

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 spezifikation	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
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 • 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 • 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 at 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 • aggregate current max	A	4
Ampacity • 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 • short-circuit protection		built-in

• induction protection • watchdog		built-in built-in
Status display • display of I/Os • AS-Interface • FAULT		yellow LED green LED red LED
Assignment of data bits • 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	108
Depth	mm	86
Mounting type		35 mm standard rail mounting or wall mounting using push-in lugs
Conductor cross-section • solid • finely stranded — with end sleeve — without end sleeve • AWG solid or stranded		2 x (0.25 - 1.5) mm ² 2 x (0.25 - 1) mm ² 2 x (0.25 - 1.5) mm ² 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	Functional Safety/Safety of Machinery	Declaration of Conformity	Shipping Approval
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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

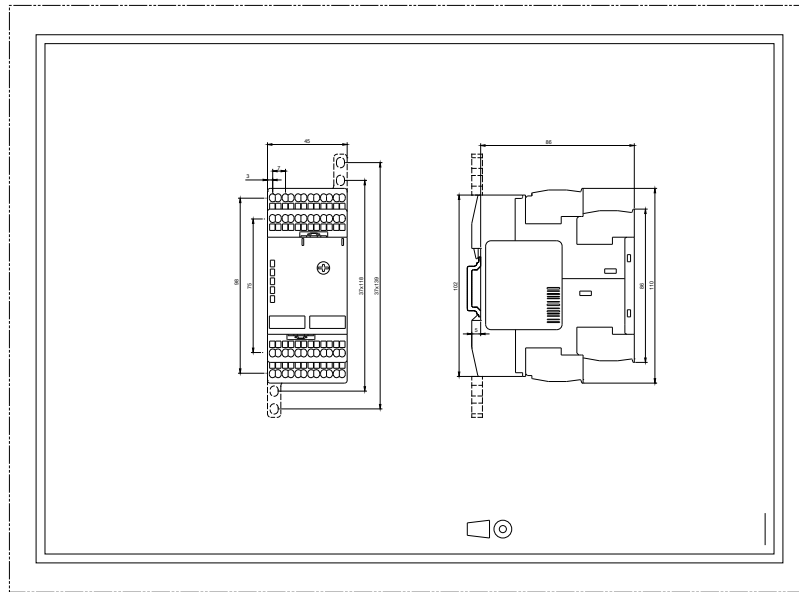
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1402-3CG01-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1402-3CG01-0AA2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1402-3CG01-0AA2&lang=en



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