SIEMENS

Data sheet 3SK1121-1AB40



SIRIUS safety relay Basic unit Advanced series Relay enabling circuits 3 NO contacts plus Relay signaling circuit 1 NC contact 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	Relay enabling circuits		
protection class IP of the enclosure	IP20		
touch protection against electrical shock	finger-safe		
insulation voltage rated value	300 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	4 000 V		
EMC emitted interference	IEC 60947-5-1, Class A		
installation environment regarding EMC	This product is suitable for Class A environments only. It can cause undesired radio-frequency interference in residential environments. If this is the case, the user must take appropriate measures.		
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		
performance level (PL)			
• 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	0.000000025 1/h		
PFDavg with low demand rate acc. to IEC 61508	0.000007		
T1 value for proof test interval or service life acc. to IEC 61508	20 y		

safety device type acc. to IEC 61508-2 number of outputs as contact-affected switching element as NC contact for signaling function instantaneous contact as NO contact safety-related instantaneous contact safety-related delayed switching stop category acc. to DIN EN 60204-1 Type B 1 1 1 1 1 1 1 1 1 1 1 1 1	hardware fault tolerance acc. to IEC 61508	1		
number of outputs as contact-affected switching element as NC Contact as N				
element - as NC contact - brighaling function instantaneous contact - as NC contact - safely-related delayed switching - safely-related delayed switching - safely-related delayed switching - sasoding input/functional switching - feedback input - sasoding input/functional switching - feedback input - start		турс в		
- for signaling function instantaneous contact				
** NO contact	as NC contact			
	 for signaling function instantaneous contact 	1		
	as NO contact			
stop category acc. to DIN EN 60204-1 design of input	 — safety-related instantaneous contact 	3		
design of input • cascading input/functional switching • feedback input • start input yes lype of electrical connection plug-in socket operating frequency maximum • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V — at 175 V — at 230 V — at 115 V — at 230 V — at 115 V — at 230 V — at 115 V — at 24 V — at 115 V — at 24 V — at 115 V — at 25 V — at 25 V — at 25 V — at 25 V — at 26 V — at 27 V — at 115 V — at 28 V —	 — safety-related delayed switching 	0		
design of input	stop category acc. to DIN EN 60204-1	0		
• cascading input/functional switching • feetback input • estart input • estart input • of the RO contacts of the relay outputs • of the NO contacts of the relay outputs - at 155 V - at 230 V - at 16-13 - at 150 V - at 115 V - at 120 V • of the NO contacts of the relay outputs - at 10-13 - at 24 V • of the NC contacts of the relay outputs - at 10-13 - at 24 V - at 115 V - at 115 V - at 120 V - at 170 V - at 1	General technical data			
• feedback input • start input type of electrical connection plug-in socket operating frequency maximum • of the NO contacts of the relay outputs — at 24 V — at 115 V — at 230 V — at 230 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 120 V — at 120 V • of the NC contacts of the relay outputs — at 120 V — at 120 V • of the NC contacts of the relay outputs — at 24 V — at 115 V — at 230 V • of the NC contacts of the relay outputs — at 250 V • of the NC contacts of the relay outputs — at 26 C maximum operational current at 17 V minimum total current maximum poperational current at 17 V minimum total current maximum operational current at 17 V minimum total current the use link for short-circuit protection of the NC contacts of the relay outputs required with Cu 1.5 mm² and 160 nF/km per sensor circuit maximum make time with automatic start • at DC maximum make time with automatic start • maximum make time with automatic start after power failure • typical • maximum make time with monitored start • maximum 110 ms hackslide delay time after opening of the safety circuits typical omaximum 100 ms abackslide delay time in the event of power failure • typical • maximum 100 ms abackslide delay time in the event of power failure • typical • maximum 100 ms 30 ms 30 ms 30 ms 30 ms 30 ms 30 ms	design of input			
Start input Yes Y	 cascading input/functional switching 	Yes		
type of electrical connection plug-in socket operating frequency maximum switching capacity current • of the NO contacts of the relay outputs — at 224 V 5A — at 115 V 0.2 A — at 115 V 5A — at 230 V 5A — at 230 V 5A — at 115 V 5A — at 115 V 5A — at 230 V 5A — at 115 V 5A — at 115 V 5A — at 24 V 1A — at 115 V 0.2 A — at 115 V 0.2 A — at 115 V 0.2 A — at 115 V 1.5 A — at 24 V 1.5 A — at 230 V 1.5 A — at 230 V 1.5 A — at 230 V 1.5 A — at 24 V 1.5 A — at 230 V 1.5 A — at 24 V 1.5 A — at 230 V 1.5 A — at 230 V 1.5 A — at 24 V 1.5 A — at 250 V 1.5 A — at 115 V 1.5 A — at 250 V 1.5 A — a	feedback input	Yes		
operational current of the switching element with contacts and for switching element with contacts of the relay outputs - at 224 V	•	Yes		
Switching capacity current				
of the NO contacts of the relay outputs		360 1/h		
- at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 116 V - at 230 V • of the NC contacts of the relay outputs - at 24 V - at 115 V - at 230 V • of the NC contacts of the relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 115 V - at 20 V - at AC-15 - at 21 V - at 20 V - at AC-15 - at 20 V - at AC-15 - at 20 V - at AC-16 - at 20 V - at AC-16 - at 20 V - at 20 V - at AC-16 - at 20 V - at 20 V - at 20 V - at 20 V - at AC-16 - at 20 V - at 20				
- at 115 V				
- at 230 V - at AC-15 - at 24 V - at 115 V - at 230 V • of the NC contacts of the relay outputs - at 24 V - at 115 V - at 230 V - at 24 V - at 115 V - at 230 V - at AC-15 - at 115 V - at 1230 V - at AC-15 - at 115 V - at 1230 V - thermal current of the switching element with contacts maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum operational current at 17 V minimum total current maximum 12 A Discovery time after opening of the safety circuits typical of 6500 ms omaximum 110 ms acksilide delay time after opening of the safety circuits typical omaximum saximum fecovery time after opening of the safety circuits typical of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts of the relay outputs required of the NC ontacts o				
