

Powering Business Worldwide



General specifications

PRODUCT NAME	Eaton XNE Gateway
CATALOG NUMBER	140044
MODEL CODE	XNE-GWBR-CANOPEN
EAN	7640130120600
PRODUCT LENGTH/DEPTH	129 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	33.5 mm
PRODUCT WEIGHT	0.136 kg
CERTIFICATIONS	cULus IEC/EN 61000-6-2 IEC/EN 61131-2 Rated data for terminations according to IEC/EN 60947-7-1 CE IEC/EN 6113-2 IEC/EN 61000-6-4
CATALOG NOTES	supports up to 62 disc-type modules (XN, XNE)

Ambient conditions, mechanical

DROP AND TOPPLE	According to IEC 60068-2-31, free fall according to IEC 60068-2-32
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SHOCK RESISTANCE	Mechanical, According to IEC/EN 60068-2-27 Continuous according to IEC/EN 60068-2-29
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VIBRATION RESISTANCE	According to IEC/EN 60068-2-6
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Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
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AMBIENT STORAGE TEMPERATURE - MAX	85 °C
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AMBIENT OPERATING TEMPERATURE - MIN	0 °C
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AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
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ENVIRONMENTAL CONDITIONS	Harmful gasses - H2S: 1 ppm (relative humidity < 75%, no condensation) Harmful gasses - SO2: 10 ppm (relative humidity < 75%, no condensation)
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RELATIVE HUMIDITY	5 - 95 % (indoor, Level RH-2, non-condensing for storage at 45°C)
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Communication

ADDRESSING	Address set via DIP switch Address range: 1 - 63 decimal
BUS TERMINATION	Via DIP switch, Networking
CONNECTION TYPE	Push-In spring-cage terminals, Field bus Spring-cage terminals, Field bus/Supply voltage) Push-In spring-cage terminals, Connection design in TOP direction
DATA TRANSFER RATE	800 kBit/s 50 kBit/s 500 kBit/s, Networking 800 kBit/s, Networking 125 kBit/s, Networking 250 kBit/s 10 kBit/s, Networking 1000 kBit/s, Networking 1000 kBit/s 20 kBit/s Setting through DIP switch or automatically 50 kBit/s, Networking 250 kBit/s, Networking 500 kBit/s 125 kBit/s
FIELD VOLTAGE	24 V DC (UL)
INTERFACES	PS/2 socket (Service interface) CANopen®, Field bus connection
PROTOCOL	CANopen® CAN Other bus systems

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) 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.
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	6 W

Electrical rating	
SUPPLY VOLTAGE	4.7 - 5.3 V DC
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 V
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 V
SUPPLY VOLTAGE AT DC - MAX	30 V
SUPPLY VOLTAGE AT DC - MIN	18 V

Electro magnetic compatibility	
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)

Features & functions

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

Safety

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

General information

ACCESSORIES	1 x end plate XN-ABPL and 2 x end bracket XN-WEW-32/2-SW included with supplied equipment.
ADMISSIBLE RANGE	18 - 30 V DC, Networking
CONFIGURATION	Maximum station configuration: 62 cards (XN, XNE) of slice design or max. length of station: 1 m
DEGREE OF PROTECTION	IP20
MOUNTING METHOD	Rail mounting possible
RESIDUAL RIPPLE	According to EN 61131-2
TYPE	• XI/ON ECO gateways • XNE-Gateway with integrated supply
VOLTAGE TYPE	DC

Terminal capacities

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

Resources

[eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf](#)

BROCHURES

[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

[ETN.XNE-GWBR-CANOPEN](#)

MANUALS AND USER GUIDES

[MN05002005Z_EN](#)

[xne_gwbr_canopen.stp](#)

MCAD MODEL

[eaton-com-modules-mcad-drawings-xne-gwbr-canopen.dwg](#)

SOFTWARE, FIRMWARE, AND APPLICATIONS

[IOA2_V2.64](#)

[XNE-GWBR-CANopen_00008016_V4.30](#)

[XNE107591V423](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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