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Data sheet 3RK2400-1CE01-0AA2



AS-INTERFACE SLIMLINE MODULE S45, IP20, A/B-SLAVE (SPEC 3.0) DIGITAL, 4DI/4DO, 4 X INPUT FOR SENSOR (MECHAN., 2-WIRE, 3-WIRE),PNP, SENSOR SUPPLY FROM U_ASI MAX. TOTAL 200MA; 4 X OUTPUT 2A, OUTPUT SUPPLY DC 24V MAX. 4A FOR ALL OUTPUTS; SCREW TERMINALS WIDTH 45MM

General technical data:		
Design of the product		SlimLine S22.5 - I/O modules for operation in the control cabinet
Design of the slave type		A/B slave (Spec. 3.0)
Type		4 inputs / 4 outputs
I/O configuration		7
ID/ID2 code		A/7
Protocol is supported AS-interface protocol		Yes
AS interface total current input max	mA	270
operating voltage according to AS-Interface spezification	V	26.5 ... 31.6
Addressing		front addressing socket
Type of electrical connection of the inputs and outputs		screw-type 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.

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

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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	mA	5 000
• 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		
• aggregate current max	A	4
Ampacity		
• of the semiconductor output at DC-13 at 24 V	A	2
Type of switching output		solid state
Property of the output Short-circuit proof		Yes
output Polarity reversal protection		built-in
Outputs		
• short-ciruit 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 operation	°C	-25 ... +70
• during storage	°C	-40 ... +85

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Protection class IP		IP20

Mechanical data:

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		1 x (0.5 - 4) mm² or 2 x (0.5 - 2.5) mm²
• finely stranded		
— with end sleeve		1 x (0.5 - 2.5) mm² or 2 x (0.5 - 1.5) mm²
• AWG solid or stranded		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 | **Shipping Approval**

CSA, GOST, UL, ABS

Shipping Approval | **other**

DNV, LRS, PRS, RMRS

Declaration of Conformity | Confirmation

other

Environmental Confirmations | other

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

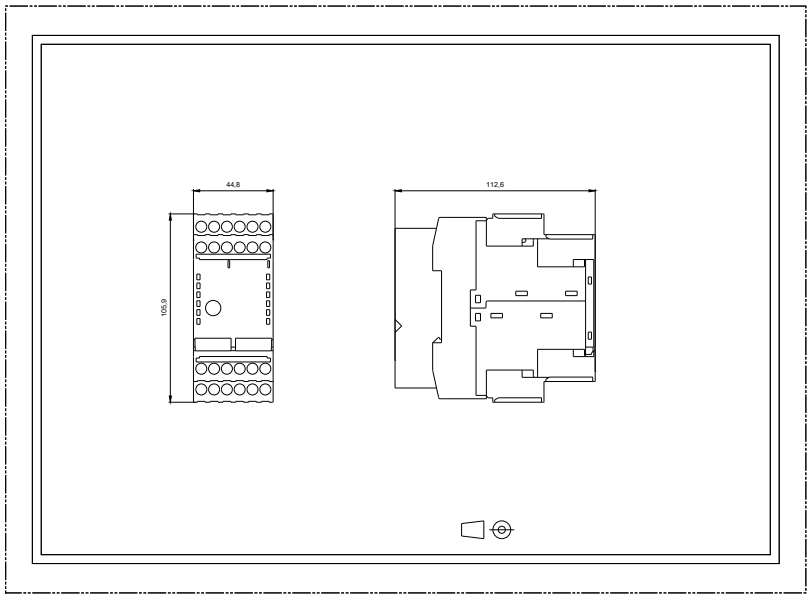
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK24001CE010AA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK24001CE010AA2

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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK24001CE010AA2&lang=en



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