SIEMENS

Data sheet

3RK3221-1AA10



SIRIUS, EXPANSION MODULE 3RK32 FOR MODULAR SAFETY SYSTEM 3RK3 2/4 F-DI, 1/2 F-DO, 24VDC/1A 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 2/4 F-DI 1/2 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		2 kV (power ports)	
61000-4-4			
Conducted interference due to conductor-earth surge		2 kV	
acc. to IEC 61000-4-5	_		
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 61000-4-2		10 V/m, 3 V/m, 1 V/m	
	V	4 000	
Surge voltage resistance Rated value	-		
Insulation voltage Rated value	V	300	

Equipment marking acc. to DIN 40719 extended		К
according to IEC 204-2 acc. to IEC 750		
Equipment marking acc. to DIN EN 61346-2		К
Product function		
 EMERGENCY OFF function 		Yes
 protective door monitoring 		Yes
 evaluation: electro-sensitive protective equipment 		Yes
 evaluation: selector switch 		Yes
 Pressure-sensitive mat monitoring 		Yes
 evaluation: two-hand operator 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 magnet coil		0.85 1.15
Auxiliary circuit:		
Product function		
 Parameterizable outputs 		Yes
Number of inputs		
 safety-related 		4
 non-safety-related 		0
Number of outputs	-	
 as contact-affected switching element safety- related 		
— 1-channel		2
— 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 		2
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
nstallation/ 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		
Type of electrical connection for auxiliary and control current circuit			screw-ty	pe terminals	
Connectable conductor cross-sec contacts	ction for auxiliary				
 single or multi-stranded 		mm²	0.5 4		
 finely stranded 					
— with core end processi	ng	mm²	0.5 2.	5	
Certificates/ approvals:					
General Product Approval					EMC
	GOST	(EHC	С-тіск
Functional Safety/Safety of	Test	oth			

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

other



Profibus

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	0.000000038	
Average probability of failure on demand (PFDavg) with low demand rate acc. to IEC 61508	1/y	0.0000059	
T1 value for proof test interval or service life acc. to IEC 61508	У	20	
Protection against electrical shock		finger-safe	
Further information			

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

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

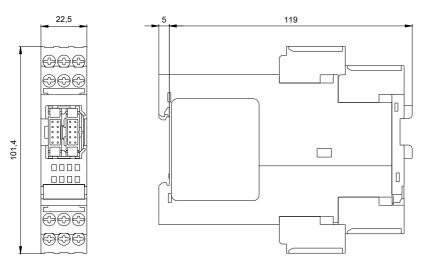
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

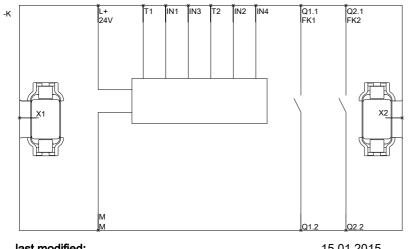
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http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en&mlfb=3RK32211AA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RK32211AA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK32211AA10&lang=en





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