

AS-i SlimLine module Phased-out product !!! For further information, please contact our sales department S45, digital 4 DI/4 DQ, IP20 4 x inputs for 3-wire sensor 4 x output, 1 A, 24 V DC maximal 4 A for all outputs Screw terminals Overall width 45 mm

| General technical data                                                                     |    |                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| design of the product                                                                      |    | SlimLine S22.5 - I/O modules for operation in the control cabinet                                                                                                                           |
| design of the slave type                                                                   |    | standard slave                                                                                                                                                                              |
| Type                                                                                       |    | 4 inputs / 4 outputs                                                                                                                                                                        |
| I/O configuration                                                                          |    | 7                                                                                                                                                                                           |
| ID/ID2 code                                                                                |    | 0/F                                                                                                                                                                                         |
| protocol is supported AS-Interface protocol                                                |    | Yes                                                                                                                                                                                         |
| AS interface total current input max                                                       | mA | 270                                                                                                                                                                                         |
| operating voltage according to AS-Interface specification                                  | V  | 26.5 ... 31.6                                                                                                                                                                               |
| Addressing                                                                                 |    | front addressing socket                                                                                                                                                                     |
| type of electrical connection of the inputs and outputs                                    |    | screw-type terminals                                                                                                                                                                        |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 |    | A                                                                                                                                                                                           |
| reference code according to EN 61346-2                                                     |    | K                                                                                                                                                                                           |
| note                                                                                       |    | An external additional supply (AUX POWER) of 20 to 30 V DC is required for the supply of the output circuits. The additional supply must comply with VDE 0106 (PELV), protection class III. |
| Sensor supply                                                                              |    |                                                                                                                                                                                             |
| type of voltage supply for power supply                                                    |    | using AS-Interface                                                                                                                                                                          |
| input voltage                                                                              | V  | 20 ... 30                                                                                                                                                                                   |
| property of the sensor supply short-circuit and overload resistant                         |    | Yes                                                                                                                                                                                         |
| ampacity of the sensor supply for all inputs                                               |    |                                                                                                                                                                                             |
| • at ambient temperature 40 °C                                                             | mA | 200                                                                                                                                                                                         |
| Inputs                                                                                     |    |                                                                                                                                                                                             |
| number of digital inputs                                                                   |    | 4                                                                                                                                                                                           |
| type of connection technology                                                              |    | 2- and 3-wire technology                                                                                                                                                                    |
| Input circuit                                                                              |    | PNP transistor                                                                                                                                                                              |
| type of voltage of the input voltages                                                      |    | DC                                                                                                                                                                                          |
| Inputs switching level High min                                                            | V  | 10                                                                                                                                                                                          |
| input current at digital input                                                             |    |                                                                                                                                                                                             |
| • for signal <1> minimum                                                                   | mA | 5                                                                                                                                                                                           |
| • with signal <0> maximum                                                                  | mA | 1.5                                                                                                                                                                                         |
| Inputs sensor supply using AS-Interface                                                    |    | short-circuit and overload resistant                                                                                                                                                        |
| Outputs                                                                                    |    |                                                                                                                                                                                             |
| number of digital outputs                                                                  |    | 4                                                                                                                                                                                           |
| type of voltage of output voltages                                                         |    | DC                                                                                                                                                                                          |
| output voltage at DC at 24 V                                                               | V  | 22 ... 24                                                                                                                                                                                   |
| Outputs external power supply 24 V DC                                                      |    | using terminals: Terminal 13 = L+, Terminal 19 = M                                                                                                                                          |
| Outputs                                                                                    |    |                                                                                                                                                                                             |
| • aggregate current max                                                                    | A  | 4                                                                                                                                                                                           |
| ampacity                                                                                   |    |                                                                                                                                                                                             |
| • of the semiconductor output at DC-13 at 24 V                                             | A  | 1                                                                                                                                                                                           |
| type of switching output                                                                   |    | solid state                                                                                                                                                                                 |
| property of the output short-circuit proof                                                 |    | Yes                                                                                                                                                                                         |
| output Polarity reversal protection                                                        |    | built-in                                                                                                                                                                                    |
| Outputs                                                                                    |    |                                                                                                                                                                                             |
| • short-circuit protection                                                                 |    | built-in                                                                                                                                                                                    |
| • induction protection                                                                     |    | built-in                                                                                                                                                                                    |
| • watchdog                                                                                 |    | built-in                                                                                                                                                                                    |
| Status display                                                                             |    |                                                                                                                                                                                             |

|                                                                                                                                 |  |                                               |
|---------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|
| <ul style="list-style-type: none"> <li>• display of I/Os</li> <li>• AS-Interface</li> <li>• FAULT</li> </ul>                    |  | yellow LED<br>green LED<br>red LED            |
| <b>Assignment of data bits</b> <ul style="list-style-type: none"> <li>• D0</li> <li>• D1</li> <li>• D2</li> <li>• D3</li> </ul> |  | IN1/OUT1<br>IN2 /OUT2<br>IN3/OUT3<br>IN4/OUT4 |

