



Distribution cabinet, HxWxD=1600x400x300mm, IP55



Part no. **XVTL-MP/BX/IC-4/3/16**  
 Catalog No. **114551**

### Delivery program

|                                      |  |    |  |
|--------------------------------------|--|----|--|
| Product range                        |  |    | Control centres XVTL   |
| Basic function                       |  |    | Combination enclosures   |
| Single unit/Complete unit            |  |    | Complete housing   |
| Degree of Protection                 |  |    | IP55 (with door and flange)  |
| Description                          |  |    | Fragment basic equipment<br>Including open cable entries top, prepared for F3A flange  |
| Material                             |  |    | Sheet steel 2 mm   |
| Surface finish                       |  |    | Polyester powder coating<br>Phosphated<br>RAL 7035, light grey   |
| Colour                               |  |    | light gray (RAL 7035)  |
| Information about equipment supplied |  |    | including frame, sheet steel doors, back plate, bottom and top plate, mounting plate, lifting eyelets, cylinder lock and branding strip<br>Including support frame for the IVS mounting units<br>including insulating surround and mounted insulated support bracket<br>Without side walls |
| Width                                |  | mm | 425  |
| Height                               |  | mm | 1600   |
| Depth                                |  | mm | 300  |

### Technical data

#### General

|  |  |    |  |
|--|--|----|--|
| Standards  |  |    | IEC/EN 60439-1<br>IEC/EN 60439-3<br>IEC/EN 62208   |
| Protection class   |  |    | 1  |
|  |  |    | 40 °C (intermittent maximum value)<br>35 °C (maximum value, 24 h average)<br>-5 °C (minimum value) |
| Installation conditions  |  |    | Indoor installation  |
| Degree of Protection   |  |    | IP55 (with door and flange)  |
| Relative humidity  |  |    | 50% (at 40°C)  |
| Power loss   |  |    |  |
| Max. admissible heat dissipation, ambient air temperature +35 °C |  | W  | 212  |
| Weight   |  | kg | 70   |

#### Material characteristics

|                          |  |  |   |
|--------------------------|--|--|---|
| Material                 |  |  | Sheet steel 2 mm  |
| Surface treatment        |  |  | Painting, phosphated and polyester powder coating   |
| Surface finish           |  |  | Polyester powder coating<br>Phosphated<br>RAL 7035, light grey  |
| Colour                   |  |  | light gray (RAL 7035)   |
| Material characteristics |  |  |   |
| Type Door                |  |  | Outside-supported doors with hidden hinges<br>Can be removed from 90°                                 |
| door opening angle       |  |  | 120° (single mounting)<br>120° (combination mounting)   |
| Door interlock           |  |  | Folding handle with espagnolette lock<br>Can be fitted with profile cylinder<br>Three-point interlock |

#### Material properties

|            |  |  |  |
|------------|--|--|--|
| Mechanical |  |  |  |
|------------|--|--|--|

|  |           |    |   |
|--|-----------|----|---|
| Cable entry  |           |    | Various covers allow cable entry from above and/or below  |
| Electrical   |           |    |   |
| Rated insulation voltage   | $U_i$     | V  | 690   |
| Rated operational voltage  | $U_e$     | V  | 415   |
| Rated frequency  | f         | Hz | 50 (AC)   |
| Rated impulse withstand voltage                                  | $U_{imp}$ | kV | 6   |
| Rated operational current  | $I_e$     | A  | 2500  |
| Overtoltage category/pollution degree                            |           |    | IV/3  |
| Rated short-time withstand current (t=1s)                        | $I_{cw}$  | kA | 65  |
| Rated peak withstand current                                     | $I_{pk}$  | kA | 143   |
| Max. admissible heat dissipation, ambient air temperature +35 °C |           | W  | 212   |
| Earthings  |           |    | Screw M10: 50 x 106 A <sup>2</sup> s (base frame, main earthing)<br>Taptite screw M6: 3.9 x 106 A <sup>2</sup> s (enclosure side plate, back plate)<br>M6 weld stud: 50 x 106 A <sup>2</sup> s (door) |

## Design verification as per IEC/EN 61439

|   |       |   |  |
|---|-------|---|--|
| Technical data for design verification  |       |   |  |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890 |       |   |  |
| Individual enclosure, free-standing   | $P_V$ | W | 101  |
| Starting enclosure, free-standing   | $P_V$ | W | 84   |
| Middle enclosure, free-standing   | $P_V$ | W | 74   |
| Individual enclosure for wall mounting  | $P_V$ | W | 80   |
| Starting enclosure for wall mounting  | $P_V$ | W | 71   |
| Middle enclosure for wall mounting  | $P_V$ | W | 65   |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890 |       |   |  |
| Individual enclosure, free-standing   | $P_V$ | W | 202  |
| Starting enclosure, free-standing   | $P_V$ | W | 168  |
| Middle enclosure, free-standing   | $P_V$ | W | 148  |
| Individual enclosure for wall mounting  | $P_V$ | W | 161  |
| Starting enclosure for wall mounting  | $P_V$ | W | 143  |
| Middle enclosure for wall mounting  | $P_V$ | W | 130  |
| IEC/EN 61439 design verification  |       |   |  |
| 10.2 Strength of materials and parts  |       |   |  |
| 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  |       |   | Not applicable.  |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects        |       |   | Not applicable.  |
| 10.2.4 Resistance to ultra-violet (UV) radiation  |       |   | Not relevant to indoor installations.  |
| 10.2.5 Lifting  |       |   | 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   |       |   | IP55   |
| 10.4 Clearances and creepage distances  |       |   | Is the panel builder's responsibility.   |
| 10.5 Protection against electric shock  |       |   | < 0.1 Ω; meets the product standard's requirements.  |
| 10.6 Incorporation of switching devices and components  |       |   | Is the panel builder's responsibility.   |
| 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 Insulation properties  |       |   |  |
| 10.9.2 Power-frequency electric strength  |       |   | $U_i = 690$ 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.  |
| 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. |

## Technical data ETIM 7.0

|  |    |                |
|--|----|----------------|
| Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261)  |    |                |
| Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss10.0.1-27-18-01-01 [AGZ056016]) |    |                |
| Width  | mm | 425            |
| Height   | mm | 1600           |
| Depth  | mm | 300            |
| Material   |    | Steel          |
| Material quality   |    | Other          |
| Surface finishing  |    | Powder coating |
| Colour   |    | Grey           |
| RAL-number   |    | 7035           |
| With mounting plate  |    | Yes            |
| Mounting plate depth-adjustable  |    | No             |
| Number of locks  |    | 1              |
| Floor installation possible  |    | Yes            |
| Wall fastening possible  |    | Yes            |
| Wall build in  |    | No             |
| Pole fastening   |    | No             |
| Tackable   |    | Yes            |
| Number of doors  |    | 1              |
| Suitable for metrical mounting   |    | Yes            |
| Suitable for outdoor set-up  |    | No             |
| Pitched roof   |    | No             |
| EMC-version  |    | Yes            |
| With glazed door   |    | No             |
| With ventilation door  |    | No             |
| With backside door   |    | No             |
| Impact strength  |    | IK10           |
| Degree of protection (IP)  |    | IP55           |
| Degree of protection (NEMA)  |    |                |