

# Specifications



## Eaton 002224

Eaton xEffect Ci Enclosures Switch- & Controlgear Enclosure. Insulated enclosure, smooth sides, HxWxD=375x375x275mm, NA type

### General specifications

|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEffect Ci Enclosures Switch- & Controlgear Enclosure                                                               |
| <b>CATALOG NUMBER</b>       | 002224                                                                                                                    |
| <b>MODEL CODE</b>           | CI44X-250-NA                                                                                                              |
| <b>EAN</b>                  | 4015080022244                                                                                                             |
| <b>PRODUCT LENGTH/DEPTH</b> | 275 mm                                                                                                                    |
| <b>PRODUCT HEIGHT</b>       | 375 mm                                                                                                                    |
| <b>PRODUCT WIDTH</b>        | 375 mm                                                                                                                    |
| <b>PRODUCT WEIGHT</b>       | 3.737 kg                                                                                                                  |
| <b>COMPLIANCES</b>          | CE marking<br>IEC/EN62208<br>UL 508A CSA-C22.2 No.94<br>RoHS conform                                                      |
| <b>CERTIFICATIONS</b>       | UL (File No. E499317)<br>Specially designed for North America<br>UL (Category Control Number NITW)<br>UL listed<br>UL508A |



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## Product specifications

|                                                                                                         |                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>USED WITH</b>                                                                                        | Industrial control panels                                                                                                                          |
| <b>SPECIAL FEATURES</b>                                                                                 | Smooth side plates,<br>without knockouts<br>Sealable cover fasteners<br>Include fixing straps for<br>wall mounting                                 |
| <b>TYPE</b>                                                                                             | Basic enclosure Individual<br>enclosure for North<br>America Individual<br>enclosures with covers<br>xEnergy Safety Ci                             |
| <b>FEATURES</b>                                                                                         | UV resistance beneath<br>protective shield<br>Cover with overpressure<br>release                                                                   |
| <b>10.10 TEMPERATURE RISE</b>                                                                           | The panel builder is<br>responsible for the<br>temperature rise<br>calculation. Eaton will<br>provide heat dissipation<br>data for the devices.    |
| <b>10.11 SHORT-CIRCUIT<br/>RATING</b>                                                                   | Is the panel builder's<br>responsibility.                                                                                                          |
| <b>10.12 ELECTROMAGNETIC<br/>COMPATIBILITY</b>                                                          | Is the panel builder's<br>responsibility.                                                                                                          |
| <b>10.13 MECHANICAL<br/>FUNCTION</b>                                                                    | Meets the product<br>standard's requirements.                                                                                                      |
| <b>10.2.2 CORROSION<br/>RESISTANCE</b>                                                                  | Meets the product<br>standard's requirements.                                                                                                      |
| <b>10.2.3.1 VERIFICATION OF<br/>THERMAL STABILITY OF<br/>ENCLOSURES</b>                                 | Meets the product<br>standard's requirements.                                                                                                      |
| <b>10.2.3.2 VERIFICATION OF<br/>RESISTANCE OF<br/>INSULATING MATERIALS<br/>TO NORMAL HEAT</b>           | Meets the product<br>standard's requirements.                                                                                                      |
| <b>10.2.3.3 RESIST. OF<br/>INSUL. MAT. TO<br/>ABNORMAL HEAT/FIRE<br/>BY INTERNAL ELECT.<br/>EFFECTS</b> | Lower part: 960 °C / cover:<br>850 °C                                                                                                              |
| <b>10.2.4 RESISTANCE TO<br/>ULTRA-VIOLET (UV)<br/>RADIATION</b>                                         | Not relevant to indoor<br>installations.                                                                                                           |
| <b>10.2.5 LIFTING</b>                                                                                   | 20 kg per enclosure with<br>support frame and lifting<br>aid met; assembled and<br>secured as per the latest<br>applicable instruction<br>leaflet. |
| <b>10.2.6 MECHANICAL<br/>IMPACT</b>                                                                     | IK10                                                                                                                                               |

## Resources

|                            |                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|
| CERTIFICATION REPORTS      | <a href="#">eaton-xeffect-ci-certificate-of-compliance-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-015.eps</a>                      |
|                            | <a href="#">eaton-enclosures-xenergy-safety-ci-lv-systems-dimensions-008.eps</a>                                |
|                            | <a href="#">eaton-enclosures-enclosure-xenergy-safety-ci-lv-systems-dimensions-017.eps</a>                      |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-xenergy-safety-ci-enclosure-brochure-br014001en-en-us.pdf</a><br><a href="#">05670392.pdf</a> |
| INSTALLATION VIDEOS        | <a href="#">xEffect CI stand-alone polycarbonate enclosure</a>                                                  |
| MCAD MODEL                 | <a href="#">eaton-access-switchboard-mcad-drawings-ci44x-250-na.dwg</a><br><a href="#">ci44x 250 na.stp</a>     |
| PEP ECO-PASSPORT           | <a href="#">eaton-front-access-switchboard-pep-eato-00214-v0101-en.pdf</a>                                      |

