



**Surface-mount service distribution board with three-point turn-lock, fire-resistant, W 400 mm H 460 mm**

**Part no.** BP-O-400/4-EW  
**Catalog No.** 116614

**EL-Nummer (Norway)** 2460467

## Delivery program

|                      |  |    |                           |
|----------------------|--|----|---------------------------|
| Mounting type        |  |    | Surface mounted           |
| Material             |  |    | Sheet steel               |
| Door interlock       |  |    | Three-point turn-lock     |
| Installation site    |  |    | Indoor                    |
| Degree of Protection |  |    | IP30                      |
| Fire resistance      |  |    | fire-resistant (E60/EW60) |
| Surface finish       |  |    | With powder coating       |
| Width                |  | mm | 400                       |
| Depth                |  | mm | 262                       |
| Height               |  | mm | 460                       |
| Colour               |  |    | light gray (RAL 7035)     |

## 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 for wall mounting                                                                                        | P <sub>V</sub> | W | 39                                                  |
| Starting enclosure for wall mounting                                                                                          | P <sub>V</sub> | W | 36                                                  |
| Middle enclosure for wall mounting                                                                                            | P <sub>V</sub> | W | 33                                                  |
| 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 for wall mounting                                                                                        | P <sub>V</sub> | W | 78                                                  |
| Starting enclosure for wall mounting                                                                                          | P <sub>V</sub> | W | 73                                                  |
| Middle enclosure for wall mounting                                                                                            | P <sub>V</sub> | W | 67                                                  |
| 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                                                    |                |   | Meets the product standard's requirements.          |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects        |                |   | Meets the product standard's requirements.          |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                              |                |   | Not relevant to indoor installations.               |
| 10.2.5 Lifting                                                                                                                |                |   | Does not apply to enclosures without lifting aids.  |
| 10.2.6 Mechanical impact                                                                                                      |                |   | IK07                                                |
| 10.2.7 Inscriptions                                                                                                           |                |   | Meets the product standard's requirements.          |
| 10.3 Degree of protection of ASSEMBLIES                                                                                       |                |   | IP30                                                |
| 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> = 440 V AC                           |
| 10.9.3 Impulse withstand voltage                                                                                              |                |   | 4 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

|                                                                                                                                                                                                                                     |  |    |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---------------------------|
| Distribution boards (EG000023) / Small distribution board (EC000214)                                                                                                                                                                |  |    |                           |
| Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecI@ss10.0.1-27-14-24-09 [ACN387011]) |  |    |                           |
| Mounting method                                                                                                                                                                                                                     |  |    | Surface mounted (plaster) |
| Number of rows                                                                                                                                                                                                                      |  |    | 2                         |
| Width in number of modular spacings                                                                                                                                                                                                 |  |    | 13                        |
| Type of cover                                                                                                                                                                                                                       |  |    | Door                      |
| Cover model                                                                                                                                                                                                                         |  |    | Closed                    |
| Transparent cover/door                                                                                                                                                                                                              |  |    | No                        |
| Material housing                                                                                                                                                                                                                    |  |    | Steel                     |
| Height                                                                                                                                                                                                                              |  | mm | 460                       |
| Width                                                                                                                                                                                                                               |  | mm | 400                       |
| Depth                                                                                                                                                                                                                               |  | mm | 262.5                     |
| Built-in depth                                                                                                                                                                                                                      |  | mm | 0                         |
| Internal depth                                                                                                                                                                                                                      |  | mm | 257.5                     |
| DIN-rail                                                                                                                                                                                                                            |  |    | No                        |
| With mounting plate                                                                                                                                                                                                                 |  |    | No                        |
| Extension possible                                                                                                                                                                                                                  |  |    | Yes                       |
| EMC-version                                                                                                                                                                                                                         |  |    | No                        |
| Colour                                                                                                                                                                                                                              |  |    | Grey                      |
| RAL-number                                                                                                                                                                                                                          |  |    | 7035                      |
| Degree of protection (IP)                                                                                                                                                                                                           |  |    | IP30                      |
| With lock                                                                                                                                                                                                                           |  |    | No                        |
| Type of closure                                                                                                                                                                                                                     |  |    | Other                     |