

Specifications



Eaton 114590

Eaton xEffect xVtl Enclosures Switch- & Controlgear Enclosure. Distribution cabinet, HxWxD=2000x800x300mm, IP55, 8/3/20

General specifications

PRODUCT NAME	Eaton xEffect xVtl empty enclosure
CATALOG NUMBER	114590
MODEL CODE	XVTL-MP/BX/IC-8/3/20
EAN	4015081139903
PRODUCT LENGTH/DEPTH	800 mm
PRODUCT HEIGHT	2000 mm
PRODUCT WIDTH	308.5 mm
PRODUCT WEIGHT	105 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 60439-1 IEC/EN 60439-3 IEC/EN 62208



Powering Business Worldwide

Product specifications

SPECIAL FEATURES

- 40 °C (intermittent maximum value)
- 35 °C (maximum value, 24 h average)
- -5 °C (minimum value)
- Fragment basic equipment
- Including open cable entries top, prepared for F3A flange
- Including frame, sheet steel doors, back plate, bottom and top plate, mounting plate, lifting eyelets, cylinder lock and branding strip
- Including support frame for the IVS mounting units
- including insulating surround and mounted insulated support bracket
- Without side walls

Resources

CATALOGUES

[eaton-xenergy-light-add-on-distribution-board-product-catalog-2017-en-us.pdf](#)

[eaton-pdd-xenergy-light-catalog-ca014022en-en-us.pdf](#)

MANUALS AND USER GUIDES

[DA-MN-170914860](#)

TYPE	Control centres XVTL
FEATURES	Connectable EMC-version
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	Meets the product standard's requirements.
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	Not applicable.

10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Not applicable.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Not relevant to indoor installations.
10.2.5 LIFTING	Met; assembled and secured as per the latest applicable instruction leaflet.
10.2.6 MECHANICAL IMPACT	IK10
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	IP55
10.4 CLEARANCES AND CREEPAGE DISTANCES	Is the panel builder's responsibility.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	< 0.1 Ω ; meets the product standard's requirements.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Is the panel builder's responsibility.
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	Ui = 690 V AC
10.9.3 IMPULSE WITHSTAND VOLTAGE	6 kV
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Does not apply to metal enclosures.
FITTED WITH:	Screw M10: 50 x 106 A²s (base frame, main earthing) M6 weld stud: 50 x 106 A²s (door) Mounting plate Taptite screw M6: 3.9 x 106 A²s (enclosure side plate, back plate)
FREQUENCY RATING	50 Hz
POLLUTION DEGREE	3
SURFACE FINISHING	RAL 7035, light gray Powder coating

	Painting, phosphated and polyester powder coating Phosphated Polyester powder coating
DEGREE OF PROTECTION	IK10 IP55 (with door and flange) IP55 4X (NEMA)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6 kV
CABLE ENTRY POSTION	Various covers allow cable entry from above and/or below
GRADE MATERIAL	Sheet steel 2 mm
UNIT TYPE	Complete housing
VOLTAGE RATING	415 V
ADMISSIBLE HEAT DISSIPATION (AMBIENT AIR TEMPERATURE +35 °C) - MAX	429 W
ADMISSIBLE HEAT DISSIPATION (NH-SE) - MAX	429 W
HEAT DISS. AMBIENT 35°C DELTA T:20°C FREE STAND INDIVID. ENCL. TOP (IEC 60890)	204 W
HEAT DISS. AMBIENT 35°C DELTA T: 20°C FREE STAND MIDDLE ENCL. TOP (IEC 60890)	192 W
HEAT DISS. AMBIENT 35°C DELTA T:20°C FREE STAND STARTING ENCL. TOP (IEC 60890)	198 W
HEAT DISS. AMBIENT 35°C DELTA T:20°C WALL MOUNT INDIVID. ENCL. TOP (IEC 60890)	187 W
HEAT DISS. AMBIENT 35°C DELTA T: 20°C WALL MOUNT MIDDLE ENCL. TOP (IEC 60890)	169 W
HEAT DISS. AMBIENT 35°C DELTA T:20°C WALL MOUNT STARTING ENCL. TOP (IEC 60890)	186 W
HEAT DISS. AMBIENT 35°C DELTA T:35°C FREE STAND INDIVID. ENCL. TOP (IEC 60890)	409 W

HEAT DISS. AMBIENT 35°C DELTA T: 35°C FREE STAND MIDDLE ENCL. TOP (IEC 60890)	386 W
HEAT DISS. AMBIENT 35°C DELTA T: 35°C FREE STAND STARTING ENCL. TOP (IEC 60890)	397 W
HEAT DISS. AMBIENT 35°C DELTA T: 35°C WALL MOUNT INDIVID. ENCL. TOP (IEC 60890)	375 W
HEAT DISS. AMBIENT 35°C DELTA T: 35°C WALL MOUNT MIDDLE ENCL. TOP (IEC 60890)	339 W
HEAT DISS. AMBIENT 35°C DELTA T: 35°C WALL MOUNT STARTING ENCL. TOP (IEC 60890)	374 W
MATERIAL QUALITY	Other
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	65 kA
COLOR	Gray
COVER/DOOR TYPE	Door interlock can be fitted with profile cylinder Outside-supported doors with hidden hinges Folding handle with espagnolette lock Three-point interlock Can be removed from 90°
PERMISSIBLE LOAD OF THE MOUNTING PLATE ACCORDING TO IEC 62208 - MAX	4000 N
NUMBER OF LOCKS	1
RAL-NUMBER	7035
RATED INSULATION VOLTAGE (UI)	690 V
RATED PEAK WITHSTAND CURRENT	143 kA
MATERIAL	Sheet steel 2 mm Steel
MOUNTING METHOD	Wall fastening
OVERVOLTAGE CATEGORY	IV
FREQUENCY RATING OF CONTACTS	50 Hz (AC)
FUNCTIONS	Combination enclosure
INSTALLATION TYPE	Floor standing wall model

RATED OPERATION CURRENT (IE)	2500 A
COVER/DOOR ANGLE	120° door opening angle (single mounting) 120° door opening angle (combination mounting)
PROTECTION CLASS	I
INSTALLATION SITE	Indoor installation
RELATIVE HUMIDITY	50 % (at 40 °C)
SURFACE TREATMENT	Painting, phosphated and polyester powder coating
NUMBER OF COVERS/DOORS	1
SUITABLE FOR	Metrical mounting
PERMISSIBLE LOAD OF THE ENCLOSURE ACCORDING TO IEC 62208 - MAX	5000 N
PERMISSIBLE LOAD OF THE DOOR(S) ACCORDING TO IEC 62208 - MAX	1000 N
THERMAL DISSIPATION (DELTA T = 20 K) ACCORDING TO IEC/TR 60890	375.491 W
NUMBER OF CONNECTOR HOLES	0

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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