

Specifications



Eaton 140036

Eaton XNE Digital output module XI/ON ECO,
24 V DC, 8DO

General specifications

PRODUCT NAME	Eaton XNE Output module
CATALOG NUMBER	140036
MODEL CODE	XNE-8DO-24VDC-0.5A-P
EAN	7640130120563
PRODUCT LENGTH/DEPTH	129.5 mm
PRODUCT HEIGHT	74.5 mm
PRODUCT WIDTH	13 mm
PRODUCT WEIGHT	0.055 kg

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

DROP AND TOPPLE	According to IEC 60068-2-31, free fall according to IEC 60068-2-32
SHOCK RESISTANCE	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

Communication

CONNECTION TYPE	Push-In spring-cage terminals, Connection design in TOP direction
PROTOCOL	Other bus systems

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	1.5 W

Electrical rating

POWER LOSS	1.5 W
RATED OPERATIONAL VOLTAGE	24 V DC (supply terminal)
SHORT-CIRCUIT PROTECTION	Short-circuit proof, Short-circuit rating, Digital outputs
SHORT-CIRCUIT RELEASE	Automatic, li, Reset after short-circuit rectified, Digital outputs
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MIN	0 VAC
SUPPLY VOLTAGE AT DC - MAX	30 VDC
SUPPLY VOLTAGE AT DC - MIN	18 VDC

Features & functions

ELECTRIC CONNECTION TYPE	Plug-in connection
FEATURES	Fieldbus connection over separate bus coupler possible
FITTED WITH:	Connectable sensors for inductive loads Connectable sensors for resistive loads Connectable sensors for lamp loads
FUNCTIONS	Short-circuit protection, outputs available Positive switching

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)

General information

CURRENT CONSUMPTION	15 mA, from module bus, Analog input modules 3 mA, from supply terminal
DEGREE OF PROTECTION	IP20
MOUNTING METHOD	Rail mounting possible
OPERATING FREQUENCY	As per DC13 to IEC 60947-5-1 at inductive load
PRODUCT CATEGORY	XNE Slice module
SWITCHING FREQUENCY	100 Hz, with resistive load, Digital outputs 10 Hz, with lamp load, Digital outputs
TYPE	XI/ON I/O module
VOLTAGE TYPE	DC
NUMBER OF CHANNELS	8

Input/Output

DELAY TIME	300 μ s, Digital outputs, Delay on signal change and resistive load, from High to Low signal
	300 μ s, Digital outputs, Delay on signal change and resistive load, from Low to High signal

INPUT CURRENT AT SIGNAL 1	0 mA
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LAMP LOAD	≤ 6 W (at RLL)
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LOAD RESISTANCE	$\geq 48 \Omega$ According to DC13 to IEC 60947-5-1
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NUMBER OF INPUTS (DIGITAL)	0
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NUMBER OF OUTPUTS (DIGITAL)	8
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OUTPUT	8 Digital Outputs (24 V DC, 0.5 A)
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OUTPUT CURRENT	< 1 A (high level, permissible range) 0.5 A
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OUTPUT VOLTAGE	23 V DC (Digital outputs)
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UTILIZATION FACTOR	100 %
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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 - 1.5 mm ² , flexible without ferrule, H07V-K
	0.25 - 0.75 mm ² , with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
	0.25 - 1.5 mm ² , with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)
	0.25 - 1.5 mm ² , solid, H07V-U

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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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-digital-input-module-xne-communication-module-dimensions.eps
	eaton-io-modules-xne-output-module-3d-drawing.eps

ECAD MODEL	DA-CE-ETN.XNE-8DO-24VDC-0.5A-P
	MN05002010Z_EN

MANUALS AND USER GUIDES	eaton-module-mcad-drawings-xne-8do-24vdc-0-5a-p.dwg
	eaton-module-mcad-drawings-xne-8do-24vdc-0-5a-p.dwg

MCAD MODEL	eaton-module-mcad-drawings-xne-8do-24vdc-0-5a-p.dwg
	eaton-module-mcad-drawings-xne-8do-24vdc-0-5a-p.dwg

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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