

Specifications



Eaton 140159

Eaton XN Base module block XI/ON, tension spring, 6 connection levels, con. to C rail

General specifications

PRODUCT NAME	Eaton XN Rack
CATALOG NUMBER	140159
MODEL CODE	XN-B6T-SBCSBC
EAN	7640130120501
PRODUCT LENGTH/DEPTH	154.5 mm
PRODUCT HEIGHT	49.9 mm
PRODUCT WIDTH	100.8 mm
PRODUCT WEIGHT	0.466 kg

CERTIFICATIONS

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

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	Connection to C rail
CONNECTION TYPE	Spring-loaded/screw terminal, Connection design in TOP direction
NUMBER OF SLOTS	1

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	0 °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) 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	0 W

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)

General information

DEGREE OF PROTECTION	IP20
MOUNTING METHOD	Rail mounting possible
NUMBER OF CONNECTION LEVELS	6
TYPE	XI/ON block base module
USED WITH	XN-32DO-24VDC-0.5A-P
VOLTAGE TYPE	DC

Safety

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

Features & functions

FITTED WITH:	Pluggable modules, central modules Pluggable modules, digital I/O
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Input/Output

INPUT CURRENT AT AC - MAX	0 A
INPUT VOLTAGE AT AC 50 HZ - MAX	0 V
INPUT VOLTAGE AT AC 50 HZ - MIN	0 V
INPUT VOLTAGE AT DC - MAX	0 V
INPUT VOLTAGE AT DC - MIN	0 V
OUTPUT CURRENT AT AC, 50 HZ - MAX	0 A
OUTPUT VOLTAGE AT AC 50 HZ - MAX	0 V
OUTPUT VOLTAGE AT DC - MAX	0 V
OUTPUT VOLTAGE AT DC - MIN	0 V

Terminal capacities

GAUGE PIN	A1 (according to IEC/EN 60947-1)
STRIPPING LENGTH (MAIN CABLE)	8 mm
TERMINAL CAPACITY	0.5 - 1.5 mm ² , 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)
0.5 - 1.5 mm², flexible
without ferrule, H07V-K

Resources

BROCHURES	Slice card modular I/O system for the machine building industry XN300 - brochure
	eaton-xc300-modular-plc-brochure-br050008en-en-us.pdf
DRAWINGS	eaton-io-modules-xn-rack-dimensions.eps
	eaton-io-modules-xn-rack-3d-drawing-006.eps
ECAD MODEL	DA-CE-ETN.XN-B6T-SBCSBC
MCAD MODEL	eaton-accessories-mcad-drawings-xn-b6t-sbbsbb.dwg
	DA-CS-xn_b6t_sbbsbb

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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