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Data sheet 3RK3221-1AA10



SIRIUS, expansion module 3RK32 for modular safety system 3RK3 2/4 F-DI, 1/2 F-RO, 24 V DC/1 A 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	2/4 F-DI 1/2 F-RO
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	300 V
degree of pollution	3
surge voltage resistance rated value	4 000 V
shock resistance	15 g / 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 (day/month/year)	05/01/2012
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	0.171 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	3.79E-9 1/h
ISO 13849	

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performance level (PL) according to EN ISO 13849-1	e
category according to EN ISO 13849-1	4
performance level (PL) according to ISO 13849-1	PL e
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	3
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	Yes
number of inputs	
● safety-related	4
● 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	2
● 2-channel	0
number of outputs as contact-less semiconductor switching element	
● safety-related 2-channel	0
● non-safety-related	0
switching capacity current of the NO contacts of the relay outputs at DC-13	
● at 24 V	1 A
● at 230 V	0.1 A
switching capacity current of the NO contacts of the relay outputs at AC-15	
● at 24 V	2 A
● at 230 V	2 A
type of voltage	DC
control supply voltage 1 at DC rated value	24 V
mounting position	vertical
fastening method	DIN-rail mounting
height	102 mm
width	22.5 mm
depth	124 mm
type of electrical connection	screw terminal

Approvals Certificates

Environment	General Product Approval				
Environmental Confirmations	CCC	cULus	EAC	CE EG-Konf.	UKCA

EMV	Functional Saftey			Test Certificates	other
RCM	Miscellaneous	Type Examination Certificate	Type Examination Certificate	Type Test Certificates/Test Report	Confirmation

