

Specifications



Eaton 020270

Eaton xEnergy Safety Ci LV systems LV switchgear. Meter enclosure, HxWxD=375x375x225mm, IP65

General specifications

PRODUCT NAME	Eaton xEnergy Safety Ci meter enclosure rail
CATALOG NUMBER	020270
MODEL CODE	ZG/I44E-200
EAN	4015080202707
PRODUCT LENGTH/DEPTH	200 mm
PRODUCT HEIGHT	375 mm
PRODUCT WIDTH	375 mm
PRODUCT WEIGHT	3.5 kg
COMPLIANCES	RoHS conform



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Additional information

FEATURES	Cover with overpressure release
FITTED WITH:	Mounting plate
FUNCTIONS	Extension possible
PROTECTION CLASS	II
RAL-NUMBER	7035
SPECIAL FEATURES	Meter rail to DIN 43853 including meter fixing screws and nuts Metric cable entry knockouts in all sides Fixing straps for wall fixing Sealable cover fasteners
SUITABLE FOR	Outdoor use Lightning protection

Delivery programme

ACCESSORY/SPARE PART TYPE	Meter enclosures Meter rail
COLOR	Gray
NOMINAL CURRENT	1600 A
TYPE	Ci insulated enclosure Meter enclosures Prepared enclosures

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

Technical data - electrical

CIRCUIT INTEGRITY

Other

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 - mechanical

COVER/DOOR COLOR	Transparent
COVER/DOOR MODEL	Closed
COVER/DOOR TYPE	Optional None Transparent
DEGREE OF PROTECTION	Other IP65 IK10
ENCLOSURE MATERIAL	Plastic
MOUNTING DEPTH	186 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
SURFACE PROTECTION	Other
UNIT TYPE	Complete housing
WIDTH IN NUMBER OF MODULAR SPACINGS	15
BUILT-IN DEPTH	200 mm
INTERNAL DEPTH	200 mm
MOUNTING METHOD	Surface mounted (plaster)

Temperature-rise verification as per IEC 60890

HEAT DISS. AMBIENT
35°C DELTA T: 20°C FREE
STAND MIDDLE ENCL.
TOP (IEC 60890) 30 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: 35°C FREE
STAND MIDDLE ENCL.
TOP (IEC 60890) 60 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: 20°C FREE
STAND INDIVID. ENCL.
TOP (IEC 60890) 34 W

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

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 STARTING ENCL.
TOP (IEC 60890) 29 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C FREE
STAND INDIVID. ENCL.
TOP (IEC 60890) 68 W

HEAT DISS. AMBIENT 64 W

**35°C DELTA T:35°C FREE
STAND STARTING ENCL.
TOP (IEC 60890)**

**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 STARTING ENCL.
TOP (IEC 60890)** 57 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-enclosure-xenergy-safety-ci-lv-systems-dimensions-017.eps](#)
[eaton-enclosures-xenergy-safety-ci-lv-systems-dimensions-007.eps](#)
[eaton-distribution-boards-enclosure-xenergy-safety-ci-meter-enclosure-dimensions-004.eps](#)
[eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-015.eps](#)
[eaton-distribution-boards-enclosure-xenergy-safety-ci-meter-enclosure-dimensions-003.eps](#)

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

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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