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product designation	Slimline Compact I/O module for use in the control cabinet
design of the product	AS-i SC22.5, 4DI/4DQ A/B
General technical data	
protection class IP	IP20
design of the slave type	A/B slave (Spec. 3.0)
AS-Interface slave profile	S-7.A.7
ID1 code	7; Setting cannot be changed
operating voltage according to AS-Interface specification	18 ... 31.6 V
product function suitable for AS-i Power24V	Yes
protocol is supported AS-Interface protocol	Yes
consumed current from profile conductors of the AS-Interface	
• at 30 V maximum	270 mA
• at 24 V with AS-i Power24V maximum	270 mA
type of address setting of AS-i slaves	via front addressing socket
display version	
• as status display of the inputs/outputs	LED yellow/red
• for AS-Interface	LED green/red
reference code	
• according to EN 61346-2	K
• according to DIN 40719 extended according to IEC 204-2 according to IEC 750	A
shock resistance	15g / 11 ms (modules) or 10g / 11 ms (modules with device connector)
other information	An auxiliary external feed (AUX POWER) of between 20 and 30 V DC is necessary for supplying the output circuits. The auxiliary feed must comply with IEC 60990 (PELV), protection class III.
Digital Inputs	
number of digital inputs	4
number of digital inputs safety-related	0
type of input characteristic	PNP Type 2
type of connection technology	2- and 3-wire technology
Sensor supply	
type of voltage supply for power supply	AS-Interface / U_AUX switchable
capacity of the sensor supply for all inputs at ambient temperature 40 °C	500 mA
• note	200 mA with supply via AS interface / 500 mA with supply via Uaux
property of the sensor supply short-circuit and overload resistant	Yes
voltage drop at the sensor supply	
• from AS-interface	8.5 V

<ul style="list-style-type: none"> from external auxiliary voltage 	1 V					
Digital Outputs						
number of digital outputs	4					
type of switching output	PNP transistor					
product function for power supply reverse polarity protection	Yes					
property of the output short-circuit proof	Yes					
product function	Built-in induction protection					
total current of digital outputs per module maximum	4 A					
type of voltage supply at the outputs	via AUX POWER					
ampacity of the semiconductor output at DC-13 at 24 V	2 A					
Analog inputs						
number of analog inputs	0					
Analog outputs						
number of analog outputs	0					
Device connector						
ampacity of the interface to the device connector						
<ul style="list-style-type: none"> for AS-Interface 	2 A					
<ul style="list-style-type: none"> for external auxiliary voltage 	4 A					
Installation/ mounting/ dimensions						
fastening method	screw and snap-on mounting					
height	100 mm					
width	22.5 mm					
depth	120 mm					
Ambient conditions						
ambient temperature						
<ul style="list-style-type: none"> during operation 	-25 ... +70 °C					
<ul style="list-style-type: none"> during storage 	-40 ... +85 °C					
Connections/ Terminals						
type of electrical connection of the inputs and outputs	Spring-loaded terminals					
type of connectable conductor cross-sections						
<ul style="list-style-type: none"> solid 	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²)					
<ul style="list-style-type: none"> finely stranded with core end processing 	1x (0,25 ... 1,0 mm ²), 2x (0,25 ... 1,0 mm ²)					
<ul style="list-style-type: none"> finely stranded without core end processing 	1x (0.5 ... 1.5 mm ²), 2x (0.5 ... 1.5 mm ²)					
<ul style="list-style-type: none"> at AWG cables solid 	1x (20 ... 16), 2x (20 ... 16)					
<ul style="list-style-type: none"> at AWG cables stranded 	1x (20 ... 16), 2x (20 ... 16)					
Certificates/ approvals						
General Product Approval	EMC	Declaration of Conformity				
	Confirmation					
						