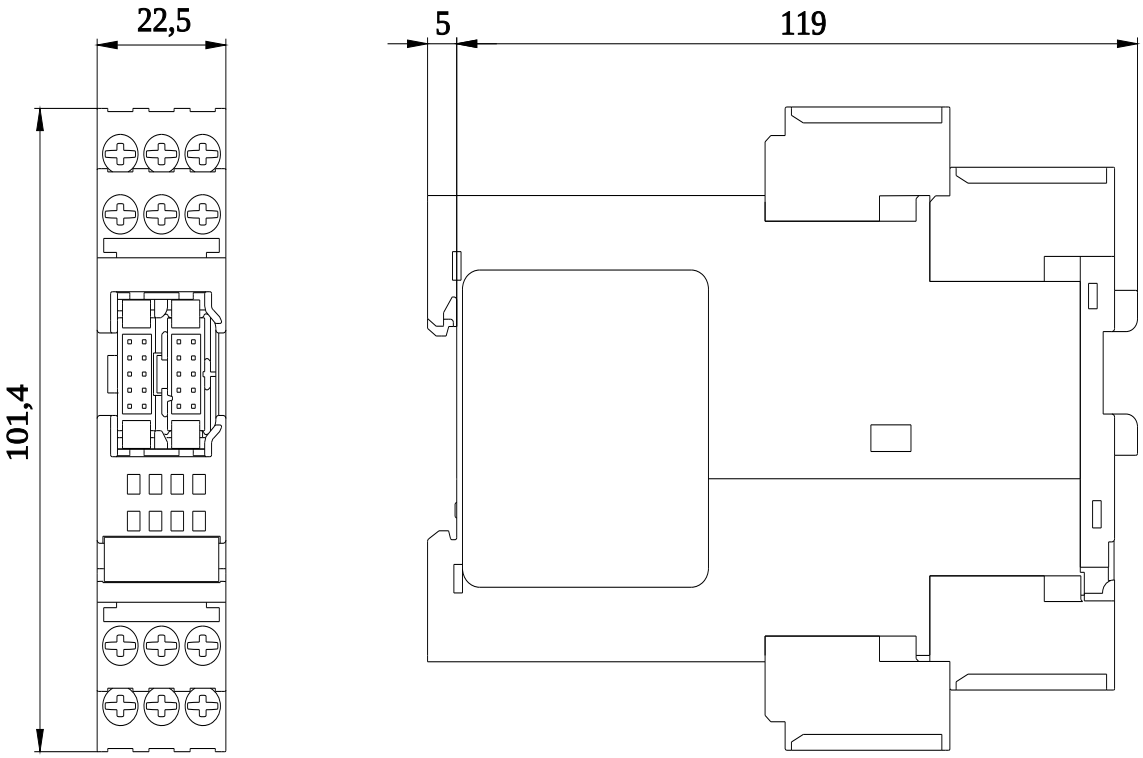
other

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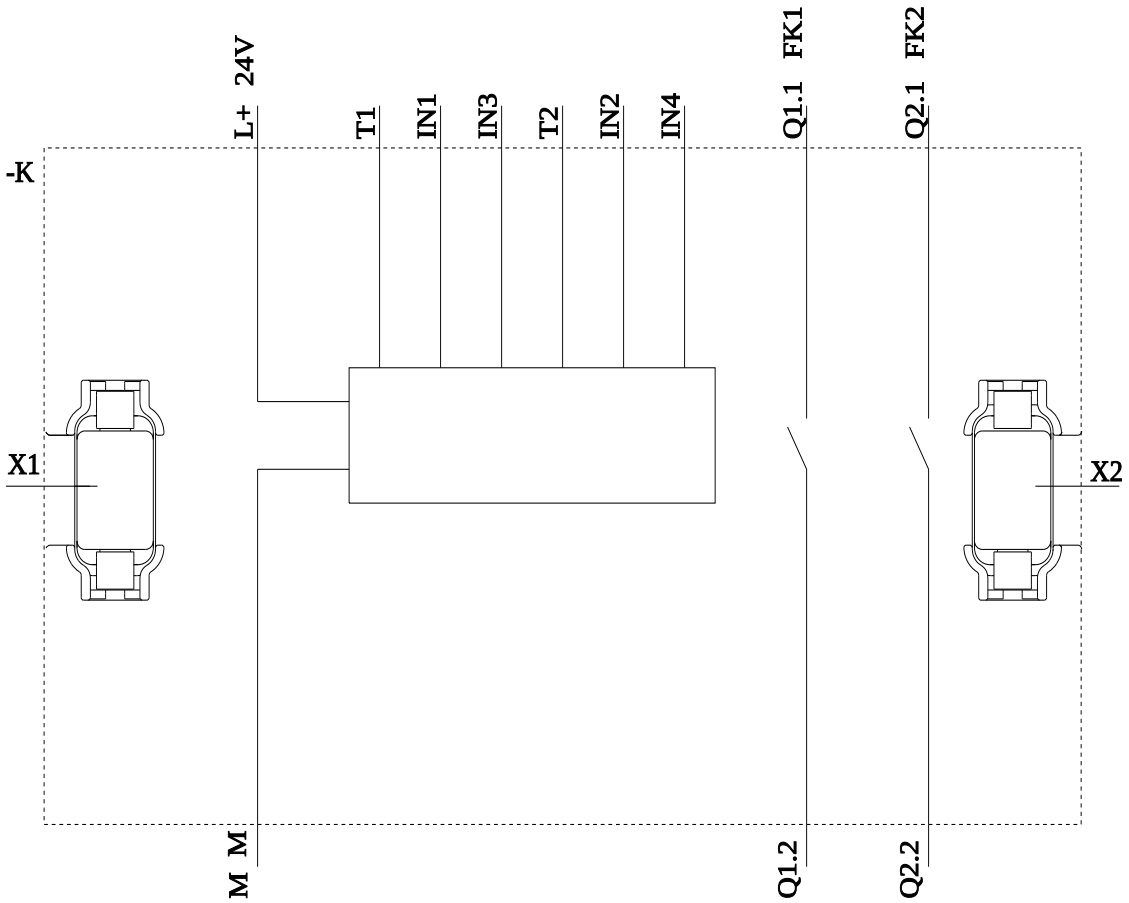
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QC PASS

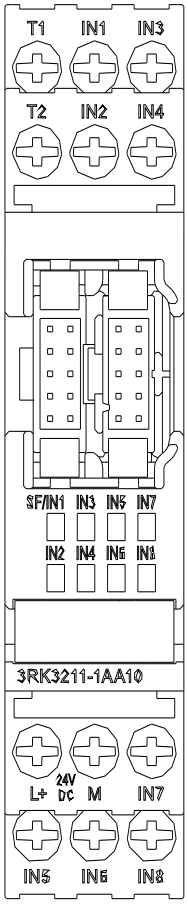
Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
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=3RK3221-1AA10
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK3221-1AA10
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK3221-1AA10
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK3221-1AA10&lang=en



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