Specifications

Eaton 140088

Catalog Number: 140088

Eaton XN Base module washer XI/ON, screw, 3 connection levels



General specifications

Product Name
Eaton XN Rack

Catalog Number
140088

EAN
7640130121133

Product Length/Depth
117.6 mm

Product Height
49.9 mm

Product Width
12.6 mm

Product Weight
0.041 kg

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

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Features & Functions

Fitted with:

Pluggable modules, digital I/O

Pluggable modules, central modules

Power supply

Pluggable modules, analog I/O

General

Degree of protection

IP20

Mounting method

Rail mounting possible

Number of connection levels

3

Type

XI/ON slice card base module

Used with

XN-1AI-U (-10 - 10 V DC)

XN-2DI-24VDC-P

XN-2DI-120/230VAC

XN-1AI-I(0 - 20 mA)

XN-2AI-PT/NI-2/3

XN-2AI-U (-10 - 10 V DC)

XN-1AO-I(0 - 20 mA)

XN-2AI-I(0 - 20 mA)

XN-2AO-I(0 - 20 mA)

XN-2AO-U (-10 - 10 V DC)

XN-2DI-24VDC-N

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

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)

Electro magnetic compatibility

Air discharge

Air/contact discharge according to IEC/EN 61000-4-2

Burst impulse

According to IEC/EN 61000-4-4

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)

Input/Output

Input current at AC - max

0 A

Input voltage at AC 50 Hz - min

0 V

Input voltage at AC 50 Hz - max

0 V

Input voltage at DC - min

0 V

Input voltage at DC - max

0 V

Output current at AC, 50 Hz - max

0 A

Output voltage at AC 50 Hz - max

0 V

Output voltage at DC - min

Terminal capacities

Terminal capacity

0.5 - 1.5 mm², flexible without ferrule, H07V-K
0.5 - 1.5 mm², with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
0.5 - 2.5 mm², solid, H07V-U
0.5 - 1.5 mm², with ferrules without 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

Communication

Connection type

Spring-loaded/screw terminal, Connection design in TOP direction

Number of slots

1

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

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 V

Output voltage at DC - max

0 V

0 A

Static heat dissipation, non-current-dependent Pvs

0 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-00004477.pdf

DA-DC-00004475.pdf

Drawings

eaton-electronic-devices-terminals-xn-rack-dimensions.eps

eaton-io-modules-xn-rack-3d-drawing.eps

eCAD model

DA-CE-ETN.XN-S3S-SBB

mCAD model

DA-CD-xn_s3s_sbb

DA-CS-xn_s3s_sbb

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