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)

product brand name	SIRIUS		
product category	Safety relays		
product designation	Output expansion		
design of the product	Relay enabling circuits		
General technical data			
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 according to SN 31205	900 1 060 hPa		
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	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 according to EN 61346-2	F		
reference code according to IEC 81346-2	F		
power loss [W] maximum	2.5 W		
Safety Integrity Level (SIL) according to IEC 62061	3		
Safety Integrity Level (SIL) according to IEC 61508	3		
performance level (PL) according to ISO 13849-1	е		
category according to EN ISO 13849-1	4		
PFHD with high demand rate according to EN 62061	1.7E-9 1/h		
PFDavg with low demand rate according to IEC 61508	1E-6		
T1 value for proof test interval or service life according to IEC 61508	20 a		
hardware fault tolerance according to IEC 61508	1		
safety device type according to IEC 61508-2	Type A		
Inputs/ Outputs			
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 according to EN 60204-1	0
type of electrical connection plug-in socket	No
operating frequency maximum	360 1/h
switching capacity current of the NO contacts of the relay	300 1/11
outputs	
• at DC-13	
— at 24 V	5 A
— at 115 V	0.2 A
— at 113 V — at 230 V	0.1 A
— at 250 v • at AC-15	0.171
	FΛ
— at 24 V	5.4
— at 115 V	5 A
— at 230 V	5 A
thermal current of the switching element with contacts maximum	5 A
total current maximum	12 A
operational current at 17 V minimum	5 mA
mechanical service life (operating cycles) typical	10 000 000
design of the fuse link for short-circuit protection of the NO	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or circuit
contacts of the relay outputs required	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	45 ms
backslide delay time in the event of power failure • typical	45 ms
backslide delay time in the event of power failure • typical • maximum	50 ms
backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical	
backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical Control circuit/ Control	50 ms 0.06 s
backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical Control circuit/ Control type of voltage of the control supply voltage	50 ms
backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical Control circuit/ Control type of voltage of the control supply voltage control supply voltage frequency	50 ms 0.06 s AC
backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical Control circuit/ Control type of voltage of the control supply voltage control supply voltage frequency • 1 rated value	50 ms 0.06 s AC 50 Hz
backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical Control circuit/ Control type of voltage of the control supply voltage control supply voltage frequency • 1 rated value • 2 rated value	50 ms 0.06 s AC
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backslide delay time in the event of power failure • typical • maximum recovery time after power failure typical Control circuit/ Control type of voltage of the control supply voltage control supply voltage frequency • 1 rated value • 2 rated value control supply voltage • at AC — at 50 Hz — rated value — at 60 Hz — rated value operating range factor control supply voltage rated value of	50 ms 0.06 s AC 50 Hz 60 Hz
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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					
• 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					
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 Ma- chinery		



Confirmation







Type Examination Certificate

Declaration of Conformity

Test Certificates

other

Railway





Type Test Certificates/Test Report

Confirmation

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3SK1211-2BB00

Cax online generator

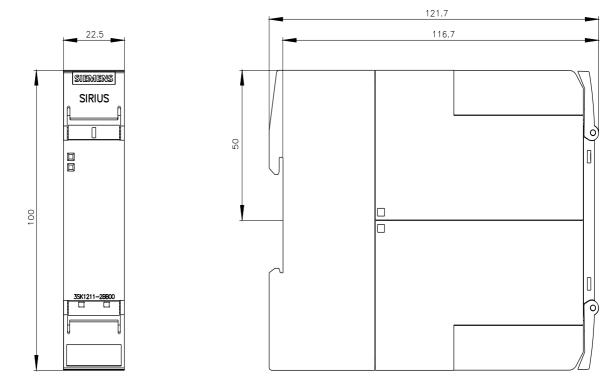
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SK1211-2BB00

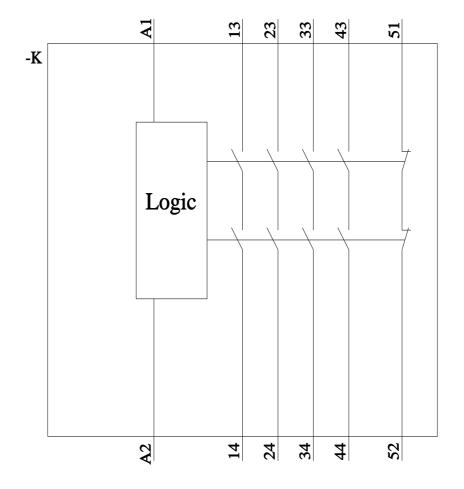
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

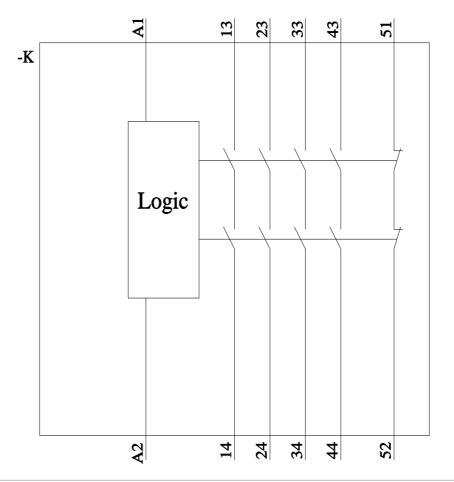
https://support.industry.siemens.com/cs/ww/en/ps/3SK1211-2BB00

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1211-2BB00\&lang=en}}$







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