

# Specifications



## Eaton 114603

Eaton xEffect xVtl Enclosures Switch- & Controlgear Enclosure. Distribution cabinet, HxWxD=2000x1200x600mm, IP55, 2/6/20

### General specifications

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEffect xVtl empty enclosure               |
| <b>CATALOG NUMBER</b>       | 114603                                           |
| <b>MODEL CODE</b>           | XVTL-MP/BX/IC-12/6/20                            |
| <b>EAN</b>                  | 4015081140039                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 1200 mm                                          |
| <b>PRODUCT HEIGHT</b>       | 2000 mm                                          |
| <b>PRODUCT WIDTH</b>        | 608.5 mm                                         |
| <b>PRODUCT WEIGHT</b>       | 160 kg                                           |
| <b>COMPLIANCES</b>          | RoHS conform                                     |
| <b>CERTIFICATIONS</b>       | IEC/EN 60439-1<br>IEC/EN 60439-3<br>IEC/EN 62208 |

## Product specifications

### SPECIAL FEATURES

- 40 °C (intermittent maximum value)
- 35 °C (maximum value, 24 h average)
- -5 °C (minimum value)
- Fragment basic equipment
- Including open cable entries top, prepared for F3A flange
- Including frame, sheet steel doors, back plate, bottom and top plate, mounting plate, lifting eyelets, cylinder lock and branding strip
- Including support frame for the IVS mounting units
- including insulating surround and mounted insulated support bracket
- Without side walls

## Resources

### CATALOGUES

[eaton-pdd-xenergy-light-catalog-ca014022en-en-us.pdf](https://www.eaton.com/content/dam/eaton/products/power-distribution/eaton-pdd-xenergy-light-catalog-ca014022en-en-us.pdf)

[eaton-xenergy-light-add-on-distribution-board-product-catalog-2017-en-us.pdf](https://www.eaton.com/content/dam/eaton/products/power-distribution/eaton-xenergy-light-add-on-distribution-board-product-catalog-2017-en-us.pdf)

### MANUALS AND USER GUIDES

[DA-MN-170914860](https://www.eaton.com/content/dam/eaton/products/power-distribution/eaton-xenergy-light-add-on-distribution-board-product-catalog-2017-en-us.pdf)

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| <b>TYPE</b>                                                                       | Control centres XVTL                                                                                                             |
| <b>FEATURES</b>                                                                   | Connectable<br>EMC-version                                                                                                       |
| <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> | Not applicable.                                                                                                                  |

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| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Not applicable.                                                                                                                                                                                                         |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Not relevant to indoor installations.                                                                                                                                                                                   |
| <b>10.2.5 LIFTING</b>                                                                   | 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>                                          | IP55                                                                                                                                                                                                                    |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Is the panel builder's responsibility.                                                                                                                                                                                  |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                                           | < 0.1 $\Omega$ ; meets the product standard's requirements.                                                                                                                                                             |
| <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 = 690 V AC                                                                                                                                                                                                           |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                                                 | 6 kV                                                                                                                                                                                                                    |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>                         | Does not apply to metal enclosures.                                                                                                                                                                                     |
| <b>FITTED WITH:</b>                                                                     | Screw M10: 50 x 106 A <sup>2</sup> s (base frame, main earthing)<br>M6 weld stud: 50 x 106 A <sup>2</sup> s (door)<br>Mounting plate<br>Taptite screw M6: 3.9 x 106 A <sup>2</sup> s (enclosure side plate, back plate) |
| <b>FREQUENCY RATING</b>                                                                 | 50 Hz                                                                                                                                                                                                                   |
| <b>POLLUTION DEGREE</b>                                                                 | 3                                                                                                                                                                                                                       |
| <b>SURFACE FINISHING</b>                                                                | Polyester powder coating<br>Painting, phosphated and                                                                                                                                                                    |

|                                                                                                   |                                                                                  |
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|                                                                                                   | polyester powder coating<br>Phosphated<br>Powder coating<br>RAL 7035, light gray |
| <b>DEGREE OF PROTECTION</b>                                                                       | IP55<br>IP55 (with door and flange)<br><br>IK10<br>4X (NEMA)                     |
| <b>RATED IMPULSE<br/>WITHSTAND VOLTAGE<br/>(UIMP)</b>                                             | 6 kV                                                                             |
| <b>CABLE ENTRY POSTION</b>                                                                        | Various covers allow cable<br>entry from above and/or<br>below                   |
| <b>GRADE MATERIAL</b>                                                                             | Sheet steel 2 mm                                                                 |
| <b>UNIT TYPE</b>                                                                                  | Complete housing                                                                 |
| <b>VOLTAGE RATING</b>                                                                             | 415 V                                                                            |
| <b>ADMISSIBLE HEAT<br/>DISSIPATION (AMBIENT<br/>AIR TEMPERATURE +35<br/>°C) - MAX</b>             | 775 W                                                                            |
| <b>ADMISSIBLE HEAT<br/>DISSIPATION (NH-SE) -<br/>MAX</b>                                          | 775 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:20°C FREE<br/>STAND INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 370 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 20°C FREE<br/>STAND MIDDLE ENCL.<br/>TOP (IEC 60890)</b>  | 346 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:20°C FREE<br/>STAND STARTING ENCL.<br/>TOP (IEC 60890)</b> | 358 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:20°C WALL<br/>MOUNT INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 346 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 20°C WALL<br/>MOUNT MIDDLE ENCL.<br/>TOP (IEC 60890)</b>  | 335 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:20°C WALL<br/>MOUNT STARTING ENCL.<br/>TOP (IEC 60890)</b> | 339 W                                                                            |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:35°C FREE<br/>STAND INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 742 W                                                                            |

