



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

Figure similar

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		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

<b>Note 2</b>		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.
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#### Sensor supply:

<b>Type of voltage supply for power supply</b>		via AUX POWER
<b>Input voltage</b>	V	20 ... 30
<b>Property of the sensor supply Short-circuit and overload resistant</b>		Yes
<b>Ampacity of the sensor supply for all inputs</b>		
<ul style="list-style-type: none"> <li>at ambient temperature 40 °C</li> </ul>	mA	200

#### Inputs:

<b>Number of digital inputs</b>		4
<b>Type of connection</b>		2- and 3-wire technology
<b>Input circuit</b>		PNP transistor
<b>Type of voltage of the input voltages</b>		DC
<b>Inputs switching level High min</b>	V	10
<b>Input current at digital input</b>		
<ul style="list-style-type: none"> <li>for signal &lt;1&gt; minimum</li> </ul>	mA	5
<ul style="list-style-type: none"> <li>with signal &lt;0&gt; maximum</li> </ul>	mA	1.5

#### Outputs:

<b>Number of digital outputs</b>		4
<b>Type of voltage of output voltages</b>		DC
<b>Output voltage for DC at 24 V</b>	V	22 ... 24
<b>Outputs external power supply 24 V DC</b>		sensor supply: Terminal 13 = U <sub>s+</sub> , Terminal 19 = U <sub>s-</sub> ; Actuator supply: Terminal 14 = L+, Terminal 20 ... 24 = M
<b>Outputs</b>		
<ul style="list-style-type: none"> <li>aggregate current max</li> </ul>	A	4
<b>Ampacity</b>		
<ul style="list-style-type: none"> <li>of the semiconductor output at DC-13 at 24 V</li> </ul>	A	1
<b>Type of switching output</b>		solid state
<b>Property of the output Short-circuit proof</b>		Yes
<b>output Polarity reversal protection</b>		built-in
<b>Outputs</b>		
<ul style="list-style-type: none"> <li>short-circuit protection</li> </ul>		built-in
<ul style="list-style-type: none"> <li>induction protection</li> </ul>		built-in
<ul style="list-style-type: none"> <li>watchdog</li> </ul>		built-in
<b>Status display</b>		
<ul style="list-style-type: none"> <li>display of I/Os</li> </ul>		yellow LED
<ul style="list-style-type: none"> <li>AS-Interface</li> </ul>		green LED
<ul style="list-style-type: none"> <li>FAULT</li> </ul>		red LED

<b>Assignment of data bits</b>		
• D0		IN1/OUT1
• D1		IN2 /OUT2
• D2		IN3/OUT3
• D3		IN4/OUT4

**Ambient conditions:**

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

**Mechanical data:**

<b>Width</b>	mm	45
<b>Height</b>	mm	108
<b>Depth</b>	mm	86
<b>Mounting type</b>		35 mm standard rail mounting or wall mounting using push-in lugs
<b>Conductor cross-section</b>		
• solid		2 x (0.25 - 1.5) mm <sup>2</sup>
• finely stranded		
— with end sleeve		2 x (0.25 - 1) mm <sup>2</sup>
— without end sleeve		2 x (0.25 - 1.5) mm <sup>2</sup>
• AWG solid or stranded		AWG 2 x (24 - 16) mm <sup>2</sup>

**Certificates/ approvals:**

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

## General Product Approval



CSA



GOST



UL



ABS



BUREAU  
VERITAS

## Shipping Approval



LRS



PRS



RINA



RMRS

## other

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### 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

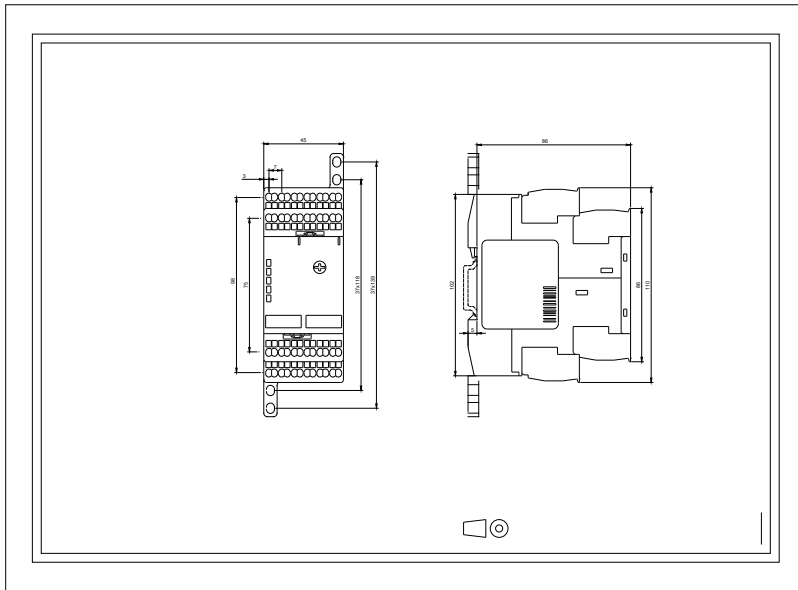
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK14023CG010AA2>

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

<http://support.automation.siemens.com/WW/view/en/3RK14023CG010AA2/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RK14023CG010AA2&lang=en>



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