Specifications

Eaton 257900



Catalog Number: 257900

Eaton XIOC Analog input card for XC100/200, 24 V DC, 8DI(+/-10V)

General specifications

Product Name
Eaton XIOC Accessory Input card

Catalog Number
257900

EAN
4015082579005

Product Length/Depth
100 mm

Product Height
95 mm

Product Width
30 mm

Product Weight
0.135 kg

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

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Features & Functions

Electric connection type

Screw-/spring clamp connection

Features

Input, voltage

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 (typ.), internal (5 V DC), Inputs

Degree of protection

IP20

Number of channels

8, Input

Overvoltage category

II

Pollution degree

2

Protection class

1

Repetition rate

1 s

Residual ripple

≤ 5 %

Resolution

12 Bit (digital)

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

10 - 57 Hz, ± 0.075 mm

57 - 150 Hz ± 1.0 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
Plug-in terminal block

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

Communication

Connection type

2-core screened cable (≤ 20 m)

Input/Output

Conversions

≤ 5 ms

Input

8 Inputs (±10 V)

Input impedance

100 kΩ

Input voltage

-10 - 10 V DC (Input modules)

Number of inputs (analog)

8

Number of outputs (analog)

0

Total error

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

Safety

Explosion safety category for dust

None

Explosion safety category for gas

None

Potential isolation

Analog inputs: Opto-isolated
Analog outputs: no

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

4.8 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

Resources

Brochures

eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf

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

Drawings

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

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

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

eCAD model

DA-CE-ETN.XIOC-8AI-U2

Manuals and user guides

MN05002002Z_EN

mCAD model

DA-CD-xioc

DA-CS-xioc

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.

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