# Distribution cabinet, IVS, HxWxD=2000x1200x300mm, IP55

**Part no.** XVTL-MP/BF-12/3/20-IVS
**Article no.** 118946

Powering Business Worldwide

## Delivery program

| | | | |
|---|---|---|---|
| Product range | | | Service distribution board IVS |
| Basic function | | | Combination enclosures |
| Single unit/Complete unit | | | Complete housing |
| Degree of Protection | | | IP55 (with door and flange) |
| Description | | | Basic enclosure xVtl<br>Including open cable entries top, prepared for F3A flange |
| Material | | | Sheet steel |
| Surface finish | | | Polyester powder coating<br>Phosphated<br>RAL 7035, light grey |
| Colour | | | light gray (RAL 7035) |
| Information about equipment supplied | | | including frame, doors, back plate, top plate 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 | 1200 |
| Height | | mm | 2000 |
| Depth | | mm | 300 |

## Technical data

### General

| | | | |
|---|---|---|---|
| Standards | | | EN 60439-1/3<br>IEC 62208 |
| Protection class | | | 1 |
| Degree of Protection | | | IP55 (with door and flange) |
| Power loss | | | |
| Max. admissible heat dissipation, ambient air temperature +35 °C | | W | 583 |
| Weight | | kg | 147 |

### Material characteristics

| | | | |
|---|---|---|---|
| Material | | | Sheet steel |
| 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 | | | Doors with covered hinges<br>Can be removed from 90° |
| door opening angle | | | 120° (single mounting)<br>120° (combination mounting) |
| Door interlock | | | Roller lever lock<br>Three-point interlock |

### Material properties

| | | | |
|---|---|---|---|
| Mechanical | | | |
| Impact resistance | | | IK07 |
| Cable entry | | | Various covers allow cable entry from above and/or below |
| Electrical | | | |
| Rated operational voltage | $U_e$ | V | 690 |
| Rated frequency | f | Hz | 50 |
| Rated operational current | $I_e$ | A | 630 |
| Max. admissible heat dissipation, ambient air temperature +35 °C | | W | 583 |

| | | | |
|---|---|---|---|
| Earthings | | | Screw M10 (base frame)<br>M6 weld stud (enclosure side plate, top, bottom panel)<br>Taptite screw M6 (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 | $P_V$ | CO | 282 |
| Starting enclosure, free-standing | $P_V$ | CO | 279 |
| Middle enclosure, free-standing | $P_V$ | CO | 277 |
| Individual enclosure for wall mounting | $P_V$ | CO | 260 |
| Starting enclosure for wall mounting | $P_V$ | CO | 253 |
| Middle enclosure for wall mounting | $P_V$ | CO | 248 |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890 | | | |
| Individual enclosure, free-standing | $P_V$ | CO | 566 |
| Starting enclosure, free-standing | $P_V$ | CO | 560 |
| Middle enclosure, free-standing | $P_V$ | CO | 556 |
| Individual enclosure for wall mounting | $P_V$ | CO | 521 |
| Starting enclosure for wall mounting | $P_V$ | CO | 506 |
| Middle enclosure for wall mounting | $P_V$ | CO | 497 |
| 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. |