SIEMENS

Product data sheet



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		
Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		к		
Item designation / 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:				
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:	_			
Type of the safety-related wiring				
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

NH Typ 3NA, DIAZED Typ 5SB, NEOZED Typ 5SE

Installation/mounting/dimensio	ns:				
Type of mounting			standard rail		
Width		mm	22.5		
Height		mm	102		
Depth		mm	124		
Connections:					
Product function / removable termin circuit	nal for auxiliary and control		Yes		
Design of the electrical connection current circuit	/ for auxiliary and control		screw-type terminals		
Conductor cross-section that can b contact	e connected / for auxiliary				
• solid		mm²	0.5 4		
 finely stranded 					
 with conductor end processing 		mm²	0.5 2.5		
Certificates/approvals:					
General Product Approval	General Product Approval		Functional Safety / Safety of Machinery		
		C-TICK		other	
Test Certificates Shipping Ap	oproval other				
Special Test Certificate	Confirmation	Declaration of Conformity	f PROFO Profibus	Environmental Confirmations	
Safety:					
Safety Integrity Level (SIL) / accord	ing to IEC 61508		SIL3		
Performance level (PL) / according to ISO 13849-1			е		
Category / according to EN 954-1	Category / according to EN 954-1		4		
Probability of dangerous failure per demand rate / according to EN 6206	bability of dangerous failure per hour (PFHD) / with high nand rate / according to EN 62061		0.0000000189		
Average probability of failure on demand (PFDavg)			0.00000429 1/y		
T1 value / for proof test interval or s 61508	service life / according to IEC	а	20		
Protection against electrical shock			finger-safe		
Further information:					

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

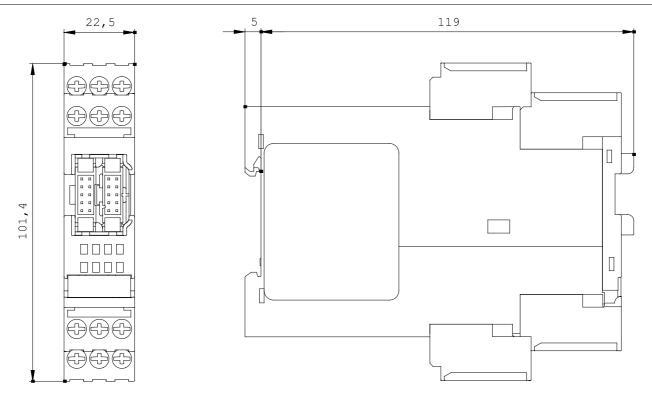
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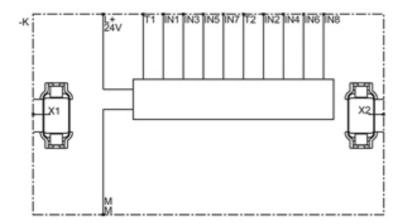
http://www.siemens.com/industrial-controls/mall

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





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