Specifications

Eaton 090147

Catalog Number: 090147

Eaton xEnergy Safety Ci LV systems LV switchgear. Insulated enclosure, +knockouts, HxWxD=750x375x266mm



General specifications

Product Name
Eaton xEnergy Safety Ci empty enclosure insulated

Catalog Number
090147

EAN
4015080901471

Product Length/Depth
225 mm

Product Height
375 mm

Product Width
375 mm

Product Weight
3.5 kg

Compliances
RoHS conform

Certifications
EN 62208
EN 61439-2

Powering Business Worldwide

Product specifications

Used with

Eaton Switching and protection devices

Special features

With metric knockouts in all sides of the enclosure Include fixing straps for wall mounting Sealable cover fasteners Full-area knockouts in the sides can be converted to a distribution board enclosure with door

Type

Basic enclosure Individual enclosures xEnergy Safety Ci

Features

UV resistance beneath protective shield
Cover with overpressure release

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

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Lower part: 960 °C / cover: 850 °C

10.2.4 Resistance to ultra-violet (UV) radiation

Not relevant to indoor installations.

10.2.5 Lifting

20 kg per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet.

Resources

Brochures

eaton-xenergy-safety-ci-subway-line-success-story-en-us.pdf

eaton-xenergy-safety-ci-enclosure-brochure-br014001en-en-us.pdf

Catalogs

eaton-xenergy-ci-safety-catalog-ca015006en-en-us.pdf

Drawings

eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-017.eps

eaton-enclosures-mounting-xenergy-safety-ci-lv-systems-dimensions-006.eps

eaton-enclosures-xenergy-safety-ci-lv-systems-dimensions-007.eps

eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-005.eps

eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-015.eps

Installation instructions

05670392.pdf

mCAD model

ci44e_200_t.stp

ci44e_200_t.dwg

10.2.6 Mechanical impact

IK10

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

IP65

10.4 Clearances and creepage distances

Is the panel builder's responsibility.

10.5 Protection against electric shock

Protection class 2, therefore not applicable.

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

8 kV

10.9.4 Testing of enclosures made of insulating material

Meets the product standard's requirements.

Surface finishing

Resistant to corrosion

Degree of protection

IK10
IP65
Other

Enclosure material

Plastic

Surface protection

Other

Chemical resistance

Resistant against: acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions
Not resistant to: alkalis, benzene
Partly resistant to: Acids > 10 %

Circuit integrity

Other

Unit type

Single unit

Built-in depth

200 mm

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

31 W

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

27 W

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

29 W

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

62 W

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

53 W

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

57 W

Color

Light gray (RAL 7035, base)

Transparent, smoky gray (cover)

Gray

Cover/door color

Transparent

Cover/door model

Closed

Cover/door type

Transparent with transparent door

Door

Single

Number of openings (flange plates)

4

Plate thickness (cabinet)

6 mm

Plate thickness (cover/door)

6 mm

RAL-number

7035

Width in number of modular spacings

15

Ambient operating temperature details

-40 °C - 80 °C

Material

Non-reinforced polycarbonate (cover)

Glass-fibre reinforced polycarbonate (base)

Halogen free

Mounting method

Surface mounted (plaster)

Number of rows

0

Functions

Extension possible

Temperature resistance

Temperature resistant: -40 °C - 120 °C (enclosure)

Temperature resistant: 80 °C (gasket)

Temperature resistant: 85 °C (enclosure bolt)

Flammability characteristics (UL)

V1 (base) (UL94)

V2 (cover) (UL94)

Protection class

II

Number of modules

1

Surface treatment

Resistant to corrosion

Internal depth

200 mm

Mounting depth with mounting plate

200 mm

Nominal current

1600 A

Number of conduit inlets

100

Suitable for

Outdoor use

Lightning protection

Saline spray resistance

IEC 60068-2-11

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