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| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C FREE<br/>STAND MIDDLE ENCL.<br/>TOP (IEC 60890)</b>   | 695 W                                                                                                                                                                                                                                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C FREE<br/>STAND STARTING ENCL.<br/>TOP (IEC 60890)</b> | 717 W                                                                                                                                                                                                                                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 695 W                                                                                                                                                                                                                                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT MIDDLE ENCL.<br/>TOP (IEC 60890)</b>   | 672 W                                                                                                                                                                                                                                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT STARTING ENCL.<br/>TOP (IEC 60890)</b> | 680 W                                                                                                                                                                                                                                     |
| <b>MATERIAL QUALITY</b>                                                                            | Other                                                                                                                                                                                                                                     |
| <b>RATED SHORT-TIME<br/>WITHSTAND CURRENT<br/>(ICW)</b>                                            | 65 kA                                                                                                                                                                                                                                     |
| <b>COLOR</b>                                                                                       | Gray                                                                                                                                                                                                                                      |
| <b>COVER/DOOR TYPE</b>                                                                             | From width 1000 mm two<br>doors<br>Folding handle with<br>espagnolette lock<br>Outside-supported doors<br>with hidden hinges<br>Can be removed from 90°<br>Three-point interlock<br>Door interlock can be<br>fitted with profile cylinder |
| <b>PERMISSIBLE LOAD OF<br/>THE MOUNTING PLATE<br/>ACCORDING TO IEC<br/>62208 - MAX</b>             | 4000 N                                                                                                                                                                                                                                    |
| <b>NUMBER OF LOCKS</b>                                                                             | 1                                                                                                                                                                                                                                         |
| <b>RAL-NUMBER</b>                                                                                  | 7035                                                                                                                                                                                                                                      |
| <b>RATED INSULATION<br/>VOLTAGE (UI)</b>                                                           | 690 V                                                                                                                                                                                                                                     |
| <b>RATED PEAK WITHSTAND<br/>CURRENT</b>                                                            | 143 kA                                                                                                                                                                                                                                    |
| <b>MATERIAL</b>                                                                                    | Steel<br>Sheet steel 2 mm                                                                                                                                                                                                                 |
| <b>MOUNTING METHOD</b>                                                                             | Wall fastening                                                                                                                                                                                                                            |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                                                    | IV                                                                                                                                                                                                                                        |
| <b>FREQUENCY RATING OF<br/>CONTACTS</b>                                                            | 50 Hz (AC)                                                                                                                                                                                                                                |

|                                                                       |                                                                                                   |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>FUNCTIONS</b>                                                      | Combination enclosure                                                                             |
| <b>INSTALLATION TYPE</b>                                              | Floor standing wall model                                                                         |
| <b>RATED OPERATION CURRENT (IE)</b>                                   | 2500 A                                                                                            |
| <b>COVER/DOOR ANGLE</b>                                               | 120° door opening angle<br>(combination mounting)<br>120° door opening angle<br>(single mounting) |
| <b>PROTECTION CLASS</b>                                               | I                                                                                                 |
| <b>INSTALLATION SITE</b>                                              | Indoor installation                                                                               |
| <b>RELATIVE HUMIDITY</b>                                              | 50 % (at 40 °C)                                                                                   |
| <b>SURFACE TREATMENT</b>                                              | Painting, phosphated and<br>polyester powder coating                                              |
| <b>NUMBER OF COVERS/DOORS</b>                                         | 2                                                                                                 |
| <b>SUITABLE FOR</b>                                                   | Metrical mounting                                                                                 |
| <b>PERMISSIBLE LOAD OF THE ENCLOSURE ACCORDING TO IEC 62208 - MAX</b> | 5000 N                                                                                            |
| <b>PERMISSIBLE LOAD OF THE DOOR(S) ACCORDING TO IEC 62208 - MAX</b>   | 1000 N                                                                                            |
| <b>THERMAL DISSIPATION (DELTA T = 20 K) ACCORDING TO IEC/TR 60890</b> | 694.888 W                                                                                         |
| <b>NUMBER OF CONNECTOR HOLES</b>                                      | 0                                                                                                 |

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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