

AS-INTERFACE COMPACT MODULE K45, A/B SLAVE (SPEC. 3.0), IP67 DIGITAL, 4X(1DI/1DO), MAX. 200MA FOR ALL I/O IN TOTAL MOUNTING PLATE 3RK19012EA00 OR 3RK19012DA00 TO BE ORDERED SEPARATELY

General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	4 x (1 input / 1 output)
Design of the slave type	A/B slave (Spec. 3.0)
I/O configuration	7
ID/ID2 code	A/7
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
Total current for all inputs and outputs	200 mA
operating voltage according to AS-Interface specification	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	All K45 compact modules are delivered with stainless steel screws/sockets
Note 2	The maximum current carrying capacity per module for all inputs and all outputs is 200 mA.

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 <ul style="list-style-type: none"> <li>• at ambient temperature 40 °C</li> </ul>	200 mA

Inputs	
Number of digital inputs	4
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

<b>Input current at digital input</b>	
<ul style="list-style-type: none"> <li>• for signal &lt;1&gt; minimum</li> <li>• with signal &lt;0&gt; maximum</li> </ul>	<p>6 mA</p> <p>1.5 mA</p>
<b>Inputs sensor supply using AS-Interface</b>	short-circuit and overload resistant
<b>Inputs socket assignment</b>	
<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>	<p>sensor supply L+</p> <p>output</p> <p>sensor supply L-</p> <p>data input</p> <p>ground terminal</p>
<b>Design of the pin assignment of the inputs</b>	Y assignement

<b>Outputs</b>	
<b>Number of digital outputs</b>	4
<b>Type of voltage of output voltages</b>	DC
<b>Outputs external power supply 24 V DC</b>	not required
<b>Ampacity of the semiconductor output at DC-13 at 24 V</b>	0.2 A
<b>Outputs aggregate current</b>	
<ul style="list-style-type: none"> <li>• max</li> </ul>	0.2 A
<b>Type of switching output</b>	PNP transistor
<b>Design of the pin assignment of the outputs</b>	Y assignement
<b>Outputs socket assignment</b>	3 = "-", 2 = output, 5 = ground terminal
<b>Property of the output Short-circuit proof</b>	Yes
<b>Outputs</b>	
<ul style="list-style-type: none"> <li>• short-circuit protection</li> <li>• induction protection</li> <li>• watchdog</li> </ul>	<p>built-in</p> <p>built-in</p> <p>built-in</p>
<b>Status display</b>	
<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>	<p>yellow LED</p> <p>not required</p> <p>green/red dual LED</p>
<b>Assignment of data bits</b>	
<ul style="list-style-type: none"> <li>• socket</li> <li>• socket 2</li> <li>• socket 3</li> <li>• socket 4</li> </ul>	<p>PIN 4 = IN1 (D0), PIN 2 = OUT1 (D0)</p> <p>PIN 4 = IN2 (D1), PIN 2 = OUT2 (D1)</p> <p>PIN 4 = IN3 (D2), PIN 2 = OUT3 (D2)</p> <p>PIN 4 = IN4 (D3), PIN 2 = OUT4 (D3)</p>

<b>Ambient conditions</b>	
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	<p>-25 ... +85 °C</p> <p>-40 ... +85 °C</p>
<b>Protection class IP</b>	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	
AS-Interface certificate	yes
Approvals	UL and CSA requested

General Product Approval	Declaration of Conformity	Shipping Approval
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Shipping Approval	other
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[Confirmation](#)

[Environmental Confirmations](#)

other
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[Miscellaneous](#)

### Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2400-0GQ20-0AA3>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-0GQ20-0AA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-0GQ20-0AA3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK2400-0GQ20-0AA3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-0GQ20-0AA3&lang=en)

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