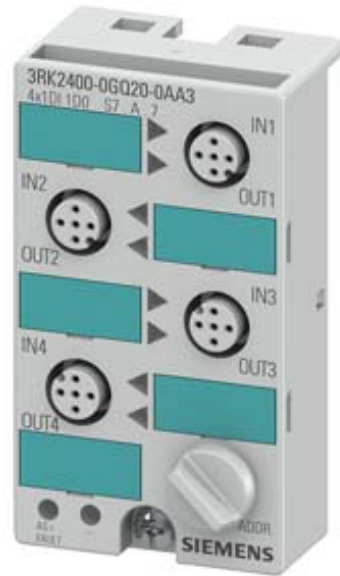


AS-i compact module K45 digital A/B slave 4 x (1 DI/1 DQ), IP67 4 x 1 input/1 output 4 x M12 socket Total current for all inputs and outputs max. 200 mA Supply I/O via U_ASI Mounting plate 3RK1901-2EA00 or 3RK1901-2DA00 is to be ordered separately



General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K45
Type	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 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"> at ambient temperature 40 °C 	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
Input current at digital input <ul style="list-style-type: none"> for signal <1> minimum with signal <0> maximum 	6 mA 1.5 mA
Inputs sensor supply using AS-Interface	short-circuit and overload resistant
Inputs socket assignment <ul style="list-style-type: none"> PIN 1 PIN 2 PIN 3 PIN 4 PIN 5 	sensor supply L+ output sensor supply L- data input ground terminal
Design of the pin assignment of the inputs	Y assignement

Outputs	
Number of digital outputs	4
Type of voltage of output voltages	DC
Outputs external power supply 24 V DC	not required
Ampacity of the semiconductor output at DC-13 at 24 V	0.2 A
Outputs aggregate current <ul style="list-style-type: none"> max 	0.2 A
Type of switching output	PNP transistor
Design of the pin assignment of the outputs	Y assignement
Outputs socket assignment	3 = "-", 2 = output, 5 = ground terminal
Property of the output Short-circuit proof	Yes
Outputs <ul style="list-style-type: none"> short-circuit protection induction protection watchdog 	built-in built-in built-in

Display

Status display	
<ul style="list-style-type: none"> display of I/Os display of Uaux display of AS-Interface/diagnostics 	<p>yellow LED</p> <p>not required</p> <p>green/red dual LED</p>

Assignment of the data bits

Assignment of data bits	
<ul style="list-style-type: none"> socket socket 2 socket 3 socket 4 	<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>












Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> during operation during storage 	<p>-25 ... +85 °C</p> <p>-40 ... +85 °C</p>
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			EMC	Declaration of Conformity	
 CSA	 UL		 RCM	 EG-Konf.	Miscellaneous
Shipping Approval					other
 ABS	 BUREAU VERITAS	 LRS	 PRS	 RMRS	 ASi
other					
Confirmation		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?mfb=3RK2400-0GQ20-0AA3>

Cax online generator

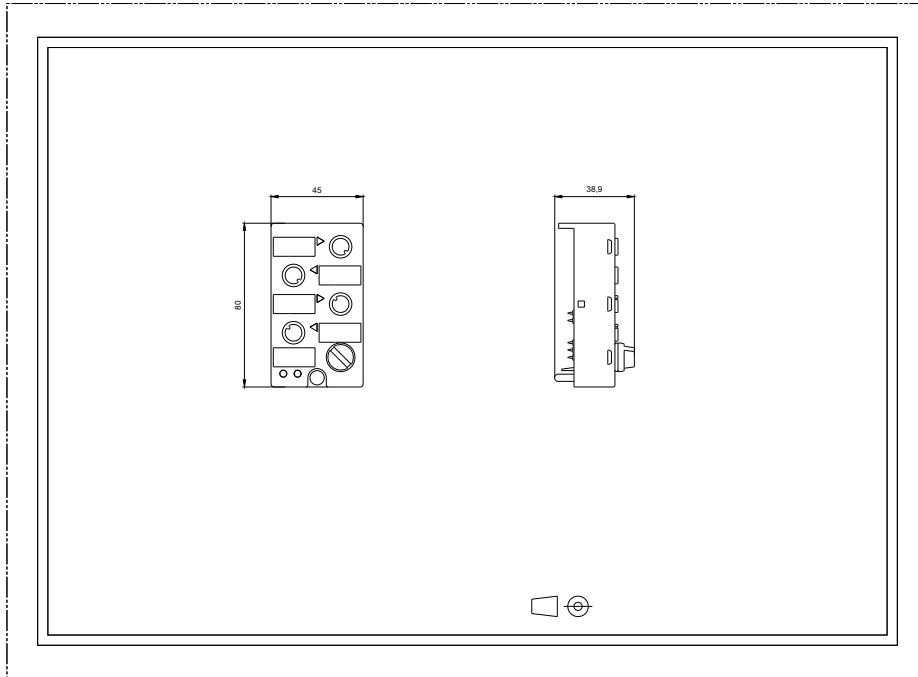
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK2400-0GQ20-0AA3>

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?mfb=3RK2400-0GQ20-0AA3&lang=en



last modified:

11/08/2019