

# Specifications



## Eaton 158087

Eaton xEffect xVtl Enclosures Switch- & Controlgear Enclosure. Distribution cabinet, EP, HxWxD=2000x400x300mm, IP55

### General specifications

|                             |                                       |
|-----------------------------|---------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEffect xVtl empty enclosure-EP |
| <b>CATALOG NUMBER</b>       | 158087                                |
| <b>MODEL CODE</b>           | XVTL-MP/BX-4/3/20-EP                  |
| <b>EAN</b>                  | 4015081546763                         |
| <b>PRODUCT LENGTH/DEPTH</b> | 300 mm                                |
| <b>PRODUCT HEIGHT</b>       | 2000 mm                               |
| <b>PRODUCT WIDTH</b>        | 425 mm                                |
| <b>PRODUCT WEIGHT</b>       | 61 kg                                 |
| <b>COMPLIANCES</b>          | RoHS conform                          |

## Product specifications

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>FEATURES</b>                                                                         | Mounting plate depth-adjustable<br>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.                                                                                                                  |
| <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 Ω; meets the product standard's requirements.                                                                              |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND</b>                                      | Is the panel builder's responsibility.                                                                                           |

## Resources

### CATALOGUES

[eaton-xenergy-light-add-on-distribution-board-product-catalog-2017-en-us.pdf](#)

[eaton-pdd-xenergy-light-catalog-ca014022en-en-us.pdf](#)

| COMPONENTS                                                                     |                                        |
|--------------------------------------------------------------------------------|----------------------------------------|
| 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS                              | Is the panel builder's responsibility. |
| 10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS                                       | Is the panel builder's responsibility. |
| 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH                                       | Ui = 690 V AC                          |
| 10.9.3 IMPULSE WITHSTAND VOLTAGE                                               | 6 kV                                   |
| 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL                       | Does not apply to metal enclosures.    |
| FITTED WITH:                                                                   | Mounting plate                         |
| POLLUTION DEGREE                                                               | 3                                      |
| SURFACE FINISHING                                                              | Powder coating                         |
| DEGREE OF PROTECTION                                                           | IK10<br>IP55<br>4X (NEMA)              |
| HEAT DISS. AMBIENT 35°C DELTA T:20°C FREE STAND INDIVID. ENCL. TOP (IEC 60890) | 117 W                                  |
| HEAT DISS. AMBIENT 35°C DELTA T: 20°C FREE STAND MIDDLE ENCL. TOP (IEC 60890)  | 99 W                                   |
| HEAT DISS. AMBIENT 35°C DELTA T:20°C FREE STAND STARTING ENCL. TOP (IEC 60890) | 107 W                                  |
| HEAT DISS. AMBIENT 35°C DELTA T:20°C WALL MOUNT INDIVID. ENCL. TOP (IEC 60890) | 104 W                                  |
| HEAT DISS. AMBIENT 35°C DELTA T: 20°C WALL MOUNT MIDDLE ENCL. TOP (IEC 60890)  | 77 W                                   |
| HEAT DISS. AMBIENT 35°C DELTA T:20°C WALL MOUNT STARTING ENCL. TOP (IEC 60890) | 91 W                                   |
| HEAT DISS. AMBIENT 35°C DELTA T:35°C FREE STAND INDIVID. ENCL. TOP (IEC 60890) | 234 W                                  |
| HEAT DISS. AMBIENT 35°C DELTA T: 35°C FREE STAND MIDDLE ENCL. TOP (IEC 60890)  | 198 W                                  |

|                                                                                                   |                           |
|---------------------------------------------------------------------------------------------------|---------------------------|
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:35°C FREE<br/>STAND STARTING ENCL.<br/>TOP (IEC 60890)</b> | 214 W                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:35°C WALL<br/>MOUNT INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 208 W                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT MIDDLE ENCL.<br/>TOP (IEC 60890)</b>  | 155 W                     |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:35°C WALL<br/>MOUNT STARTING ENCL.<br/>TOP (IEC 60890)</b> | 183 W                     |
| <b>MATERIAL QUALITY</b>                                                                           | Other                     |
| <b>COLOR</b>                                                                                      | Gray                      |
| <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>MATERIAL</b>                                                                                   | Steel                     |
| <b>MOUNTING METHOD</b>                                                                            | Wall fastening            |
| <b>OVERVOLTAGE<br/>CATEGORY</b>                                                                   | IV                        |
| <b>INSTALLATION TYPE</b>                                                                          | Floor standing wall model |
| <b>PROTECTION CLASS</b>                                                                           | I                         |
| <b>NUMBER OF<br/>COVERS/DOORS</b>                                                                 | 1                         |
| <b>SUITABLE FOR</b>                                                                               | Metrical mounting         |
| <b>PERMISSIBLE LOAD OF<br/>THE ENCLOSURE<br/>ACCORDING TO IEC<br/>62208 - MAX</b>                 | 5000 N                    |
| <b>PERMISSIBLE LOAD OF<br/>THE DOOR(S)<br/>ACCORDING TO IEC<br/>62208 - MAX</b>                   | 1000 N                    |
| <b>THERMAL DISSIPATION<br/>(DELTA T = 20 K)<br/>ACCORDING TO IEC/TR<br/>60890</b>                 | 208.487 W                 |
| <b>NUMBER OF<br/>CONNECTOR HOLES</b>                                                              | 0                         |

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



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