SIEMENS

Data sheet 3RK3251-1AA10



SIRIUS, EXPANSION MODULE 3RK32 FOR 3RK3 MODULAR SAFETY SYSTEM 4/8 F-DO, DC 24V/1A PARAMETERIZABLE VIA SW MSS ES 45MM WIDTH 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		Expansion module 4/8 F-RO	
Protection class IP		IP20	
Shock resistance		15g / 11 ms	
Degree of pollution		3	
mounting position		vertical	
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature			
during storage	°C	-40 + 85	
during operation	°C	-20 + 60	
during transport	°C	-40 +85	
Relative humidity during operation	%	10 95	
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV (power ports)	
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV	
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV	
Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge	
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m, 3 V/m, 1 V/m	
Surge voltage resistance Rated value	V	4 000	
Insulation voltage Rated value	V	300	

Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		К
Equipment marking acc. to DIN EN 61346-2		К
Product function		
 EMERGENCY OFF function 		No
 protective door monitoring 		No
evaluation: electro-sensitive protective		No
equipment		
evaluation: selector switch		No
 Pressure-sensitive mat monitoring 		No
 evaluation: two-hand operator panel 		No
• evaluation: enabling switch		No
● monitored start-up		No
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 magnet coil		0.85 1.15
Auxiliary circuit:		
Product function		
Parameterizable outputs		Yes
Number of inputs		
• safety-related		0
• non-safety-related		0
Number of outputs		
 as contact-affected switching element safety- related 		
— 1-channel		8
— 2-channel		0
 as contact-less semiconductor switching element 		
— safety-related 2-channel		0
— non-safety-related 2-channel		0
• for testing contact-based sensors		0
Short-circuit:		
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
Installation/ mounting/ dimensions:		
Mounting type		standard rail
Width	mm	45
Height	mm	111

Depth	mm	124
Connections/ Terminals:		
Product function removable terminal for auxiliary and control circuit		Yes
Type of 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 core end processing 	mm²	0.5 2.5

Certificates/ approvals:

General Product Approval

EMC













Functional Safety/S Machinery	Safety of	Test Certificates	other		
Type Examination	other	Special Test	Confirmation	Environmental	Declaration of
Certificate		Certificate		Confirmations	Conformity

Safety related data:		
Safety Integrity Level (SIL) acc. to IEC 61508		SIL3
Performance level (PL) acc. to EN ISO 13849-1		е
Category acc. to EN 954-1		4
PFHD with high demand rate acc. to EN 62061	1/h	0.000000072
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	1/y	0.000044
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe

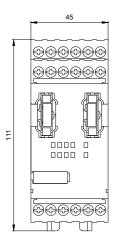
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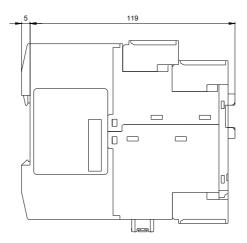
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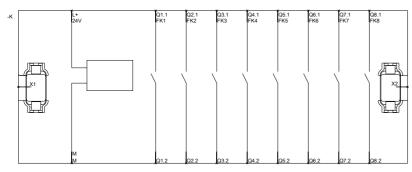
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