SIEMENS

Data sheet 3SK1211-1BB40



SIRIUS safety relay Output expansion 4RO with relay enabling circuits 4 NO contacts plus Relay signaling circuit 1 NC contact Us = 24 V DC screw terminal

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	e
category according to EN ISO 13849-1	4
PFHD with high demand rate according to IEC 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 IEC 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	
outputs	
• at DC-13	-
— at 24 V	5 A
— at 115 V	0.2 A
— at 230 V	0.1 A
• at AC-15	
— 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
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 contacts of the relay outputs required	gL/gG: 6A or circuit breaker type A: 3A or circuit breaker type B: 2A or circuit breaker type C: 1A
make time with automatic start	
• typical	15 ms
at DC maximum	30 ms
make time with automatic start after power failure	
• typical	15 ms
maximum	30 ms
backslide delay time in the event of power failure	
• typical	10 ms
maximum	15 ms
recovery time after power failure typical	0.015 s
Control circuit/ Control	
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
	U.O 1.Z
Installation/ mounting/ dimensions	any.
mounting position	any 5 mm
required spacing for grounded parts at the side required spacing with side-by-side mounting at the side	0 mm
fastening method width	screw and snap-on mounting 22.5 mm
	22.5 mm 100 mm
height	
depth Connections / Torminals	121.6 mm
Connections/ Terminals	a a say what we have a say of the
type of electrical connection	screw terminal
type of connectable conductor cross-sections	4(0.50.5
• solid	1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)
	1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)

type of connectable conductor cross-sections for AWG cables solid 1x (20 ... 14), 2x (18 ... 16) **Product Function** product function parameterizable undelayed/delayed (only with system connector) suitability for operation device connector 3ZY12 suitability for use · safety-related circuits Yes Certificates/ approvals certificate of suitability • TÜV (German technical inspectorate) certificate Yes • UL approval Yes **General Product Approval**



Confirmation









General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate Type Test Certificates/Test Report





Marine / Shipping

other

Railway

Environment





Confirmation

Confirmation

Environmental Confirmations

Further information

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=3SK1211-1BB40

Cax online generator

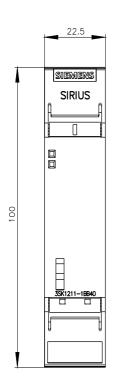
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SK1211-1BB40}$

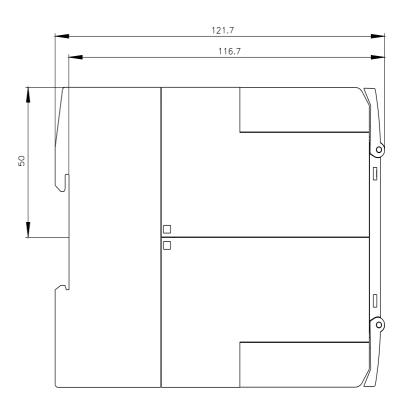
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

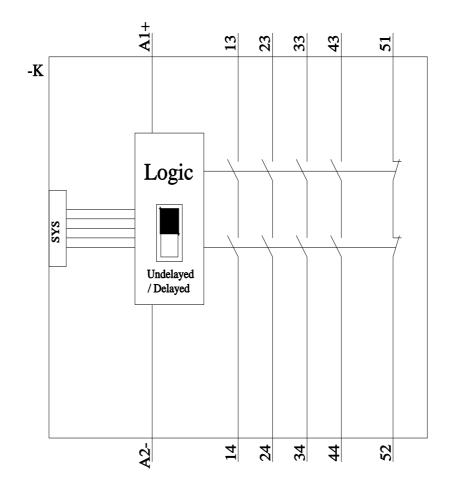
https://support.industry.siemens.com/cs/ww/en/ps/3SK1211-1BB40

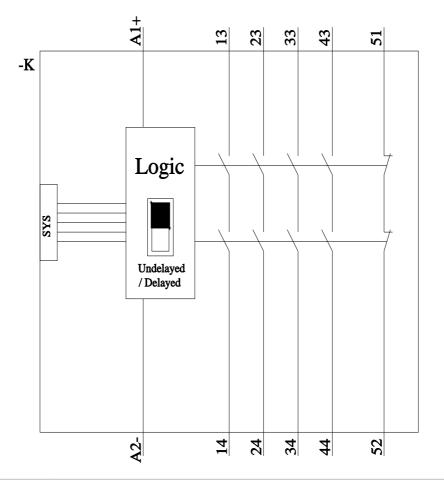
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SK1211-1BB40&lang=en









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