SIEMENS

Product data sheet



SIRIUS,

CENTRAL UNIT 3RK3 ASISAFE EXTENDED FOR MODULAR SAFETY SYSTEM 3RK3 2/4F-DI,4DI,1F-RO,1F-DO,24V DC MONITORING OF ASI SLAVES, CONTROL OF 10 SAFE OUTPUTS ON AS-I BUS PARAMETERIZABLE VIA SW MSS ES WIDTH 45MM SCREW TERMINAL UP TO SIL3 (IEC 61508) UP TO PERFORMANCE LEVEL E (ISO 13849-1) 2 EXPANSION MODULES CAN BE CONNECTED

General technical data:		
product brand name		SIRIUS
Product designation		Modular Safety System 3RK3
Design of the product		Central unit - ASIsafe
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 operating	°C	-20 +60
during storage	°C	-40 +85
during transport	°C	-40 +85
Relative humidity		
during operating phase	%	95 10
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV (power ports) / 1 kV (signal 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
Impulse voltage resistance / rated value	V	2,500
Insulation voltage / rated value	V	300
Reference code / according to DIN EN 61346-2		К
Product function	-	
EMERGENCY STOP function		Yes
protective door monitoring		Yes
protective door monitoring with tumbler		Yes
muting, 2 sensor parallel		Yes
muting, 4 sensor parallel		Yes
muting, 4 sensor sequential		Yes
monitoring parameterizable		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
Protocol / optional / is supported / PROFIBUS DP protocol		Yes
• comment		when using the DP interface module; 64 bit cyclical data

Control circuit:		
Type of voltage		DC
Control supply voltage / 1 / for DC / rated value	V	24

Yes
Yes
4
4
0
1
1
0

• to the test of contact afflicated sensors

2

Functional Safety / Safety of Machinery

other

Installation/mounting/dimensions:		
Mounting type		Snap-mounted to DIN rail or screw-mounted with additional push-in lug
Width	mm	45
Height	mm	111
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

VDE

Certificates/approvals:

General Product Approval









other



Declaration of Environmental Conformity

FAL

Confirmations

Safety:		
Safety Integrity Level (SIL) / according to IEC 61508		SIL CL 3
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	0.279999999999999997E-8
Average probability of failure on demand (PFDavg)		0.00017 1/y
T1 value / for proof test interval or service life / according to IEC 61508	а	20
Stop category / according to DIN EN 60204-1		0 / 1
Protection against electrical shock		finger-safe
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)

Further information:

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

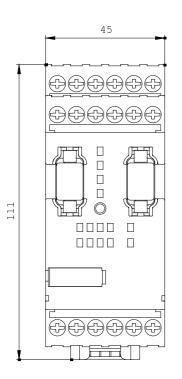
Industry Mall (Online ordering system)

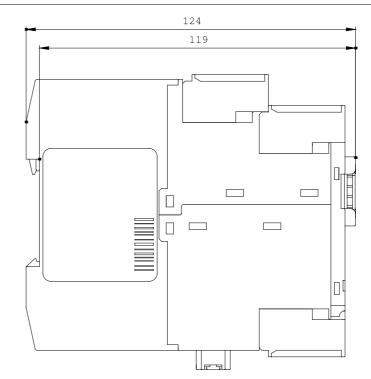
http://www.siemens.com/industrial-controls/mall

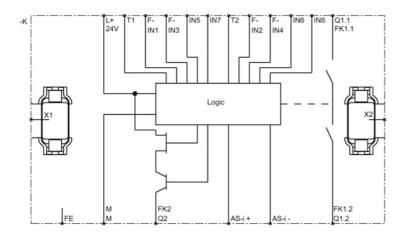
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RK3122-1AC00/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK3122-1AC00







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