Specifications

Eaton 140035

Catalog Number: 140035

Eaton XNE Digital input card XI/ON ECO, 24 V DC, 8DI



General specifications

Product Name
Eaton XNE Accessory Input card

Catalog Number
140035

EAN
7640130120556

Product Length/Depth
129.5 mm

Product Height
74.5 mm

Product Width
13 mm

Product Weight
0.055 kg

Certifications
CE
CSA Class No.: 2252-01, 2252-81
IEC/EN 61000-6-2
CSA-C22.2 No. 142
UL Recognized
UL report applies to both US and Canada
UL Category Control No.: NRAQ, NRAQ7
IEC/EN 61000-6-4
Certified by UL for use in Canada
IEC/EN 6113-2
UL File No.: E205091
CULus
IEC/EN 61131-2
UL 508
Rated data for terminations according to IEC/EN 60947-7-1

Catalog Notes
Base modules without C-Connection already built in

Powering Business Worldwide

Features & Functions

Electric connection type

Plug-in connection

Features

Fieldbus connection over separate bus coupler possible

Functions

Positive switching

General

Current consumption

15 mA, from module bus, Analog input modules

1.5 mA, from supply terminal

Degree of protection

IP20

Mounting method

Rail mounting possible

Number of channels

8

Product category

XNE Slice module

Type

I/O module

Voltage type

DC

Ambient conditions, mechanical

Drop and topple

According to IEC 60068-2-31, free fall according to IEC 60068-2-32

Shock resistance

Mechanical, According to IEC/EN 60068-2-27

Continuous according to IEC/EN 60068-2-29

Vibration resistance

According to IEC/EN 60068-2-6

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

85 °C

Environmental conditions

Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation)

Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation)

Relative humidity

5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)

Electro magnetic compatibility

Terminal capacities

Air discharge

According to EN 61100-4-2

Burst impulse

According to IEC/EN 61000-4-4

Contact discharge

According to EN 61100-4-2

Electromagnetic fields

According to IEC EN 61100-4-2

Emitted interference

30 - 230 MHz (radiated, high frequency, according to EN 55016-2-3)

230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3)

Radiated RFI

IEC/EN 61100-4-6

Surge rating

According to IEC/EN 61000-4-5 Level 4

Voltage dips

According to EN 61131-2 (Voltage fluctuations/voltage dips)

Terminal capacity

0.25 - 1.5 mm², solid, H07V-U

0.25 - 1.5 mm², with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)

0.25 - 1.5 mm², flexible without ferrule, H07V-K

0.25 - 0.75 mm², with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)

Gauge pin

A1 (according to IEC/EN 60947-1)

Stripping length (main cable)

8 mm

Electrical rating

Rated insulation voltage (Ui)

500 V

Rated operational voltage

24 V DC (supply terminal)

Supply voltage at AC, 50 Hz - min

0 VAC

Supply voltage at AC, 50 Hz - max

0 VAC

Supply voltage at DC - min

18 VDC

Supply voltage at DC - max

30 VDC

Communication

Connection type

Push-In spring-cage terminals, Connection design in TOP direction

Protocol

Other bus systems

Input/Output

Input current

-1 - 1.5 mA (Digital inputs, low level)

2 - 5 mA (Digital inputs, high level)

Input current at signal 1

2 mA

Input delay

100 µs (rising edge)

200 µs (falling edge)

Input voltage

-5 - 5 V (Digital inputs, low level)

11 - 30 V (Digital inputs, high level)

24 V DC (Digital inputs)

Number of inputs (digital)

8

Number of outputs (digital)

0

Output current

0 A

Safety

Explosion safety category for dust

None

Explosion safety category for gas

None

Potential isolation

Through optocoupler: yes

Design verification

Equipment heat dissipation, current-dependent Pvid

1.5 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

1.5 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.

Resources

Brochures

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

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

Declarations of conformity

DA-DC-00003875.pdf

DA-DC-00003698.pdf

Drawings

eaton-io-modules-digital-input-module-xne-communication-module-dimensions.eps

eaton-io-modules-xne-output-module-3d-drawing.eps

eCAD model

DA-CE-ETN.XNE-8DI-24VDC-P

Manuals and user guides

MN05002010Z_EN

mCAD model

DA-CS-xne_8di_24vdc_p

DA-CD-xne_8di_24vdc_p

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.



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