

Specifications



Photo is representative

Eaton 038555

Eaton xEnergy Safety Ci LV systems LV switchgear. Insulated enclosure, +knockouts, HxWxD=375x375x275mm

General specifications

PRODUCT NAME	Eaton xEnergy Safety Ci empty enclosure insulated
CATALOG NUMBER	038555
MODEL CODE	CI44E-250
EAN	4015080385554
PRODUCT LENGTH/DEPTH	275 mm
PRODUCT HEIGHT	375 mm
PRODUCT WIDTH	375 mm
PRODUCT WEIGHT	3.658 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	EN 61439-2 EN 62208



Powering Business Worldwide

Additional information

FEATURES	UV resistance beneath protective shield Cover with overpressure release
FLAMMABILITY CHARACTERISTICS (UL)	V1 (base) (UL94) V2 (cover) (UL94)
FUNCTIONS	Extension possible
PROTECTION CLASS	II
RAL-NUMBER	7035
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
SUITABLE FOR	Outdoor use Lightning protection
USED WITH	Eaton Switching and protection devices

Delivery programme

COLOR	Gray Light gray (RAL 7035, base) Transparent, smoky gray (cover)
NOMINAL CURRENT	1600 A
TYPE	• Basic enclosure • Individual enclosures • xEnergy Safety Ci

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	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	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: 80 °C (gasket) Temperature resistant: -40 °C - 120 °C (enclosure) 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 None
DEGREE OF PROTECTION	IP65 IK10 Other
ENCLOSURE MATERIAL	Plastic
MATERIAL	Glass-fibre reinforced polycarbonate (base) Non-reinforced polycarbonate (cover) Halogen free
MOUNTING DEPTH WITH MOUNTING PLATE	250 mm
NUMBER OF CONDUIT INLETS	100
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

Temperature-rise verification as per IEC 60890

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 29 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 59 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 34 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890) 32 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 69 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890) 64 W

SURFACE PROTECTION	Other
SURFACE TREATMENT	Resistant to corrosion
UNIT TYPE	Single unit
WIDTH IN NUMBER OF MODULAR SPACINGS	15
BUILT-IN DEPTH	250 mm
INTERNAL DEPTH	250 mm
MOUNTING METHOD	Surface mounted (plaster)

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-enclosure-xenergy-safety-ci-lv-systems-dimensions-005.eps eaton-enclosures-xenergy-safety-ci-lv-systems-dimensions-008.eps eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-015.eps eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-017.eps eaton-enclosures-mounting-xenergy-safety-ci-lv-systems-dimensions-007.eps
INSTALLATION INSTRUCTIONS	eaton-xenergy-safety-ci-enclosure-brochure-br014001en-en-us.pdf 05670392.pdf
MCAD MODEL	ci44e_250.stp eaton-front-access-switchboard-mcad-drawings-ci44e-250.dwg

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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