

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 / will be 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
Item designation • according to DIN 40719 extendable after 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 the connection technology		2- and 3-wire technology

Input circuit		PNP transistor
Type of voltage / of the input voltage		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

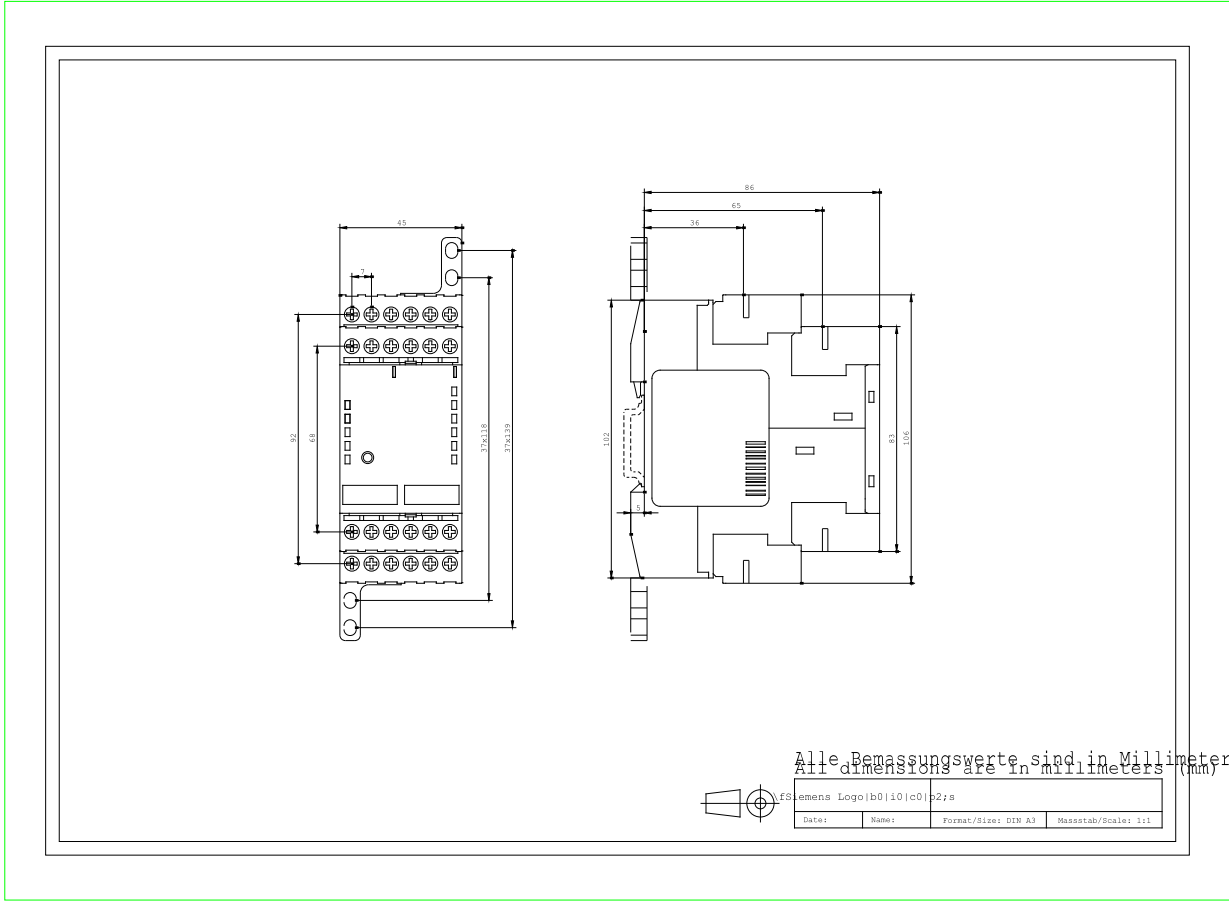
Outputs:		
Number of digital outputs		4
Type of voltage / of the outputs		DC
Output voltage / at 24 V		
• for DC	V	22 ... 24
Outputs / external power supply 24 V DC		using terminals: Terminal 13 = L+, Terminal 19 = M
Outputs		
• aggregate current / max	A	4
Current-carrying capacity		
• of the semiconductor 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
Type of mounting		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:

Jan 23, 2013