

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 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	270
operating voltage • according to AS-Interface specification	V	26.5 ... 31.6
Addressing		front addressing socket
Design of the electrical connection / of the inputs and outputs		screw-type terminals
Reference code • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 • according to DIN EN 61346-2		A 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.

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	5
• at signal <0> / maximum	mA	1.5
Inputs / sensor supply using AS-Interface		short-circuit and overload resistant

Outputs:		
Number of digital outputs		4
Voltage type / of output voltages		DC
Output voltage / at 24 V		
• for DC	V	22 ... 24
Outputs / external power supply 24 V DC		using terminals: Terminal 13 = L+, Terminal 19 = M
Outputs		
• aggregate current / max	A	4
Current-carrying capacity		
• of the semiconductor output / at DC-13 / at 24 V	A	1
Design of the switching output		solid state
Characteristic feature of the output / short-circuit protected		Yes
output / Polarity reversal protection		built-in
Outputs		
• short-circuit protection		built-in
• induction protection		built-in
• watchdog		built-in

Status display		
• display of I/Os		yellow LED
• AS-Interface		green LED
• FAULT		red LED

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

Ambient conditions:		
Ambient temperature		
• during operating	°C	-25 ... +70
• during storage	°C	-40 ... +85

Protection class IP		IP20
---------------------	--	------

Mechanical design:

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 • finely stranded • with end sleeve • AWG / solid or stranded

1 x (0.5 - 4) mm² or 2 x (0.5 - 2.5) mm²

1 x (0.5 - 2.5) mm² or 2 x (0.5 - 1.5) mm²

AWG 2 x (20 - 14) mm²

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



[Special Test Certificate](#)

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

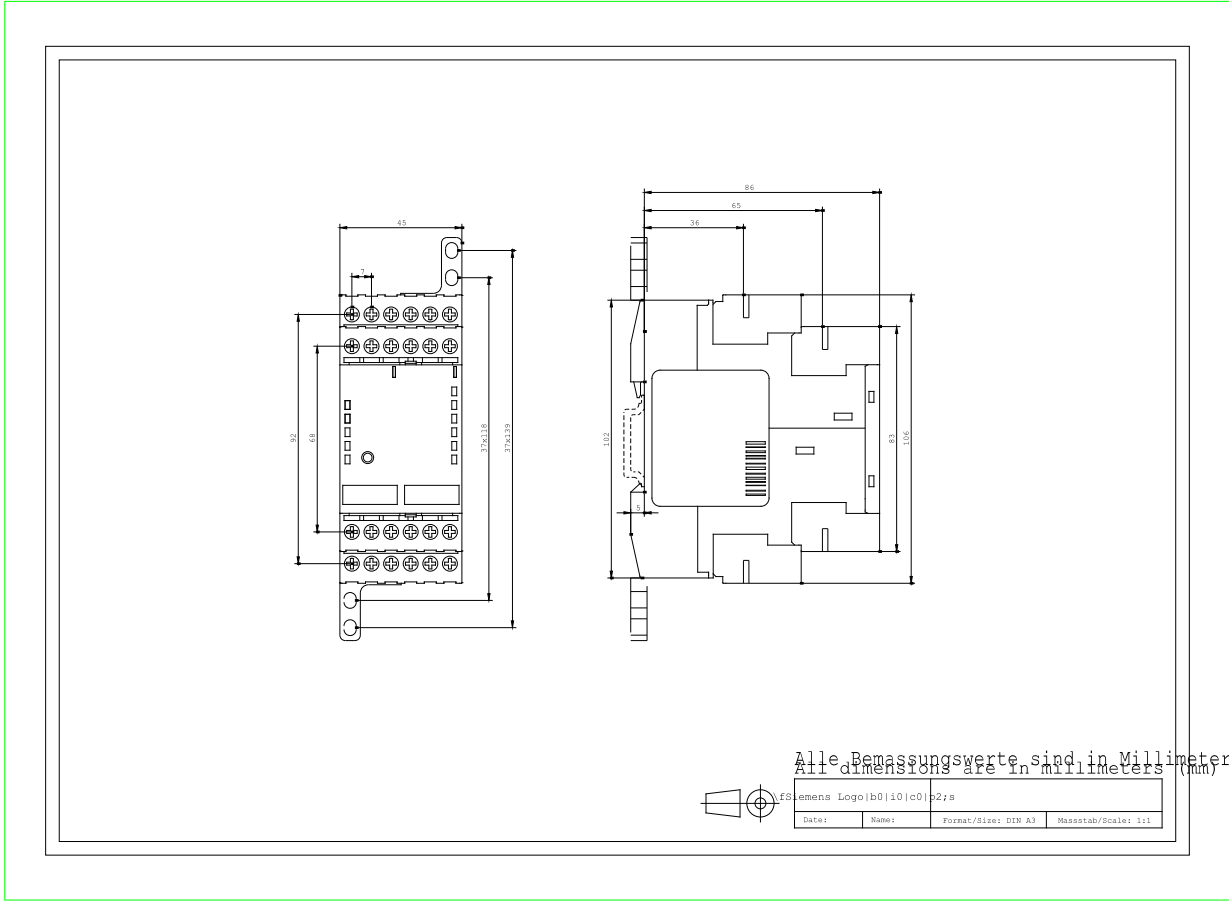
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RK1400-1CE00-0AA2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK1400-1CE00-0AA2



last change:

Jul 21, 2014