|                                                                       |                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <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 ELECTRICAL CIRCUITS AND CONNECTIONS</b>              | Is the panel builder's 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.                                         |
| <b>SURFACE FINISHING</b>                                              | Resistant to corrosion<br>RAL 7035, light gray (base)                              |
| <b>CLIMATIC PROOFING</b>                                              | Damp heat, cyclic, to IEC 60068-2-30<br>Damp heat, constant, to IEC 60068-2-78     |
| <b>CREEPAGE RESISTANCE</b>                                            | KB160, KC175 (base, to IEC 60112)<br>KB100, KC200 (cover, to IEC 60112)            |
| <b>DEGREE OF PROTECTION</b>                                           | IP65 (IEC)<br>UL/CSA Types 1, 12, 13, 4X, indoor only<br>4X (NEMA)<br>IP65<br>IK10 |
| <b>ENCLOSURE MATERIAL</b>                                             | Plastic                                                                            |
| <b>SURFACE PROTECTION</b>                                             | Other                                                                              |
| <b>CIRCUIT INTEGRITY</b>                                              | Other                                                                              |
| <b>BASE TYPE</b>                                                      | RAL 7035, smooth sides                                                             |
| <b>UNIT TYPE</b>                                                      | Stand-alone device                                                                 |
| <b>BUILT-IN DEPTH</b>                                                 | 250 mm                                                                             |
| <b>HEAT DISS. AMBIENT 35°C DELTA T:20°C WALL MOUNT INDIVID. ENCL.</b> | 34 W                                                                               |

|                                                                                         |                                                                               |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>TOP (IEC 60890)</b>                                                                  |                                                                               |
| HEAT DISS. AMBIENT<br>35°C DELTA T: 20°C WALL<br>MOUNT MIDDLE ENCL.<br>TOP (IEC 60890)  | 29 W                                                                          |
| HEAT DISS. AMBIENT<br>35°C DELTA T:20°C WALL<br>MOUNT STARTING ENCL.<br>TOP (IEC 60890) | 32 W                                                                          |
| HEAT DISS. AMBIENT<br>35°C DELTA T:35°C WALL<br>MOUNT INDIVID. ENCL.<br>TOP (IEC 60890) | 69 W                                                                          |
| HEAT DISS. AMBIENT<br>35°C DELTA T: 35°C WALL<br>MOUNT MIDDLE ENCL.<br>TOP (IEC 60890)  | 59 W                                                                          |
| HEAT DISS. AMBIENT<br>35°C DELTA T:35°C WALL<br>MOUNT STARTING ENCL.<br>TOP (IEC 60890) | 64 W                                                                          |
| <b>COLOR</b>                                                                            | Transparent, smoky gray<br>(cover)<br>Light gray (RAL 7035, base)<br><br>Gray |
| <b>COVER/DOOR COLOR</b>                                                                 | Transparent                                                                   |
| <b>COVER/DOOR MODEL</b>                                                                 | Closed                                                                        |
| <b>COVER/DOOR TYPE</b>                                                                  | Optional<br>None<br>Transparent                                               |
| <b>NUMBER OF OPENINGS<br/>(FLANGE PLATES)</b>                                           | 0                                                                             |
| <b>PLATE THICKNESS<br/>(CABINET)</b>                                                    | 9 mm                                                                          |
| <b>PLATE THICKNESS<br/>(COVER/DOOR)</b>                                                 | 6 mm                                                                          |
| <b>RAL-NUMBER</b>                                                                       | 7035                                                                          |
| <b>SURFACE RESISTANCE<br/>(IEC 60093)</b>                                               | 10 TΩ                                                                         |
| <b>WIDTH IN NUMBER OF<br/>MODULAR SPACINGS</b>                                          | 15                                                                            |
| <b>AMBIENT OPERATING<br/>TEMPERATURE DETAILS</b>                                        | -40 °C - 80 °C                                                                |
| <b>MOUNTING METHOD</b>                                                                  | Surface mounted (plaster)                                                     |
| <b>NUMBER OF ROWS</b>                                                                   | 0                                                                             |
| <b>DIELECTRIC STRENGTH</b>                                                              | 30 kV/mm                                                                      |
| <b>PROTECTION CLASS</b>                                                                 | II                                                                            |
| <b>NUMBER OF MODULES</b>                                                                | 1                                                                             |
| <b>SURFACE TREATMENT</b>                                                                | Resistant to corrosion                                                        |

|                            |                                     |
|----------------------------|-------------------------------------|
| INTERNAL DEPTH             | 250 mm                              |
| MOUNTING DEPTH             | 250 mm                              |
| NOMINAL CURRENT            | 1600 A                              |
| NUMBER OF CONDUIT INLETS   | 0                                   |
| SUITABLE FOR               | Lightning protection<br>Outdoor use |
| SALINE SPRAY RESISTANCE    | IEC 60068-2-11                      |
| ENCLOSURE MATERIAL QUALITY | Other                               |
| TYPE OF COATING            | Other                               |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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