SIEMENS

Product data sheet 3RK2400-1DQ00-1AA3

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 DC24V 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
Design of the electrical connection / of the inputs and outputs		M12 screw-type terminals
AS interface / total current input / max	mA	60
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 the sensor supply		via AUX POWER
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	A	1

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	6
• at 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
Voltage type / of output voltages		DC
Outputs / external power supply 24 V DC		using black AS-Interface flat cable
Output current / at the digital output / for signal <1> / nominal value	A	2
Outputs / aggregate current / max	A	4
Design of the 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
Characteristic feature of the output / short-circuit protected		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)
• 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 operating	°C	-25 … +85
• during storage	°C	-40 … +85
Protection class IP		IP67

Status display:

Status display / display of I/Os		yellow LED
Status display / display of Uaux		green LED
Status display / display of AS-Interface/diagnostics		green/red LED

Mechanical design:

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)

General Product Approval

CSA EAC GOST UL

Shipping Approval

ABS DNV LRS PRS RMRS

other

Confirmation | Declaration of Conformity | other | Environmental Confirmations

Further information:

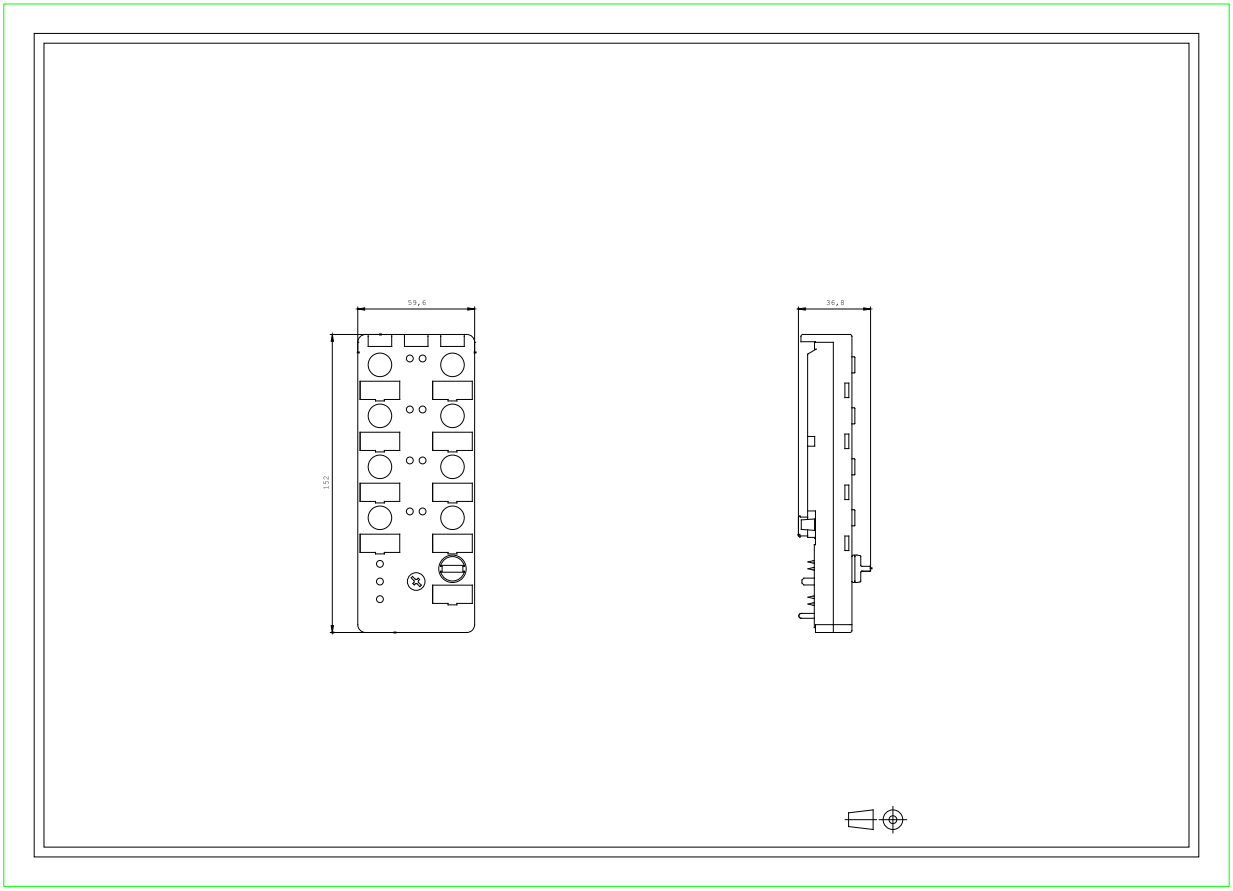
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

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/3RK2400-1DQ00-1AA3/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RK2400-1DQ00-1AA3



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