**ECO Compact distribution board, flush mounting, 2-rows, 12 MU, IP40**

**Part no.** BC-U-2/24-ECO
**Article no.** 280356

# Delivery programme

| | | |
|---|---|---|
| Basic function | | Basic device |
| Product function | | Installation distribution boards |
| Product range | | ECO DBO |
| Design | | Flush mounted |
| Installation site | | Indoor |
| Type of installation | | Flush mounting |
| Door/Flap | | Transparent |
| Degree of Protection | | IP40 |
| Colour | | White |
| Module rack | | Single-rail |
| Shroud for protection against accidental contact | | Plastic |
| Rows | Count | 2 |
| Module units per row | | 12 |
| Description | | IP40<br>Protection Class II<br>Plastic housing white (RAL 9003) |
| Cable entries | | Cable entry ribs on top and bottom |
| PE and N terminals design | | Screw terminals |
| PE and N terminals | Number x cross-sectional area mm² | PE: 2 x (12 x 10)<br>N: 2 x (12 x 10) |
| Equipment supplied | | Basic device<br>Device support rails<br>Neutral-/protective conductor terminal |

# Technical data

## General

| | | | |
|---|---|---|---|
| Standards | | | EN 62208_x |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) | | | conform |
| Ambient temperature | | °C | -20 - +70 |
| Degree of Protection | | | IP40 |
| Protection class | | | II (totally insulated) |
| Rated operational voltage | Ue | V AC | 400 |
| Rated frequency | f | Hz | 50 |

## Material characteristics

| | |
|---|---|
| Material | ABS (plastic) |
| Colour | white (RAL 9003) |

## Material properties

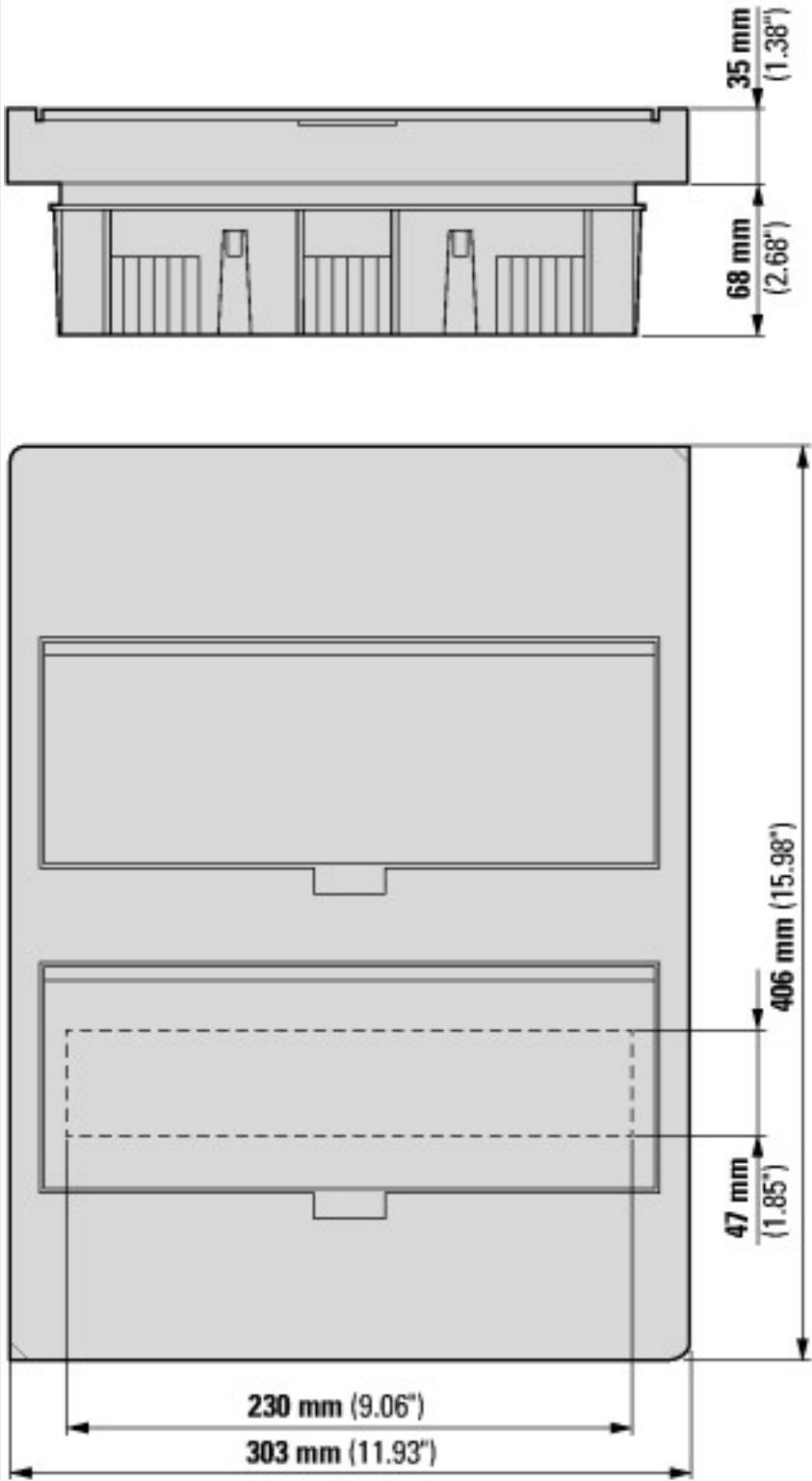| | |
|---|---|
| Mechanical | |
| Impact resistance | IK05 |

# Design verification as per IEC/EN 61439

| | |
|---|---|
| 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 | 850 °C; 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 | | IK05 |
| 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 | | Protection class 2, therefore not applicable. |
| 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 | | $U_i$ = 400 V AC |
| 10.9.3 Impulse withstand voltage | | 3.75 kV |
| 10.9.4 Testing of enclosures made of insulating material | | Meets the product standard's requirements. |
| 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 (ecl@ss8.1-27-14-24-09 [ACN387008])

| | | |
|---|---|---|
| Mounting method | | Flush mounted (plaster) |
| Number of rows | | 2 |
| Width in number of modular spacings | | 12 |
| Type of cover | | Door |
| Cover model | | Closed |
| Transparent cover/door | | Yes |
| Material housing | | Plastic |
| Height | mm | 406 |
| Width | mm | 303 |
| Depth | mm | 103 |
| Built-in depth | mm | 70 |
| Internal depth | mm | 95 |
| DIN-rail | | Yes |
| With mounting plate | | No |
| Extension possible | | No |
| EMC-version | | No |
| Colour | | White |
| RAL-number | | 9003 |
| Degree of protection (IP) | | IP40 |
| With lock | | No |

# Dimensions



## Additional product information (links)

**IL014002Z ECO compact distribution board**

| IL014002Z ECO compact distribution board | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014002ZU2014_02.pdf |
|---|---|
| Product overview (Web) | http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm |