

Figure similar

AS-i compact module K60 digital A/B slave, 4 DI/3 DQ, IP67 4 x input, maximum 200 mA 3 x output, 2 A, 24 V DC maximal 4 A for all outputs 7 x M12 socket Y-II assignment Mounting plate 3RK1901-0CA00 must be ordered separately

| General technical data                                             |                                                                                                                                                                                             |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| design of the product                                              | digital I/O modules for operation in the field, IP67 - K60                                                                                                                                  |
| Type                                                               | 4 inputs / 3 outputs                                                                                                                                                                        |
| design of the slave type                                           | A/B slave                                                                                                                                                                                   |
| I/O configuration                                                  | 7                                                                                                                                                                                           |
| ID/ID2 code                                                        | A/2                                                                                                                                                                                         |
| Number I/O sockets                                                 | 7                                                                                                                                                                                           |
| type of electrical connection of the inputs and outputs            | M12 screw-type terminals                                                                                                                                                                    |
| AS interface total current input max                               | 270 mA                                                                                                                                                                                      |
| operating voltage according to AS-Interface specification          | 26.5 ... 31.6 V                                                                                                                                                                             |
| Ground terminal                                                    | PIN5 of each M12 socket is connected to the grounding wrist strap in the mounting plate using a pin                                                                                         |
| Addressing                                                         | front addressing socket                                                                                                                                                                     |
| Delivery note                                                      | the modules are delivered without mounting plate                                                                                                                                            |
| Note 2                                                             | 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                                                      | 20 ... 30 V                                                                                                                                                                                 |
| property of the sensor supply short-circuit and overload resistant | Yes                                                                                                                                                                                         |
| ampacity of the sensor supply for all inputs                       |                                                                                                                                                                                             |
| • at ambient temperature 40 °C                                     | 200 mA                                                                                                                                                                                      |
| 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                                    | 10 V                                                                                                                                                                                        |
| input current at digital input                                     |                                                                                                                                                                                             |
| • for signal <1> minimum                                           | 6 mA                                                                                                                                                                                        |
| • with signal <0> maximum                                          | 1.5 mA                                                                                                                                                                                      |
| Inputs                                                             |                                                                                                                                                                                             |
| • sensor supply using AS-Interface                                 | short-circuit and overload resistant                                                                                                                                                        |
| • socket assignment                                                |                                                                                                                                                                                             |
| — PIN 1                                                            | sensor supply L+                                                                                                                                                                            |
| — PIN 2                                                            | data input II                                                                                                                                                                               |
| — PIN 3                                                            | sensor supply L-                                                                                                                                                                            |
| — PIN 4                                                            | data input I                                                                                                                                                                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| — PIN 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ground terminal                                                                                                                                                                                                                                                                             |
| design of the pin assignment of the inputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Y-II assignment                                                                                                                                                                                                                                                                             |
| Outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |
| number of digital outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                                                                                                                                                                                                                                                                                           |
| type of voltage of output voltages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DC                                                                                                                                                                                                                                                                                          |
| Outputs external power supply 24 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | using black AS-Interface flat cable                                                                                                                                                                                                                                                         |
| ampacity of the semiconductor output at DC-13 at 24 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 A                                                                                                                                                                                                                                                                                         |
| Outputs aggregate current max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4 A                                                                                                                                                                                                                                                                                         |
| type of switching output                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PNP transistor                                                                                                                                                                                                                                                                              |
| design of the pin assignment of the outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Y-II assignment                                                                                                                                                                                                                                                                             |
| Outputs socket assignment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 = "-", 2/4 = output, 5 = ground terminal                                                                                                                                                                                                                                                  |
| property of the output short-circuit proof                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                                                                                                                                                                                                         |
| Outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"><li>• short-circuit protection</li><li>• induction protection</li><li>• watchdog</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <div>built-in</div> <div>built-in</div> <div>built-in</div>                                                                                                                                                                                                                                 |
| Assignment of the data bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                             |
| Assignment of data bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"><li>• socket</li><li>• socket 2</li><li>• socket 3</li><li>• socket 4</li><li>• socket 5</li><li>• socket 6</li><li>• socket 7</li><li>• socket 8</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      | <div>PIN 4 = IN1 (D0), PIN 2 = IN2 (D1)</div> <div>PIN 4 = IN2 (D1)</div> <div>PIN 4 = IN3 (D2) , PIN 2 = IN4 (D3)</div> <div>PIN 4 = IN4 (D3)</div> <div>PIN4 = OUT1 (D0), PIN2 = OUT2 (D1)</div> <div>PIN4 = OUT2 (D1)</div> <div>PIN4 = OUT3 (D2)</div> <div>not assigned (closed)</div> |
| Ambient conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                             |
| ambient temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"><li>• during operation</li><li>• during storage</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <div>-25 ... +85 °C</div> <div>-40 ... +85 °C</div>                                                                                                                                                                                                                                         |
| protection class IP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IP67                                                                                                                                                                                                                                                                                        |
| Display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |
| Status display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"><li>• display of I/Os</li><li>• display of Uaux</li><li>• display of AS-Interface/diagnostics</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <div>yellow LED</div> <div>green LED</div> <div>green/red LED</div>                                                                                                                                                                                                                         |
| Mechanical data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                             |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60 mm                                                                                                                                                                                                                                                                                       |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 152 mm                                                                                                                                                                                                                                                                                      |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29 mm                                                                                                                                                                                                                                                                                       |
| fastening method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | standard rail mounting/wall mounting using mounting plate for K60 compact module                                                                                                                                                                                                            |
| shock resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15g / 11 ms                                                                                                                                                                                                                                                                                 |
| Certificates/ approvals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                             |
| <div><div>General Product Approval</div><div>EMC</div><div>Declaration of Conformity</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                             |
| <div><div><div><a href="#">Confirmation</a></div><div><div>UL</div></div><div></div><div><div>RCM</div></div><div><div>EG-Konf.</div></div><div></div></div></div>                              |                                                                                                                                                                                                                                                                                             |
| Marine / Shipping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |
| <div><div><div>BUREAU<br/>VERITAS</div></div><div><div>LRS</div></div><div><div>PRS</div></div><div><div>DNV-GL</div></div><div><div>ASI</div></div><div><a href="#">Confirmation</a></div></div> |                                                                                                                                                                                                                                                                                             |
| other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                             |

