Specifications

Eaton 257902

Catalog Number: 257902

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



General specifications

Product Name
Eaton XIOC Output module

Catalog Number
257902

EAN
4015082579029

Product Length/Depth
100 mm

Product Height
95 mm

Product Width
30 mm

Product Weight
0.135 kg

Certifications
UL508
EN 50178
UL Category Control No.: NRAQ
UL File No.: E135462
CSA Class No.: 2252-01
UL
CE
CSA-C22.2 No. 0-M
CSA-C22.2 No. 142-M
CSA
CSA File No.: 012528
IEC/EN 61131-2

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Features & Functions

Electric connection type

Screw-/spring clamp connection

Features

Output, voltage

Output, current

Analog outputs configurable

Analog inputs configurable

General

Admissible range

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

Current consumption

100 mA, external, Outputs

Degree of protection

IP20

Overvoltage category

II

Pollution degree

2

Protection class

1

Repetition rate

1 s

Residual ripple

≤ 5 %

Resistance

0 - 500 Ω (external load, current output)

Resolution

12 Bit

Type

Analog module

Used with

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

Ambient conditions, mechanical

Impact resistance

500 g/ 50 mm ±25 g

Shock resistance

15 g, Mechanical, Shock duration 11 ms

Vibration resistance

57 - 150 Hz ± 1.0 mm

10 - 57 Hz, ± 0.075 mm

Climatic environmental conditions

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. 0.5 W

Power supply

24 V DC (-15/+20 %), approx. 150 mA

Rated operational voltage

24 (12) V DC

Supply voltage at DC - max

24 VDC

Communication

Connection type

Plug-in terminal block, Outputs

2-core screened cable (≤ 20 m), Outputs

Input/Output

Conversions

≤ 5 ms, Inputs

Load resistance

≤ 10 kΩ

Number of inputs (analog)

0

Number of outputs (analog)

4

Output

2 Outputs (0 - 10 V)

2 Outputs (4 - 20 mA)

Outputs

Output current

0.004 - 0.02 A

Output voltage

0 - 10 V DC

2 (channels 0 and 1)

Total error

≤ ±1 % (of the full-scale value), Outputs

Safety

Explosion safety category for dust

None

Explosion safety category for gas

None

Potential isolation

Circuit within each channel: Opto-isolated

Design verification

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

0.5 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-00003821.pdf

DA-DC-00003397.pdf

Drawings

eaton-electronic-devices-in-out-module-xioc-output-module-dimensions.eps

eaton-electronic-devices-dimensions-xioc-output-module-dimensions.eps

eaton-electronic-devices-local-inputoutput-xioc-output-module-3d-drawing.eps

eCAD model

DA-CE-ETN.XIOC-2AO-U1-2AO-I2

Manuals and user guides

MN05002002Z_EN

mCAD model

DA-CS-xioc

DA-CD-xioc

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

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