SIEMENS

Data sheet 3SK1122-1CB44



SIRIUS safety relay Basic unit Advanced series with time delay 5-300 s electronic enabling circuits 2 NO instantaneous 2 NO delayed Us = 24 V DC screw terminal

General technical data	
product brand name	SIRIUS
product category	Safety relays
product designation	safety relays
design of the product	Solid-state enabling circuits
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 acc. to SN 31205	900 1 060 hPa
relative humidity during operation	10 95 %
installation altitude at height above sea level maximum	2 000 m
vibration resistance acc. 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 acc. 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)	
• acc. to IEC 61508	3
for delayed release circuit acc. to IEC 61508	SIL3
performance level (PL)	
• acc. to EN ISO 13849-1	е
• for delayed release circuit 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	0.000000015 1/h
PFDavg with low demand rate acc. to IEC 61508	0.000007

T1 value for proof test interval or service life acc. to	20 y
IEC 61508	;
hardware fault tolerance acc. to IEC 61508	1
safety device type acc. to IEC 61508-2	Type B
number of outputs as contact-affected switching element	
as NO contact	
safety-related instantaneous contact	0
— safety-related delayed switching	0
number of outputs as contact-less semiconductor switching element	
safety-related delayed awitching	
delayed switching instantaneous contact	2 2
stop category acc. to DIN EN 60204-1	0/1
General technical data	071
design of inputcascading input/functional switching	Yes
feedback input	Yes
start input	Yes
type of electrical connection plug-in socket	No
operating frequency maximum	2 000 1/h
switching capacity current	2 000 1/11
of semiconductor outputs at DC-13 at 24 V	2 A
design of the fuse link for short-circuit protection of the NO contacts of the relay outputs required	not required
wire length	
 with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum 	4 000 m
make time with automatic start	
at DC maximum	85 ms
make time with automatic start after power failure	
• typical	6 500 ms
• maximum	6 500 ms
make time with monitored start	
• maximum	85 ms
backslide delay time after opening of the safety circuits typical	40 ms
adjustable OFF-delay time after opening of the safety circuits	5 300
recovery time after opening of the safety circuits typical	30 ms
recovery time after power failure typical	6.5 s
pulse duration	60 mg
 of the sensor input minimum of the ON pushbutton input minimum	60 ms 0.15 s
Control circuit/ Control	0.100
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 grounded parts at the side	5 mm
fastening method	screw and snap-on mounting
width	22.5 mm
height	100 mm
depth	121.6 mm
Connections/ Terminals	

cables • solid	1x (20 14). 2x (18 16)		
• solid	1x (20 14), 2x (18 16)		
stranded	1x (20 16), 2x (20 16)		
roduct 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		
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suitability for operation device connector 3ZY12	· · · · · · · · · · · · · · · · · · ·		
suitability for operation device connector 3ZY12 suitability for interaction press control	startup testing, antivalent sensors, 2-hand switches, time delay		
, ,	startup testing, antivalent sensors, 2-hand switches, time delay Yes		
suitability for interaction press control	startup testing, antivalent sensors, 2-hand switches, time delay Yes		
suitability for interaction press control suitability for use	startup testing, antivalent sensors, 2-hand switches, time delay Yes Yes		
suitability for interaction press control suitability for use • safety switch	startup testing, antivalent sensors, 2-hand switches, time delay Yes Yes Yes		
suitability for interaction press control suitability for use	startup testing, antivalent sensors, 2-hand switches, time delay Yes Yes Yes Yes		
suitability for interaction press control suitability for use	startup testing, antivalent sensors, 2-hand switches, time delay Yes Yes Yes Yes Yes Yes		











Type Examination Certificate

Declaration	of
Conformity	

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report







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=3SK1122-1CB44

Cax online generator

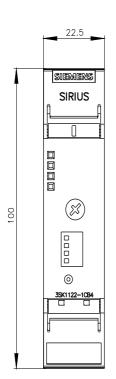
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1122-1CB44

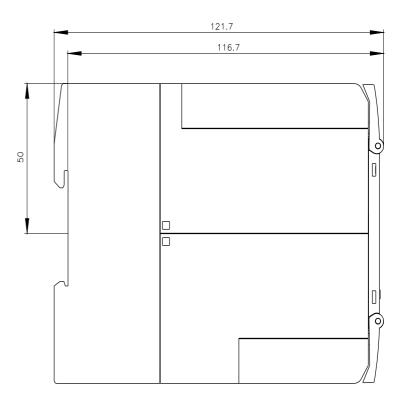
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

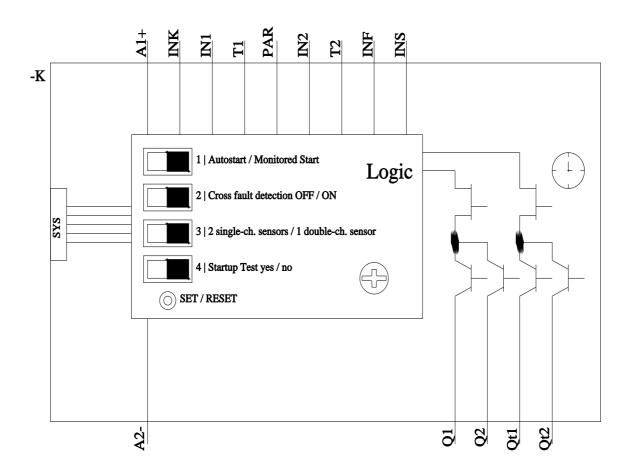
https://support.industry.siemens.com/cs/ww/en/ps/3SK1122-1CB44

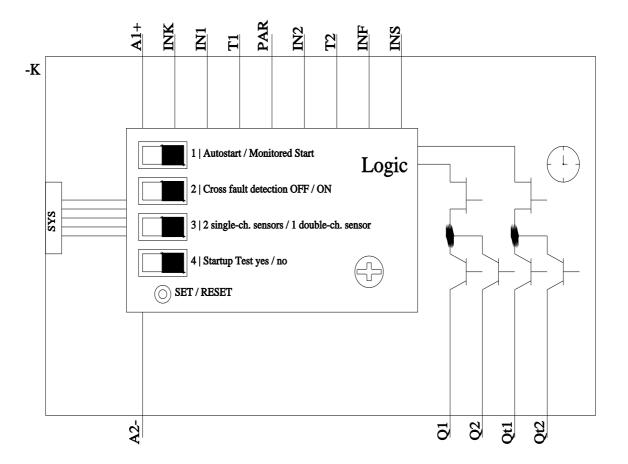
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1122-1CB44&lang=en









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