SIEMENS

Data sheet 3SK1122-2CB42



SIRIUS safety relay Basic unit Advanced series with time delay 0.5-30 s electronic 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	Solid-state enabling circuits
General technical data	
protection class IP of the enclosure	IP20
touch protection against electrical shock	finger-safe
insulation voltage rated value	50 V
ambient temperature	
during storage	-40 +80 °C
 during operation 	-25 +60 °C
air pressure according to SN 31205	90 106 kPa
relative humidity during operation	10 95 %
installation altitude at height above sea level maximum	4 000 m; Derating, see Product Notification 109792701
vibration resistance according to IEC 60068-2-6	5 500 Hz: 0.75 mm
shock resistance	10g / 11 ms
surge voltage resistance rated value	800 V
EMC emitted interference	IEC 60947-5-1, Class A
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.
overvoltage category	3
degree of pollution	3
reference code according to IEC 81346-2	F
power loss [W] maximum	2 W
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 feature cross-circuit-proof	Yes
Safety Integrity Level (SIL)	
 according to IEC 62061 	3
 according to IEC 61508 	3
 for delayed release circuit according to IEC 61508 	SIL3
performance level (PL)	
according to ISO 13849-1	e
 for delayed release circuit according to ISO 13849-1 	е
category according to EN ISO 13849-1	4
Safe failure fraction (SFF)	99 %
PFHD with high demand rate according to IEC 62061	1.5E-9 1/h
PFDavg with low demand rate according to IEC 61508	7E-6
T1 value for proof test interval or service life according to	20 a

hardware fault tolerance according to IEC 61508 1 safety device type according to IEC 61508-2 7ppc 8 mumber of outputs as contact-affected switching element	IEC 61508	
safety device type according to IEC 81588-2 Introder Cortports Introder Cortport Introder		1
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height 100 mm depth 121.6 mm Connections/ Terminals type of electrical connection spring-loaded terminal (push-in) type of connectable conductor cross-sections	fastening method	screw and snap-on mounting
depth 121.6 mm Connections/ Terminals type of electrical connection spring-loaded terminal (push-in) type of connectable conductor cross-sections	width	22.5 mm
Connections/ Terminals type of electrical connection spring-loaded terminal (push-in) type of connectable conductor cross-sections	height	100 mm
type of electrical connection spring-loaded terminal (push-in) type of connectable conductor cross-sections	·	121.6 mm
type of connectable conductor cross-sections	Connections/ Terminals	
		spring-loaded terminal (push-in)
• solid 1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)		
	• solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)

 finely stranded 	
 — with core end processing 	1x (0.5 1.0 mm²), 2x (0.5 1.0 mm²)
— without core end processing	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables	
• solid	1x (20 16), 2x (20 16)
• stranded	1x (20 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 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	









Confirmation



General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate Type Test Certificates/Test Report





Marine / Shipping

other

Railway

Environment





Confirmation

Confirmation

Environmental Confirmations

Further information

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=3SK1122-2CB42

Cax online generator

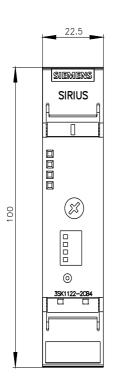
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1122-2CB42

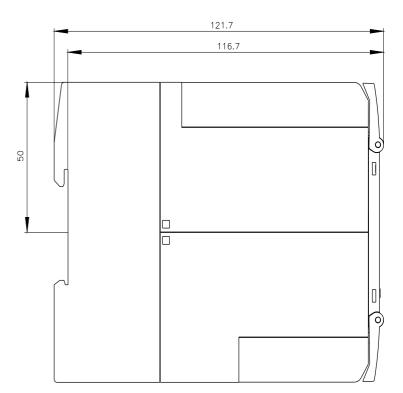
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

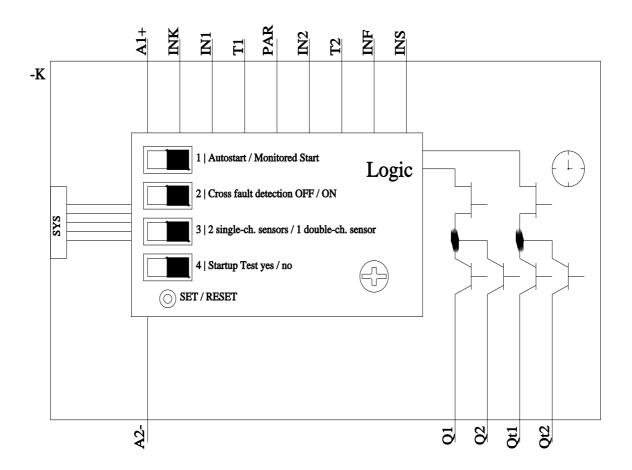
https://support.industry.siemens.com/cs/ww/en/ps/3SK1122-2CB42

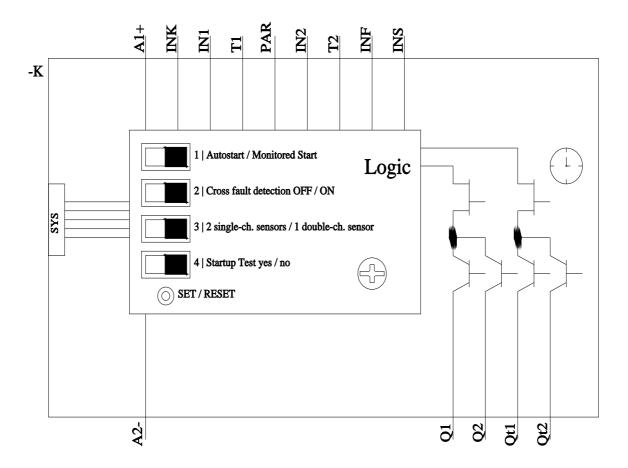
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1122-2CB42&lang=en









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