

Specifications



Photo is representative

Eaton 262405

Eaton XIOC Analog I/O module for
XC100/200, 24 V DC, 4AI, 2AO(0-10V)

General specifications

PRODUCT NAME	Eaton XIOC I/O module
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CATALOG NUMBER	262405
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MODEL CODE	XIOC-4AI-2AO-U1
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EAN	4015082624057
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PRODUCT LENGTH/DEPTH	100 mm
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PRODUCT HEIGHT	95 mm
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PRODUCT WIDTH	30 mm
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PRODUCT WEIGHT	0.115 kg
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CERTIFICATIONS	UL508 CSA IEC/EN 61131-2 CSA Class No.: 2252-01 UL File No.: E135462 CSA File No.: 012528 CSA-C22.2 No. 0-M UL Category Control No.: NRAQ EN 50178 CSA-C22.2 No. 142-M CE UL
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Ambient conditions, mechanical

IMPACT RESISTANCE	500 g/□ 50 mm ±25 g
SHOCK RESISTANCE	15 g, Mechanical, Shock duration 11 ms
VIBRATION RESISTANCE	10 - 57 Hz, ± 0.075 mm 57 - 150 Hz ± 1.0 mm

Communication

CONNECTION TYPE	Plug-in terminal block, Outputs
INTERFACES	Terminating resistor: ≤ 2 kΩ

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C

Design verification

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.
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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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.
10.9.2 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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1 W

Electrical rating

POWER LOSS	Max. 1 W
RATED OPERATIONAL VOLTAGE	24 (12) V DC
SHORT-CIRCUIT PROTECTION	Yes, Short-circuit rating, Outputs

Electro magnetic compatibility

EMITTED INTERFERENCE	Class A (according to DIN/EN 55011/22)
VOLTAGE DIPS	10 ms

Features & functions

ELECTRIC CONNECTION TYPE	Screw-/spring clamp connection
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FEATURES	Input, voltage Analog outputs configurable Output, voltage Analog inputs configurable
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Input/Output

CONVERSIONS	1 ms < 1 ms
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INPUT	4 Inputs (0 - 10 V)
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INPUT IMPEDANCE	40 kΩ
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INPUT VOLTAGE	0 - 10 V DC (Input modules)
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NUMBER OF INPUTS (ANALOG)	4
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NUMBER OF OUTPUTS (ANALOG)	2
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OUTPUT	2 Outputs (0 - 10 V)
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OUTPUT VOLTAGE	0 - 10 V DC
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TOTAL ERROR	Normally 0.4 %, Inputs/Outputs
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General information

ADMISSIBLE RANGE	20.4 – 28.8 V (11.8 – 14.4 V), Power supply
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CURRENT CONSUMPTION	100 mA (typ.), internal (5 V DC), Inputs 200 mA, external, Outputs
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DEGREE OF PROTECTION	IP20
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OVERVOLTAGE CATEGORY	II
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POLLUTION DEGREE	2
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PROTECTION CLASS	1
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REPETITION RATE	1 s
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RESIDUAL RIPPLE	≤ 5 %
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RESOLUTION	• 12 Bit • 14 Bit (Analog outputs, current)
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TYPE	Analog module
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USED WITH	XC100/200 (expandable with up to 15 XI/OC modules)
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NUMBER OF CHANNELS	4, Input
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Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
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EXPLOSION SAFETY CATEGORY FOR GAS	None
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POTENTIAL ISOLATION	Analog outputs: no Between Inputs and Outputs: no Analog inputs: no
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Terminal capacities

TERMINALS

- Optionally, screw terminals or spring-loaded terminals for digital/analog modules
- Plug-in terminal block

Resources

BROCHURES

[Slice card modular I/O system for the machine building industry XN300 - brochure](#)

[eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf](#)

DRAWINGS

[eaton-electronic-devices-local-inputoutput-xioc-output-module-3d-drawing.eps](#)

[eaton-electronic-devices-in-out-module-xioc-output-module-dimensions.eps](#)

[eaton-modular-plc-dimensions-2724dim-7.eps](#)

ECAD MODEL

[DA-CE-ETN.XIOC-4AI-2AO-U1](#)

MANUALS AND USER GUIDES

[MN05002002Z_EN](#)

[DA-CS-xioc](#)

MCAD MODEL

[eaton-modular-i-o-system-mcad-drawings-xioc.dwg](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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