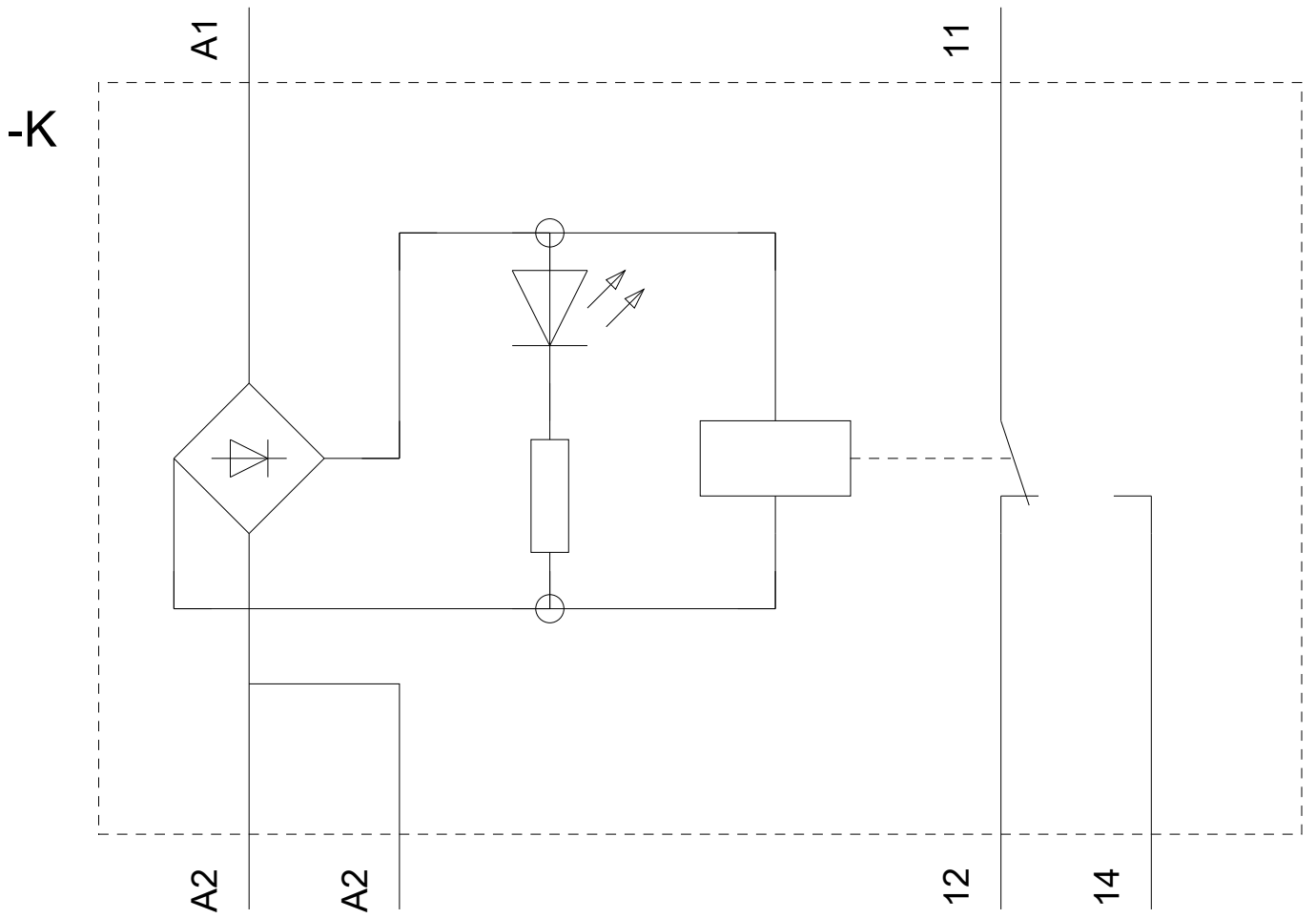
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3018-2AF00>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3018-2AF00&lang=en





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