

SIRIUS SAFETY RELAY OUTPUT EXTENSION 3RO POWER,
WITH RELAY ENABLING CIRCUITS 3 NO CONTACTS + RELAY
FEEDBACK CIRCUIT 1 NC CONTACT US = 115 V AC SCREW
CONNECTION



Figure similar

General technical data:

product brand name	SIRIUS
Product designation	safety relays
Design of the product	Expansion unit
Protection class IP of the enclosure	IP20
Protection against electrical shock	finger-safe
Insulation voltage Rated value	300 V
Ambient temperature	
• during storage	-40 ... +80 °C
• during operation	-25 ... +60 °C
Air pressure acc. to SN 31205	90 ... 106 kPa
Relative humidity during operation	10 ... 95 %
Installation altitude at height above sea level	2 000 m
maximum	
Vibration resistance acc. to IEC 60068-2-6	5 ... 500 Hz: 0,75 mm
Shock resistance	5 g / 10 ms
Surge voltage resistance Rated value	4 000 V
EMC emitted interference	IEC 60947-5-1, IEC 61000

Installation environment regarding EMC	This product is suitable for Class B environments and can also be used in domestic environments.
Overvoltage category	Installation category III
Degree of pollution	3
Equipment marking acc. to DIN EN 61346-2	F
Safety Integrity Level (SIL) acc. to IEC 61508	SIL3
Performance level (PL) acc. to EN ISO 13849-1	e
Category acc. to EN ISO 13849-1	4
PFHD with high demand rate acc. to EN 62061	0.000000001 1/h
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	0.000001 1/y
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Hardware fault tolerance acc. to IEC 61508	1
Safety device type acc. to IEC 61508-2	Type A
Number of outputs as contact-affected switching element	
• as NC contact	
— for signaling function instantaneous contact	0
— for signaling function delayed switching	0
— safety-related instantaneous contact	0
— safety-related delayed switching	0
• as NO contact	
— for signaling function instantaneous contact	0
— for signaling function delayed switching	0
— safety-related instantaneous contact	3
— safety-related delayed switching	0
Stop category acc. to DIN EN 60204-1	0

General technical data:

Type of electrical connection	Plug-in socket	No
Operating frequency maximum		360 1/h
Switching capacity current of the NO contacts of the relay outputs		
• at DC-13		
— at 24 V	6 A	
— at 115 V	1.1 A	
— at 230 V	0.55 A	
• at AC-15		
— at 24 V	10 A	
— at 115 V	10 A	
— at 230 V	10 A	

Thermal current of the switching element with contacts maximum	10 A
Operating current at 17 V minimum	5 mA
Mechanical service life (switching cycles) typical	10 000 000
maximum permissible voltage for safe isolation between electronic evaluation device and enabling circuit acc. to EN 60947-1	300 V
Design of the fuse link for short-circuit protection of the NO contacts of the relay outputs required	gL/gG: 16 A or MCB type A: 6 A or MCB type B: 4 A or MCB type C: 4 A
Make time with automatic start	
• typical	10 ms
• at AC maximum	15 ms
Make time with automatic start after power failure	
• typical	10 ms
• maximum	15 ms
Backslide delay time in the event of power failure	
• typical	15 ms
• maximum	15 ms
Recovery time after power failure typical	0 s

Control circuit/ Control:	
Type of voltage of the control supply voltage	AC
Control supply voltage frequency	
• 1 Rated value	50 Hz
• 2 Rated value	60 Hz
Control supply voltage	
• at AC	
— at 50 Hz	
— Rated value	115 V
— at 60 Hz	
— Rated value	115 V
Operating range factor control supply voltage rated value of the magnet coil	
• at AC	
— at 50 Hz	0.85 ... 1.1
— at 60 Hz	0.85 ... 1.1
Active power loss typical	4 W

Installation/ mounting/ dimensions:	
mounting position	on horizontal standard mounting rail
Required spacing for grounded parts at the side	5 mm
Required spacing with side-by-side mounting at the side	0 mm
Mounting type	screw and snap-on mounting
Width	90 mm

Height	100 mm
Depth	121.6 mm

Connections/ Terminals:

Type of electrical connection	screw-type terminals
Type of connectable conductor cross-section	
• solid	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
• finely stranded	
— with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
Type of connectable conductor cross-section for AWG conductors	
• solid	1x (20 ... 12), 2x (20 ... 14)

Product Function:

Suitability for operation Device connector 3ZY12	No
Suitability for use	
• safety-related circuits	Yes

Certificates/ approvals:

Certificate of suitability	
• TÜV (German technical inspectorate) certificate	Yes
• UL approval	Yes
General Product Approval	EMC
	Functional Safety/Safety of Machinery
	Declaration of Conformity



CCC



CSA



UL



C-TICK

Baumusterbescheinigung



EG-Konf.

