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Data sheet 3RK2400-1DQ00-0AA3

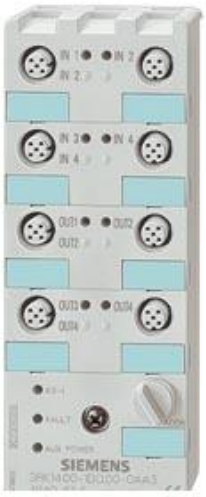


Figure similar

AS-I COMPACT MODULE K60, IP67, A/B-SLAVE (SPEC 3.0), DIGITAL, 4DI/4DO, 4X INPUT FOR SENSOR (MECHAN., 2-WIRE, 3-WIRE), PNP, SENSOR SUPPLY FROM U_ASI MAX. TOTAL 200MA; 4 X OUTPUT OUTPUT SUPPLY DC 24V; 8 X M12-SOCKET Y-II-ASSIGNMENT; MOUNTING PLATE 3RK19010CA00 TO BE ORDERED SEPARATELY

General technical data:		
Design of the product		digital I/O modules for operation in the field, IP67 - K60
Type		4 inputs / 4 outputs
Design of the slave type		A/B slave (Spec. 3.0)
I/O configuration		7
ID/ID2 code		A/7
Number I/O sockets		8
Type of electrical connection of the inputs and outputs		M12 screw-type terminals
AS interface total current input max	mA	270
operating voltage according to AS-Interface spezification	V	26.5 ... 31.6
Ground terminal		PIN5 of each M12 socket is connected to the grounding wrist strap in the mounting plate using a pin
Addressing		front addressing socket
Delivery note		the modules are delivered without mounting plate
Note 1		All K60 compact modules are delivered with stainless steel screws/sockets
Note 2		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

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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	mA	6
• with signal <0> maximum	mA	1.5
Inputs		
• sensor supply using AS-Interface		short-circuit and overload resistant
• socket assignment		
— PIN 1		sensor supply L+
— PIN 2		data input II
— PIN 3		sensor supply L-
— PIN 4		data input I
— PIN 5		ground terminal
Design of the pin assignment of the inputs		Y-II assignement

Outputs:		
Number of digital outputs		4
Type of voltage of output voltages		DC
Outputs external power supply 24 V DC		using black AS-Interface flat cable
Output current at digital output for signal <1> Rated value	A	2
Outputs aggregate current max	A	4
Type of switching output		PNP transistor
Design of the pin assignment of the outputs		Y-II assignement
Outputs socket assignment		3 = "-", 2/4 = output, 5 = ground terminal
Property of the output Short-circuit proof		Yes
Outputs		
• short-ciruit protection		built-in
• induction protection		built-in
• watchdog		built-in

Assignment of the data bits:		
Assignment of data bits		
• socket		PIN 4 = IN1 (D0), PIN 2 = IN2 (D1)
• socket 2		PIN 4 = IN2 (D1)

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• socket 3		PIN 4 = IN3 (D2) , PIN 2 = IN4 (D3)
• socket 4		PIN 4 = IN4 (D3)
• socket 5		PIN4 = OUT1 (D0), PIN2 = OUT2 (D1)
• socket 6		PIN4 = OUT2 (D1)
• socket 7		PIN4 = OUT3 (D2), PIN2 = OUT4 (D3)
• socket 8		PIN4 = OUT4 (D3)
Ambient conditions:		
Ambient temperature		
• during operation	°C	-25 ... +85
• during storage	°C	-40 ... +85
Protection class IP		IP67
Display:		
Status display		
• display of I/Os		yellow LED
• display of Uaux		green LED
• display of AS-Interface/diagnostics		green/red LED
Mechanical data:		
Width	mm	60
Height	mm	152
Depth	mm	29
Mounting type		standard rail mounting/wall mounting using mounting plate for K60 compact module
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)

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General Product Approval				Shipping Approval	
CSA	GOST	UL		ABS	DNV

Shipping Approval			other		
LRS	PRS	RMRS	Environmental Confirmations	Declaration of Conformity	Confirmation

other
other

Further information

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

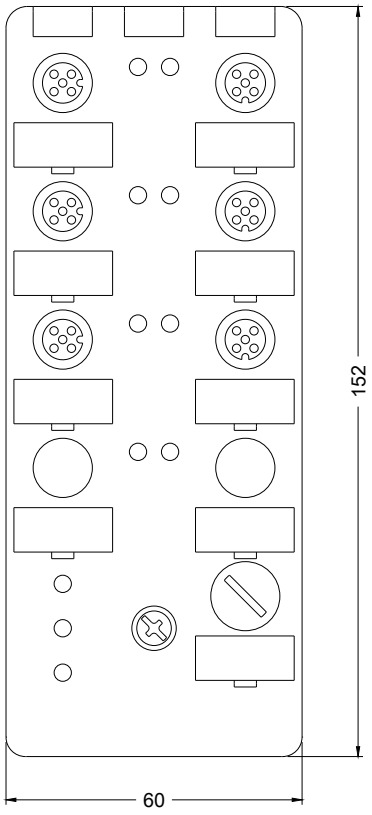
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

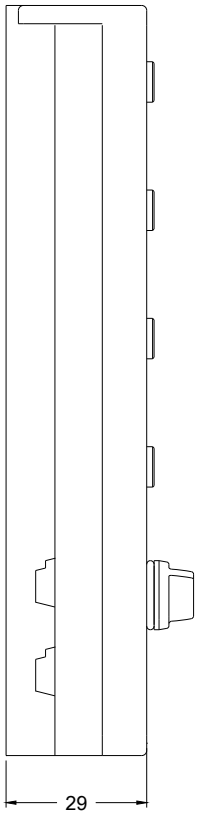
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK24001DQ000AA3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK24001DQ000AA3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK24001DQ000AA3&lang=en

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