



**Surface-mount service distribution board with three-point turn-lock, including DIN rails, front plate with 45-mm cutout; W = 800 mm, H = 1260 mm white**

**Part no.** BP-O-800/12-C-W  
**Article no.** 105540

## Delivery program

|                      |  |    |                                                 |
|----------------------|--|----|-------------------------------------------------|
| Mounting type        |  |    | Surface mounted                                 |
| Features             |  |    | with DIN-rails<br>Front plate with 45-mm cutout |
| Features             |  |    | with DIN-rail<br>Frontplate with 45mm cut-out   |
| Material             |  |    | Sheet steel                                     |
| Door interlock       |  |    | Three-point turn-lock                           |
| Installation site    |  |    | Indoor                                          |
| Degree of Protection |  |    | IP30                                            |
| Surface finish       |  |    | With powder coating                             |
| Width                |  | mm | 800                                             |
| Depth                |  | mm | 262                                             |
| Height               |  | mm | 1260                                            |
| Colour               |  |    | white (RAL 9016)                                |

## 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 for wall mounting                                                                                 | P <sub>V</sub> | CO | 120                                                 |
| Starting enclosure for wall mounting                                                                                   | P <sub>V</sub> | CO | 108                                                 |
| Middle enclosure for wall mounting                                                                                     | P <sub>V</sub> | CO | 100                                                 |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890                  |                |    |                                                     |
| Individual enclosure for wall mounting                                                                                 | P <sub>V</sub> | CO | 240                                                 |
| Starting enclosure for wall mounting                                                                                   | P <sub>V</sub> | CO | 216                                                 |
| Middle enclosure for wall mounting                                                                                     | P <sub>V</sub> | CO | 200                                                 |
| 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 6.0

|                                                                                                                                                                                                                                  |  |    |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|------------------|
| 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@ss8.1-27-14-24-09 [ACN387008]) |  |    |                  |
| Mounting method                                                                                                                                                                                                                  |  |    | Surface mounting |
| Number of rows                                                                                                                                                                                                                   |  |    | 7                |
| Width in number of modular spacings                                                                                                                                                                                              |  |    | 35               |
| Type of cover                                                                                                                                                                                                                    |  |    | Door             |
| Cover model                                                                                                                                                                                                                      |  |    | Closed           |
| Transparent cover/door                                                                                                                                                                                                           |  |    | No               |
| Material housing                                                                                                                                                                                                                 |  |    | Steel            |
| Height                                                                                                                                                                                                                           |  | mm | 1260             |
| Width                                                                                                                                                                                                                            |  | mm | 800              |
| Depth                                                                                                                                                                                                                            |  | mm | 262.5            |
| Built-in depth                                                                                                                                                                                                                   |  | mm | 0                |
| Internal depth                                                                                                                                                                                                                   |  | mm | 257.5            |
| DIN-rail                                                                                                                                                                                                                         |  |    | Yes              |
| With mounting plate                                                                                                                                                                                                              |  |    | No               |
| Extension possible                                                                                                                                                                                                               |  |    | Yes              |
| EMC-version                                                                                                                                                                                                                      |  |    | No               |
| Colour                                                                                                                                                                                                                           |  |    | White            |
| RAL-number                                                                                                                                                                                                                       |  |    | 9016             |
| Degree of protection (IP)                                                                                                                                                                                                        |  |    | IP30             |
| With lock                                                                                                                                                                                                                        |  |    | No               |