# DATASHEET - BF-U-2/48-C



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

**Part no.** **BF-U-2/48-C**
**113689**

Powering Business Worldwide™

| | |
|---|---|
| **General specifications** | |
| Product name | Eaton xComfort BF small distribution board |
| Part no. | BF-U-2/48-C |
| EAN | 4015081132171 |
| Product Length/Depth | 140 millimetre |
| Product height | 480 millimetre |
| Product width | 600 millimetre |
| Product weight | 9.4 kilogram |
| Compliances | RoHS conform |
| Certifications | IEC/EN 61439-3<br>IEC/EN 62208<br>IEC/EN 61439-1 |
| Product Tradename | xComfort BF |
| Product Type | Small distribution board |
| Product Sub Type | None |
| **Delivery program** | |
| Type | Basic device BF flat DBO Installation distribution boards |
| Application | Indoor (installation site) |
| Color | Traffic white (RAL 9016)<br>White |
| **Technical Data - Electrical** | |
| Voltage rating at AC | 415 V AC |
| Frequency rating of contacts | 50 Hz / 60 Hz |
| **Technical Data - Mechanical** | |
| Closure type | Other |
| Width in number of modular spacings | 24 |
| Mounting method | Hollow-wall mounting and flush mounting<br>Flush mounted (plaster)<br>Hollow wall<br>DIN-rail<br>Flush mounting |
| Material | Sheet steel, powder-coated |
| Degree of protection | IK07 (impact resistance)<br>IP30 |
| Number of module space units per row | 24 |
| Number of rows | 2 |
| Terminal type | Screw terminals |
| PE and N terminal number and cross section | PE: 2 x 25 $mm^2$ + 43 x 16 $mm^2$<br>N: 2 x 25 $mm^2$ + 43 x 16 $mm^2$ |
| Built-in depth | 127 mm |
| Built-in height | 420 mm |
| Built-in width | 560 mm |
| Internal depth | 127 mm |
| Cover/door color | White |
| Cover/door model | Closed |
| Cover/door type | Door<br>Single |
| Module rack type | Rail frame |
| Protective shrouding material | Metal |
| **Temperature-rise verification as per IEC 60890** | |
| Heat diss. ambient 35°C delta T:20°C flush mount individ. encl. top(IEC 60890) | 34 W |

| | | |
|---|---|---|
| Heat diss. ambient 35°C delta T:35°C flush mount individ. encl. top(IEC 60890) | | 69 W |
| **Design verification as per IEC/EN 61439 - technical data** | | |
| Ambient operating temperature details | | -5 °C - 40 °C |
| **Design verification as per IEC/EN 61439** | | |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 Power-frequency electric strength | | Ui = 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. |
| **Additional information** | | |
| Features | | EMC-version<br>Earthing terminal block<br>Neutral terminal block |
| Fitted with: | | Neutral-/protective conductor terminal<br>Front plates<br>Door with three-point turn-lock<br>Wall trough with door frame<br>DIN rail mounting frame |
| Functions | | Basic device |
| Protection class | | I (earthed) |
| RAL-number | | 9016 |
| Special features | | IP30 Protection Class I Steel sheet enclosure white (RAL 9016) |
| Used with | | BF flat distribution board<br>Installation distribution board<br>Basic device |

## Technical data ETIM 9.0

Distribution boards (EG000023) / Small distribution board (EC000214)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (including small distribution board) / Small distribution board (ecl@ss13-27-14-24-09 [ACN387016])

| | | |
|---|---|---|
| Mounting method | | Flush-mounted |
| Number of rows | | 2 |
| Width in number of modular spacings | | 24 |
| Type of covering | | Door |
| Cover model | | Closed |
| Type of door | | Single |
| Transparent cover/door | | No |
| Signal passing door | | No |
| With lock | | No |
| Type of closure | | Other |
| Housing material | | Steel |
| Built-in depth | mm | 127 |

| | | | |
|---|---|---|---|
| Built-in height | | mm | 420 |
| Built-in width | | mm | 560 |
| Inner depth | | mm | 127 |
| Earthing terminal block | | | Yes |
| Neutral terminal block | | | Yes |
| DIN-rail | | | Yes |
| With mounting plate | | | No |
| Extension possible | | | No |
| EMC-version | | | Yes |
| UV resistant | | | No |
| Colour | | | White |
| RAL-number | | | 9016 |
| Degree of protection (IP) | | | IP30 |
| Height | | mm | 480 |
| Width | | mm | 600 |
| Depth | | mm | 140 |


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