



**Distribution cabinet, HxWxD=1600x1000x400mm, IP40**

**Part no.** XVTL-BF-10/4/16  
**Catalog No.** 114394

**EL-Nummer  
(Norway)** 2459864

## 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 <sub>V</sub> | W | 252                                                                                                                              |
| Starting enclosure, free-standing                                                                                             | P <sub>V</sub> | W | 244                                                                                                                              |
| Middle enclosure, free-standing                                                                                               | P <sub>V</sub> | W | 236                                                                                                                              |
| Individual enclosure for wall mounting                                                                                        | P <sub>V</sub> | W | 231                                                                                                                              |
| Starting enclosure for wall mounting                                                                                          | P <sub>V</sub> | W | 226                                                                                                                              |
| Middle enclosure for wall mounting                                                                                            | P <sub>V</sub> | W | 231                                                                                                                              |
| 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 <sub>V</sub> | W | 506                                                                                                                              |
| Starting enclosure, free-standing                                                                                             | P <sub>V</sub> | W | 489                                                                                                                              |
| Middle enclosure, free-standing                                                                                               | P <sub>V</sub> | W | 473                                                                                                                              |
| Individual enclosure for wall mounting                                                                                        | P <sub>V</sub> | W | 464                                                                                                                              |
| Starting enclosure for wall mounting                                                                                          | P <sub>V</sub> | W | 454                                                                                                                              |
| Middle enclosure for wall mounting                                                                                            | P <sub>V</sub> | W | 464                                                                                                                              |
| 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                                                                                       |                |   | IP40                                                                                                                             |
| 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.                                                                                           |

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|---------------------------|--|--------------------------------------------|
| 10.13 Mechanical function |  | Meets the product standard's requirements. |
|---------------------------|--|--------------------------------------------|

## Technical data ETIM 7.0

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|----------------|
| 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 | 1000           |
| Height                                                                                                                                                                                     |  | mm | 1600           |
| Depth                                                                                                                                                                                      |  | mm | 408.5          |
| Material                                                                                                                                                                                   |  |    | Steel          |
| Material quality                                                                                                                                                                           |  |    | Other          |
| Surface finishing                                                                                                                                                                          |  |    | Powder coating |
| Colour                                                                                                                                                                                     |  |    | Grey           |
| RAL-number                                                                                                                                                                                 |  |    | 7035           |
| With mounting plate                                                                                                                                                                        |  |    | No             |
| Mounting plate depth-adjustable                                                                                                                                                            |  |    | Yes            |
| 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            |
| With glazed door                                                                                                                                                                           |  |    | No             |
| With ventilation door                                                                                                                                                                      |  |    | No             |
| With backside door                                                                                                                                                                         |  |    | No             |
| Impact strength                                                                                                                                                                            |  |    | IK10           |
| Degree of protection (IP)                                                                                                                                                                  |  |    | IP40           |
| Degree of protection (NEMA)                                                                                                                                                                |  |    |                |