



EWK wall-mount enclosure with standard mounting units, 144 SU, IP43, IK09, protection class 2, RAL9016, HxWxB=500x1050x160mm



Powering Business Worldwide™

Part no. EWK-10051
Catalog No. 174654
Alternate Catalog No. EWK-10051
EL-Nummer (Norway) 2455842

Delivery program

| | | | |
|--|--------------------------------------|-----------------|---|
| Basic function | | | Basic device |
| Product function | | | Installation distribution boards |
| Product range | | | EWK DBO |
| Design | | | Surface mounted |
| Installation site | | | Indoor |
| Type of installation | | | Surface mounting |
| Door/Flap | | | White |
| Degree of Protection | | | IP43 |
| Colour | | | White |
| Module rack | | | Rail-frame |
| Shroud for protection against accidental contact | | | Plastic |
| Rows | Count | | 3 |
| Module units per row | | | 48 |
| Description | | | IP43 Protection Class II Steel sheet enclosure white (RAL 9016) |
| Cable entries | | | Cable entries on top and bottom, back plate |
| PE and N terminals design | | | Plug-in terminals |
| PE and N terminals | Number x cross- sectional area | mm ² | PE: 4 x 6 x (1.5 - 16) N: 4 x 21 x (0.75 - 4) |
| Equipment supplied | | | Enclosure Installation panel for modular installation devices Neutral-/protective conductor terminal Locking screws can be sealed Two-component membrane gland plate insert |

Technical data

General

| | | | |
|---|----------------|------|------------------------|
| Standards | | | EN 61439-3 |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) | | | conform |
| Ambient temperature | | °C | -5 - +40 |
| Degree of Protection | | | IP43 |
| Protection class | | | II (totally insulated) |
| Rated operational voltage | U _e | V AC | 400 |
| Rated frequency | f | Hz | 50 |

Material characteristics

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

Material properties

| | | | |
|-------------------|--|--|------|
| Mechanical | | | |
| Impact resistance | | | IK09 |

