Specifications

Eaton 114551



Catalog Number: 114551

Eaton xEffect xVtl Enclosures Switch- & Controlgear Enclosure. Distribution cabinet, HxWxD=1600x400x300mm, IP55

General specifications

Product Name
Eaton xEffect xVtl empty enclosure

Catalog Number
114551

EAN
4015081139514

Product Length/Depth
425 mm

Product Height
1600 mm

Product Width
308.5 mm

Product Weight
70 kg

Compliances
RoHS conform

Certifications
IEC/EN 60439-3
IEC/EN 62208
IEC/EN 60439-1

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

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.

Resources

Catalogs

eaton-pdd-xenergy-light-catalog-ca014022en-en-us.pdf

eaton-xenergy-light-add-on-distribution-board-product-catalog-2017-en-us.pdf

Declarations of conformity

DA-DC-03_xEnergy_Light_XVTL

Manuals and user guides

DA-MN-170914860

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:

Mounting plate

Screw M10: 50 x 106 A^2s (base frame, main earthing)

Taptite screw M6: 3.9 × 106 A^2s (enclosure side plate, back plate)

M6 weld stud: 50 × 106 A^2s (door)

Frequency rating

50 Hz

Pollution degree

3

Surface finishing

Painting, phosphated and polyester powder coating

Powder coating

Phosphated

Polyester powder coating

RAL 7035, light gray

Degree of protection

IP55

IK10

IP55 (with door and flange)

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

212 W

Admissible heat dissipation (NH-SE) - max

212 W

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

101 W

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

74 W

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

84 W

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

80 W

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

65 W

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

71 W

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

202 W

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

148 W

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

168 W

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

161 W

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

130 W

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

143 W

Material quality

Other

Rated short-time withstand current (Icw)

65 kA

Color

Gray

Cover/door type

Can be removed from 90°

Door interlock can be fitted with profile cylinder

Three-point interlock

Outside-supported doors with hidden hinges

Folding handle with espagnolette lock

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

Steel

Sheet steel 2 mm

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 (combination mounting)

120° door opening angle (single 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

160.631 W

Number of connector holes

0

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