



Complete flush-mounted flat distribution board, white, 24 SU per row, 2 rows, type E

Part no. BF-U-2/48-E
Article no. 283052

Delivery programme

| | | | |
|--|--------------------------------------|-----------------|--|
| Basic function | | | Basic device |
| Product function | | | Installation distribution boards |
| Product range | | | BF flat DBO |
| Design | | | Hollow wall Flush mounted |
| Installation site | | | Indoor |
| Type of installation | | | Hollow-wall mounting and flush mounting |
| Door/Flap | | | White |
| Degree of Protection | | | IP30 |
| Colour | | | White |
| Module rack | | | Rail-frame |
| Shroud for protection against accidental contact | | | Metal |
| Rows | Count | | 2 |
| Module units per row | | | 24 |
| Description | | | IP30 Protection Class I Steel sheet enclosure white (RAL 9016) |
| Cable entries | | | Cable entries on top and bottom |
| PE and N terminals design | | | Screw terminals |
| PE and N terminals | Number x cross- sectional area | mm ² | N: 2 x 25 + 13 x 16 PE: 2 x 25 + 13 x 16 |
| Equipment supplied | | | Wall trough with door frame Door with Profi -ine three-point turn-lock DIN rail mounting frame Front plates Neutral-/protective conductor terminal |

Technical data

General

| | | | |
|---|----------------|------|--|
| Standards | | | IEC/EN 61439-1, IEC/EN 61439-3, IEC/EN 62208 |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) | | | conform |
| Ambient temperature | | °C | -5 - +40 |
| Degree of Protection | | | IP30 |
| Protection class | | | I (earthed) |
| Rated operational voltage | U _e | V AC | 415 |
| Rated frequency | f | Hz | 50/60 |

Material characteristics

| | | | |
|----------|--|--|----------------------------|
| Material | | | Sheet steel, powder-coated |
| Colour | | | white (RAL 9016) |

Material properties

| | | | |
|-------------------|--|--|------|
| Mechanical | | | |
| Impact resistance | | | IK07 |

Design verification as per IEC/EN 61439

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|---|----------------|----|----|
| 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, flush mounting | P _V | CO | 34 |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890 | | | |
| Individual enclosure, flush mounting | P _V | CO | 69 |

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| 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 _i = 415 V AC |
| 10.9.3 Impulse withstand voltage | | | Does not apply to basic enclosures as defined in EN 62208. |
| 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

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| 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 (ec1@ss8.1-27-14-24-09 [ACN387008]) | | | |
| Mounting method | | | Flush mounted (plaster) |
| Number of rows | | | 2 |
| Width in number of modular spacings | | | 24 |
| Type of cover | | | Door |
| Cover model | | | Closed |
| Transparent cover/door | | | No |
| Material housing | | | Steel |
| Height | | mm | 470 |
| Width | | mm | 588 |
| Depth | | mm | 136 |
| Built-in depth | | mm | 127 |
| Internal depth | | mm | 127 |
| DIN-rail | | | Yes |
| With mounting plate | | | No |
| Extension possible | | | No |
| EMC-version | | | No |
| Colour | | | White |
| RAL-number | | | 9016 |
| Degree of protection (IP) | | | IP30 |
| With lock | | | No |

Height H [mm] = 470
Height H1 [mm] = 420

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| Product overview (Web) | http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm |
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