



SIRIUS,
CENTRAL MOD. 3RK3 BASIC FOR MODULAR SAFETY
SYSTEM 3RK3 4/8 F-DI,
1 F-RO, 1 F-DO,
24V DC PARAMETERIZABLE VIA SW MSS ES 45MM
WIDE 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		central module - basic
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
Item designation / according to DIN EN 61346-2		K
Product function • EMERGENCY STOP function • protective door monitoring • protective door monitoring with tumbler • muting, 2 sensor parallel • muting, 4 sensor parallel • muting, 4 sensor sequential • monitoring parameterizable • evaluation: contact-free acting protection device • evaluation: selector switch • step mat monitoring • evaluation: two-hand control panel • evaluation: enabling switch • monitored start-up		Yes Yes No No No No Yes Yes Yes Yes Yes Yes
Protocol / optional / will be supported / PROFIBUS DP protocol		Yes

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

Auxiliary circuit:		
Product function • inputs parameterisable • outputs parameterisable		Yes Yes
Number of inputs • safety-related • not safety-related		8 0
Number of outputs • as contact-affected switching element / safety-related • 1-channel • 2-channel • as contact-less semiconductor switching element • safety-related / 2-channel • not safety-oriented / 2-channel • to the test of contact afflicted sensors		0 1 1 0 2

Installation/mounting/dimensions:

Type of mounting		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

Certificates/approvals:**General Product Approval****EMC**

CCC



CSA



GOST



UL



C-TICK

Functional Safety / Safety of Machinery**Test Certificates****Shipping Approval**

VDE

[other](#)[Special Test Certificate](#)

RMRS

other[Confirmation](#)[Declaration of Conformity](#)

Profibus

[Environmental Confirmations](#)**Safety:**

Safety Integrity Level (SIL) / according to IEC 61508		SIL CL 3
Performance level (PL) / according to ISO 13849-1		e
Category / according to EN 954-1		4
Probability of dangerous failure per hour (PFHD) / with high demand rate / according to EN 62061	1/h	0.514E-8
Average probability of failure on demand (PFDavg)		0.0000128 1/y
T1 value / for proof test interval or service life / according to IEC 61508	a	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>

Cax online generator:

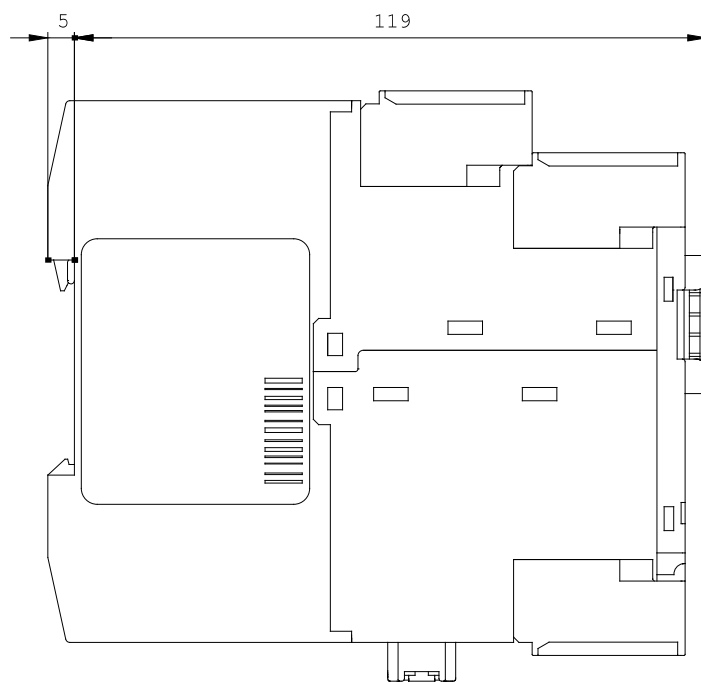
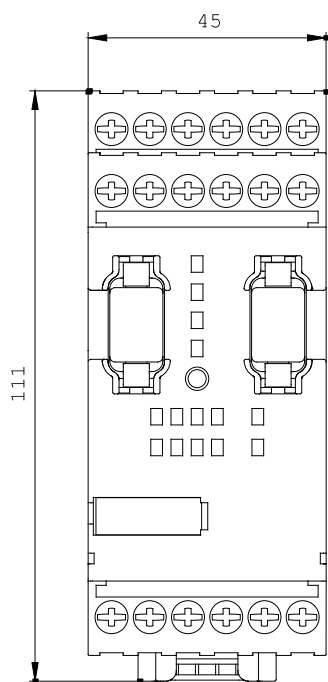
<http://www.siemens.com/cax>

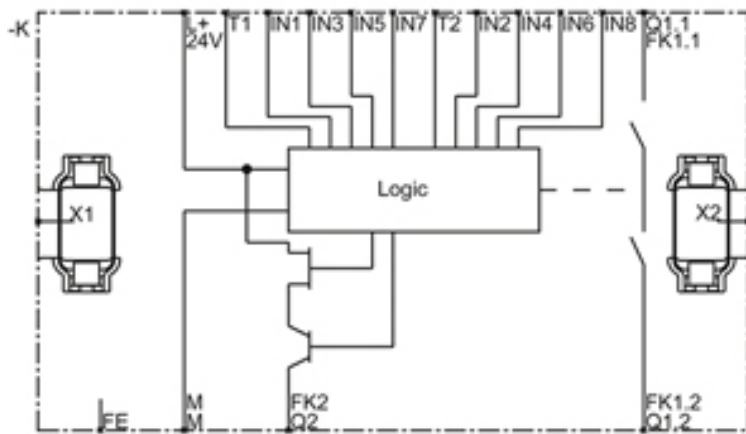
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RK3111-1AA10/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK3111-1AA10





last change:

Feb 18, 2013