Test Certificates		Marine / Shipping				
Type Test Certificates/Test Report						
						
other						



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=3RK2400-2CG00-2AA2>

Cax online generator

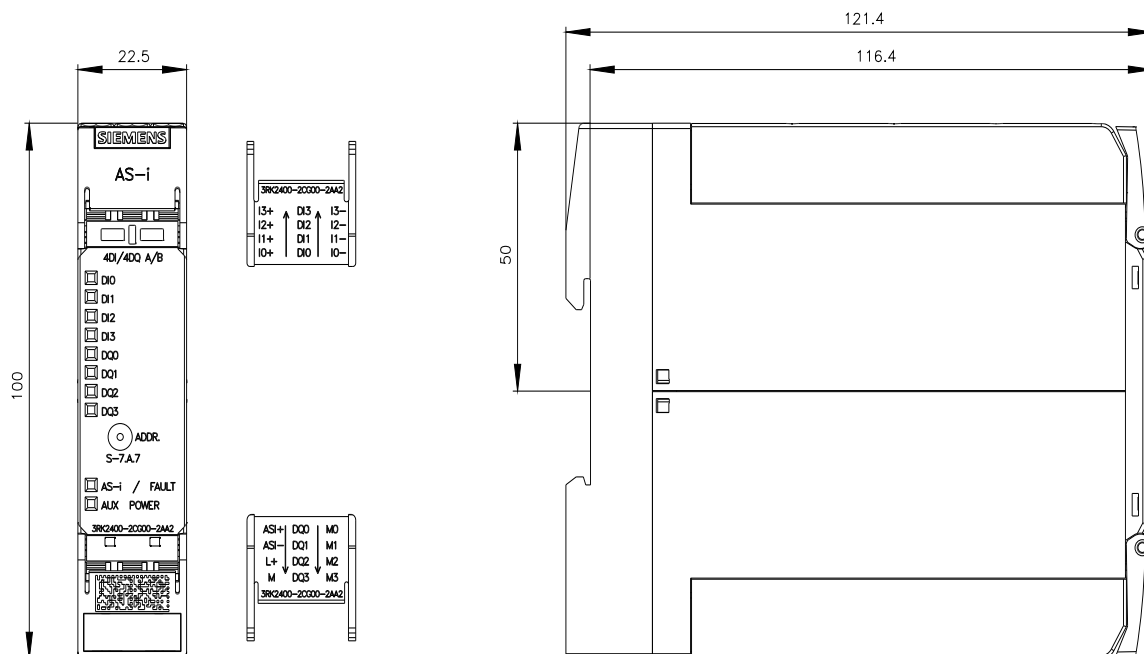
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK2400-2CG00-2AA2>

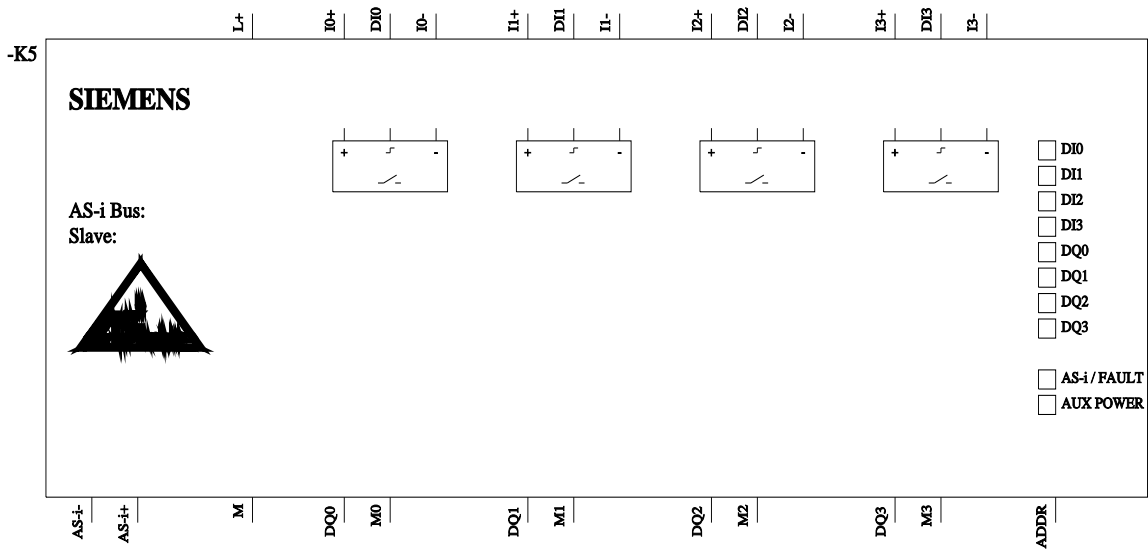
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK2400-2CG00-2AA2>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK2400-2CG00-2AA2&lang=en





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