SIEMENS

Data sheet 3RK3211-1AA10

SIRIUS, expansion module 3RK32 for modular safety system 3RK3 4/8 F-DI, 24 V DC configurable via MSS ES 22.5 mm width screw terminal up to SIL 3 (IEC 61508) up to Performance Level e (ISO 13849-1) without connecting cable

product brand name	SIRIUS
product category	Modular Safety System
design of the product	4/8 F-DI
product function	
● EMERGENCY OFF function	Yes
● protective door monitoring	Yes
● evaluation: electro-sensitive protective equipment	Yes
● evaluation: selector switch	Yes
● evaluation: two-hand operator panel	Yes
● evaluation: enabling switch	Yes
● monitored start-up	Yes
insulation voltage rated value	50 V
degree of pollution	3
surge voltage resistance rated value	500 V
shock resistance	15g / 11 ms
vibration resistance according to IEC 60068-2-6	5 ... 500 Hz: 0.75 mm
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1
Weight	0.154 kg
installation altitude at height above sea level maximum	2 000 m
relative humidity during operation	10 ... 95 %
Electromagnetic compatibility	
conducted interference	
● due to burst according to IEC 61000-4-4	2 kV (power ports)
● due to conductor-earth surge according to IEC 61000-4-5	2 kV
● due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m, 3 V/m, 1 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
category according to EN 954-1	4
IEC 62061	
Safety Integrity Level (SIL) according to IEC 62061	SIL 3
PFHD with high demand rate according to IEC 62061	1.89E-9 1/h
ISO 13849	
performance level (PL) according to EN ISO 13849-1	PL e
category according to EN ISO 13849-1	4

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performance level (PL) according to ISO 13849-1	PL e
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	3
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	4.29E-6 1/y
T1 value for proof test interval or service life according to IEC 61508	20 a
Electrical Safety	
touch protection against electrical shock	finger-safe
design of the fuse link for short-circuit protection of non-solid-state switching element required	NH Typ 3NA, DIAZED Typ 5SB, NEOZED Typ 5SE

Inputs/ Outputs

product function	
● parameterizable outputs	No
number of inputs	
● safety-related	8
● non-safety-related	0
number of outputs for testing contact-based sensors	2
number of outputs as contact-affected switching element safety-related	
● 1-channel	0
● 2-channel	0
number of outputs as contact-less semiconductor switching element	
● safety-related 2-channel	0
● non-safety-related	0
type of voltage	DC
control supply voltage 1 at DC rated value	24 V
mounting position	vertical
fastening method	DIN rail
height	102 mm
width	22.5 mm
depth	124 mm
type of electrical connection	screw terminal

Approvals Certificates

General Product Approval				EMV	Functional Saftey
					Miscellaneous

Functional Saftey		Test Certificates	other		Environment
Type Examination Certificate	Type Examination Certificate	Type Test Certificates/Test Report	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=3RK3211-1AA10
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3211-1AA10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK3211-1AA10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3211-1AA10&lang=en

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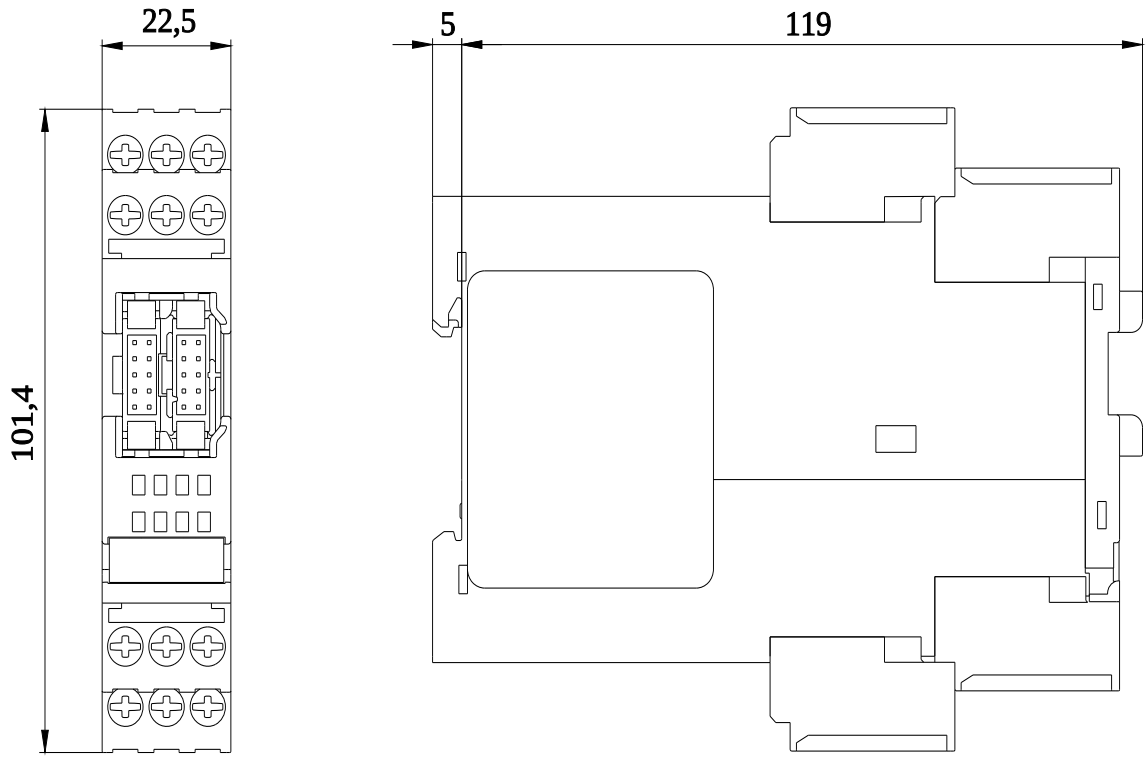

