

Specifications



Eaton 140047

Eaton XNE ECO gateway for XI/ON I/O system, ethernet IP

General specifications

PRODUCT NAME	Eaton XNE Gateway
CATALOG NUMBER	140047
MODEL CODE	XNE-GWBR-2ETH-IP
EAN	7640130095281
PRODUCT LENGTH/DEPTH	129 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	33.5 mm
PRODUCT WEIGHT	0.136 kg
CERTIFICATIONS	IEC/EN 61131-2 IEC/EN 61000-6-2 cULus IEC/EN 61000-6-4 Rated data for terminations according to IEC/EN 60947-7-1 CE

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

Communication

ADDRESSING	Address set via decimal rotary coding switch, BootP, DHCP or I/Oassistant Address set via DIP switch, BootP, DHCP or PGM Address range: 1 - 254 decimal
CONNECTION TYPE	Push-In spring-cage terminals, Connection design in TOP direction Screw terminals, Field bus/Supply voltage) 2 x RJ45 (Ethernet Switch), Field bus
DATA TRANSFER RATE	100 MBit/s, Networking Setting automatically 10/100 MBit/s 10 MBit/s, Networking
FIELD VOLTAGE	24 V DC (UL)
INTERFACES	Mini-USB (Service interface) Ethernet (Ethernet-IP protocol), Field bus connection
PROTOCOL	EtherNet/IP Ethernet Other bus systems TCP/IP

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	85 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
ENVIRONMENTAL CONDITIONS	Harmful gasses - SO ₂ : 10 ppm (relative humidity < 75%, no condensation) Harmful gasses - H ₂ S: 1 ppm (relative humidity < 75%, no condensation)
RELATIVE HUMIDITY	5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)

Design verification

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.
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)	Meets the product standard's requirements.

RADIATION	
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.
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	8 W

Electrical rating

SUPPLY VOLTAGE	4.7 - 5.3 V DC
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SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 V
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SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 V
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SUPPLY VOLTAGE AT DC - MAX	30 V
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SUPPLY VOLTAGE AT DC - MIN	18 V
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Features & functions

FEATURES	Fieldbus connection over separate bus coupler possible
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FITTED WITH:	Bus refreshing module Potential separation
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Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
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EXPLOSION SAFETY CATEGORY FOR GAS	None
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POTENTIAL ISOLATION	Through optocoupler: yes
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Electro magnetic compatibility

AIR DISCHARGE	According to EN 61100-4-2
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BURST IMPULSE	According to IEC/EN 61000-4-4
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CONTACT DISCHARGE	According to EN 61100-4-2
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ELECTROMAGNETIC FIELDS	According to IEC EN 61100-4-2
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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)
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RADIATED RFI	IEC/EN 61100-4-6
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SURGE RATING	According to IEC/EN 61000-4-5 Level 4
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VOLTAGE DIPS	According to EN 61131-2 (Voltage fluctuations/voltage dips)
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General information

ACCESSORIES	1 x end plate XN-ABPL and 2 x end bracket XN-WEW-32/2-SW included with supplied equipment.
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ADMISSIBLE RANGE	18 - 30 V DC, Networking
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CONFIGURATION	Maximum station configuration: 74 cards (XN, XNE) of slice design or max. length of station: 1 m
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DEGREE OF PROTECTION	IP20
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MOUNTING METHOD	Rail mounting possible
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RESIDUAL RIPPLE	According to EN 61131-2
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TYPE	• XI/ON ECO gateways • XNE-Gateway with integrated supply
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VOLTAGE TYPE	DC
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Terminal capacities

GAUGE PIN	A1 (according to IEC/EN 60947-1)
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STRIPPING LENGTH (MAIN CABLE)	8 mm
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TERMINAL CAPACITY	0.25 - 0.75 mm ² , with ferrules with plastic collar
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0.25 - 1.5 mm², solid
0.25 - 1.5 mm², flexible
without ferrule
0.25 - 1.5 mm², with
ferrules without plastic
collar

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-io-modules-xne-gateway-dimensions.eps](#)
[eaton-io-modules-xne-gateway-3d-drawing.eps](#)

ECAD MODEL [DA-CE-ETN.XNE-GWBR-2ETH-IP](#)

MANUALS AND USER GUIDES [MN05002007Z_EN](#)

MCAD MODEL [eaton-com-modules-mcad-drawings-xne-gwbr-2eth-ip.dwg](#)
[DA-CS-xne_gwbr_2eth_ip](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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