#### Further information

**Siemens is working on the renewal of the current EAC certificates.**

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**Siemens has decided to exit the Russian market (see here).**

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

**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=3RK2400-1FQ03-0AA3>

**Cax online generator**

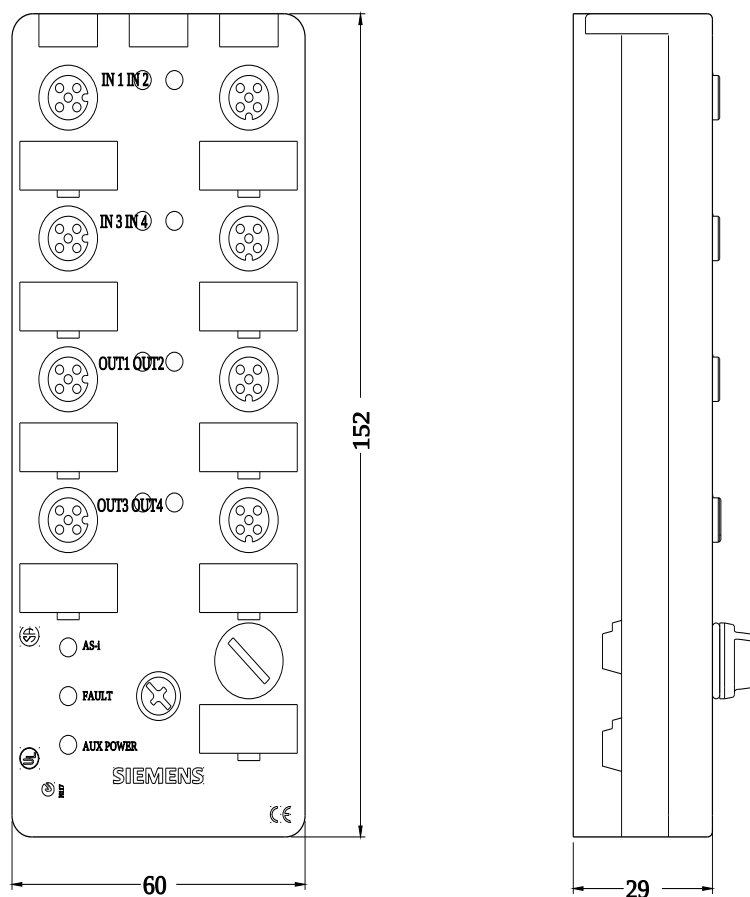
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1FQ03-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1FQ03-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2400-1FQ03-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1FQ03-0AA3&lang=en)



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