SIEMENS

Data sheet 3SK1122-1CB41



SIRIUS safety relay Basic unit Advanced series with time delay 0.05-3 s electronic enabling circuits 2 NO instantaneous 2 NO delayed Us = 24 V DC screw terminal

product brand name product category product designation design of the product SIRIUS
Safety relays
safety relays
Solid-state enabling circuits

General technical data

protection class IP of the enclosure touch protection against electrical shock insulation voltage rated value ambient temperature

- during storage
- during operation

air pressure according to SN 31205 relative humidity during operation

installation altitude at height above sea level

vibration resistance according to IEC 60068-2-6 shock resistance

surge voltage resistance rated value

EMC emitted interference

installation environment regarding EMC

overvoltage category degree of pollution

reference code according to IEC 81346-2

power loss [W] maximum

number of sensor inputs 1-channel or 2-channel

design of the cascading

type of the safety-related wiring of the inputs product feature cross-circuit-proof

Safety Integrity Level (SIL)

- according to IEC 62061
- according to IEC 61508
- for delayed release circuit according to IEC 61508

performance level (PL)

- according to ISO 13849-1
- for delayed release circuit according to EN ISO 13849-1

category according to EN ISO 13849-1

Safe failure fraction (SFF)

PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 T1 value for proof test interval or service life IP20

finger-safe

50 V

-40 ... +80 °C

-25 ... +60 °C

90 ... 106 kPa

10 ... 95 %

4 000 m; Derating, see Product Notification 109792701

5 ... 500 Hz: 0.75 mm

10g / 11 ms

800 V

IEC 60947-5-1, Class A

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.

3

3

F

2 W

yes

single-channel and two-channel

Yes

3

3

SIL3

е

е

4

99 %

1.5E-9 1/h 7E-6

20 y

hardware fault tolerance according to IEC 61508 at safety device type according to IEC 61508-2 Imputs*Coltabuts number of outputs as contact-affected switching element - self-y-related designed switching on safety-related designed switching on the safety-related designed switching on the safety-related of safety switching on the safety related of safety switching or relative state input switching according to EN 60204-1 dosign of the sub link for short-circuit protection of the NO contacts of the relay outputs required write length - with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum make time with automatic start after power failure - typical - and DC maximum swall switch maximum according to the safety circuits typical - and DC maximum swall switch and start swall switching according to the safety circuits typical - of the sensor input minimum - of the CN pushbutto input minimum - of the CN pushbutto input minimum - of the control supply voltage - at DC maximum swall sw	according to IEC 61508	
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type of connectable conductor cross-sections		
		screw-type terminals
7. (0.0 m 2.0 mm)	type of connectable conductor cross-sections • solid	1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)

• finely stranded

- with core end processing

type of connectable conductor cross-sections at AWG cables

1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²)

1x (20 ... 14), 2x (18 ... 16)

solid 1x (20 ... 16), 2x (20 ... 16) stranded

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 suitability for interaction press control suitability for use

Yes

· safety switch

Yes

· monitoring of floating sensors · monitoring of non-floating sensors Yes Yes

• magnetically operated switch monitoring

Yes Yes

· safety-related circuits

General Product Approval

Certificates/ approvals

EMC



Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



Type Test Certificates/Test Report







Marine / Shipping

other

Railway



Confirmation

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=3SK1122-1CB41

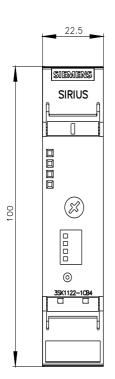
Cax online generator

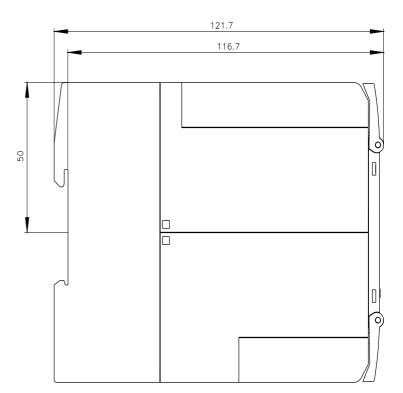
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1122-1CB41

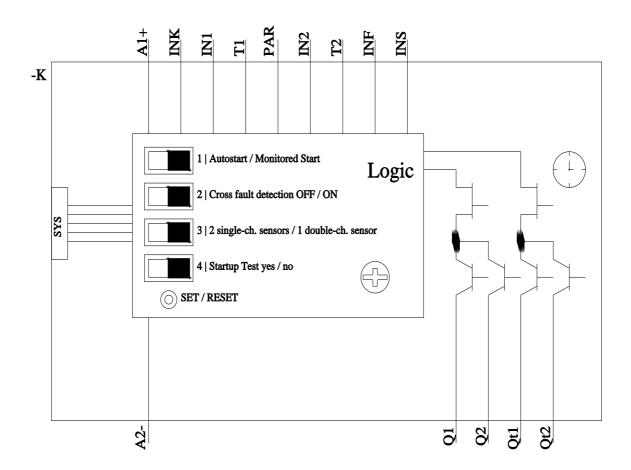
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

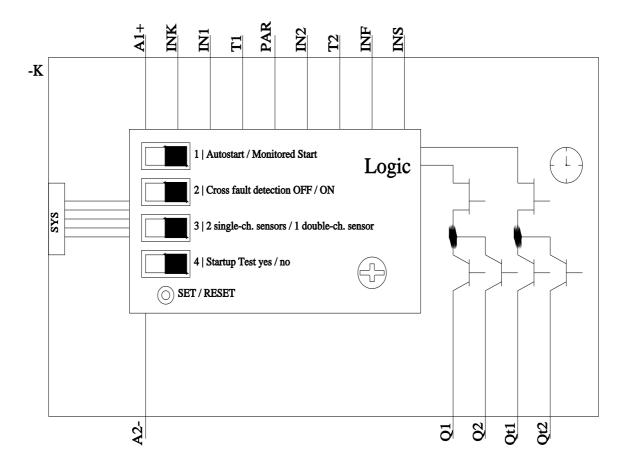
https://support.industry.siemens.com/cs/ww/en/ps/3SK1122-1CB41

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1122-1CB41&lang=en









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