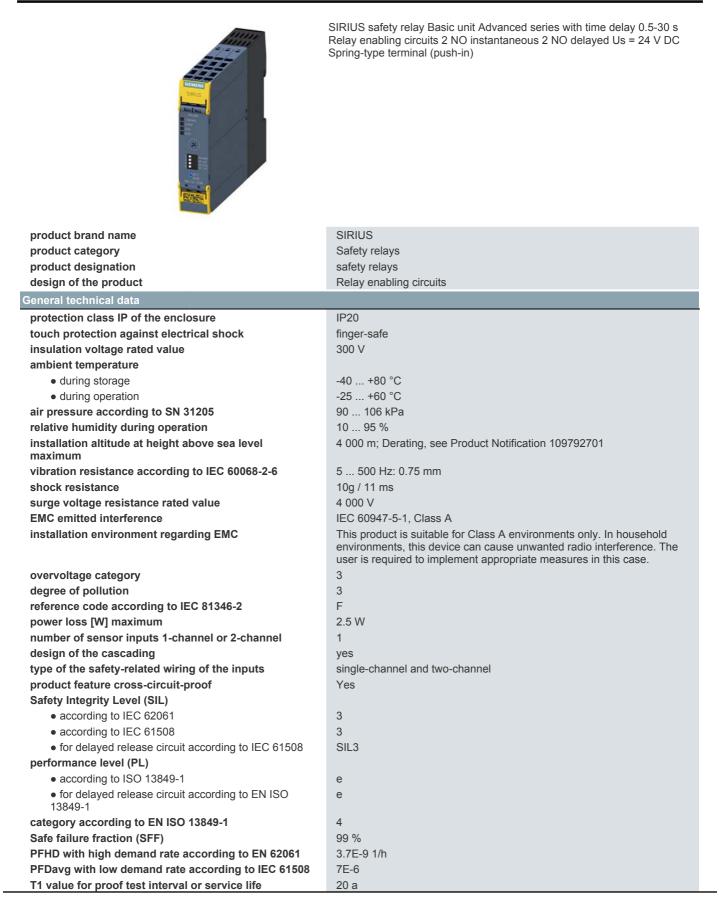
SIEMENS

Data sheet

3SK1121-2CB42



according to IEC 61508	
hardware fault tolerance according to IEC 61508	1
safety device type according to IEC 61508-2	Туре В
Inputs/ Outputs	71 ·
number of outputs as contact-affected switching element	
as NO contact	
 — safety-related instantaneous contact 	2
 — safety-related delayed switching 	2
stop category according to EN 60204-1	0 / 1
design of input	
 cascading input/functional switching 	Yes
 feedback input start input 	Yes
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	3 A
— at 115 V	0.2 A
— at 230 V	0.1 A
— at AC-15	
— at 115 V	3 A
— at 230 V	3 A
thermal current of the switching element with contacts maximum	5 A
total current maximum	12 A
operational current at 17 V minimum	5 mA
mechanical service life (operating cycles) typical design of the fuse link for short-circuit protection of	10 000 000
the NO contacts of the relay outputs required	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or circuit breaker type C: 1A
wire length	
 with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum make time with automatic start 	4 000 m
at DC maximum	110 ms
make time with automatic start after power failure	
• typical	6 500 ms
• maximum	6 500 ms
make time with monitored start	
• maximum	110 ms
backslide delay time after opening of the safety circuits typical	40 ms
backslide delay time in the event of power failure	
• typical	30 ms
 maximum adjustable OFF-delay time after opening of the safety 	40 ms 0.5 30
circuits recovery time after opening of the safety circuits typical	30 ms
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	
• at DC	
— rated value	24 V
operating range factor control supply voltage rated value of magnet coil	
• at DC	0.8 1.2
Installation/ mounting/ dimensions	
mounting position	any