- at AC-15 - at 115 V - at 230 V • of the NC contacts of the relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V • of 1 A - at 115 V - at 230 V • of 1 A - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at Recent at 17 V minimum - operational current of the switching element with contacts maximum - operational current at 17 V minimum - total current maximum - operational service life (switching cycles) typical - design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required - design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required - wire length - with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum - at DC maximum - wake time with automatic start after power failure - typical - maximum - at DC maximum - make time with nutinitored start - maximum - make time with nutinitored start - maximum - make time with monitored start - maximum - make time with monitored start - maximum - typical - typic				
- at 115 V - at 220 V • of the NC contacts of the relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at 230 V - at 230 V - at AC-15 - at 115 V - at 230 V - at 230 V - at 230 V - at 230 V - at 115 V - at 230 V - at 230 V - at 115 V - at 230 V - at 115 V - at 230 V - at 15 A Thermal current of the switching element with contacts maximum - operational current at 17 V minimum - for the NC contacts of the relay outputs required - design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required - wire length - with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum - which Cu 1.5 mm² and 150 nF/km per sensor circuit maximum - at DC maximum - wake time with automatic start - at DC maximum - wake time with automatic start after power failure - typical - maximum - make time with monitored start - maximum - make time with monitored start - maximum - waximum - subckslide delay time after opening of the safety circuit sypical - maximum - symium		U.1 A		
- at 230 V • of the NC contacts of the relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 1230 V thermal current of the switching element with contacts maximum operational current at 17 V minimum total current maximum mechanical service life (switching cycles) typical design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required wire length • with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum make time with automatic start • at DC maximum make time with automatic start after power failure • typical • maximum make time with monitored start • maximum make time with monitored start • maximum make time with monitored start • maximum make time with automatic start after power failure • typical • maximum make time with automatic start • maximum make time with monitored start • maximum make time with automatic start after power failure • typical backslide delay time after opening of the safety circuits typical backslide delay time in the event of power failure • typical • maximum fecovery time after opening of the safety circuits typical recovery time after power failure typical		5.4		
of the NC contacts of the relay outputs				
- at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at 320 V - at AC-15 - at 115 V - at 230 V - at 320 V -		5 A		
- at 24 V - at 115 V - at 230 V - at 215 V - at 230 V - at 230 V - at 230 V - at 215 V - at 215 V - at 230 V - at 215 V - at 215 V - at 215 V - at 230 V - at 215 V - at 215 V - at 215 V - at 230 V - at 215 V -	· ·			
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- at 230 V - at AC-15 - at 115 V - at 230 V thermal current of the switching element with contacts maximum operational current at 17 V minimum total current maximum pechanical service life (switching cycles) typical design of the fuse link for short-circuit protection of the NO contacts of the relay outputs required design of the fuse link for short-circuit protection of the NC contacts of the relay outputs required wire length with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum make time with automatic start at DC maximum make time with automatic start after power failure typical make time with monitored start maximum make time with monitored start maximum make time with monitored start maximum 110 ms backslide delay time after opening of the safety circuits typical maximum tercovery time after power failure typical recovery time after power failure typical recovery time after power failure typical 6.5 s	₩. = · ·			
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with Cu 1.5 mm² and 150 nF/km per sensor circuit maximum make time with automatic start	the NC contacts of the relay outputs required			
make time with automatic start • at DC maximum make time with automatic start after power failure • typical • maximum • maximum • maximum • maximum 110 ms backslide delay time after opening of the safety circuits typical • typical • maximum • typical • typical • maximum • typical • typical • maximum • typical • maximum 50 ms recovery time after opening of the safety circuits typical recovery time after power failure typical 6 500 ms 30 ms 30 ms 6 500 ms	with Cu 1.5 mm² and 150 nF/km per sensor circuit	4 000 m		
o at DC maximum make time with automatic start after power failure o typical o maximum o maximum o maximum 110 ms make time with monitored start o maximum 110 ms backslide delay time after opening of the safety circuits typical backslide delay time in the event of power failure o typical o maximum 10 ms 40 ms 30 ms 50 ms recovery time after opening of the safety circuits typical recovery time after power failure typical 6.5 s				
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make time with monitored start • maximum backslide delay time after opening of the safety circuits typical backslide delay time in the event of power failure • typical • maximum recovery time after opening of the safety circuits typical recovery time after power failure typical 6.5 s		6 500 ms		
backslide delay time after opening of the safety circuits typical backslide delay time in the event of power failure • typical • maximum recovery time after opening of the safety circuits typical recovery time after power failure typical 6.5 s	make time with monitored start			
backslide delay time in the event of power failure • typical • maximum recovery time after opening of the safety circuits typical recovery time after power failure typical 6.5 s	• maximum	110 ms		
 typical 30 ms maximum 50 ms recovery time after opening of the safety circuits typical recovery time after power failure typical 6.5 s 		40 ms		
• maximum 50 ms recovery time after opening of the safety circuits typical 30 ms recovery time after power failure typical 6.5 s	backslide delay time in the event of power failure			
recovery time after opening of the safety circuits typical recovery time after power failure typical 6.5 s	• typical	30 ms		
recovery time after power failure typical 6.5 s	maximum	50 ms		
		30 ms		
		6.5 s		

