DATASHEET - XIOC-2AO-U1-2AO-I2

Analog output module for XC100/200, 24 V DC, 4AO(2x0-10V, 2x4-20mA)

	Part no. Catalog No.	XIOC-2AO-1 257902	J1-2A0-I2		Powering Business Worldwide [∞]
	EL-Nummer (Norway)	4519674			
Delivery program					
Function					Analog modules
					Compact I/O system for connection to XC100/200 Modular PLCs XC100/200 expandable with up to 15 XI/OC modules Optionally, screw terminals or spring-loaded terminals for digital/analog modules
Description					Outputs 2 Outputs 0 - 10 V 2 outputs 4 - 20 mA
Technical data					
General					
Standards					IEC/EN 61131-2 EN 50178
Ambient temperature				°C	0 - +55
Storage			θ	°C	-25 - +70
Vibration resistance					10 - 57 Hz ±0.075 mm 57 - 150 Hz ±1.0 mm
Mechanical shock resistance				g	15 Shock duration 11 ms
Impact resistance					500 g/∅ 50 mm ±25 g
Overvoltage category/pollution d	egree				11/2
Protection class					1
Degree of Protection					IP20
Emitted interference					DIN/EN 55011/22, Class A
Weight				kg	0.18
Power supply					
Rated voltage			U _e	V DC	24 (12)
Admissible range					20.4 - 28.8 (11.8 - 14.4)
Residual ripple				%	≦ 5
Neutral poles					
Duration of dip				ms	10
Repetition rate				S	1
Maximum power loss			Pv	W	0.5
Inputs					
External power supply					24 V DC (-15/+20 %), approx. 150 mA
Resolution				Bit	12
Conversion time					≦ 5 ms
Outputs Output voltage				V DC	0 - 10
Output current				A	0.004 to 0.020
Resolution				Bit	12
Potential isolation				Dit	12
Circuit within each channel					Opto-isolated
between channels					No
Terminations					Plug-in terminal block
Internal current consumption (5 \	(DC)			mA	100
Conversion time					≤5 ms
Total error				%	≡ 5 ms ≦ ±1 (of the full-scale value)
External load resistance				/0	
Voltage output					≦ 10 kΩ
Current output				Ω	2 10 kΩ 0 to 500 Ω
Gurrent Output				12	0.00.000.02

Quantity of outputs	
Output voltage	2 (channels 0 and 1)
Output current	2 (channels 2 and 3)
External power supply	24 V DC (-15/+20 %), approx. 150 mA
Connection type	2-core screened cable (≦20 m)

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation		А	0
Heat dissipation per pole, current-dependent		W	0
Equipment heat dissipation, current-dependent		W	0
Static heat dissipation, non-current-dependent		W	0.5
Heat dissipation capacity	P _{diss}	w	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Meets the product standard's requirements.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

Programmable logic controllers PLC (EG000024) / PLC analogue I/O-module (EC001420)

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS analog input/output module (ecl@ss10.0.1-27-24-22-01 [AKE524014])			
Number of analogue inputs	0		
Number of analogue outputs	4		
Analogue inputs configurable	Yes		
Analogue outputs configurable	Yes		
Input, current	No		
Input, voltage	No		
Input, resistor	No		
Input, resistance thermometer	No		
Input, thermocouple	No		
Input signal, configurable	No		

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Resolution of the analogue inputs	Bit	0
Output, current		Yes
Output, voltage		Yes
Output signal configurable		No
Resolution of the analogue outputs	Bit	12
Type of electric connection		Screw-/spring clamp connection
Suitable for safety functions		No
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Width	mm	30
Height	mm	95
Depth	mm	100