

Output coupler with plug-in Relay, 1 change-over contact Spring-type terminal (push-in) 24 V AC/DC Enclosure 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 plug-in relay
Design of the product	Output 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
Insulation voltage	
• for overvoltage category III according to IEC 60664	
— with degree of pollution 3 rated value	300 V
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
Vibration resistance • acc. to IEC 60068-2-6	6 ... 150 Hz: 2 g
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

Control circuit/ Control

Control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	24 V 24 V
Control supply voltage frequency • 1 rated value • 2 rated value	50 Hz 60 Hz
Control supply voltage at DC • rated value	24 V
Operating range factor control supply voltage rated value at DC • initial value • Full-scale value	0.8 1.25
Operating range factor control supply voltage rated value at AC at 50 Hz • initial value • Full-scale value	0.8 1.25
Operating range factor control supply voltage rated value at AC at 60 Hz • initial value • Full-scale value	0.8 1.25
Switch-on delay time • at AC maximum • at DC maximum	12 ms 12 ms
Off-delay time	14 ms
Design of the relay operating mechanism	poled
Product component Plug-in socket	Yes

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
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 (17 V, 5 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		spring-loaded terminals (push-in)
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 - finely stranded without core end processing - at AWG conductors solid - at AWG conductors stranded		1x (0.25 ... 1.5 mm ²)
		1x (0.25 ... 2.5 mm ²)
		1 x (20 ... 14)
		1x (20 ... 14)
Connectable conductor cross-section		0.25 ... 2.5 mm ²
- solid - finely stranded with core end processing - finely stranded without core end processing		0.25 ... 1.5 mm ²
		0.25 ... 2.5 mm ²
AWG number as coded connectable conductor cross section		20 ... 14
- solid - stranded		20 ... 14
Installation/ mounting/ dimensions		
Mounting position		any
Mounting type		snap-on mounting
Height		93 mm
Width		6.2 mm
Depth		76 mm
Required spacing		
- with side-by-side mounting - forwards - Backwards - upwards - downwards - at the side - for grounded parts - forwards		0 mm
		0 mm
		0 mm
		0 mm
		0 mm
		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	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,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3118-2AB00>

