

Eaton 114594

Catalog Number: 114594

Eaton xEffect xVtl Enclosures Switch- & Controlgear Enclosure.
Distribution cabinet, HxWxD=2000x800x800mm, IP55, 8/8/20



General specifications

Product Name	Catalog Number
Eaton xEffect xVtl empty enclosure	114594
Model Code	EAN
XVTL-MP/BX/IC-8/8/20	4015081139941
Product Length/Depth	Product Height
800 mm	2000 mm
Product Width	Product Weight
808.5 mm	113 kg
Compliances	Certifications
RoHS conform	IEC/EN 62208
	IEC/EN 60439-3
	IEC/EN 60439-1

Product specifications

10.11 Short-circuit rating

Is the panel builder's responsibility.

Heat diss. ambient 35°C delta T: 20°C free stand starting encl. top (IEC 60890)

318 W

Heat diss. ambient 35°C delta T: 20°C free stand middle encl. top (IEC 60890)

305 W

RAL-number

7035

10.4 Clearances and creepage distances

Is the panel builder's responsibility.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility.

Mounting method

Wall fastening

10.2.5 Lifting

Met; assembled and secured as per the latest applicable instruction leaflet.

Material quality

Other

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

Fitted with:

M6 weld stud: 50 × 106 A²s (door)

Screw M10: 50 × 106 A²s (base frame, main earthing)

Taptite screw M6: 3.9 × 106 A²s (enclosure side plate, back plate)

Mounting plate

Frequency rating

50 Hz

10.8 Connections for external conductors

Is the panel builder's responsibility.

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

Resources

Catalogs

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

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

Certification reports

[DA-DC-03_xEnergy_Light_XVTL](#)

Manuals and user guides

[DA-MN-170914860](#)

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

Cable entry position

Various covers allow cable entry from above and/or below

Rated operation current (I_e)

2500 A

Permissible load of the door(s) according to IEC 62208 - max

1000 N

Color

Gray

Unit type

Complete housing

Features

EMC-version

Connectable

Admissible heat dissipation (NH-SE) - max

697 W

10.9.3 Impulse withstand voltage

6 kV

10.6 Incorporation of switching devices and components

Is the panel builder's responsibility.

10.5 Protection against electric shock

< 0.1 Ω; meets the product standard's requirements.

Heat diss. ambient 35°C delta T:20°C free stand individ. encl. top (IEC 60890)

334 W

Cover/door type

Can be removed from 90°

Three-point interlock

Folding handle with espagnolette lock

Outside-supported doors with hidden hinges

Door interlock can be fitted with profile cylinder

Rated peak withstand current

143 kA

10.13 Mechanical function

Meets the product standard's requirements.

10.2.6 Mechanical impact

IK10

10.9.4 Testing of enclosures made of insulating material

Does not apply to metal enclosures.

10.3 Degree of protection of assemblies

IP55

Number of covers/doors

1

Grade material

Sheet steel 2 mm

Heat diss. ambient 35°C delta T: 35°C free stand middle incl. top
(IEC 60890)

612 W

Installation type

Floor standing wall model

Heat diss. ambient 35°C delta T: 35°C free stand individ. incl. top
(IEC 60890)

669 W

Thermal dissipation (Delta T = 20 K) according to IEC/TR 60890

649.562 W

Admissible heat dissipation (ambient air temperature +35 °C) -
max

697 W

Suitable for

Metrical mounting

Surface finishing

Painting, phosphated and polyester powder coating

Phosphated

Polyester powder coating

Powder coating

RAL 7035, light gray

Heat diss. ambient 35°C delta T: 35°C free stand starting incl. top
(IEC 60890)

639 W

Frequency rating of contacts

50 Hz (AC)

Permissible load of the mounting plate according to IEC 62208 -
max

4000 N

Protection class

1

I

Heat diss. ambient 35°C delta T:35°C wall mount starting encl.
top (IEC 60890)

628 W

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.

Cover/door angle

120° door opening angle (combination mounting)

120° door opening angle (single mounting)

Voltage rating

415 V

Permissible load of the enclosure according to IEC 62208 - max

5000 N

10.9.2 Power-frequency electric strength

$U_i = 690 \text{ V AC}$

Degree of protection

IK10

IP55 (with door and flange)

IP55

4X (NEMA)

Overvoltage category

IV

Relative humidity

50 % (at 40 °C)

Heat diss. ambient 35°C delta T:20°C wall mount individ. encl.
top (IEC 60890)

324 W

Rated short-time withstand current (Icw)

65 kA

Heat diss. ambient 35°C delta T: 20°C wall mount middle encl.
top (IEC 60890)

289 W

Heat diss. ambient 35°C delta T:35°C wall mount individ. encl.
top (IEC 60890)

650 W

Pollution degree

3

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Rated impulse withstand voltage (Uimp)

6 kV

Heat diss. ambient 35°C delta T: 35°C wall mount middle encl.
top (IEC 60890)

579 W

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

Material

Steel

Sheet steel 2 mm

Functions

Combination enclosure

Heat diss. ambient 35°C delta T:20°C wall mount starting encl.
top (IEC 60890)

313 W

Installation site

Indoor installation

Type

Control centres XVTL

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Not relevant to indoor installations.

10.2.7 Inscriptions

Meets the product standard's requirements.

Surface treatment

Painting, phosphated and polyester powder coating

Number of locks

1

Rated insulation voltage (Ui)

690 V



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