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required spacing for grounded parts at the side fastening method width height depth	screv 22.5 100 n	5 mm screw and snap-on mounting 22.5 mm 100 mm 121.6 mm			
Connections/ Terminals					
type of electrical connection	spring	g-loaded terminal (pusl	h-in)		
type of connectable conductor cross-sections					
• solid	1x (0	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)			
 finely stranded 					
— with core end processing	1x (0	1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)			
— without core end processing	1x (0	1x (0.5 1.5 mm ²), 2x (0.5 1.5 mm ²)			
type of connectable conductor cross-sections at AWG cables					
• solid	1x (2	1x (20 16), 2x (20 16)			
stranded	1x (2	1x (20 16), 2x (20 16)			
Product Function					
product function parameterizable	senso	or floating / sensor non	-floating, monitored start-	un / automatic	
			sensor connection, cross		
	startu	tartup testing, antivalent sensors, 2-hand switches, time delay			
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	
Constant Todade Approval				LING	
	<u>ition</u>	(U) U	EHC	RCM	
Functional Safety/Safety of Declaration of Conformity Machinery		Test Certificates	Marine / Shipping		
Type Examination Certificate UK CA EG-Kont	r.	<u>Type Test Certific-</u> ates/Test Report		Lloyds Register uis	
Marine / Shipping other		Railway			
RINA Confirma	<u>tion</u>	<u>Confirmation</u>			
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business					
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875					

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https://www.siemens.com/ic10

Industry Mall (Online ordering system)

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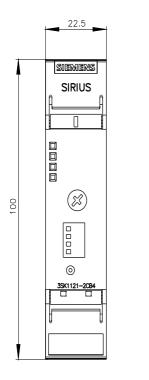
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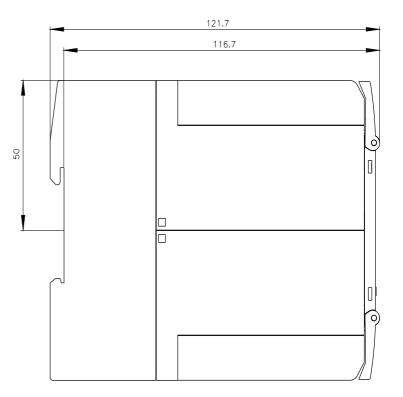
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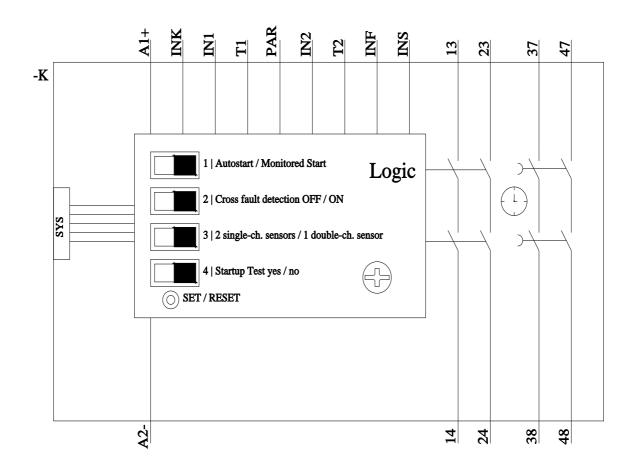
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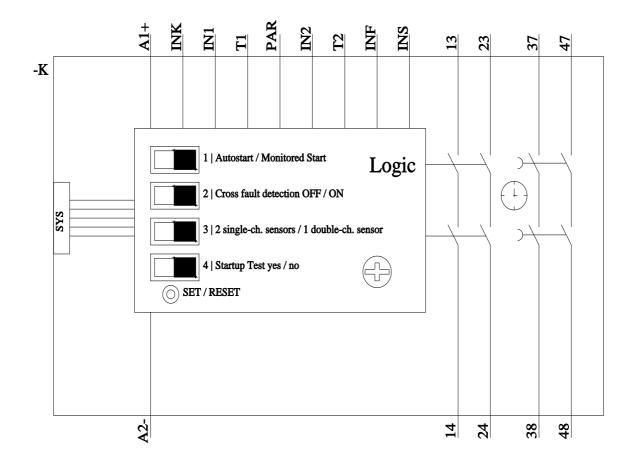
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1121-2CB42&lang=en









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