#### Ambient conditions

|                                                                      |    |             |
|----------------------------------------------------------------------|----|-------------|
| <b>ambient temperature</b>                                           |    |             |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul> | °C | -25 ... +70 |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | °C | -40 ... +85 |
| <b>protection class IP</b>                                           |    | IP20        |

#### Mechanical data

|                                                                                                                                                                                                                                         |    |                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>width</b>                                                                                                                                                                                                                            | mm | 45                                                                                                                                                                              |
| <b>height</b>                                                                                                                                                                                                                           | mm | 106                                                                                                                                                                             |
| <b>depth</b>                                                                                                                                                                                                                            | mm | 86                                                                                                                                                                              |
| <b>fastening method</b>                                                                                                                                                                                                                 |    | 35 mm standard rail mounting or wall mounting using push-in lugs                                                                                                                |
| <b>Conductor cross-section</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded               <ul style="list-style-type: none"> <li>— with end sleeve</li> </ul> </li> <li>• AWG solid or stranded</li> </ul> |    | 1 x (0.5 - 4) mm <sup>2</sup> or 2 x (0.5 - 2.5) mm <sup>2</sup><br><br>1 x (0.5 - 2.5) mm <sup>2</sup> or 2 x (0.5 - 1.5) mm <sup>2</sup><br>AWG 2 x (20 - 14) mm <sup>2</sup> |

#### Certificates/ approvals

|                                 |            |
|---------------------------------|------------|
| <b>General Product Approval</b> | <b>EMV</b> |
|---------------------------------|------------|



[Confirmation](#)



|            |                          |                          |              |
|------------|--------------------------|--------------------------|--------------|
| <b>EMV</b> | <b>Test Certificates</b> | <b>Marine / Shipping</b> | <b>other</b> |
|------------|--------------------------|--------------------------|--------------|

[KC](#)

[Special Test Certificate](#)



[Confirmation](#)

|              |                    |                                 |
|--------------|--------------------|---------------------------------|
| <b>other</b> | <b>Environment</b> | <b>Industrial Communication</b> |
|--------------|--------------------|---------------------------------|

[Miscellaneous](#)

[Environmental Confirmations](#)



#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1400-1CE00-0AA2>

##### Cax online generator

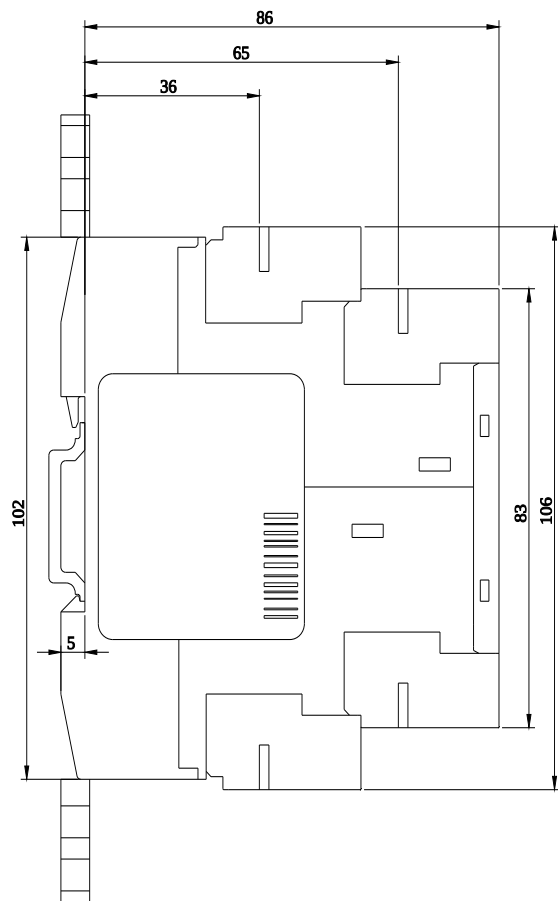
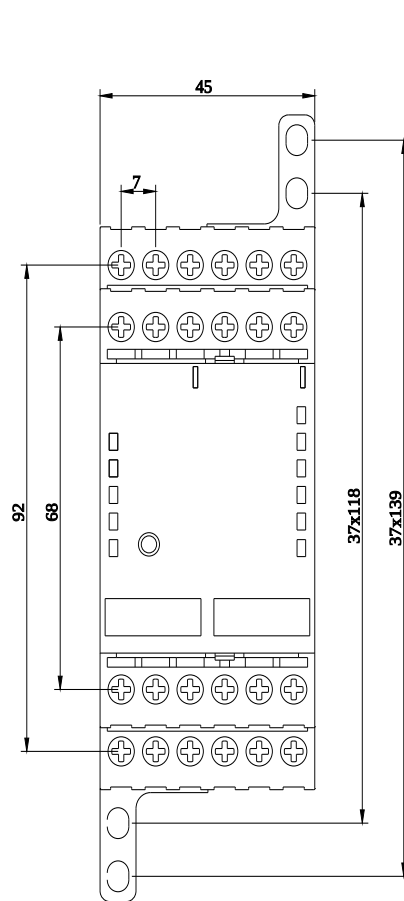
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1400-1CE00-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1400-1CE00-0AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1400-1CE00-0AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1400-1CE00-0AA2&lang=en)



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