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Data sheet 3RK2400-1FQ03-0AA3

AS-i compact module K60 digital A/B slave, 4 DI/3 DQ, IP67 4 x input, maximum 200 mA 3 x output, 2 A, 24 V DC maximal 4 A for all outputs 7 x M12 socket Y-II assignment Mounting plate 3RK1901-0CA00 must be ordered separately

Figure similar

General technical data	
Design of the product	digital I/O modules for operation in the field, IP67 - K60
Type	4 inputs / 3 outputs
Design of the slave type	A/B slave
I/O configuration	7
ID/ID2 code	A/2
Number I/O sockets	7
Type of electrical connection of the inputs and outputs	M12 screw-type terminals
AS interface total current input max	270 mA
operating voltage according to AS-Interface spezification	26.5 ... 31.6 V
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

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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
Input voltage	20 ... 30 V
Property of the sensor supply Short-circuit and overload resistant	Yes
Ampacity of the sensor supply for all inputs	
• at ambient temperature 40 °C	200 mA

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	10 V
Input current at digital input	
• for signal <1> minimum	6 mA
• with signal <0> maximum	1.5 mA
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	3
Type of voltage of output voltages	DC
Outputs external power supply 24 V DC	using black AS-Interface flat cable
Ampacity of the semiconductor output at DC-13 at 24 V	2 A
Outputs aggregate current max	4 A
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

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• 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)
• 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)
• socket 8	not assigned (closed)

Ambient conditions

Ambient temperature	
• during operation	-25 ... +85 °C
• during storage	-40 ... +85 °C
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	60 mm
Height	152 mm
Depth	29 mm
Mounting type	standard rail mounting/wall mounting using mounting plate for K60 compact module

Certificates/ approvals

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General Product Approval			EMC	Declaration of Conformity	
CSA	UL		RCM	EG-Konf.	Miscellaneous

Shipping Approval					other
ABS	BUREAU VERITAS	LRS	PRS	RMRS	ASi

other	
Confirmation	Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK2400-1FQ03-0AA3

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-1FQ03-0AA3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-1FQ03-0AA3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-1FQ03-0AA3&lang=en

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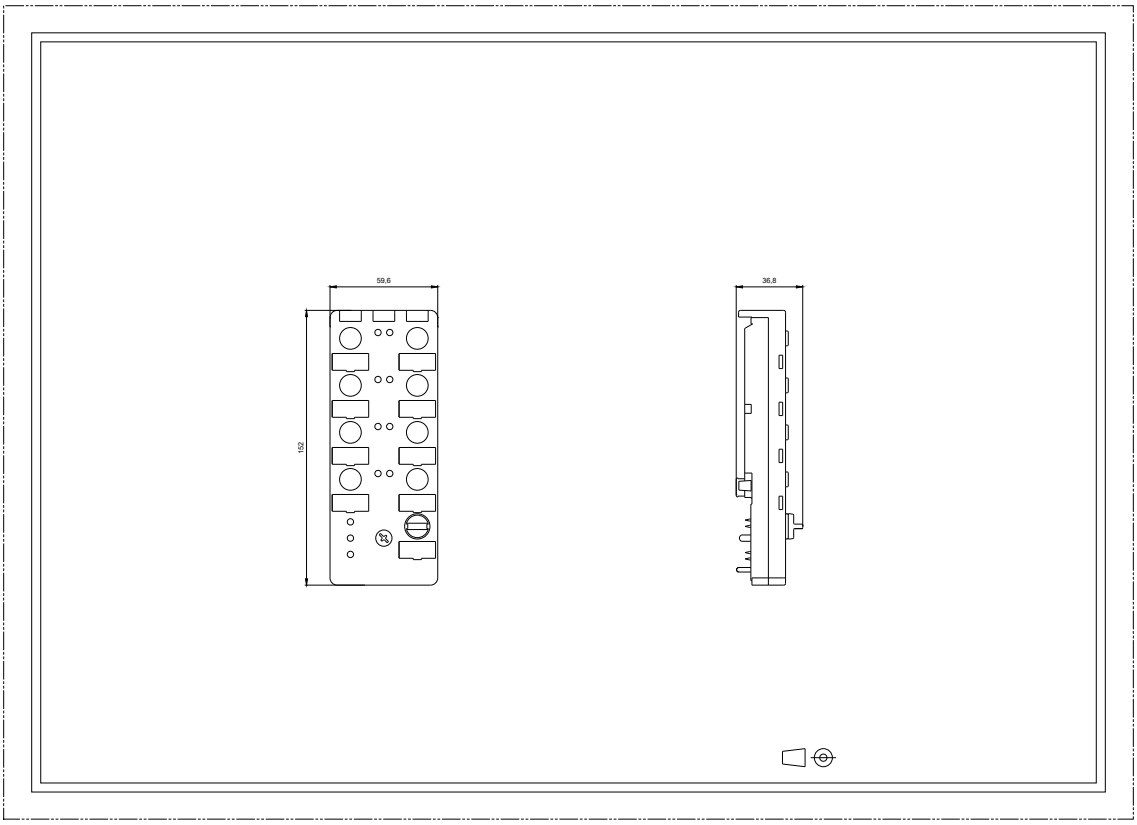

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