

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
Design of the electrical connection / of the inputs and outputs		M12 screw-type terminals
AS interface / total current input / max	mA	270
Total current / for all inputs and outputs	mA	200
operating voltage • according to AS-Interface specification	V	26.5 ... 31.6
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 the sensor supply		using AS-Interface
Input voltage	V	20 ... 30
Characteristic feature of the sensor supply / short-circuit and overload resistant		Yes
Current carrying capacity / of the sensor supply / for all inputs • at ambient temperature 40 °C	mA	200

Inputs:

Number of digital inputs		4
Type of connection		2- and 3-wire technology
Input circuit		PNP transistor
Type of / input voltages		DC
Inputs / switching level High / min	V	10
Input current / at the digital input		
• for signal <1> / minimum	mA	6
• at signal <0> / maximum	mA	1.5
Inputs		
• sensor supply using AS-Interface		short-circuit and overload resistant
Inputs / socket assignment		
• PIN 1		sensor supply L+
• PIN 2		output
• PIN 3		sensor supply L-
• PIN 4		data input
• PIN 5		ground terminal
Design of the pin assignment / of the inputs		Y assignement

Outputs:

Number of digital outputs		4
Voltage type / of output voltages		DC
Outputs / external power supply 24 V DC		not required
Output current / at the digital output / for signal <1> / nominal value	mA	200
Outputs / aggregate current		
• max	A	0.2
Design of the switching output		PNP transistor
Design of the pin assignment / of the outputs		Y assignement
Outputs / socket assignment		3 = "-", 2 = output, 5 = ground terminal
Characteristic feature of the output / short-circuit protected		Yes
Outputs		
• short-circuit protection		built-in
• induction protection		built-in
• watchdog		built-in

Status display

• display of I/Os		yellow LED
• display of Uaux		not required
• display of AS-Interface/diagnostics		green/red dual LED

Assignment of data bits

• socket		PIN 4 = IN1 (D0), PIN 2 = OUT1 (D0)
• socket 2		PIN 4 = IN2 (D1), PIN 2 = OUT2 (D1)
• socket 3		PIN 4 = IN3 (D2), PIN 2 = OUT3 (D2)
• socket 4		PIN 4 = IN4 (D3), PIN 2 = OUT4 (D3)

Ambient conditions:

Ambient temperature		
• during operating	°C	-25 ... +85
• during storage	°C	-40 ... +85
Protection class IP		IP67

Mechanical design:

Width	mm	45
Height	mm	80
Depth	mm	30
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



Shipping Approval



other

[Confirmation](#)

[Declaration of
Conformity](#)

[other](#)

[Environmental
Confirmations](#)

Further information:

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

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

Industry Mall (Online ordering system)

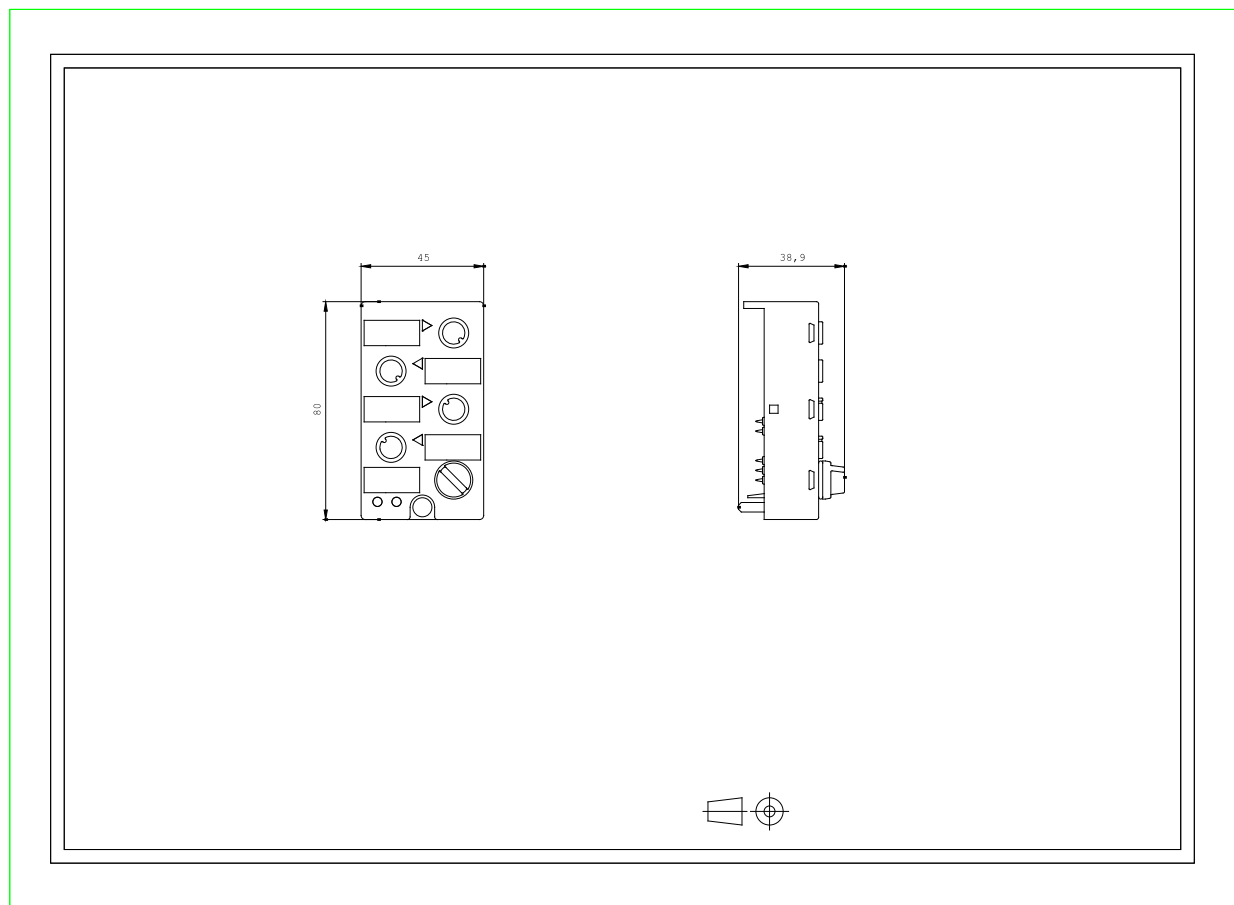
<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK2400-0GQ20-0AA3/all>



last change:

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