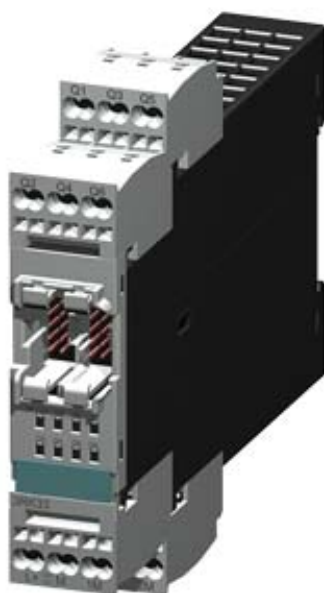




SIRIUS,  
EXPANSION MODULE 3RK33 FOR MODULAR SAFETY  
SYSTEM 3RK3 8DO,  
24V DC/0.5A PARAMETERIZABLE VIA SW MSS ES  
WIDTH 22.5MM SPRING-LOADED TERMINAL WITHOUT  
CONNECTING CABLE

### General technical data:

|                                                                                           |    |                            |
|-------------------------------------------------------------------------------------------|----|----------------------------|
| product brand name                                                                        |    | SIRIUS                     |
| product designation                                                                       |    | Modular Safety System 3RK3 |
| Design of the product                                                                     |    | extension module 8 DO      |
| 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                       |

|                                                                                                    |   |                                             |
|----------------------------------------------------------------------------------------------------|---|---------------------------------------------|
| <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                                          |

|                                                                  |   |               |
|------------------------------------------------------------------|---|---------------|
| <b>Control circuit:</b>                                          |   |               |
| <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 |

|                                                          |  |     |
|----------------------------------------------------------|--|-----|
| <b>Auxiliary circuit:</b>                                |  |     |
| <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   |

|                                          |    |               |
|------------------------------------------|----|---------------|
| <b>Installation/mounting/dimensions:</b> |    |               |
| <b>Type of mounting</b>                  |    | standard rail |
| <b>Width</b>                             | mm | 22.5          |

|        |    |     |
|--------|----|-----|
| Height | mm | 105 |
| 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 |                 | spring-loaded terminals |
| Conductor cross-section that can be connected / for auxiliary contact           |                 |                         |
| • solid                                                                         | mm <sup>2</sup> | 0.25 ... 1.5            |
| • finely stranded                                                               |                 |                         |
| • with conductor end processing                                                 | mm <sup>2</sup> | 0.25 ... 1.5            |
| • without conductor final cutting                                               | mm <sup>2</sup> | 0.25 ... 1.5            |

#### Certificates/approvals:

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

|                                                   |  |             |
|---------------------------------------------------|--|-------------|
| 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:

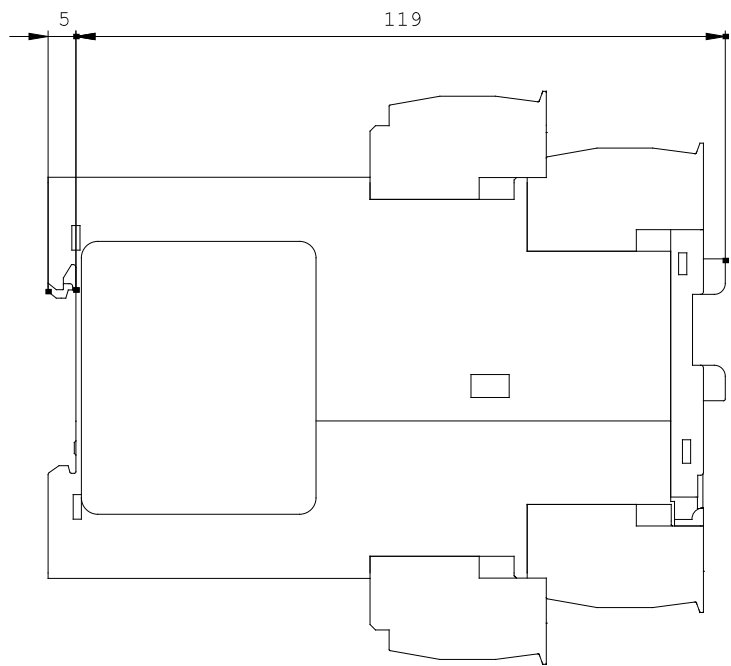
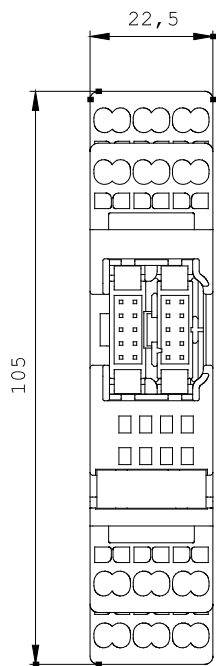
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK3311-2AA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RK3311-2AA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK3311-2AA10)



last change:

Feb 18, 2013