

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
Eaton XIOC I/O module

Catalog Number
262322

EAN
4015082623227

Product Length/Depth
100 mm

Product Height
95 mm

Product Width
30 mm

Product Weight
0.145 kg

Certifications
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

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

Ambient operating temperature - min

0 °C

Ambient operating temperature - max

55 °C

Ambient storage temperature - min

-25 °C

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

Connection type

Plug-in terminal block, Power supply

LED indicator

Status indication of Power supply: LED

Debounce ON

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

Debounce ON

100 µs typ., Digital outputs, High -> Low, Off-delay

Input

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 Rv 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 Pvid

0 W

Heat dissipation capacity Pdis

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Protection against polarity reversal

Yes

Rated operational current for specified heat dissipation (In)

0 A

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](#)