

AS-INTERFACE SLIMLINE MOD. S45, DIGITAL, 4I/4O, 2/3-WIRE, IP20 4 X 1 INPUT, 200MA, PNP 4 X 1 OUTPUT, 1A, DC 24V CAGE-CLAMP, 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	270
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		spring-loaded 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 1		detachment tool for spring-loaded terminal connection: See Accessories

Sensor supply:		
Type of voltage supply for power supply		using AS-Interface
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 	mA	5
<ul style="list-style-type: none"> with signal <0> maximum 	mA	1.5
Inputs sensor supply using AS-Interface		short-circuit and overload resistant

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		using terminals: Terminal 13 = L+, Terminal 19 = 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 		built-in
<ul style="list-style-type: none"> induction protection 		built-in
<ul style="list-style-type: none"> watchdog 		built-in
Status display		
<ul style="list-style-type: none"> display of I/Os 		yellow LED
<ul style="list-style-type: none"> AS-Interface 		green LED
<ul style="list-style-type: none"> FAULT 		red LED
Assignment of data bits		
<ul style="list-style-type: none"> D0 		IN1/OUT1
<ul style="list-style-type: none"> D1 		IN2 /OUT2
<ul style="list-style-type: none"> D2 		IN3/OUT3
<ul style="list-style-type: none"> D3 		IN4/OUT4

Ambient conditions:

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

Mechanical data:

Width	mm	45
Height	mm	108
Depth	mm	86
Mounting type		35 mm standard rail mounting or wall mounting using push-in lugs
Conductor cross-section		
• solid		2 x (0.25 - 1.5) mm ²
• finely stranded		
— with end sleeve		2 x (0.25 - 1) mm ²
— without end sleeve		2 x (0.25 - 1.5) mm ²
• AWG solid or stranded		AWG 2 x (24 - 16) 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	Test Certificates	Shipping Approval
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[Special Test Certificate](#)



Shipping Approval	other
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[Declaration of Conformity](#)

other

[Environmental Confirmations](#)

[Confirmation](#)

[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

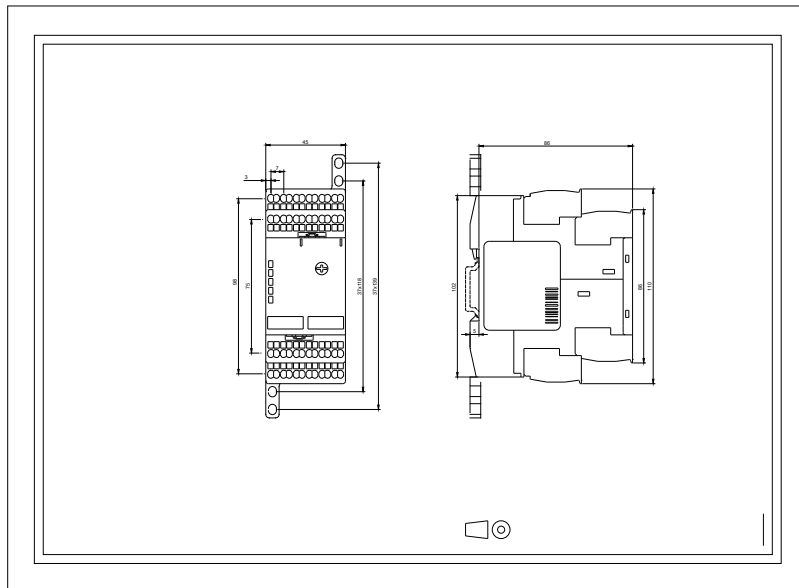
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RK14001CG000AA2>

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

<http://support.automation.siemens.com/WW/view/en/3RK14001CG000AA2/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14001CG000AA2&lang=en>



last modified:

09.03.2015