



SIRIUS,  
EXPANSION MODULE 3RK33 FOR MODULAR SAFETY  
SYSTEM 3RK3 8DO,  
24V DC/0.5A PARAMETERIZABLE VIA SW MSS ES  
WIDTH 22.5MM SCREW-TYPE TERMINAL WITHOUT  
CONNECTING CABLE

#### General technical data:

<b>product brand name</b>		SIRIUS
<b>product designation</b>		Modular Safety System 3RK3
<b>Design of the product</b>		extension module 8 DO
<b>Protection class IP</b>		IP20
<b>Resistance against shock</b>		15g / 11 ms
<b>Degree of pollution</b>		3
<b>mounting position</b>		vertical
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature</b>		
• during storage	°C	-40 ... +85
• during operating	°C	-20 ... +60
• during transport	°C	-40 ... +85
<b>Relative humidity</b>		
• during operating phase	%	10 ... 95
<b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>		2 kV (power ports)
<b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>		2 kV
<b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b>		1 kV

<b>Electrostatic discharge / according to IEC 61000-4-2</b>		4 kV contact discharge / 8 kV air discharge
<b>Field-bound parasitic coupling / according to IEC 61000-4-3</b>		10 V/m, 3 V/m, 1 V/m
<b>Impulse voltage resistance / rated value</b>	V	500
<b>Insulation voltage / rated value</b>	V	50
<b>Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</b>		K
<b>Item designation / according to DIN EN 61346-2</b>		K
<b>Product function</b>		
• emergency stop function		No
• protective door monitoring		No
• evaluation: contact-free acting protection device		No
• evaluation: selector switch		No
• step mat monitoring		No
• evaluation: two-hand control panel		No
• evaluation: enabling switch		No
• monitored start-up		No

#### Control circuit:

<b>type of voltage</b>		DC
<b>Control supply voltage / 1 / for DC / rated value</b>	V	24
<b>Operating range factor control supply voltage rated value</b>		
• of the solenoid		0.85 ... 1.15

#### Auxiliary circuit:

<b>Type of the safety-related wiring</b>		
• outputs parameterisable		Yes
<b>Number of inputs</b>		
• safety-related		0
• not safety-related		0
<b>Number of outputs</b>		
• 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 afflicted sensors		0

#### Installation/mounting/dimensions:








<b>Type of mounting</b>		standard rail
<b>Width</b>	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-section that can be connected / for auxiliary contact		
<ul style="list-style-type: none"> <li>• solid</li> </ul>	mm <sup>2</sup>	0.5 ... 4
<ul style="list-style-type: none"> <li>• finely stranded</li> </ul>		
<ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul>	mm <sup>2</sup>	0.5 ... 2.5

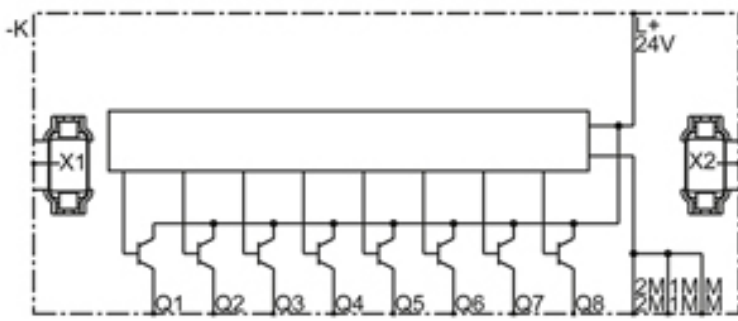
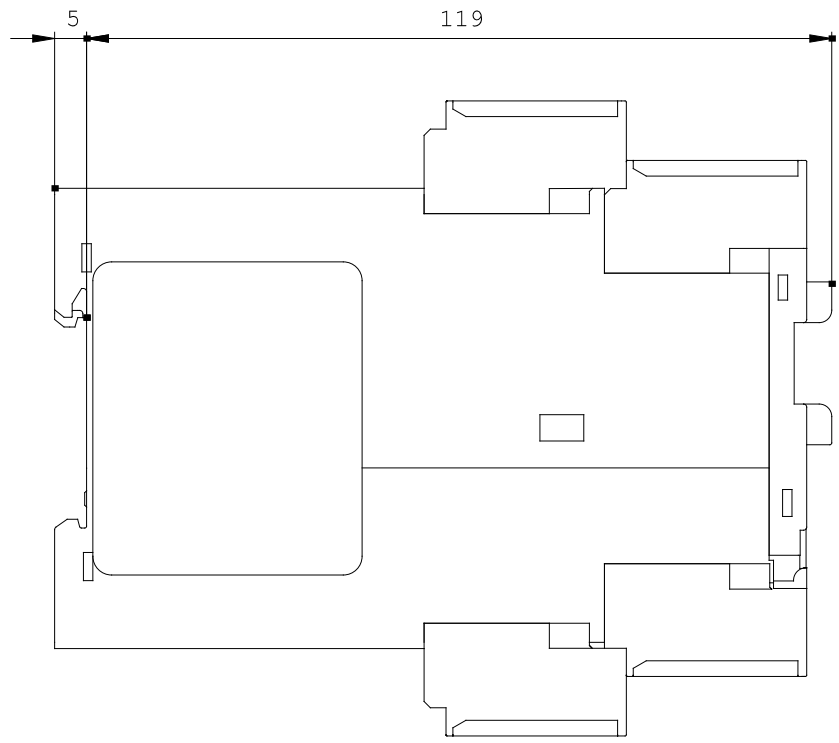
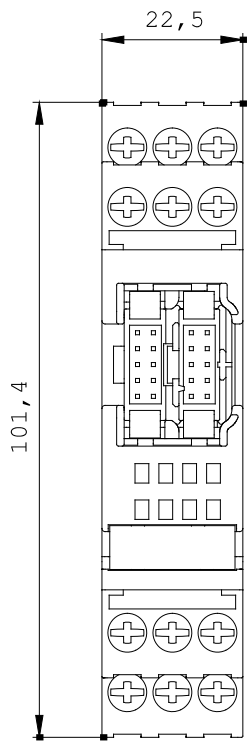
**Certificates/approvals:**

General Product Approval			EMC	Functional Safety / Safety of Machinery
 CCC	 CSA	 GOST	 UL	 C-TICK
<a href="#">Special Test Certificate</a>	 RMRS	<a href="#">Confirmation</a>	<a href="#">Declaration of Conformity</a>	 Profibus
<a href="#">Environmental Confirmations</a>				

Average probability of failure on demand (PFDavg)		
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/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/3RK3311-1AA10/all>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RK3311-1AA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK3311-1AA10)



last change:

Feb 18, 2013