



**Distribution cabinet, HxWxD=1600x1000x300mm, IP55**

**Part no. XVTL-MP/BX/IC-10/3/16**  
**Article no. 114558**

## 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 | 1000                                                                                                                                                                                                                                                                                       |
| 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  | 456                                                                                                |
| Weight                                                           |  | kg | 115                                                                                                |

### 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°<br>From width 1000 mm two doors |
| 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 <sub>i</sub>   | V  | 690                                                                                                                                                                                                   |
| Rated operational voltage                                        | U <sub>e</sub>   | V  | 415                                                                                                                                                                                                   |
| Rated frequency                                                  | f                | Hz | 50 (AC)                                                                                                                                                                                               |
| Rated impulse withstand voltage                                  | U <sub>imp</sub> | kV | 6                                                                                                                                                                                                     |
| Rated operational current                                        | I <sub>e</sub>   | A  | 2500                                                                                                                                                                                                  |
| Overvoltage category/pollution degree                            |                  |    | IV/3                                                                                                                                                                                                  |
| Rated short-time withstand current (t=1s)                        | I <sub>cw</sub>  | kA | 65                                                                                                                                                                                                    |
| Rated peak withstand current                                     | I <sub>pk</sub>  | kA | 143                                                                                                                                                                                                   |
| Max. admissible heat dissipation, ambient air temperature +35 °C |                  | W  | 456                                                                                                                                                                                                   |
| Earthings                                                        |                  |    | Screw M10: 50 × 106 A <sup>2</sup> s (base frame, main earthing)<br>Taptite screw M6: 3.9 × 106 A <sup>2</sup> s (enclosure side plate, back plate)<br>M6 weld stud: 50 × 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, calculated as per IEC 60890                  |                |    |                                                                                                                                  |
| Individual enclosure, free-standing                                                                                    | P <sub>V</sub> | CO | 217                                                                                                                              |
| Starting enclosure, free-standing                                                                                      | P <sub>V</sub> | CO | 213                                                                                                                              |
| Middle enclosure, free-standing                                                                                        | P <sub>V</sub> | CO | 209                                                                                                                              |
| Individual enclosure for wall mounting                                                                                 | P <sub>V</sub> | CO | 200                                                                                                                              |
| Starting enclosure for wall mounting                                                                                   | P <sub>V</sub> | CO | 195                                                                                                                              |
| Middle enclosure for wall mounting                                                                                     | P <sub>V</sub> | CO | 182                                                                                                                              |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890                  |                |    |                                                                                                                                  |
| Individual enclosure, free-standing                                                                                    | P <sub>V</sub> | CO | 436                                                                                                                              |
| Starting enclosure, free-standing                                                                                      | P <sub>V</sub> | CO | 427                                                                                                                              |
| Middle enclosure, free-standing                                                                                        | P <sub>V</sub> | CO | 419                                                                                                                              |
| Individual enclosure for wall mounting                                                                                 | P <sub>V</sub> | CO | 402                                                                                                                              |
| Starting enclosure for wall mounting                                                                                   | P <sub>V</sub> | CO | 391                                                                                                                              |
| Middle enclosure for wall mounting                                                                                     | P <sub>V</sub> | CO | 365                                                                                                                              |
| 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 <sub>i</sub> = 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 6.0

|                                                                                                                                                                                         |    |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------|
| Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261)                                                                                                         |    |                     |
| Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss8.1-27-18-01-01 [AGZ056013]) |    |                     |
| Width                                                                                                                                                                                   | mm | 1000                |
| Height                                                                                                                                                                                  | mm | 1600                |
| Depth                                                                                                                                                                                   | mm | 300                 |
| Material                                                                                                                                                                                |    | Steel               |
| Type of surface                                                                                                                                                                         |    | With 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                                                                                                                                                                         |    | 2                   |
| Suitable for metrical mounting                                                                                                                                                          |    | Yes                 |
| Suitable for outdoor set-up                                                                                                                                                             |    | No                  |
| Pitched roof                                                                                                                                                                            |    | No                  |
| EMC-version                                                                                                                                                                             |    | Yes                 |
| Impact strength                                                                                                                                                                         |    | IK10                |
| Degree of protection (IP)                                                                                                                                                               |    | -                   |
| With glazed door                                                                                                                                                                        |    | No                  |
| With ventilation door                                                                                                                                                                   |    | No                  |
| With backside door                                                                                                                                                                      |    | No                  |