Test Certificates	other
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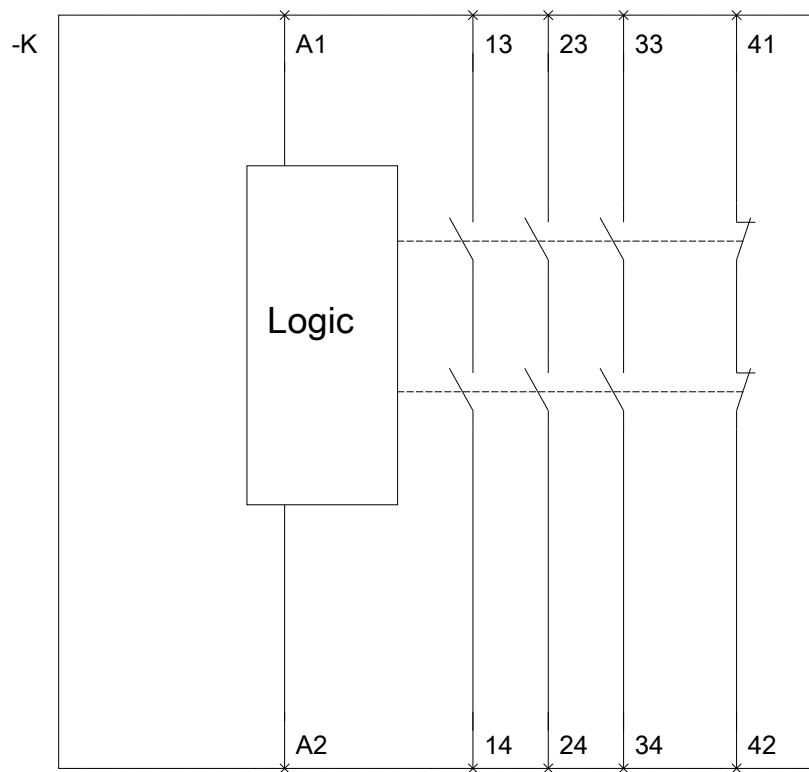
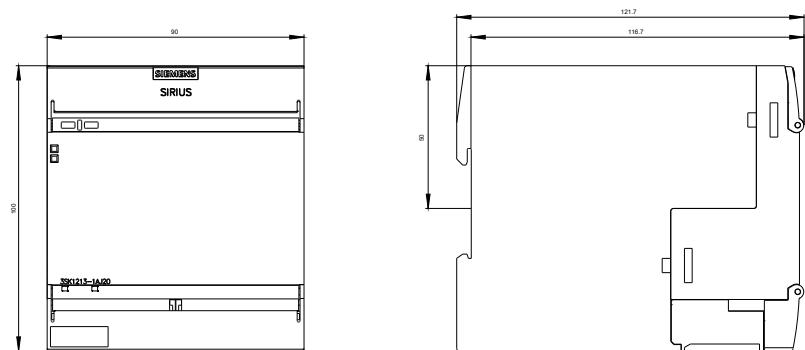
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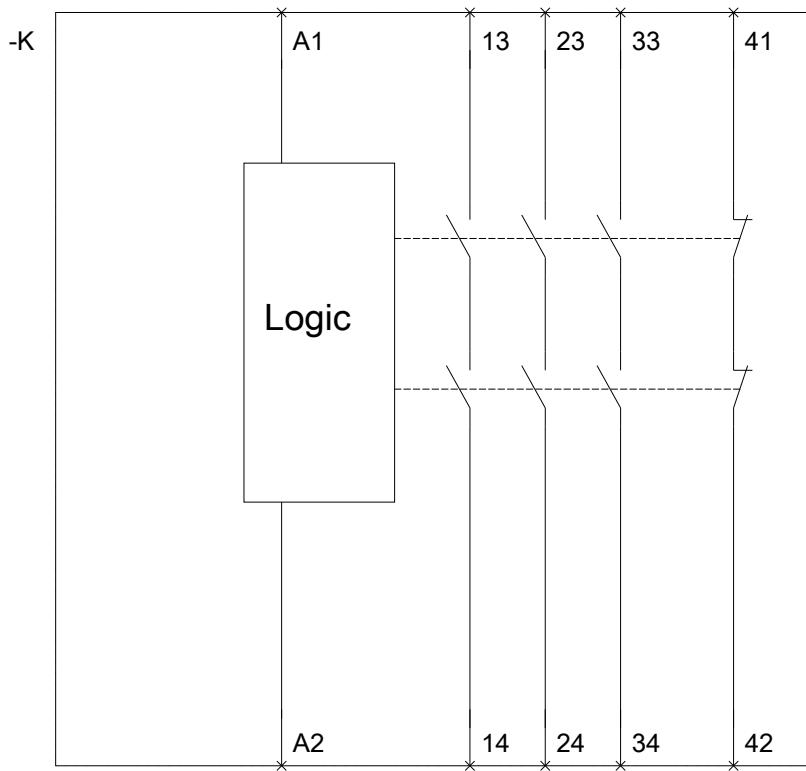
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