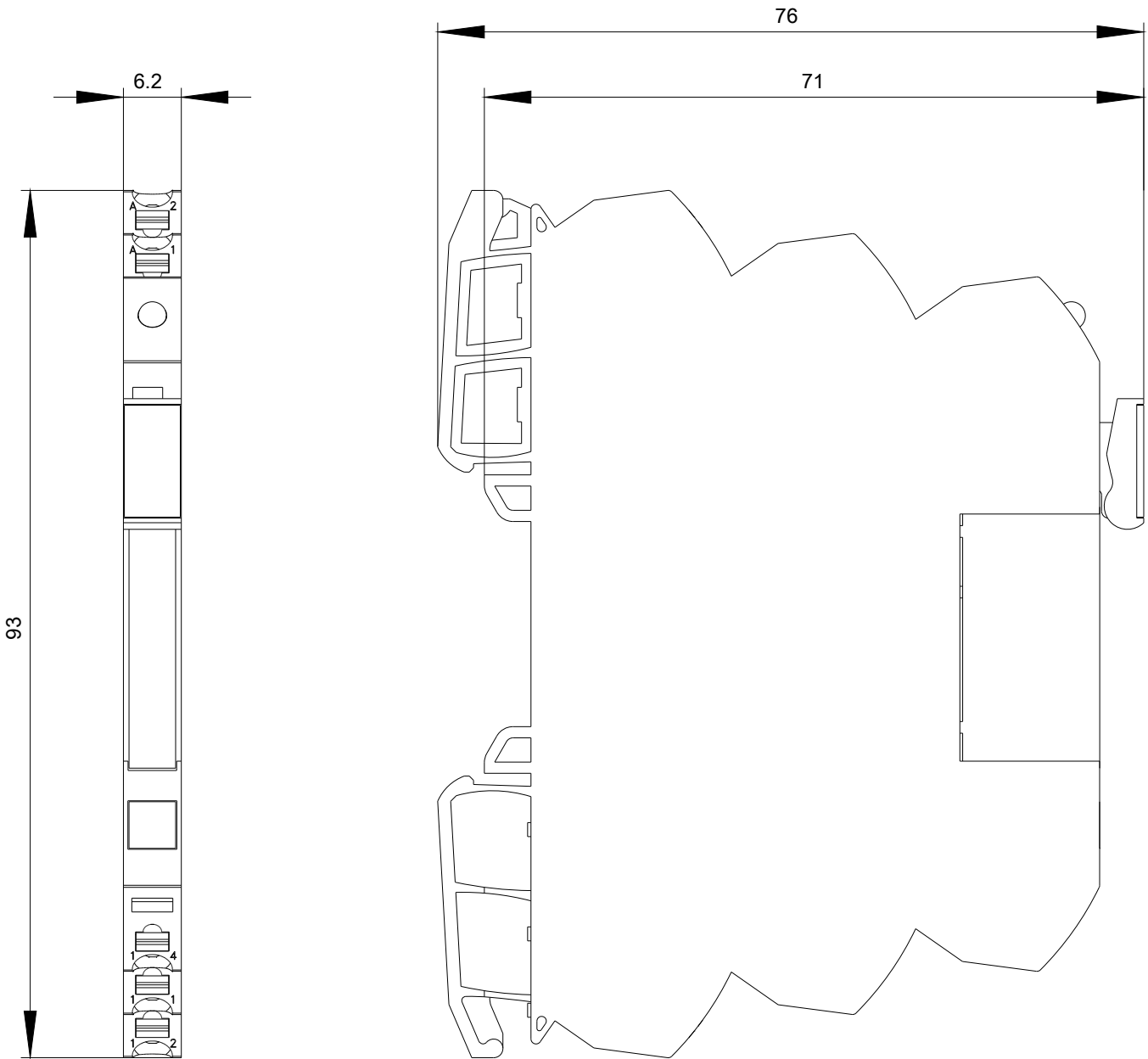
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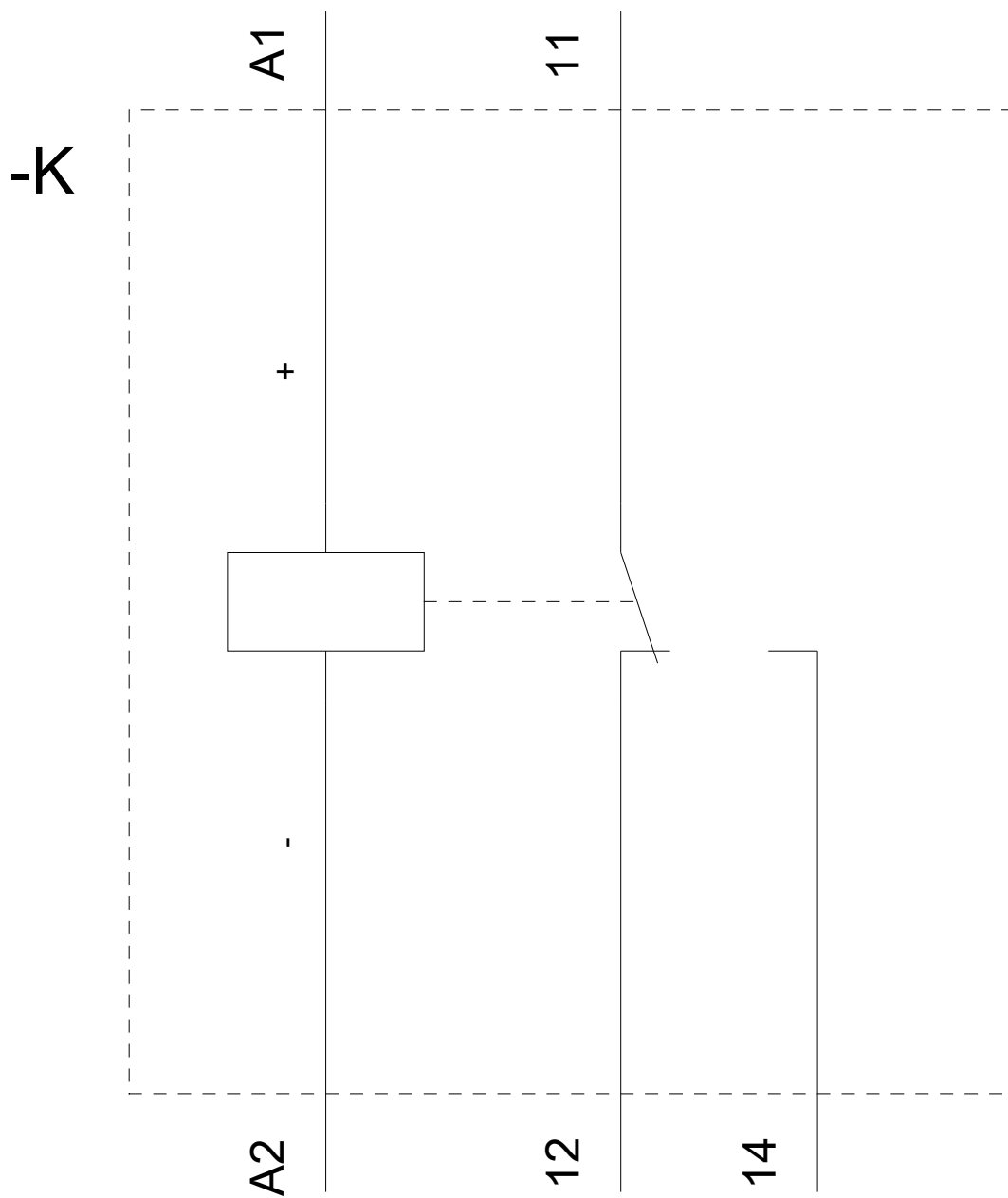
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3118-2AB00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AB00>

Characteristic: Derating
<https://support.industry.siemens.com/cs/ww/en/ps/3RQ3118-2AB00/manual>





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