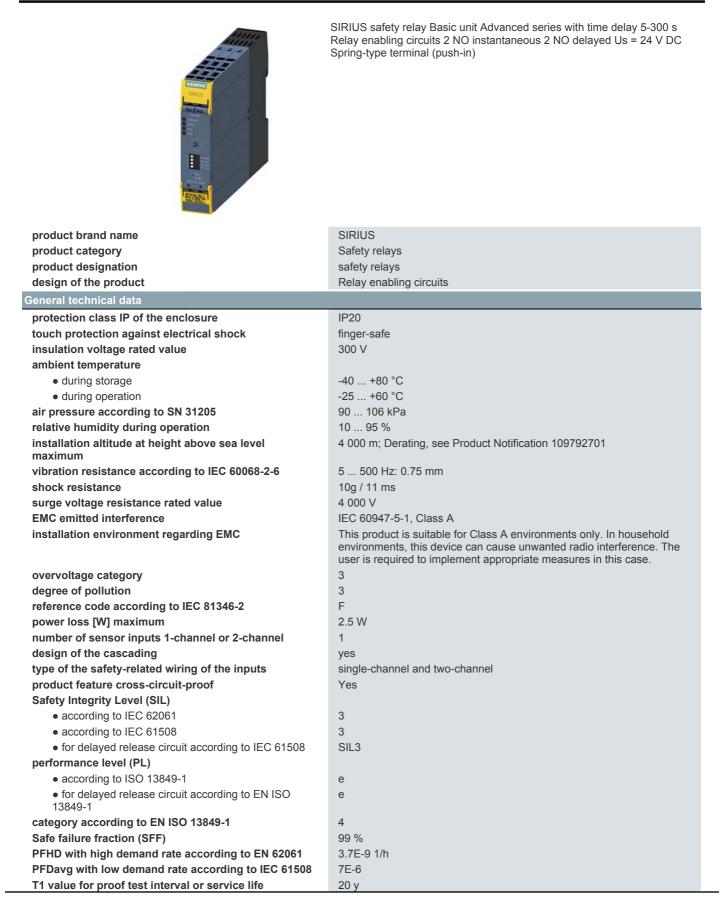
SIEMENS

Data sheet

3SK1121-2CB44



according to IEC 61508	
hardware fault tolerance according to IEC 61508	1
safety device type according to IEC 61508-2	Туре В
Inputs/ Outputs	
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 feedback input 	Yes
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 the NO contacts of the relay outputs required wire length	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or circuit breaker type C: 1A
 with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum 	4 000 m
 make time with automatic start 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 5 300
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

required spacing for fastening method width height depth	r grounded parts at the	e side	22.5 100 r	v and snap-on mounti mm	ng	
Connections/ Termina	als					
type of electrical connection		spring-loaded terminal (push-in)				
type of connectable	type of connectable conductor cross-sections					
• solid		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)				
 finely stranded 	stranded					
- with core e	end processing		1x (0	1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)		
- without co	re end processing		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)			
type of connectable conductor cross-sections at AWG cables						
 solid 			1x (2	0 16), 2x (20 16)		
 stranded 			1x (2	0 16), 2x (20 16)		
Product Function						
product function parameterizable		sensor floating / sensor non-floating, monitored start-up / automatic start, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches, time delay				
suitability for operation	suitability for operation device connector 3ZY12		Yes			
suitability for intera	suitability for interaction press control		Yes			
suitability for use						
 safety switch 			Yes			
 monitoring of fle 	oating sensors		Yes			
-	 monitoring of non-floating sensors 		Yes			
	 magnetically operated switch monitoring 		Yes			
 safety-related of 	circuits		Yes			
Certificates/ approval	ls					
General Product Ap	oproval				EMC	Functional Safety/Safety of Machinery
		<u>Confirmatio</u>	<u>n</u>	EHC	RCM	Type Examination Certificate
Declaration of Conformity	Test Certificates	Marine / Ship	ping	other		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Llovd's Register urs		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=3SK1121-2CB44

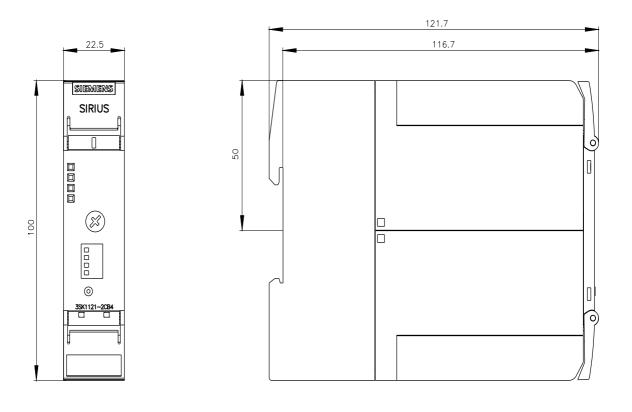
Cax online generator

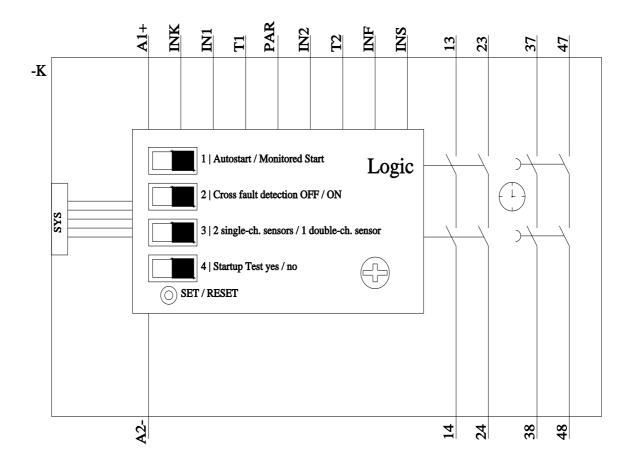
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1121-2CB44

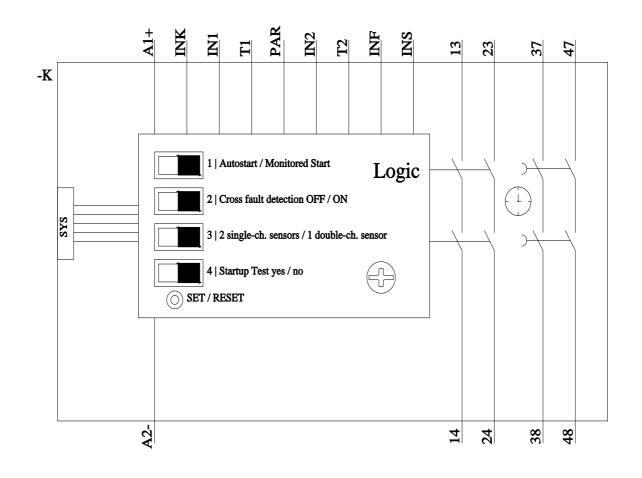
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SK1121-2CB44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1121-2CB44&lang=en







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