SIEMENS

Data sheet   3RK3321-2AA10

SIRIUS, EXPANSION MODULE 3RK33 FOR 3RK3
MODULAR SAFETY SYSTEM 8 DI, 24V DC
PARAMETERIZABLE VIA SW MSS ES 22.5MM WIDTH
SPRING-LOADED TERMINAL WITHOUT
CONNECTING CABLE

General technical data:		
product brand name		SIRIUS
Product designation		Modular Safety System 3RK3
Design of the product		Expansion module 8 DI
Protection class IP		IP20
Shock resistance		15g / 11 ms
Degree of pollution		3
mounting position		vertical
Installation altitude at height above sea level maximum	m	2 000
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 61000-4-4		2 kV (power ports)
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
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 61000-4-3		10 V/m, 3 V/m, 1 V/m
Surge voltage resistance Rated value	V	500
Insulation voltage Rated value	V	50

Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Equipment marking acc. to DIN EN 61346-2		K
Product function		
• EMERGENCY OFF function		No
• protective door monitoring		No
• evaluation: electro-sensitive protective equipment		No
• evaluation: selector switch		No
• Pressure-sensitive mat monitoring		No
• evaluation: two-hand operator panel		No
• evaluation: enabling switch		No
• 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		No
Number of inputs		
• safety-related		0
• non-safety-related		8
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
— non-safety-related 2-channel		0
• for testing contact-based sensors		0

Installation/ mounting/ dimensions:

Mounting type		standard rail
Width	mm	22.5
Height	mm	105
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		spring-loaded terminals
Connectable conductor cross-section for auxiliary contacts		
• single or multi-stranded	mm²	0.25 ... 1.5
• finely stranded		
— with core end processing	mm²	0.25 ... 1.5
— without core end processing	mm²	0.25 ... 1.5

Certificates/ approvals:

General Product Approval		EMC	Functional Safety/Safety of Machinery
			other
CSA	GOST	UL	EAC	C-TICK	

Declaration of Conformity	Test Certificates	other
CE EG-Konf.	Special Test Certificate	Confirmation Environmental Confirmations

Safety related data:

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
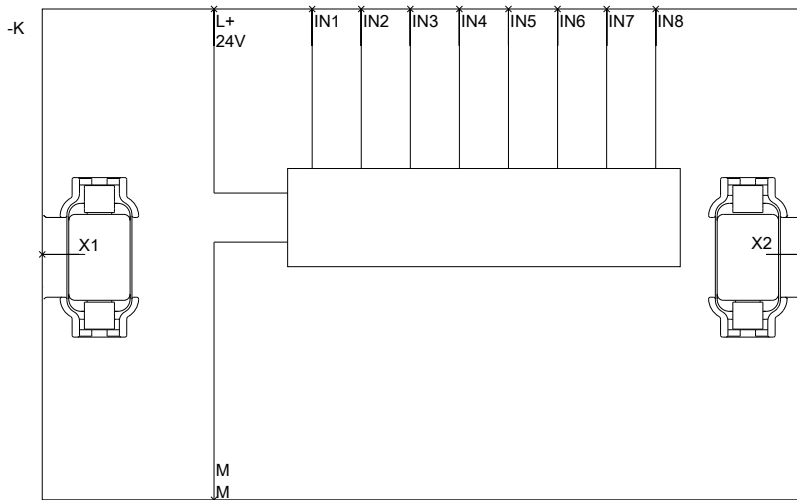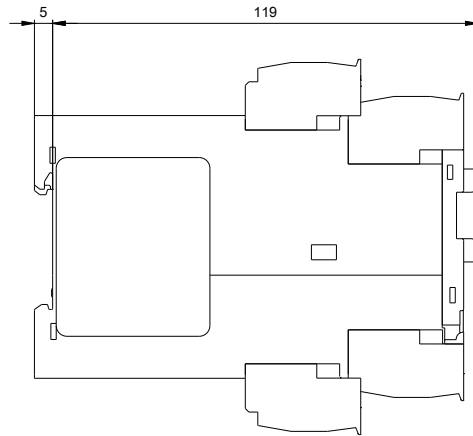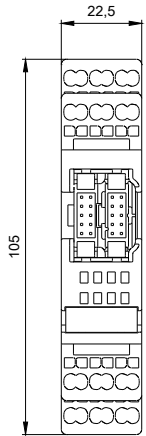
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK33212AA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RK33212AA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK33212AA10&lang=en

22,5

105

5

119

-K

L+
24V

IN1 IN2 IN3 IN4 IN5 IN6 IN7 IN8

X1

X2

M
M

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