SIEMENS

Product data sheet 3RK3211-1AA10



SIRIUS, EXPANSION MODULE 3RK32 FOR MODULAR SAFETY SYSTEM 3RK3 4/8 F-DI, 24V DC PARAMETERIZABLE VIA SW MSS ES WIDTH 22.5MM SCREW TERMINAL UP TO SIL3 (IEC 61508) UP TO PERFORMANCE LEVEL E (ISO 13849-1).

General technical data:			
product brand name		SIRIUS	
Product designation		Modular Safety System 3RK3	
Design of the product		entension module 4/8 F-DI	
Protection class IP		IP20	
Resistance against shock		15g / 11 ms	
Degree of pollution		3	
mounting position		vertical	
Installation altitude / at a height over sea level / maximum	m	2,000	
Ambient temperature			
during storage	°C	-40 +85	
during operating	°C	-20 +60	
during transport	°C	-40 +85	
Relative humidity			
during operating phase	%	10 95	
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV (power ports)	
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV	
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV	

Electrostatic discharge / according to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m, 3 V/m, 1 V/m
Impulse voltage resistance / rated value	V	500
Insulation voltage / rated value	V	50
Reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750		К
Reference code / according to DIN EN 61346-2		К
Product function		
emergency stop function		Yes
protective door monitoring		Yes
• evaluation: contact-free acting protection device		Yes
• evaluation: selector switch		Yes
step mat monitoring		Yes
evaluation: two-hand control panel		Yes
evaluation: enabling switch		Yes
• monitored start-up		Yes
Control circuit/ Control:		
Type of voltage		DC
Control supply voltage / 1 / for DC / rated value	V	24
Operating range factor control supply voltage rated value		
• of the solenoid		0.85 1.15
Auxiliary circuit:		
Product function		
outputs parameterisable		No
Number of inputs		
safety-related		8
not safety-related		0
Number of outputs		
• as contact-affected switching element / safety-related		
• 1-channel		0
• 2-channel		0
• as contact-less semiconductor switching element		
• safety-related / 2-channel		0
• not safety-oriented / 2-channel		0
• to the test of contact afflicated sensors		2
Short-circuit:		

Design of the fuse link / for short-circuit protection of the

contact afflicted switching element / required

Installation/ mounting/ dimensions:			
Mounting type		standard rail	
Width	mm	22.5	
Height	mm	102	
Depth	mm	124	

Connections/ terminals:		
Product function / removable terminal for auxiliary and control circuit		Yes
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Connectable conductor cross-section / for auxiliary contacts		
• single- or multi-stranded	mm²	0.5 4
• finely stranded		
 with conductor end processing 	mm²	0.5 2.5

Certificates/ approvals:

General Product Approval

EMC











Functional Safety / Safety of Machinery

Test Certificates



other

Special Test Certificate

other

Confirmation

Declaration of Conformity



Environmental Confirmations

Profibus

Safety related data:		
Safety Integrity Level (SIL) / according to IEC 61508		SIL3
Performance level (PL) / according to EN ISO 13849-1		е
Category / according to EN 954-1		4
PFHD / with high demand rate / according to EN 62061	1/h	0.0000000189
Average probability of failure on demand (PFDavg) / with low demand rate / according to IEC 61508	1/y	0.00000429
T1 value / for proof test interval or service life / according to IEC 61508	а	20
Protection against electrical shock		finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

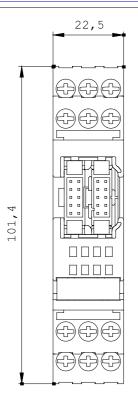
http://www.siemens.com/cax

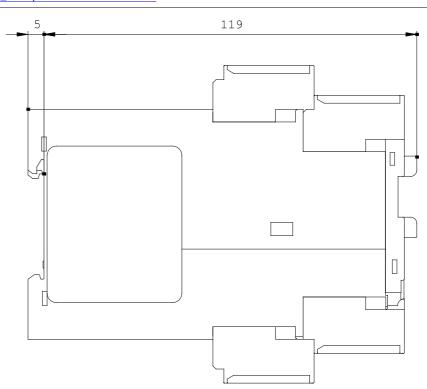
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

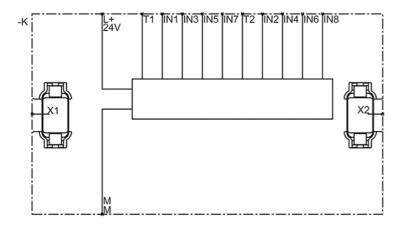
http://support.automation.siemens.com/WW/view/en/3RK3211-1AA10/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK3211-1AA10







last change: Sep 22, 2014