

Eaton 262322

Catalog Number: 262322

Eaton XIOC Digital I/O module for XC100/200, 24 V DC, 4DI and 12DI/DO

General specifications



Product Name	Catalog Number
Eaton XIOC I/O module	262322
EAN	Product Length/Depth
4015082623227	100 mm
Product Height	Product Width
95 mm	30 mm
Product Weight	Certifications
0.145 kg	EN 50178
	CSA-C22.2 No. 0-M
	UL Category Control No.: NRAQ
	CE
	UL File No.: E135462
	CSA Class No.: 2252-01
	CSA
	CSA File No.: 012528
	UL508
	UL
	CSA-C22.2 No. 142-M
	IEC/EN 61131-2

Features & Functions

Electric connection type

Screw-/spring clamp connection

Features

Digital inputs configurable

Digital outputs configurable

Functions

Overvoltage protection

General

Admissible range

20.4 – 28.8 V (11.8 – 14.4 V), Power supply

Current consumption

2 A per group, Total max. current, Outputs

80 mA, Internal current consumption (5 V DC), Outputs

Degree of protection

IP20

Number of channels

16 Channels with the same reference potential (Inputs, Outputs)

Overvoltage category

II

Pollution degree

2

Protection

Protection class: 1

Repetition rate

1 s

Residual ripple

≤ 5 %

Switching capacity

IEC/EN 60947-5-1, utilization category DC-13, Digital outputs

Switching level

≤ 15 V DC, ON, Voltage level to IEC 61131-2,
limit value type 1, Inputs

≤ 5 V DC, OFF, Voltage level to IEC 61131-2,
limit value type 1, Inputs

Type

Digital module

Plug-in terminal block

Used with

XC100/200 (expandable with up to 15 XI/OC modules)

Voltage type

DC

Ambient conditions, mechanical

Climatic environmental conditions

Impact resistance	Ambient operating temperature - min
500 g/ 50 mm ± 25 g	0 °C
Shock resistance	Ambient operating temperature - max
15 g, Mechanical, Shock duration 11 ms	55 °C
Vibration resistance	Ambient storage temperature - min
10 - 57 Hz, ± 0.075 mm	-25 °C
57 - 150 Hz ± 1.0 mm	Ambient storage temperature - max
	70 °C

Electro magnetic compatibility

Emitted interference

Class A (according to DIN/EN 55011/22)

Voltage dips

10 ms

Terminal capacities

Terminals

Optionally, screw terminals or spring-loaded terminals for digital/analog modules

Electrical rating

Power loss

Max. 1.8 W

Rated operational voltage

24 (12) V DC

Short-circuit protection

Yes, Outputs

Yes, Short-circuit rating, Outputs

Short-circuit tripping current

Max. 1.2 A over 3 ms per output, Outputs

Supply voltage at AC, 50 Hz - min

0 VAC

Supply voltage at AC, 50 Hz - max

0 VAC

Supply voltage at DC - min

20.4 VDC

Supply voltage at DC - max

28.8 VDC

Communication

Connection

16 connections, 4 inputs, 12 freely parameterizable as

Input/Output

Delay time

0.1 ms typ., Digital inputs 24 V DC, Delay time from 1 to 0,

inputs/outputs, 24 V DC outputs 0.5 A	Debounce ON
Connection type	0.1 ms typ., Digital inputs 24 V DC, Delay time from 0 to 1,
Plug-in terminal block, Power supply	Debounce ON
	100 μ s typ., Digital outputs, High -> Low, Off-delay
LED indicator	Input
Status indication of Power supply: LED	Voltage (DC)
	Input current
	4 mA
	Input current at signal 1
	4 mA
	Input voltage
	24 V DC (modules)
	Lamp load
	Max. 3 W (without R _v per channel)
	Number of inputs (digital)
	16
	Number of outputs (analog)
	3
	Number of outputs (digital)
	12
	Output
	Transistor (source type)
	Output current
	0.5 A
	Output voltage
	12/24 V DC (-15 %/+20 %)
	Parallel switching
	In groups 0 - 3, 4 - 7, 8 - 11
	Actuation of the outputs within a group only in the same program cycle

Safety

Explosion safety category for dust

None

Explosion safety category for gas

None

Potential isolation

Power supply against I/O bus: yes

Design verification

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

0 W

Protection against polarity reversal	Rated operational current for specified heat dissipation (In) 0 A
Yes	Static heat dissipation, non-current-dependent Pvs 1.8 W
	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.

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.

Resources

Brochures

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

Slice card modular I/O system for the machine building industry XN300 - brochure

Declarations of conformity

[DA-DC-00003402.pdf](#)

[DA-DC-00003835.pdf](#)

Drawings

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

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

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

eCAD model

[ETN.XIOC-16DX](#)

Manuals and user guides

[MN05002002Z_EN](#)

mCAD model

[DA-CD-xioc](#)

[DA-CS-xioc](#)

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