

Specifications



Eaton 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
MODEL CODE	KST44-200
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



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Additional information

FEATURES	UV resistance beneath protective shield Cover with overpressure release
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
FUNCTIONS	Extension possible
PROTECTION CLASS	II
RAL-NUMBER	7035
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
SUITABLE FOR	Lightning protection Outdoor use
SURFACE RESISTANCE (IEC 60093)	10 TΩ
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.

Delivery programme

COLOR	Gray Light gray (RAL 7035, base) Transparent, smoky gray (cover)
NOMINAL CURRENT	1600 A
TYPE	Basic enclosure Panel enclosure with gland plates fitted 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 - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-5 °C
MEAN AMBIENT OPERATING TEMPERATURE (24 HOURS)	35 °C
TEMPERATURE RESISTANCE	Temperature resistant: -40 °C - 120 °C (enclosure) Temperature resistant: 85 °C (enclosure bolt) Temperature resistant: 80 °C (gasket)

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
CREEPAGE RESISTANCE	KB160, KC175 (base, to IEC 60112) KB100, KC200 (cover, to IEC 60112)
DIELECTRIC STRENGTH	30 kV/mm
OPERATING ALTITUDE WITHOUT DERATING - MAX	2000 mm

Technical data - mechanical

CABLE ENTRY TYPE	14 - 68 mm (3x)
CHEMICAL RESISTANCE	Partly resistant to: Acids > 10 % Not resistant to: alkalis, benzene Resistant against: acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions
COVER/DOOR COLOR	Transparent
COVER/DOOR MODEL	Closed
COVER/DOOR TYPE	Cover None
CREEPAGE AND CLEARANCE DISTANCES	III/3 to IEC/EN 60439-1 (standard)
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
MATERIAL	Halogen free Glass-fibre reinforced polycarbonate (base) Non-reinforced polycarbonate (cover)
MOUNTING DEPTH WITH MOUNTING PLATE	200 mm
MOUNTING GRID	25 mm (DIN 43660)
NUMBER OF CONDUIT INLETS	100
NUMBER OF MODULES	1
NUMBER OF OPENINGS	4

Temperature-rise verification as per IEC 60890

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 WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 53 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 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

(FLANGE PLATES)	
NUMBER OF ROWS	0
PLATE THICKNESS (CABINET)	6 mm
PLATE THICKNESS (COVER/DOOR)	6 mm
RELATIVE HUMIDITY	50 % (at 40 °C) 90 % (at 20 °C)
SALINE SPRAY RESISTANCE	IEC 60068-2-11
SURFACE PROTECTION	Other
UNIT TYPE	Stand-alone device
WIDTH IN NUMBER OF MODULAR SPACINGS	15
BUILT-IN DEPTH	200 mm
INTERNAL DEPTH	200 mm
MOUNTING METHOD	Surface mounted (plaster)

Resources

BROCHURES [eaton-xenergy-safety-ci-subway-line-success-story-en-us.pdf](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-subway-line-success-story-en-us.pdf)

CATALOGUES [eaton-xenergy-ci-safety-catalog-ca015006en-en-us.pdf](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-catalog-ca015006en-en-us.pdf)

DECLARATIONS OF CONFORMITY [eaton-empty-enclosure-declaration-of-conformity-eu250306en.pdf](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-declaration-of-conformity-eu250306en.pdf)

[eaton-enclosures-mounting-xenergy-safety-ci-lv-systems-dimensions-006.eps](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-lv-systems-dimensions-006.eps)

[eaton-insulated-boards-panel-xenergy-safety-ci-lv-systems-dimensions-004.eps](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-lv-systems-dimensions-004.eps)

DRAWINGS [eaton-enclosures-xenergy-safety-ci-lv-systems-dimensions-007.eps](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-lv-systems-dimensions-007.eps)

[eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-015.eps](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-lv-systems-dimensions-015.eps)

[eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-017.eps](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-lv-systems-dimensions-017.eps)

INSTALLATION INSTRUCTIONS [05670392.pdf](https://www.eaton.com/content/dam/eaton/energy-efficiency/energy-efficiency-solutions/xenergy-safety-ci-lv-systems-dimensions-017.eps)

PROJECT NAME:

PROJECT NUMBER:

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