Specifications

Eaton 093504



Catalog Number: 093504

Eaton xEnergy Safety Ci LV systems LV switchgear. Panel enclosure, with gland plate and cable glands, HxWxD=375x375x225mm

General specifications

Product Name
Eaton xEnergy Safety Ci empty enclosure insulated

Catalog Number
093504

EAN
4015080935049

Product Length/Depth
225 mm

Product Height
375 mm

Product Width
375 mm

Product Weight
3.4 kg

Compliances
IEC/EN 60439-1, VDE 0660 Part 500
RoHS conform

Certifications
EN 61439-2
EN 62208

Powering Business Worldwide

Product specifications

Used with

The reference values indicated in the table apply to the basic elements of the distribution board. As far as devices, terminals etc. fitted into the enclosures are concerned, their own specific technical data and rated values apply.

Special features

Low-voltage fuses (IEC/EN 60269, VDE 0636) Sealable cover fasteners Sides closed, but with full area knockout Open top Fitting of cable supports in the distribution board with wedge-lock fastener Gland plate can be split, cables can be inserted from the front

Type

Basic enclosure Panel enclosure with gland plates fitted 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.

Resources

Brochures

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

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

Catalogs

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

Drawings

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

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

eaton-insulated-boards-panel-xenergy-safety-ci-lv-systems-dimensions-004.eps

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

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

Installation instructions

05670392.pdf

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.

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.

Creepage resistance

KB160, KC175 (base, to IEC 60112)
KB100, KC200 (cover, to IEC 60112)

Degree of protection

IP65 (enclosure)
IP64 (KST cable entries from above)
IP00 (cable entry open)
IP65 (KST cable entries from below)
IP65
IK10
Other

Enclosure material

Plastic

Surface protection

Other

Chemical resistance

Partly resistant to: Acids > 10 %

Not resistant to: alkalis, benzene

Resistant against: acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions

Circuit integrity

Other

Unit type

Stand-alone device

Ambient operating temperature - max

40 °C

Ambient operating temperature - min

-5 °C

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

Gray

Light gray (RAL 7035, base)

Transparent, smoky gray (cover)

Cover/door color

Transparent

Cover/door model

Closed

Cover/door type

Cover

None

Number of openings (flange plates)

4

Operating altitude without derating - max

2000 mm

Plate thickness (cabinet)

6 mm

Plate thickness (cover/door)

6 mm

RAL-number

7035

Surface resistance (IEC 60093)

10 T Ω

Width in number of modular spacings

15

Material

Halogen free

Glass-fibre reinforced polycarbonate (base)

Non-reinforced polycarbonate (cover)

Cable entry type

14 - 68 mm (3x)

Mounting method

Surface mounted (plaster)

Creepage and clearance distances

III/3 to IEC/EN 60439-1 (standard)

Number of rows

0

Dielectric strength

30 kV/mm

Functions

Extension possible

Temperature resistance

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

Temperature resistant: 85 °C (enclosure bolt)

Temperature resistant: 80 °C (gasket)

Flammability characteristics (UL)

V2 (cover) (UL94)

V1 (base) (UL94)

Flammability characteristics of glow rod test

VDE 0304 Part 3 level IIb, level IIb to IEC 60707

Protection class

II

Number of modules

1

Relative humidity

50 % (at 40 °C)

90 % (at 20 °C)

Internal depth

200 mm

Mean ambient operating temperature (24 hours)

35 °C

Mounting depth with mounting plate

200 mm

Nominal current

1600 A

Number of conduit inlets

100

Suitable for

Lightning protection

Outdoor use

Mounting grid

25 mm (DIN 43660)

Saline spray resistance

IEC 60068-2-11



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