SIEMENS

Data sheet 3SK1211-2BB00



SIRIUS safety relay Output expansion 4RO with relay enabling circuits 4 NO contacts plus Relay signaling circuit 1 NC contact Us = 24 V AC Spring-type terminal (push-in)

General technical data			
product brand name	SIRIUS		
product category	Safety relays		
product designation	Output expansion		
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, IEC 61000		
installation environment regarding EMC	This product is suitable for Class B environments and can also be used in domestic environments.		
overvoltage category	3		
degree of pollution	3		
reference code acc. to DIN EN 61346-2	F		
reference code acc. to IEC 81346-2	F		
power loss [W] maximum	2.5 W		
Safety Integrity Level (SIL) acc. to IEC 61508	3		
performance level (PL) acc. to EN ISO 13849-1	e		
category acc. to EN ISO 13849-1	4		
PFHD with high demand rate acc. to EN 62061	0.000000017 1/h		
PFDavg with low demand rate acc. to IEC 61508	0.000001		
T1 value for proof test interval or service life acc. to IEC 61508	20 y		
hardware fault tolerance acc. to IEC 61508	1		
safety device type acc. to IEC 61508-2	Type A		
number of outputs as contact-affected switching element			
• as NC contact			
 for signaling function delayed switching 	0		
— for feedback circuit instantaneous contact	1		

 — safety-related instantaneous contact 	0
 — safety-related delayed switching 	0
 as NO contact 	
 for signaling function instantaneous contact 	0
 for signaling function delayed switching 	0
safety-related instantaneous contact	4
— safety-related delayed switching	0
number of outputs as contact-less semiconductor switching element	
for signaling function	
— delayed switching	0
stop category acc. to DIN EN 60204-1	0
General technical data	
	No
type of electrical connection plug-in socket operating frequency maximum	360 1/h
	300 1/11
switching capacity current of the NO contacts of the relay outputs	
• at DC-13	
— at 24 V	5 A
— at 115 V	0.2 A
— at 115 V — at 230 V	0.1 A
	U.1 A
• at AC-15	F.A.
— at 24 V	5 A
— at 115 V	5 A
— at 230 V	5 A
thermal current of the switching element with contacts maximum	5 A
operational current at 17 V minimum	5 mA
total current maximum	12 A
mechanical service life (switching cycles) typical	10 000 000
design of the fuse link for short-circuit protection of	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or
the NO contacts of the relay outputs required	circuit breaker type C: 1A
make time with automatic start	
• typical	25 ms
at AC maximum	40 ms
make time with automatic start after power failure	
typical	25 ms
maximum	40 ms
backslide delay time in the event of power failure	
• typical	45 ms
• maximum	50 ms
recovery time after power failure typical	0.06 s
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage frequency	
1 rated value	50 Hz
2 rated value	60 Hz
	00 112
control supply voltage	
• at AC	
— at 50 Hz	24)/
— rated value	24 V
— at 60 Hz	
— rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil	
• at AC	0.05
— at 50 Hz	0.85 1.1
— at 60 Hz	0.85 1.1
Installation/ mounting/ dimensions	
mounting position	any
required spacing for grounded parts at the side	5 mm

required spacing with side-by-side mounting at the side	0 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	spring-loaded terminal (push-in)				
type of connectable conductor cross-sections					
• 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 at AWG cables					
• solid	1x (20 16), 2x (20 16)				
stranded	1x (20 16), 2x (20 16)				
Product Function					
suitability for operation device connector 3ZY12	No				
suitability for use					
 safety-related circuits 	Yes				
Certificates/ approvals					
certificate of suitability					
 TÜV (German technical inspectorate) certificate 	Yes				
UL approval	Yes				
General Product Approval		EMC	Functional Safety/Safety of Machinery		











Type Examination



Type Test Certificates/Test Report

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=3SK1211-2BB00

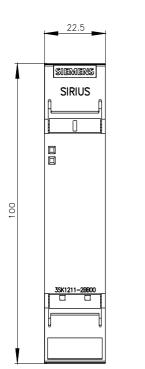
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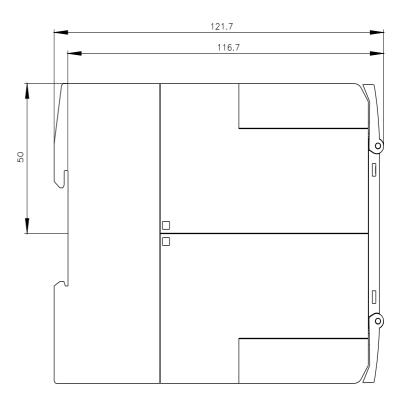
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1211-2BB00

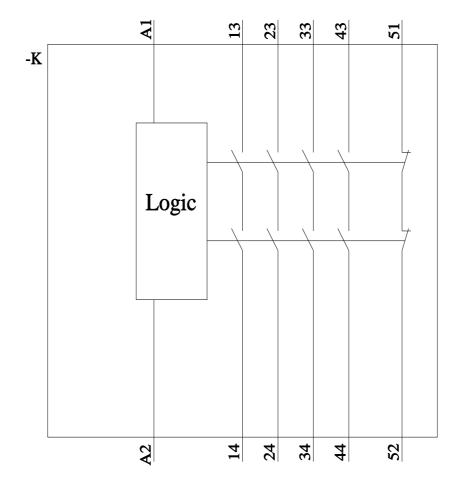
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

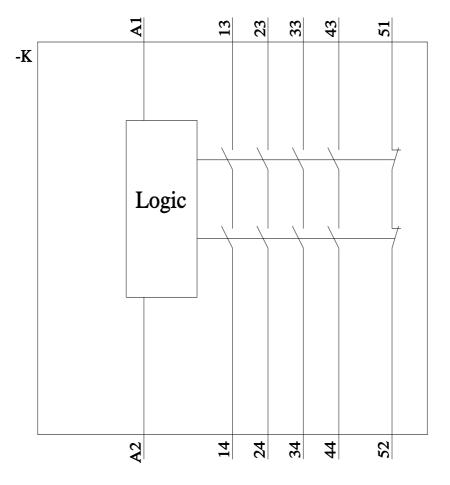
https://support.industry.siemens.com/cs/ww/en/ps/3SK1211-2BB00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3SK1211-2BB00&lang=en









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