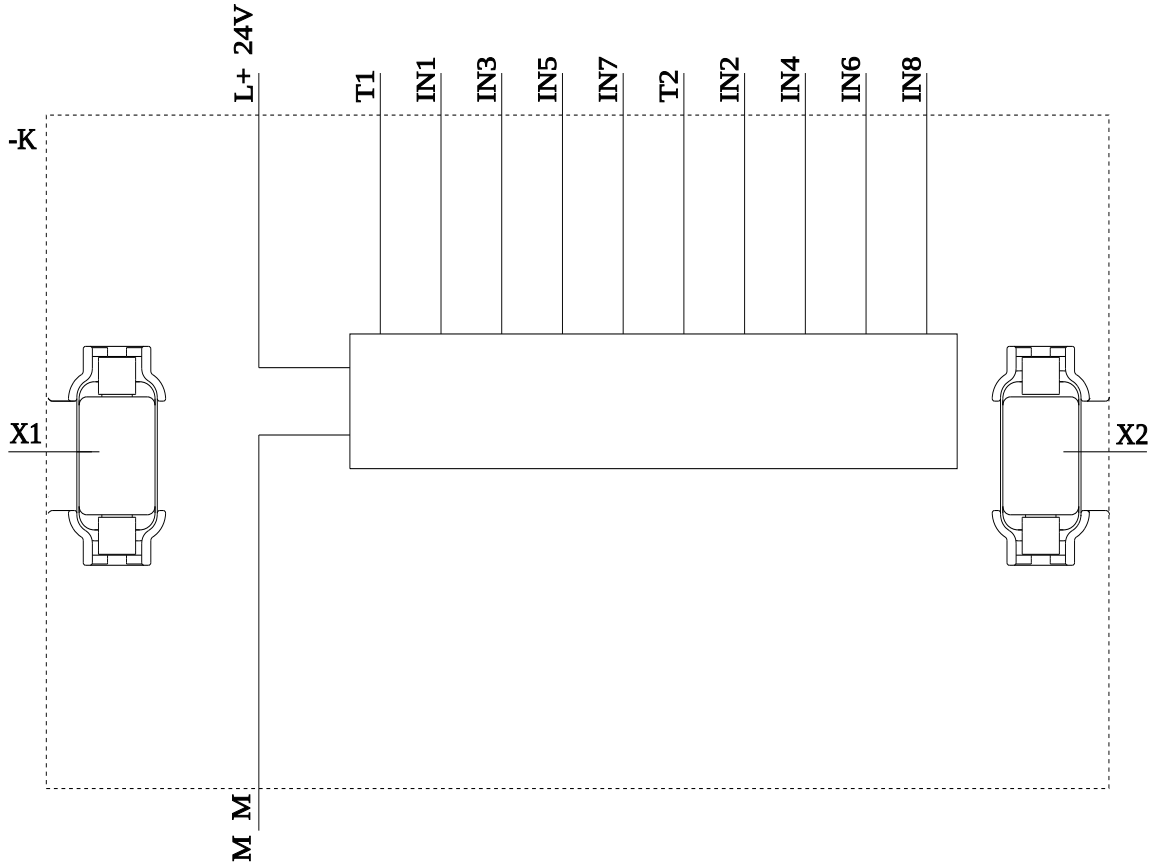

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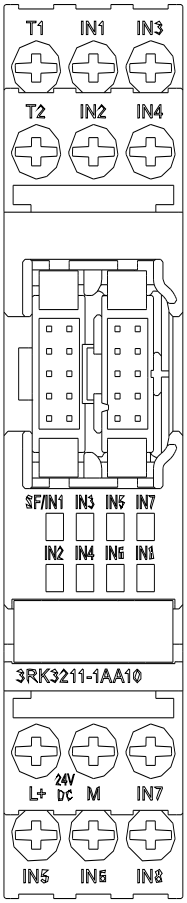

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