Spesifikasjoner

Eaton 140064



Catalog Number: 140064

Eaton XN Analog input card XI/ON, 24 V DC, 1AI (0-10V, +-10V)

General specifications

Product Name
Eaton XN Accessory Input card

Catalog Number
140064

EL Number
4520617

EAN
7640130120044

Product Length/Depth
55.4 mm

Product Height
74.1 mm

Product Width
12.6 mm

Product Weight
0.035 kg

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

Model Code
XN-1AI-U(-10/0...+10VDC)

Powering Business Worldwide

Funksjoner og egenskaper

Electric connection type

Screw-/spring clamp connection

Features

Input, voltage

Fieldbus connection over separate bus coupler possible

Analog outputs configurable

Input signal, configurable

Measuring principle: Successive approximation

Analog inputs configurable

Functions

Diagnosis function

Generelt

Current consumption

41 mA, from module bus, Analog input modules

50 mA, from supply terminal

Degree of protection

IP20

NEMA 1

Limit frequency

200 Hz (- 3 db)

Mounting method

Rail mounting possible

Number of channels

1

Product category

XN Slice module

Repetition accuracy

0.09 % (deviation)

Resolution

14-bit (signed integer, Resolution of the A/D converter)

Suitable for

Base modules without C-Connection, for sensor feeding: 4-wire

Base modules without C-Connection: 2-/3-wire

Type

XI/ON I/O module

Used with

XN-S3S-SBB

XN-S3T-SBB

XN-S4T-SBBS

XN-S4S-SBBS

Voltage type

DC

Omgivelsesforhold, mekanisk

Drop and topple

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

Shock resistance

Miljøforhold

Ambient operating temperature - min

0 °C

Ambient operating temperature - max

55 °C

Continuous according to IEC/EN 60068-2-29
Mechanical, According to IEC/EN 60068-2-27

Vibration resistance

According to IEC/EN 60068-2-6

Ambient storage temperature - min

-25 °C

Ambient storage temperature - max

85 °C

Environmental conditions

Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation)
Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation)

Relative humidity

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

Elektromagnetisk kompatibilitet

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

230 - 1000 MHz (radiated, high frequency, according to EN 55016-2-3)
30 - 230 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)

Elektrisk klassifisering

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

20.4 VDC

Supply voltage at DC - max

28.8 VDC

Kommunikasjon

Number of bytes

3 parameter bits

Protocol

Other bus systems

Inn-/utgang

Input

Linked to L+ and L- of the supply, not short-circuit protected (Encoder Supply, Analog inputs)

Input impedance

≥ 98.5 kΩ

Input voltage

-10/0 - 10 V DC (Analog input modules)

Max. 35 V DC (continuous)

Linearity

0.03 %

Measured value representation

12-bit full range left-justified

12-bit signed integer left-justified

16-bit signed integer

Measured variables

Voltage

Number of inputs (analog)

1

Number of outputs (analog)

0

Timing cycle

0.1 % Offset error

Sikkerhet

Explosion safety category for dust

None

Explosion safety category for gas

None

Potential isolation

Through optocoupler: yes

Designbekreftelse

Equipment heat dissipation, current-dependent Pvid

1 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 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.

For nedlasting

Declarations of conformity

DA-DC-00003875.pdf

DA-DC-00003698.pdf

eCAD model

DA-CE-ETN.XN-1AI-U(-10_0..._10VDC)

mCAD model

DA-CD-xn_1ai_u_10_0_10vdc

DA-CS-xn_1ai_u_10_0_10vdc



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

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