SIEMENS

Data sheet

3SK1121-2CB42



SIRIUS safety relay Basic unit Advanced series with time delay 0.5-30 s Relay enabling circuits 2 NO instantaneous 2 NO delayed Us = 24 V DC Spring-type terminal (push-in)

product brand name	SIRIUS	
product category	Safety relays	
product designation	safety relays	
design of the product	Relay enabling circuits	
product type designation	3SK1	
product line	Advanced basic unit	
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	
product function		
automatic start	Yes	
 light barrier monitoring 	Yes	
 protective door monitoring 	Yes	
 magnetically operated switch monitoring NC-NO 	Yes	
 magnetically operated switch monitoring NC-NC 	Yes	
 laser scanner monitoring 	Yes	
 light array monitoring 	Yes	
 EMERGENCY OFF function 	Yes	
 monitored start-up 	Yes	
 pressure-sensitive mat monitoring 	No	
suitability for interaction press control	Yes	
suitability for use		
 monitoring of floating sensors 	Yes	
 monitoring of non-floating sensors 	Yes	
 position switch monitoring 	Yes	
 EMERGENCY-OFF circuit monitoring 	Yes	
 opto-electronic protection device monitoring 	Yes	
 magnetically operated switch monitoring 	Yes	
 safety switch 	Yes	
 safety-related circuits 	Yes	
General technical data		
certificate of suitability UL approval	Yes	
product feature cross-circuit-proof	Yes	
power loss [W] maximum	2.5 W	
insulation voltage rated value	300 V	
degree of pollution	3	
overvoltage category	3	
surge voltage resistance rated value	4 000 V	
protection class IP of the enclosure	IP20	
shock resistance	10g / 11 ms	

operating frequency maximum	360 1/h
mechanical service life (operating cycles) typical	10 000 000
thermal current of the switching element with contacts maximum	5 A
recovery time after opening of the safety circuits typical	30 ms
make time with automatic start	
• at DC maximum	110 ms
after power failure typical	6 500 ms
after power failure maximum	6 500 ms
make time with monitored start	440
• 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	40 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	11/05/2012
SVHC substance name	Lead - 7439-92-1
	Lead monoxide (lead oxide) - 1317-36-8
	Lead titanium zirconium oxide - 12626-81-2
	4,4'-isopropylidenediphenol (Bisphenol A, BPA) - 80-05-7
Ambient conditions	
installation altitude at height above sea level maximum	4 000 m; Derating, see Product Notification 109792701
ambient temperature	
 during operation 	-25 +60 °C
during storage	-40 +80 °C
relative humidity during operation	10 95 %
air pressure according to SN 31205	90 106 kPa
Electromagnetic compatibility	
installation environment regarding EMC	This product is suitable for Class A environments only. In household
	environments, this device can cause unwanted radio interference. The user is required to implement appropriate measures in this case.
EMC emitted interference	IEC 60947-5-1, Class A
Safety related data	
stop category according to IEC 60204-1	0/1
	0/1
SIL Claim Limit (subsystem) according to EN 62061	3
PFHD with high demand rate according to IEC 62061	3.7E-9 1/h
ISO 13849	5.7 E-9 1/11
	4
category according to EN ISO 13849-1	4
performance level (PL)	
according to ISO 13849-1	e
for delayed release circuit according to ISO 13849-1	e
IEC 61508	
Safety Integrity Level (SIL) for delayed release circuit according to IEC 61508	SIL3
safety device type according to IEC 61508-2	Туре В
Average probability of failure on demand (PFDavg) with low	7E-6 1/y
demand rate acc. to IEC 61508	
PFDavg with low demand rate according to IEC 61508	7E-6
Safe failure fraction (SFF)	99 %
hardware fault tolerance according to IEC 61508	1
T1 value for proof test interval or service life according to IEC	20 a
61508	
Electrical Safety	
touch protection against electrical shock	finger-safe
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the NO contacts of the relay 	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or circuit
outputs required	breaker type C: 1A
Inputs	
design of input	
 cascading input/functional switching 	Yes

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	• at 24 V	3 A		
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tificate ates/Test Report Lovds Register				
	EMV Functional Saftey Test Certifica	ates Marine / Shipping		

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Marine / Shipping	other	Railway	Environment
	Confirmation	Confirmation	Environmental Con- firmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

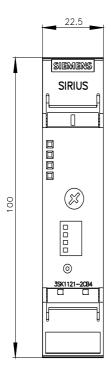
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SK1121-2CB42

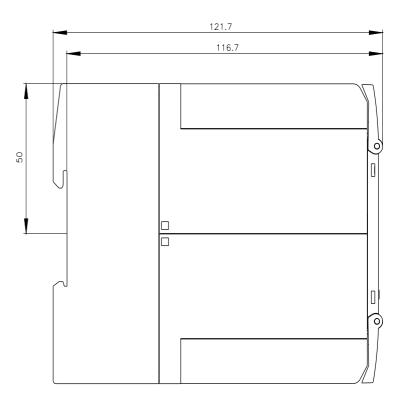
Cax online generator

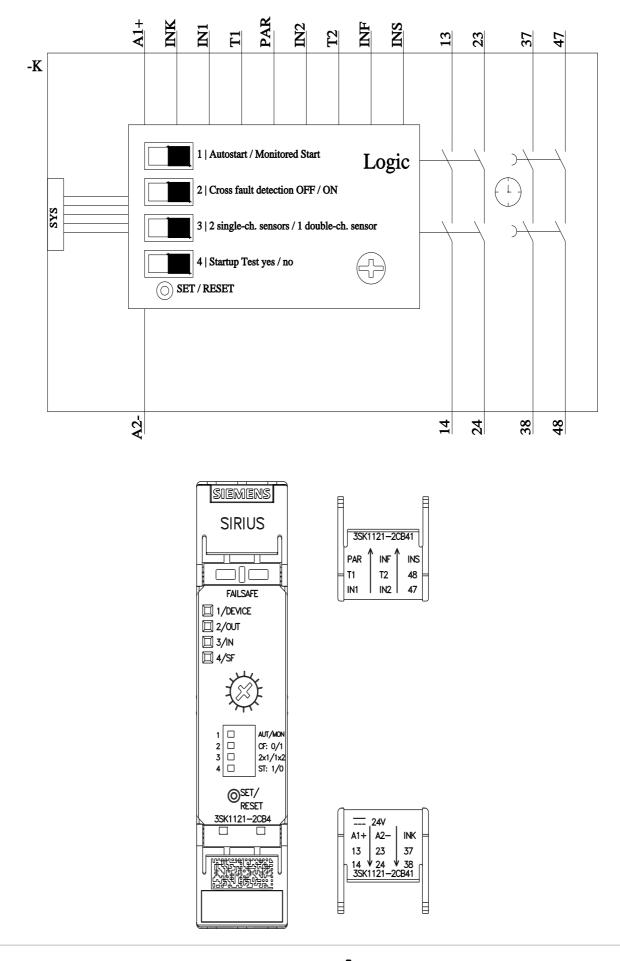
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1121-2CB42

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3SK1121-2CB42

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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