of the sensor input minimum	75 ms			
of the ON pushbutton input minimum	0.15 s			
<u>·</u>	0.15 8			
Control circuit/ Control	DO.			
type of voltage of the control supply voltage	DC			
control supply voltage				
• at DC	0414			
— 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				
type of electrical connection	screw-type terminals			
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 	1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)			
type of connectable conductor cross-sections at AWG cables				
• solid	1x (20 14), 2x (18 16)			
stranded	1x (20 16), 2x (20 16)			
Product Function				
product function parameterizable	Sensor floating / sensor non-floating, monitored start / autostart, 1-channel / 2-channel sensor connection, cross-circuit detection, startup testing, antivalent sensors, 2-hand switches			
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		ЕМС	Functional Safety/Safety of Machinery	











Type Examination Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









other Railway

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=3SK1121-1AB40

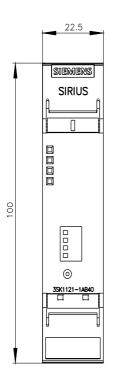
Cax online generator

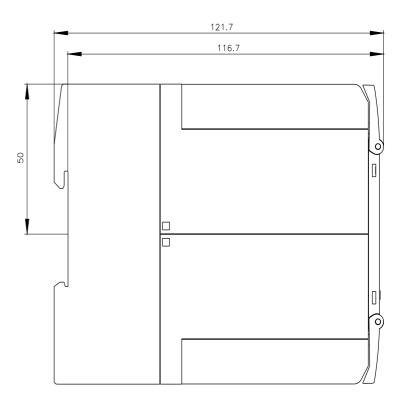
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1121-1AB40

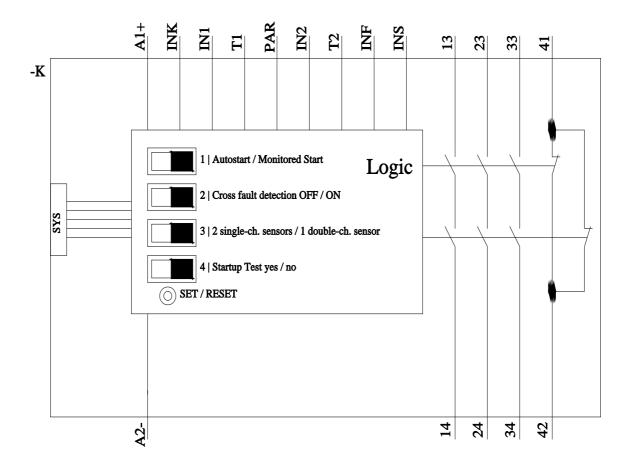
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

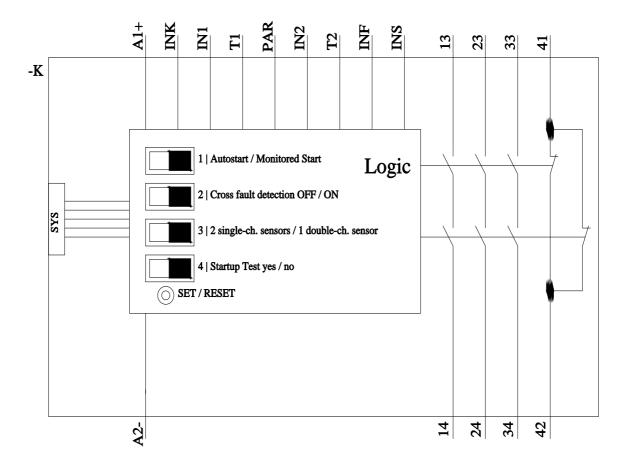
https://support.industry.siemens.com/cs/ww/en/ps/3SK1121-1AB40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1121-1AB40&lang=en









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