

Specifications



Eaton 012781

Eaton xEnergy Safety Ci LV systems LV switchgear. Insulated enclosure, top+bottom open, HxWxD=250x187.5x175mm

General specifications

PRODUCT NAME	Eaton xEnergy Safety Ci empty enclosure insulated
CATALOG NUMBER	012781
MODEL CODE	CI23-150
EAN	4015080127819
PRODUCT LENGTH/DEPTH	175 mm
PRODUCT HEIGHT	250 mm
PRODUCT WIDTH	187.5 mm
PRODUCT WEIGHT	1.28 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	EN 62208 EN 61439-2



Powering Business Worldwide

Additional information

FEATURES	UV resistance beneath protective shield Cover with overpressure release
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FLAMMABILITY CHARACTERISTICS (UL)	V1 (base) (UL94) V2 (cover) (UL94)
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FUNCTIONS	Extension possible
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PROTECTION CLASS	II
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RAL-NUMBER	7035
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SPECIAL FEATURES	Housing prepared for distribution board Two sides closed, can be folded out two sides open Sealable cover fasteners Integrated pressure-relief mechanism for short-circuits
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SUITABLE FOR	Lightning protection Outdoor use
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Delivery programme

COLOR	Gray
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NOMINAL CURRENT	1600 A
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TYPE	Basic enclosure Panel enclosures xEnergy Safety Ci
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Design verification to IEC/EN 61439

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	5 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	Is the panel builder's

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE DETAILS	-40 °C - 80 °C
TEMPERATURE RESISTANCE	Temperature resistant: -40 °C - 120 °C (enclosure) Temperature resistant: 80 °C (gasket) Temperature resistant: 85 °C (enclosure bolt)

ELECTRICAL CIRCUITS AND CONNECTIONS	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.

Technical data - electrical

CIRCUIT INTEGRITY	Other
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Technical data - mechanical

CHEMICAL RESISTANCE	Not resistant to: alkalis, benzene Resistant against: acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 %
COVER/DOOR COLOR	Transparent
COVER/DOOR MODEL	Closed
COVER/DOOR TYPE	Optional Transparent None
DEGREE OF PROTECTION	IK10 Other IP65
ENCLOSURE MATERIAL	Plastic
MATERIAL	Halogen free Non-reinforced polycarbonate (cover) Glass-fibre reinforced polycarbonate (base)
MOUNTING DEPTH WITH MOUNTING PLATE	150 mm
NUMBER OF CONDUIT INLETS	30
NUMBER OF MODULES	1
NUMBER OF OPENINGS (FLANGE PLATES)	4
NUMBER OF ROWS	0
PLATE THICKNESS (CABINET)	6 mm
PLATE THICKNESS (COVER/DOOR)	6 mm
SALINE SPRAY RESISTANCE	IEC 60068-2-11

SURFACE FINISHING	Resistant to corrosion
SURFACE PROTECTION	Other
SURFACE TREATMENT	Resistant to corrosion
UNIT TYPE	Single unit
WIDTH IN NUMBER OF MODULAR SPACINGS	9
BUILT-IN DEPTH	150 mm
INTERNAL DEPTH	150 mm
MOUNTING METHOD	Surface mounted (plaster)

Temperature-rise verification as per IEC 60890

**HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890)** 11 W

**HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890)** 22 W

**HEAT DISS. AMBIENT
35°C DELTA T:20°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890)** 13 W

**HEAT DISS. AMBIENT
35°C DELTA T:20°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890)** 12 W

**HEAT DISS. AMBIENT
35°C DELTA T:35°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890)** 26 W

**HEAT DISS. AMBIENT
35°C DELTA T:35°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890)** 24 W

Resources

BROCHURES [eaton-xenergy-safety-ci-subway-line-success-story-en-us.pdf](#)

CATALOGUES [eaton-xenergy-ci-safety-catalog-ca015006en-en-us.pdf](#)

DECLARATIONS OF CONFORMITY [eaton-empty-enclosure-declaration-of-conformity-eu250306en.pdf](#)

DRAWINGS [eaton-enclosures-mounting-xenergy-safety-ci-lv-systems-dimensions-002.eps](#)

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INSTALLATION INSTRUCTIONS [eaton-xenergy-safety-ci-enclosure-brochure-br014001en-en-us.pdf](#)
[05670392.pdf](#)

MCAD MODEL [eaton-front-access-switchboard-mcad-drawings-ci23-150.dwg](#)
[ci23_150.stp](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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