



Figure similar

AS-i SlimLine module Phased-out product !!! For further information, please contact our sales department S45 digital, A/B slave 4 DI/3 DQ, IP20 4 x inputs for 3-wire sensor 3 x output, 2 A, 24 V DC maximal 4 A for all outputs spring-type 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                                                                   |    | A/B slave                                                                                                                                                                                   |
| Type                                                                                       |    | 4 inputs / 3 outputs                                                                                                                                                                        |
| I/O configuration                                                                          |    | 7                                                                                                                                                                                           |
| ID/ID2 code                                                                                |    | A/0                                                                                                                                                                                         |
| 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                                    |    | spring-loaded 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. |
| Note 1                                                                                     |    | detachment tool for spring-loaded terminal connection: See Accessories                                                                                                                      |

### Sensor supply

|                                                                    |    |                    |
|--------------------------------------------------------------------|----|--------------------|
| type of voltage supply for sensor 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             |   | 3                                                   |
| 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 = I +, Terminal 19 = M |

|                                                   |   |             |
|---------------------------------------------------|---|-------------|
| <b>Outputs</b>                                    |   |             |
| • aggregate current max                           | A | 4           |
| <b>ampacity</b>                                   |   |             |
| • of the semiconductor output at DC-13 at 24 V    | A | 2           |
| <b>type of switching output</b>                   |   | solid state |
| <b>property of the output short-circuit proof</b> |   | Yes         |
| <b>output Polarity reversal protection</b>        |   | built-in    |
| <b>Outputs</b>                                    |   |             |
| • short-circuit protection                        |   | built-in    |
| • induction protection                            |   | built-in    |
| • watchdog                                        |   | built-in    |
| <b>Status display</b>                             |   |             |
| • display of I/Os                                 |   | yellow LED  |
| • AS-Interface                                    |   | green LED   |
| • FAULT                                           |   | red LED     |
| <b>Assignment of data bits</b>                    |   |             |
| • D0                                              |   | IN1/OUT1    |
| • D1                                              |   | IN2 /OUT2   |
| • D2                                              |   | IN3/OUT3    |
| • D3                                              |   | IN4         |

#### Ambient conditions

|                            |    |             |
|----------------------------|----|-------------|
| <b>ambient temperature</b> |    |             |
| • during operation         | °C | -25 ... +70 |
| • during storage           | °C | -40 ... +85 |
| <b>protection class IP</b> |    | IP20        |

#### Mechanical data

|                                |    |                                                                  |
|--------------------------------|----|------------------------------------------------------------------|
| <b>width</b>                   | mm | 45                                                               |
| <b>height</b>                  | mm | 108                                                              |
| <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> |    |                                                                  |
| • solid                        |    | 2 x (0.25 - 1.5) mm <sup>2</sup>                                 |
| • finely stranded              |    |                                                                  |
| — with end sleeve              |    | 2 x (0.25 - 1) mm <sup>2</sup>                                   |
| — without end sleeve           |    | 2 x (0.25 - 1.5) mm <sup>2</sup>                                 |
| • AWG solid or stranded        |    | AWG 2 x (24 - 16) mm <sup>2</sup>                                |

#### Certificates/ approvals

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



[KC](#)

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



[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)



#### Further information

##### Information on the packaging

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

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RK2400-1FG00-0AA2>

Cax online generator

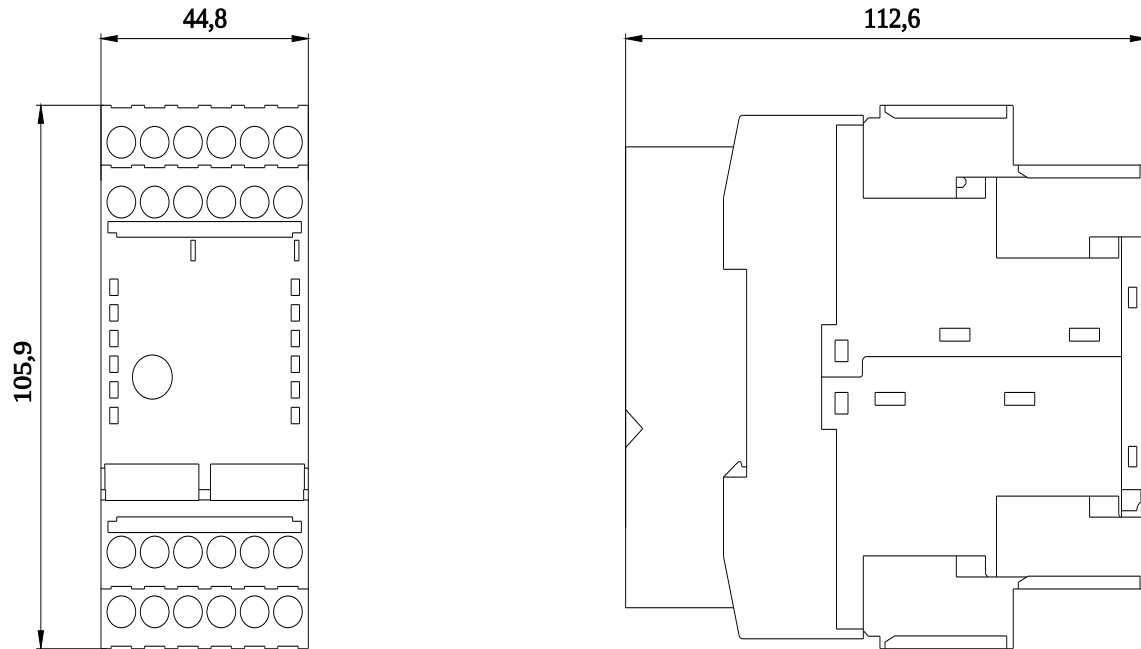
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1FG00-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1FG00-0AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2400-1FG00-0AA2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1FG00-0AA2&lang=en)



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