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 | 74 |

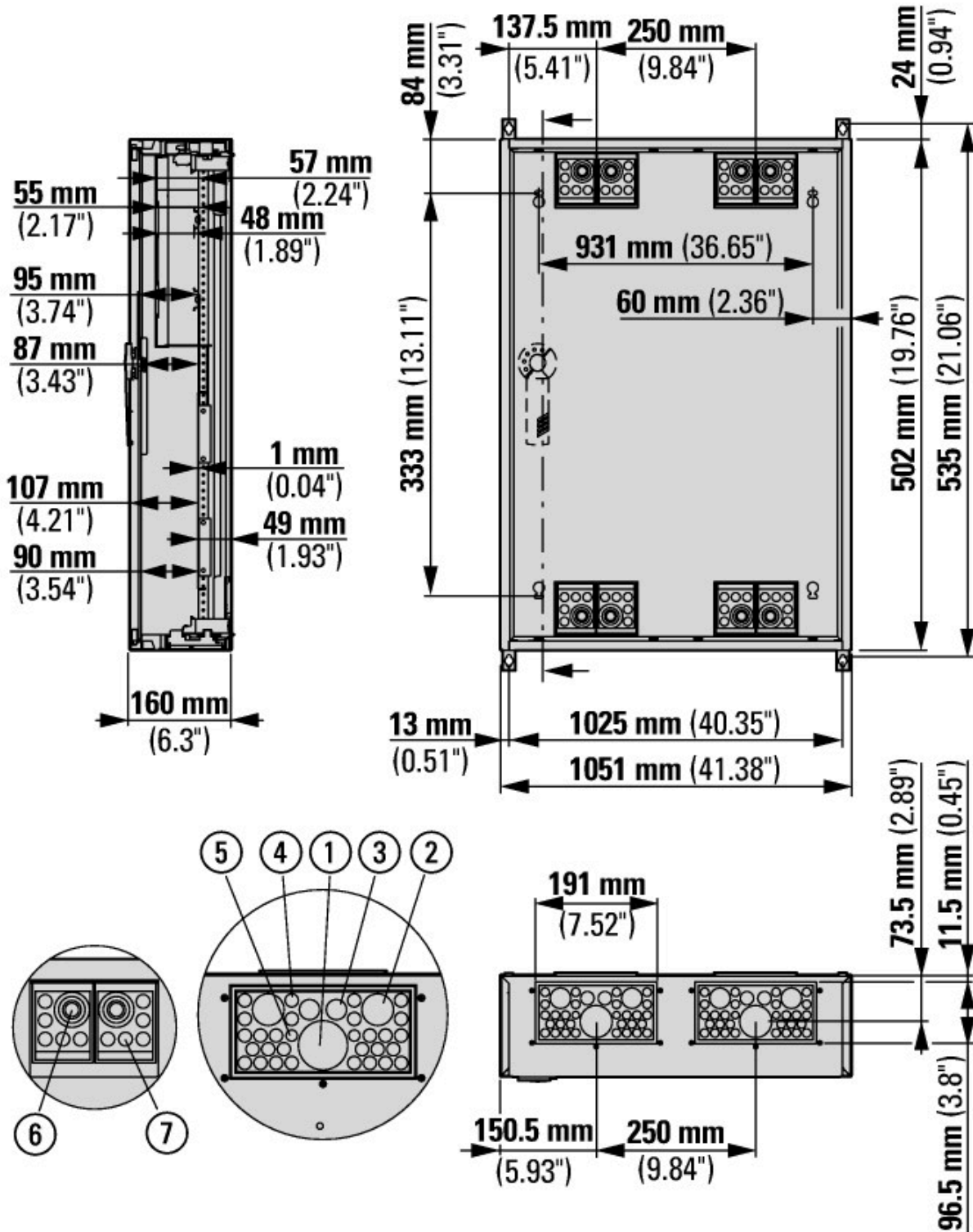
| | | | |
|---|----------------|---|--|
| Starting enclosure for wall mounting | P _V | W | 72 |
| Middle enclosure for wall mounting | P _V | W | 71 |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890 | | | |
| Individual enclosure for wall mounting | P _V | W | 149 |
| Starting enclosure for wall mounting | P _V | W | 145 |
| Middle enclosure for wall mounting | P _V | W | 141 |
| 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 | | | 750 °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 | | | IK09 |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | IP43 |
| 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 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 7.0

| | | | |
|--|----|--|----------------|
| Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261) | | | |
| Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss10.0.1-27-18-01-01 [AGZ056016]) | | | |
| Width | mm | | 1050 |
| Height | mm | | 500 |
| Depth | mm | | 160 |
| Material | | | Steel |
| Material quality | | | |
| Surface finishing | | | Powder coating |
| Colour | | | White |
| RAL-number | | | 9016 |
| With mounting plate | | | No |
| Mounting plate depth-adjustable | | | No |
| Number of locks | | | 1 |
| Floor installation possible | | | No |
| Wall fastening possible | | | Yes |
| Wall build in | | | Yes |
| Pole fastening | | | No |
| Tackable | | | Yes |
| Number of doors | | | 2 |
| Suitable for metrical mounting | | | Yes |
| Suitable for outdoor set-up | | | No |

| | |
|-----------------------------|------|
| Pitched roof | No |
| EMC-version | No |
| With glazed door | No |
| With ventilation door | No |
| With backside door | No |
| Impact strength | IK09 |
| Degree of protection (IP) | IP43 |
| Degree of protection (NEMA) | |

Dimensions



- ① 1 x Ø 5 - 74 mm
- ② 2 x Ø 5 - 29 mm
- ③ 2 x Ø 5 - 18 mm
- ④ 28 x Ø 5 - 11 mm
- ⑤ 2 x Ø 5 - 9 mm
- ⑥ 2 x Ø 16/21/29/38 mm
- ⑦ 10 x Ø 16 mm

Additional product information (links)

IL014004Z EWK enclosures for DIN rail-mounted devices

| | |
|---|---|
| IL014004Z EWK enclosures for DIN rail-mounted devices | https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL014004ZU2014_04.pdf |
| Product overview (Web) | http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm |