

# Specifications



Photo is representative

## Eaton 093133

Eaton xEnergy Safety Ci LV systems LV switchgear. Insulated enclosure, +knockouts, HxWxD=250x375x150mm

### General specifications

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEnergy Safety Ci empty enclosure insulated |
| <b>CATALOG NUMBER</b>       | 093133                                            |
| <b>MODEL CODE</b>           | CI43E-125                                         |
| <b>EAN</b>                  | 4015080931331                                     |
| <b>PRODUCT LENGTH/DEPTH</b> | 150 mm                                            |
| <b>PRODUCT HEIGHT</b>       | 250 mm                                            |
| <b>PRODUCT WIDTH</b>        | 375 mm                                            |
| <b>PRODUCT WEIGHT</b>       | 1.981 kg                                          |
| <b>COMPLIANCES</b>          | RoHS conform                                      |
| <b>CERTIFICATIONS</b>       | EN 62208<br>EN 61439-2                            |



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## Additional information

|                                          |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FEATURES</b>                          | UV resistance beneath protective shield<br>Cover with overpressure release                                                                                                                                                                                                                                                                                           |
| <b>FLAMMABILITY CHARACTERISTICS (UL)</b> | V1 (base) (UL94)<br>V2 (cover) (UL94)                                                                                                                                                                                                                                                                                                                                |
| <b>FUNCTIONS</b>                         | Extension possible                                                                                                                                                                                                                                                                                                                                                   |
| <b>PROTECTION CLASS</b>                  | II                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RAL-NUMBER</b>                        | 7035                                                                                                                                                                                                                                                                                                                                                                 |
| <b>SPECIAL FEATURES</b>                  | <ul style="list-style-type: none"><li>• With metric knockouts in all sides of the enclosure</li><li>• Include fixing straps for wall mounting</li><li>• Sealable cover fasteners</li><li>• Full-area knockouts in the sides</li><li>• can be converted to a distribution board enclosure</li><li>• Integrated pressure-relief mechanism for short-circuits</li></ul> |
| <b>SUITABLE FOR</b>                      | Lightning protection<br>Outdoor use                                                                                                                                                                                                                                                                                                                                  |
| <b>USED WITH</b>                         | Eaton Switching and protection devices                                                                                                                                                                                                                                                                                                                               |

## Delivery programme

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>COLOR</b>           | Gray<br>Light gray (RAL 7035, base)<br><br>Transparent, smoky gray (cover)                                                    |
| <b>NOMINAL CURRENT</b> | 1600 A                                                                                                                        |
| <b>TYPE</b>            | <ul style="list-style-type: none"><li>• Basic enclosure</li><li>• Individual enclosures</li><li>• xEnergy Safety Ci</li></ul> |

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                     |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.    |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility.                                                                                              |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility.                                                                                              |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | Meets the product standard's requirements.                                                                                          |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                          |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                          |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                          |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Lower part: 960 °C / cover: 850 °C                                                                                                  |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Not relevant to indoor installations.                                                                                               |
| <b>10.2.5 LIFTING</b>                                                                   | 10 kg per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet. |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | IK10                                                                                                                                |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                          |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | IP65                                                                                                                                |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Is the panel builder's responsibility.                                                                                              |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                                           | Protection class 2, therefore not applicable.                                                                                       |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>                           | Is the panel builder's responsibility.                                                                                              |
| <b>10.7 INTERNAL</b>                                                                    | Is the panel builder's                                                                                                              |

## Design verification to IEC/EN 61439 - technical data

|                                              |                                                                                                                                              |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AMBIENT OPERATING TEMPERATURE DETAILS</b> | -40 °C - 80 °C                                                                                                                               |
| <b>TEMPERATURE RESISTANCE</b>                | Temperature resistant: 80 °C (gasket)<br>Temperature resistant: -40 °C - 120 °C (enclosure)<br>Temperature resistant: 85 °C (enclosure bolt) |

|                                                                 |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| <b>ELECTRICAL CIRCUITS AND CONNECTIONS</b>                      | responsibility.                            |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.     |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Ui = 1000 V AC                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | 8 kV                                       |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Meets the product standard's requirements. |

## Technical data - electrical

|                          |       |
|--------------------------|-------|
| <b>CIRCUIT INTEGRITY</b> | Other |
|--------------------------|-------|

## Technical data - mechanical

|                                           |                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHEMICAL RESISTANCE</b>                | Resistant against: acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions<br>Not resistant to: alkalis, benzene<br>Partly resistant to: Acids > 10 % |
| <b>COVER/DOOR COLOR</b>                   | Transparent                                                                                                                                                         |
| <b>COVER/DOOR MODEL</b>                   | Closed                                                                                                                                                              |
| <b>COVER/DOOR TYPE</b>                    | None<br>Optional                                                                                                                                                    |
| <b>DEGREE OF PROTECTION</b>               | Other<br>IK10<br>IP65                                                                                                                                               |
| <b>ENCLOSURE MATERIAL</b>                 | Plastic                                                                                                                                                             |
| <b>MATERIAL</b>                           | Glass-fibre reinforced polycarbonate (base)<br>Halogen free<br>Non-reinforced polycarbonate (cover)                                                                 |
| <b>MOUNTING DEPTH WITH MOUNTING PLATE</b> | 125 mm                                                                                                                                                              |
| <b>NUMBER OF CONDUIT INLETS</b>           | 76                                                                                                                                                                  |
| <b>NUMBER OF MODULES</b>                  | 1                                                                                                                                                                   |
| <b>NUMBER OF OPENINGS (FLANGE PLATES)</b> | 4                                                                                                                                                                   |
| <b>NUMBER OF ROWS</b>                     | 0                                                                                                                                                                   |
| <b>PLATE THICKNESS (CABINET)</b>          | 6 mm                                                                                                                                                                |
| <b>PLATE THICKNESS (COVER/DOOR)</b>       | 6 mm                                                                                                                                                                |
| <b>SALINE SPRAY RESISTANCE</b>            | IEC 60068-2-11                                                                                                                                                      |
| <b>SURFACE FINISHING</b>                  | 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) 18 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890) 37 W

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

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT STARTING ENCL.  
TOP (IEC 60890) 19 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890) 41 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT STARTING ENCL.  
TOP (IEC 60890) 39 W

|                                            |                           |
|--------------------------------------------|---------------------------|
| <b>SURFACE PROTECTION</b>                  | Other                     |
| <b>SURFACE TREATMENT</b>                   | Resistant to corrosion    |
| <b>UNIT TYPE</b>                           | Single unit               |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b> | 15                        |
| <b>BUILT-IN DEPTH</b>                      | 125 mm                    |
| <b>INTERNAL DEPTH</b>                      | 125 mm                    |
| <b>MOUNTING METHOD</b>                     | Surface mounted (plaster) |

## Resources

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">eaton-xenergy-safety-ci-subway-line-success-story-en-us.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                         |
| CATALOGUES                 | <a href="#">eaton-xenergy-ci-safety-catalog-ca015006en-en-us.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-empty-enclosure-declaration-of-conformity-eu250306en.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                      |
| DRAWINGS                   | <a href="#">eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-010.eps</a><br><br><a href="#">eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-003.eps</a><br><br><a href="#">eaton-enclosures-mounting-xenergy-safety-ci-lv-systems-dimensions-eps</a><br><br><a href="#">eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-013.eps</a><br><br><a href="#">eaton-enclosures-xenergy-safety-ci-lv-systems-dimensions-002.eps</a> |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-xenergy-safety-ci-enclosure-brochure-br014001en-en-us.pdf</a><br><br><a href="#">05670392.pdf</a>                                                                                                                                                                                                                                                                                                                                                                 |
| MCAD MODEL                 | <a href="#">eaton-front-access-switchboard-mcad-drawings-ci43e-125.dwg</a><br><br><a href="#">ci43e 125.stp</a>                                                                                                                                                                                                                                                                                                                                                                     |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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