Specifications

Eaton 111681

Catalog Number: 111681

Eaton xEffect CS LV systems Switch- & Controlgear Enclosure. Wall enclosure with mounting plate, HxWxD=400x300x150mm



General specifications

Product Name
Eaton xEffect CS enclosure single door

Catalog Number
111681

EAN
4015081112401

Product Length/Depth
150 mm

Product Height
400 mm

Product Width
300 mm

Product Weight
6.95 kg

Compliances
UL 508A; CSA-C22.2 No.14; IEC/EN 62208; CE marking
RoHS conform
UL CSA09 (may be provided with metal sub-panel, no back mounted components are allowed between sub-panel and the back sheet metal enclosure)

Certifications
In accordance with Directive 2015/863/EU of the European Parliament and Council
UL CSA08 (request filed)
UL (File No. E336299)
UL (Category Control Number NITW)
IEC/EN 62208

Catalog Notes
Foamed polyurethane sealing throughout. Impact resistance category IK10 to EN 62262. Sheet steel mounting plate. Bottom plate with foamed gasket. Single door, door stop on the right, door opening angle 120°. Door hinge pins with quick chang

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Product specifications

Used with

Industrial control panels

Special features

Enclosed, foamed gasket
Foamed polyurethane sealing throughout.
Impact resistance category IK10 to EN 62262.
Sheet steel mounting plate
Bottom plate with foamed gasket.
Single door, door stop on the right, door opening angle 120°
Door hinge pins with quick change technology.
Standardized locking system with sash fastener.
Powder coating RAL 7035 inside and outside
Lock, 3 mm double ward key
Including M6 threaded welded studs for earth conductor connections in the door
Side plates without apertures
Top plate without apertures

Type

Wall-mounting housing CS
Wall-mounting housing with mounting plate

Features

Wall build in
Pole fastening

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.

Resources

Brochures

eaton-xeffect-cs-new-features-fl015002zu.pdf

Catalogs

eaton-xeffect-cs-enclosure-catalog-fk4300-1178gb-en-us.pdf

Certification reports

eaton-xeffect-cs-enclosure-declaration-of-conformity-en-us.pdf

Declarations of conformity

DA-DC-03_xEffect_CS

Installation instructions

IL2521

mCAD model

DA-CS-cs2520_150_111681

DA-CD-cs2520_150

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

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 to enclosures without lifting aids.

10.2.6 Mechanical impact

IK10

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

IP66

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 = 1000 V AC

10.9.3 Impulse withstand voltage

Does not apply to basic enclosures as defined in EN 62208.

10.9.4 Testing of enclosures made of insulating material

Does not apply to metal enclosures.

Fitted with:

Including M6 threaded welded studs for earth conductor connections in the door:

Mounting plate

Cover

Door

Surface finishing

Gloss

Powder coating

Structured powder spray polyester based paint finish

Semi-textured

Climatic proofing

Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30

Degree of protection

12 (NEMA)

IEC: IP66, indoor; UL/CSA Types 1, 12, indoor only.

IP66

IP23 (with ventilating plates)

IK10

IK10 (impact resistance)

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

21 W

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

18 W

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

19 W

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

44 W

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

39 W

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

41 W

Material quality

Other

Color

Light gray (RAL 7035)

Gray

Cover/door type

Door hinges on the right, can be converted by user

Door hinges right

Can be converted by user

Standard closure 3 mm double-ward key (door interlock)

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

1500 N

Number of hinges

2

Number of locks

1

RAL-number

7035

Thickness of mounting plate

2 mm

Weight of mounted components - max

175 kg

Ambient operating temperature details

-25 °C - 40 °C

Design type

Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure.

Material

Steel plate

Steel

Mounting method

Wall fastening

9 mm drilling dimensions for wall mounting (Back plate)

Intermediate mounting

Functions

Floor standing enclosure

Installation type

Floor standing wall model

Cover/door angle

120° door opening angle

Cover/door profile

2 door profiles

Installation site

Indoor installation

Flange plate dimensions

112 mm x 232 mm

Surface treatment

Structured powder spray polyester based paint finish

Heat diss. wall mount individual encl. top

21 W

Heat diss. wall mount middle encl. top

18 W

Heat diss. wall mount starting encl. top

19 W

Load capacity (door)

25 kg

Material thickness (body)

1.2 mm

Material thickness (bottom plate)

2 mm

Material thickness (door)

1 mm

Mounting plate height

370 mm

Mounting plate width

250 mm

Number of covers/doors

1

Load capacity (mounting plate)

500 kg payload, when brackets fitted in all four enclosure corners (vertically or horizontally) and the weights are symmetrically distributed within the enclosure.

150 kg

Suitable for

Metrical mounting

Mounting plate material

Sheet steel, hot-galvanized

Permissible load of the enclosure according to IEC 62208 - max

1750 N

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

250 N

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

21 W

Number of connector holes

0

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