

# Eaton 114597

Catalog Number: 114597

Eaton xEffect xVtl Enclosures Switch- & Controlgear Enclosure.  
Distribution cabinet, HxWxD=2000x1000x500mm, IP55, 0/5/20



## General specifications

|                                    |                |
|------------------------------------|----------------|
| Product Name                       | Catalog Number |
| Eaton xEffect xVtl empty enclosure | 114597         |
| Model Code                         | EAN            |
| XVTL-MP/BX/IC-10/5/20              | 4015081139972  |
| Product Length/Depth               | Product Height |
| 1000 mm                            | 2000 mm        |
| Product Width                      | Product Weight |
| 508.5 mm                           | 135 kg         |
| Compliances                        | Certifications |
| RoHS conform                       | IEC/EN 60439-3 |
|                                    | IEC/EN 62208   |
|                                    | 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)

296 W

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

294 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:

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

M6 weld stud: 50 × 106 A²s (door)

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

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<sub>e</sub>)

2500 A

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

1000 N

#### Color

Gray

#### Unit type

Complete housing

#### Features

Connectable

EMC-version

#### Admissible heat dissipation (NH-SE) - max

633 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)

303 W

#### Cover/door type

Outside-supported doors with hidden hinges

Door interlock can be fitted with profile cylinder

From width 1000 mm two doors

Can be removed from 90°

Folding handle with espagnolette lock

Three-point interlock

#### 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

2

#### Grade material

Sheet steel 2 mm

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

589 W

#### Installation type

Floor standing wall model

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

608 W

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

588.787 W

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

633 W

#### Suitable for

Metrical mounting

#### Surface finishing

Polyester powder coating

RAL 7035, light gray

Powder coating

Painting, phosphated and polyester powder coating

Phosphated

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

594 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)

554 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

IP55 (with door and flange)

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)

294 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)

263 W

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

589 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)

528 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

Sheet steel 2 mm

Steel

## Functions

Combination enclosure

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

276 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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