



ECO Compact distribution board, surface mounted, 2-rows, 18 MU, IP40



Part no. **BC-O-2/36-TW-ECO**
 Catalog No. **281694**

Delivery program

| | | | |
|--|--------------------------------------|-----------------|--|
| Basic function | | | Basic device |
| Product function | | | Installation distribution boards |
| Product range | | | ECO DBO |
| Design | | | Surface mounted |
| Installation site | | | Indoor |
| Type of installation | | | Surface mounting |
| Door/Flap | | | White |
| Degree of Protection | | | IP40 |
| Colour | | | White |
| Module rack | | | Single-rail |
| Shroud for protection against accidental contact | | | Plastic |
| Rows | Count | | 2 |
| Module units per row | | | 18 |
| Description | | | IP40 Protection Class II Plastic housing white (RAL 9003) |
| Cable entries | | | Metric cable entries on top and bottom |
| PE and N terminals design | | | Screw terminals |
| PE and N terminals | Number x cross- sectional area | mm ² | PE: 2 x (18 x 10) N: 2 x (18 x 10) |
| Equipment supplied | | | Basic device Device support rails 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 | U _e | 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

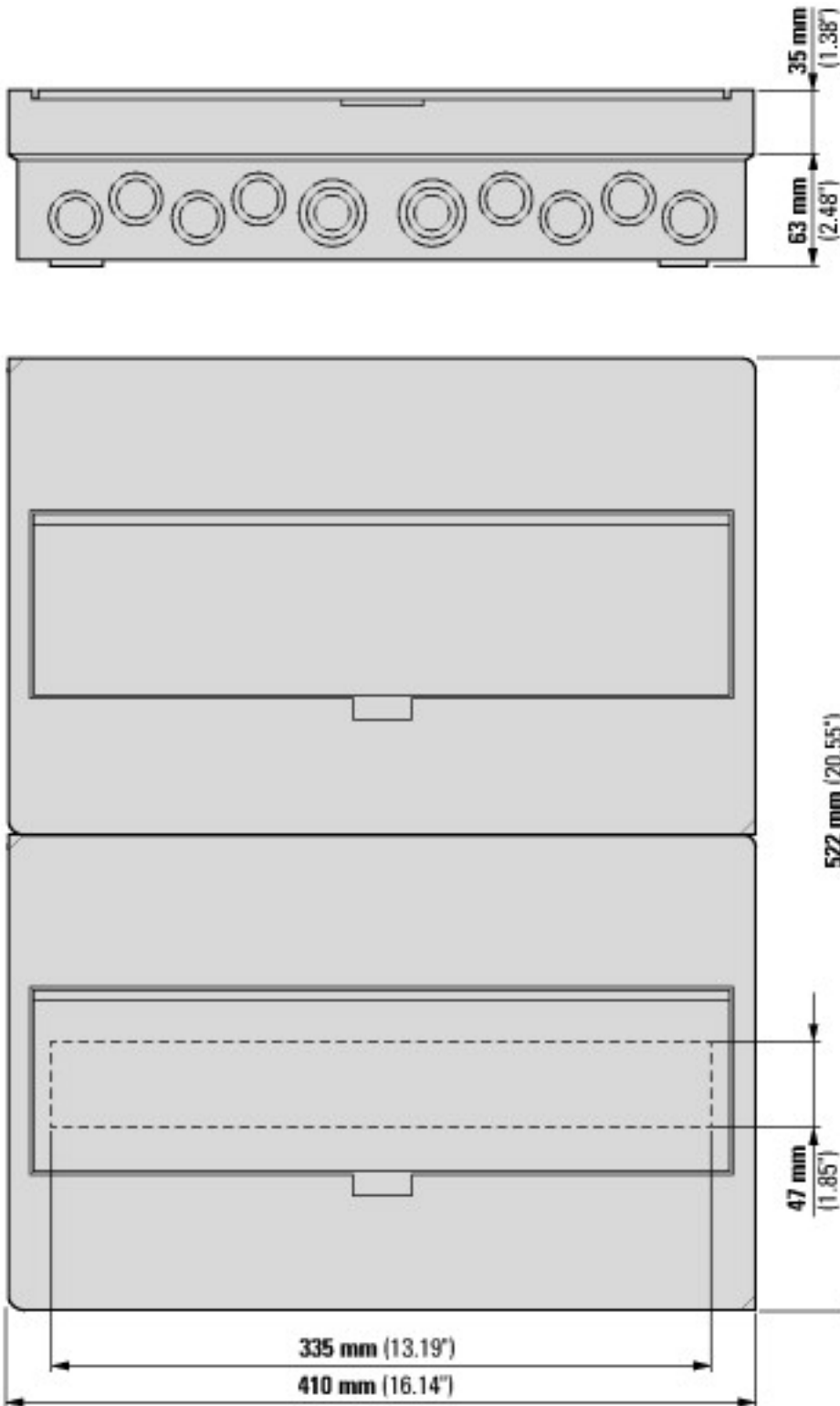
| | | | |
|---|----------------|---|----|
| Technical data for design verification | | | |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890 | | | |
| Individual enclosure for wall mounting | P _V | W | 29 |
| Heat dissipation, 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 _V | W | 57 |

| | | |
|--|--|--|
| 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 | | $U_i = 400 \text{ V AC}$ |
| 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 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 (ecl@ss10.0.1-27-14-24-09 [ACN387011]) | | |
| Mounting method | | Surface mounted (plaster) |
| Number of rows | | 2 |
| Width in number of modular spacings | | 18 |
| Type of cover | | Door |
| Cover model | | Closed |
| Transparent cover/door | | No |
| Material housing | | Plastic |
| Height | mm | 522 |
| Width | mm | 410 |
| Depth | mm | 98 |
| Built-in depth | mm | 70 |
| Internal depth | mm | 90 |
| 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 |
| Type of closure | | Other |

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>