SIEMENS

Data sheet 3SK1121-1AB40



SIRIUS SAFETY RELAY BASIC UNIT ADVANCED SERIES RELAY ENABLING CIRCUITS 3 NO CONTACTS + RELAY SIGNALING CIRCUIT 1 NC CONTACT US = 24 V DC SCREW TERMINAL

Figure similar

nundrunt bunnel manna	CIDILIC
product brand name	SIRIUS
Product designation	safety relays
Design of the product	For autonomous safety applications
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	10g / 11 ms
Surge voltage resistance Rated value	4 000 V
EMC emitted interference	IEC 60947-5-1, Class A
Installation environment regarding EMC	This product is suitable for Class A environments only. It can
	cause undesired radio-frequency interference in residential
	environments. If this is the case, the user must take appropriate
	measures.
Overvoltage category	Installation category III
Degree of pollution	3
Number of sensor inputs 1-channel or 2-channel	1
Design of the cascading	yes

Type of the safety-related wiring of the inputs	single-channel and two-channel
Product property cross-circuit-proof	Yes
Safety Integrity Level (SIL)	
• acc. to IEC 61508	SIL3
Performance level (PL)	
• acc. to EN ISO 13849-1	е
Category acc. to EN ISO 13849-1	4
Safe failure fraction (SFF)	99 %
PFHD with high demand rate acc. to EN 62061	0.000000025 1/h
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	0.000007 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	Туре В
Number of outputs as contact-affected switching element	
• as NC contact	
 for signaling function instantaneous 	1
contact	
 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
Number of outputs as contact-less semiconductor	
switching element	
• safety-related	
delayed switching	0
— instantaneous contact	0
 for signaling function instantaneous contact 	0
Stop category acc. to DIN EN 60204-1	0
General technical data:	
Design of input	
 cascading input/functional switching 	Yes

General technical data:	
Design of input	
 cascading input/functional switching 	Yes
• feedback input	Yes
Start input	Yes
Type of electrical connection Plug-in socket	No
Operating frequency maximum	360 1/h
Switching capacity current	

- at DC-13 - at 24 V	 of the NO contacts of the relay outputs 	
- at 115 V	— at DC-13	
- at 230 V - at AC-15 - at 115 V - at 230 V • of the NC contacts of the relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V • of the NC contacts of the relay outputs - at 115 V - at 230 V - at AC-16 - at 115 V - at 230 V - at 230 V - at 230 V - at 230 V - at 230 V - at 230 V - the MC contacts of the relay outputs - at 115 V - at 230 V - the MC contacts of the switching element with contacts maximum Operating current at 17 V minimum Mechanical service life (switching cycles) typical Design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required Design of the fuse link for short circuit protection of the NC contacts of the relay outputs required Design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required Ac or circuit breaker type A: 3A or circuit breaker type B: 2A or MCB type C: 1A Design of the fuse link for short circuit protection of the NC contacts of the relay outputs required Ac or circuit breaker type C: 1A Design of the fuse link for short circuit protection of the NC contacts of the relay outputs required Ac or circuit breaker type C: 1A Diazed or Neozed fuses, operating class gL/gG: 6 A or MCB type B: 2 A or MCB type C: 1 A Diazed or Neozed fuses, operating class gL/gG: 6 A or MCB type C: 1 A 4 000 m Make time with automatic start • for DC maximum Make time with automatic start after power failure • typical • maximum Make time with automatic start • maximum 110 ms Make time with automatic start • maximum 110 ms Make time after opening of the safety circuits typical • maximum 8 acksalide delay time after opening of the safety circuits typical • maximum 8 on maximum 10 ms Make time after opening of the safety circuits typical • maximum 110 ms	— at 24 V	5 A
- at AC-15 - at 115 V - at 220 V • of the NC contacts of the relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at 115 V - at 230 V - at 15 S - at 115 V - at 230 V 1.5 A Thermal current of the switching element with contacts maximum Operating current at 17 V minimum 5 mA Mechanical service life (switching cycles) typical Design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required 2 A or circuit breaker type A: 3A or circuit breaker type B: 2 A or MCB type C: 1 A Diazed or Neozed fuses, operating class gL/gG: 6 A or MCB type the NC contacts of the relay outputs required A: 2 A or MCB type B: 2 A or MCB type C: 1 A Diazed or Neozed fuses, operating class gL/gG: 6 A or MCB type the NC contacts of the relay outputs required A: 2 A or MCB type B: 2 A or MCB type C: 1 A Diazed or Neozed fuses, operating class gL/gG: 6 A or MCB type the NC contact with automatic start A or MCB type B: 2 A or MCB type C: 1 A 4 000 m Make time with automatic start after power failure A or include with automatic start after power failure A or include with automatic start after power failure A or include with automatic start A or maximum Make time with automatic start A or maximum Make time with automatic start A or maximum 110 ms Backslide delay time after opening of the safety circuits typical A or maximum Recovery time after opening of the safety circuits typical A or size of the NC or the NC	— at 115 V	0.2 A
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● maximum 50 ms Recovery time after opening of the safety circuits typical 30 ms Recovery time after power failure typical 6.5 s		30 ms
Recovery time after opening of the safety circuits typical Recovery time after power failure typical 6.5 s		
typical Recovery time after power failure typical 6.5 s		
Pulse duration	Recovery time after power failure typical	6.5 s
	Pulse duration	

• of the sensor input minimum	75 ms
• of the ON pushbutton input minimum	0.15 s

Control circuit/ Control:	
Type of voltage of the control supply voltage	DC
Control supply voltage	
• for DC	
— Rated value	24 V
Operating range factor control supply voltage rated	
value of the magnet coil	
• for DC	0.8 1.2
Active power loss typical	2 W

Installation/ mounting/ dimensions:	
mounting position	any
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	22.5 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 2.5 mm²), 2x (1.0 1.5 mm²)
 finely stranded 	
— with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)
Type of connectable conductor cross-section for	
AWG conductors	
• solid	1x (20 14), 2x (18 16)
• stranded	1x (20 16), 2x (20 16)

Product Function:	
Product function parameterizable	Sensor floating / sensor non-floating, monitored start / autostart, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches
Suitability for operation Device connector 3ZY12	Yes
Suitability for interaction press control	Yes
Suitability for use	
safety switch	Yes
 Monitoring of floating sensors 	Yes
 Monitoring of non-floating sensors 	Yes
 magnetically operated switch monitoring 	Yes
safety-related circuits	Yes

Certificates/ approvals:

General Product Approval EMC Functional Declaration of Safety/Safety Conformity of Machinery









Type Examination



Test	other
Certificates	

Type Test
Certificates/Test
Report

Confirmation

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

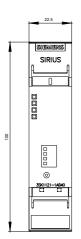
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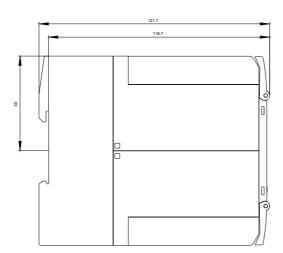
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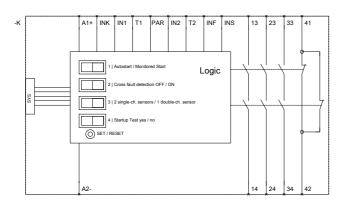
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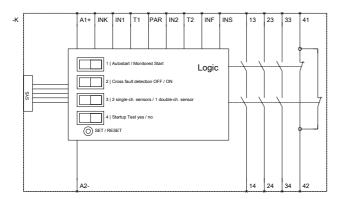
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK11211AB40&lang=en









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