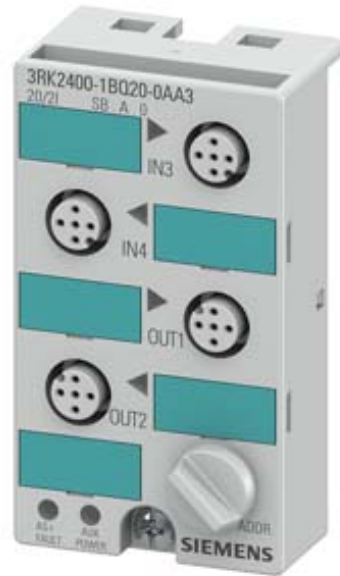


AS-i compact module K45 digital A/B slave, 2 DI/2 DQ, IP67 2 x input, maximum 200 mA 2 x output, 2 A 24 V DC maximal 3 A for all outputs 4 x M12 socket Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately



General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	2 outputs / 2 inputs
Design of the slave type	A/B slave
I/O configuration	B
ID/ID2 code	A/0
Number I/O sockets	4
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 spezifikation	26.5 ... 31.6 V
Ground terminal	Using PIN5 on the M12 sockets. Outgoing via flat tab sleeve (2.8 x 0.8 mm form A)
Addressing	front addressing socket
AS interface Connection Polarity reversal protection	built-in
Delivery note	the modules are delivered without mounting plate
Note 1	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	16.5 ... 30 V
Property of the sensor supply Short-circuit and overload resistant	Yes
Ampacity of the sensor supply for all inputs	200 mA
<ul style="list-style-type: none"> <li>at ambient temperature 40 °C</li> </ul>	

Inputs		
Number of digital inputs	2	
Type of connection	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	6 mA 1.5 mA	
<ul style="list-style-type: none"> <li>for signal &lt;1&gt; minimum</li> <li>with signal &lt;0&gt; maximum</li> </ul>		
Inputs sensor supply using AS-Interface	short-circuit and overload resistant	
Inputs socket assignment	sensor supply L+ data input sensor supply L- data input ground terminal	
<ul style="list-style-type: none"> <li>PIN 1</li> <li>PIN 2</li> <li>PIN 3</li> <li>PIN 4</li> <li>PIN 5</li> </ul>		
Design of the pin assignment of the inputs		standard assignment

Outputs	
Number of digital outputs	2
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	3 A
<ul style="list-style-type: none"> <li>max</li> </ul>	
Type of switching output	PNP transistor
Design of the pin assignment of the outputs	standard assignment
Outputs socket assignment	3 = "-", 4 = output, 5 = ground terminal
Property of the output Short-circuit proof	Yes
Outputs	built-in built-in built-in
<ul style="list-style-type: none"> <li>short-circuit protection</li> <li>induction protection</li> <li>watchdog</li> </ul>	

Display	
Status display	

- display of I/Os
- display of Uaux
- display of AS-Interface/diagnostics

yellow LED  
green LED  
green/red dual LED

### Assignment of the data bits

#### Assignment of data bits

- socket
- socket 2
- socket 3
- socket 4

PIN 4/2 = IN3 (D2)  
PIN 4/2 = IN4 (D3)  
PIN 4 = OUT1 (D0)  
PIN 4 = OUT2 (D1)

### Ambient conditions

#### Ambient temperature

- during operation
- during storage

-25 ... +85 °C  
-40 ... +85 °C

#### Protection class IP

IP67

### Mechanical data

#### Width

45 mm

#### Height

80 mm

#### Depth

30 mm

#### Mounting type

standard rail mounting/wall mounting using mounting plate for K45 compact module

### Certificates/ approvals

#### General Product Approval



CSA



UL



RCM



EG-Konf.

#### Declaration of Conformity

[Miscellaneous](#)

#### Shipping Approval



ABS



BUREAU  
VERITAS



LRS



PRS



RMRS



ASi

#### other

#### other

[Confirmation](#)

[Miscellaneous](#)

### Further information

**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?mfb=3RK2400-1BQ20-0AA3>

**Cax online generator**

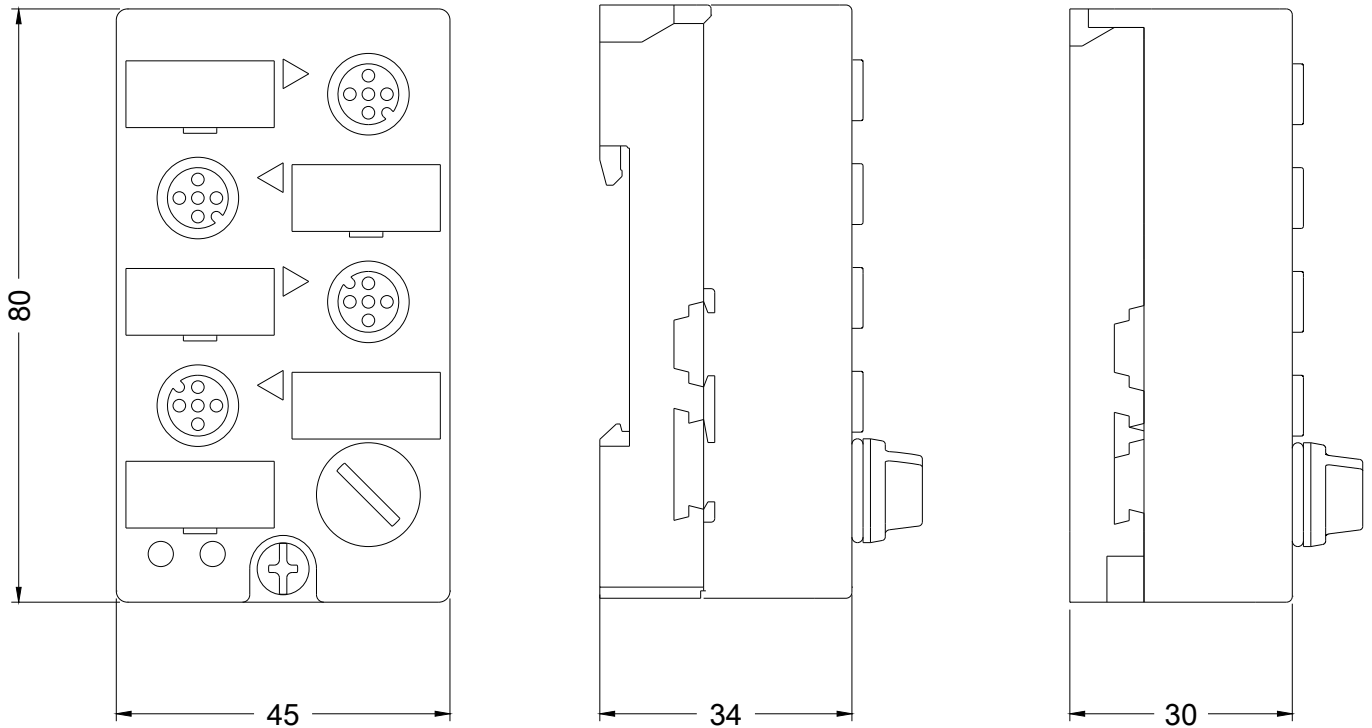
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK2400-1BQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1BQ20-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RK2400-1BQ20-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RK2400-1BQ20-0AA3&lang=en)



last modified:

03/06/2020