

AS-INTERFACE SLIMLINE MOD. S45,
DIGITAL, 4I/4O, POTENT.-FREE, IP20 4 X 1 INPUT,
200MA, PNP 4 X 1 OUTPUT, 1A, DC 24V SCREW-
TYPE TERMINAL CONNECT., MODULE WIDTH 45
MM

General technical data:

Design of the product		SlimLine S22.5 - I/O modules for operation in the control cabinet
Design of the slave type		standard slave
Type		4 inputs / 4 outputs
I/O configuration		7
ID/ID2 code		0/F
Protocol is supported AS-interface protocol		Yes
AS interface total current input max	mA	40
operating voltage according to AS-Interface specification	V	26.5 ... 31.6
Addressing		front addressing socket
Type of electrical connection of the inputs and outputs		screw-type terminals
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		A
Equipment marking acc. to DIN EN 61346-2		K
note		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.
Note 2		The module has four floating inputs and four floating switching outputs. An external additional supply of 20 to 30 V DC according to VDE 0106 (PELV) protection class III is required for the supply of the input and output circuits.

Sensor supply:

Type of voltage supply for power supply		via AUX POWER
Input voltage	V	20 ... 30
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 	mA	200

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	V	10
Input current at digital input <ul style="list-style-type: none"> for signal <1> minimum with signal <0> maximum 	mA mA	5 1.5

Outputs:

Number of digital outputs		4
Type of voltage of output voltages		DC
Output voltage for DC at 24 V	V	22 ... 24
Outputs external power supply 24 V DC		sensor supply: Terminal 13 = U_s+, Terminal 19 = U_s-; Actuator supply: Terminal 14 = L+, Terminal 20 ... 24 = M
Outputs <ul style="list-style-type: none"> aggregate current max 	A	4
Ampacity <ul style="list-style-type: none"> of the semiconductor output at DC-13 at 24 V 	A	1
Type of switching output		solid state
Property of the output Short-circuit proof		Yes
output Polarity reversal protection		built-in
Outputs <ul style="list-style-type: none"> short-circuit protection induction protection watchdog 		built-in built-in built-in
Status display <ul style="list-style-type: none"> display of I/Os AS-Interface FAULT 		yellow LED green LED red LED
Assignment of data bits <ul style="list-style-type: none"> D0 D1 D2 D3 		IN1/OUT1 IN2 /OUT2 IN3/OUT3 IN4/OUT4

Ambient conditions:

Ambient temperature		
• during operation	°C	-25 ... +70
• during storage	°C	-40 ... +85
Protection class IP		IP20

Mechanical data:

Width	mm	45
Height	mm	106
Depth	mm	86
Mounting type		35 mm standard rail mounting or wall mounting using push-in lugs
Conductor cross-section		
• solid		1 x (0.5 - 4) mm ² or 2 x (0.5 - 2.5) mm ²
• finely stranded		
— with end sleeve		1 x (0.5 - 2.5) mm ² or 2 x (0.5 - 1.5) mm ²
• AWG solid or stranded		AWG 2 x (20 - 14) mm ²

Certificates/ approvals:

AS-Interface certificate		yes (or requested for in case of new units)
Approvals		UL, CSA, shipbuilding (or requested for in case of new units)

General Product Approval

Shipping Approval



Shipping Approval

other



[Confirmation](#)

[Declaration of Conformity](#)

other

[Environmental Confirmations](#)

[other](#)

Further information

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

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

Industry Mall (Online ordering system)

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

Cax online generator

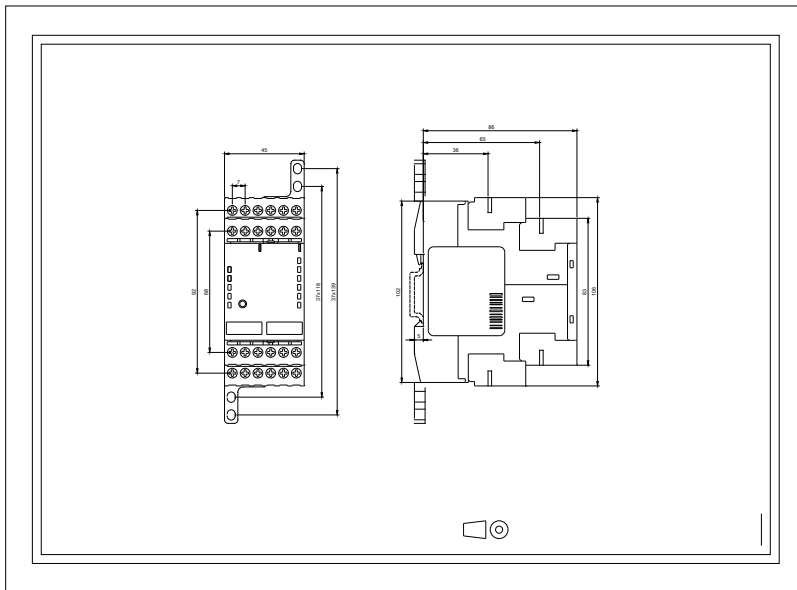
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK14023CE010AA2>

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

<http://support.automation.siemens.com/WW/view/en/3RK14023CE010AA2/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14023CE010AA2&lang=en>



last modified:

09.03.2015