SIEMENS

Product data sheet



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			
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	4,000
Insulation voltage / rated value	V	300
Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		к
Item designation / according to DIN EN 61346-2		κ
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		Yes
Number of inputs		
safety-related		4
not 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
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/mou	nting/dimensions:				
Type of mounting				standard rail	
Width			mm	22.5	
Height			mm	102	
Depth			mm	124	
Connections:					
Product function / removable terminal for auxiliary and control circuit				Yes	
Design of the electrical connection / for auxiliary and control current circuit				screw-type terminals	
Conductor cross-s	section that can be conne	ected / for auxiliary			
• solid	• solid			0.5 4	
 finely stranded 					
 with conduct 	with conductor end processing			0.5 2.5	
Certificates/app	rovals:				
General Product	Approval			EMC	
	SP	GOST		C-TICK	
Functional Safety / Safety of Machinery Test Certificates			Shipping A		
	<u>other</u>	<u>Special Test</u> Certificate	RMRS		
other					
<u>Confirmation</u>	Declaration of Conformity	Profibus	Environmen Confirmatior		
Safety:					
Safety Integrity Level (SIL) / according to IEC 61508			SIL3		
Performance level (PL) / according to ISO 13849-1			e		
Category / accordi	Category / according to EN 954-1			4	
Probability of dangerous failure per hour (PFHD) / with high demand rate / according to EN 62061		1/h	0.0000000379		
Average probability of failure on demand (PFDavg)				0.00000585 1/y	
T1 value / for proof test interval or service life / according to IEC		а	20		

Further information:

Protection against electrical shock

61508

finger-safe

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

Industry Mall (Online ordering system)

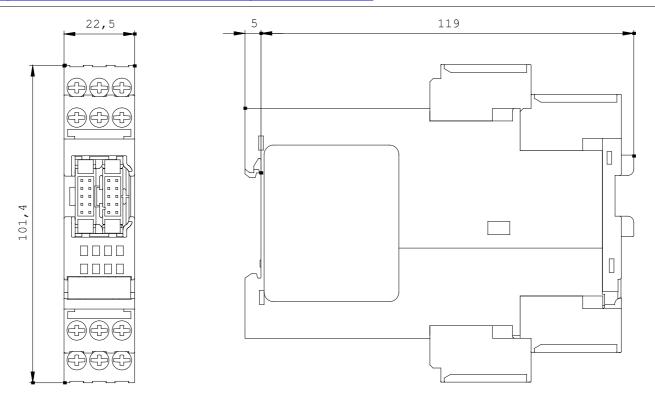
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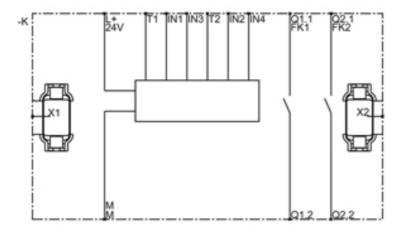
Cax online generator:

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RK3221-1AA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK3221-1AA10





last change:

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