



**EWK wall-mount enclosure with standard mounting units, 36 SU, IP43, IK09, protection class 2, RAL9016, HxWxB=500x300x160mm**

**Part no. EWK-03051**  
**Catalog No. 174651**  
**Eaton Catalog No. EWK-03051**  
**EL-Nummer 2455839**  
**(Norway)**

## 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                             |                                      |                 | 12  |
| Description                                      |                                      |                 | IP43<br>Protection Class II<br>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<br>x cross-<br>sectional area | mm <sup>2</sup> | PE: 6 x (1.5 - 16)<br>N: 21 x (0.75 - 4)  |
| Equipment supplied                               |                                      |                 | Enclosure<br>Installation panel for modular installation devices<br>Neutral-/protective conductor terminal<br>Locking screws can be sealed<br>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 <sub>e</sub> | V AC | 400                    |
| Rated frequency   | f              | Hz   | 50                     |

### Material characteristics

|          |  |  |  |
|----------|--|--|--|
| Material |  |  | Sheet steel, powder-coated<br>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 <sub>v</sub> | W | 27 |

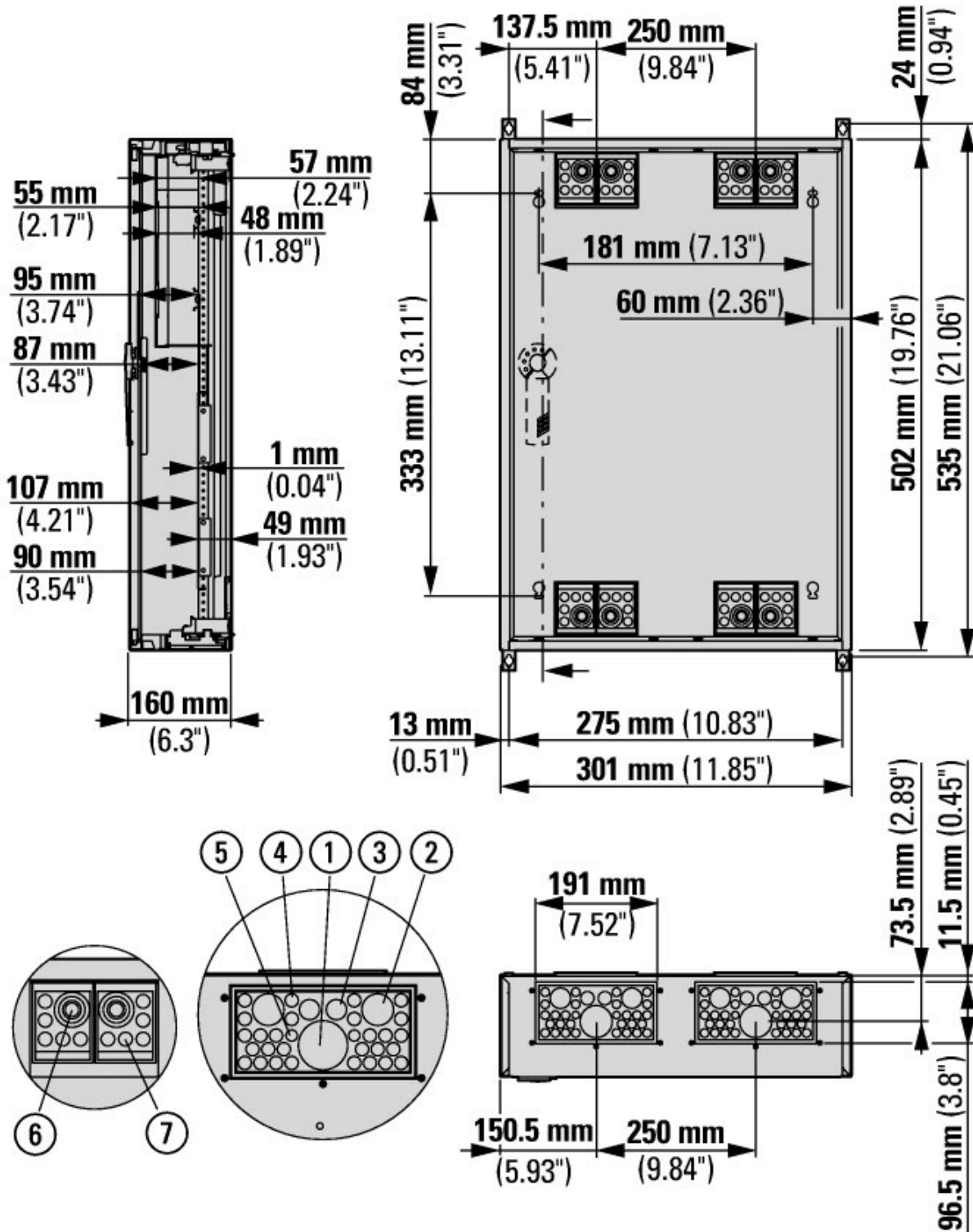
|   |                |   |  |
|---|----------------|---|--|
| Starting enclosure for wall mounting  | P <sub>V</sub> | W | 25   |
| Middle enclosure for wall mounting  | P <sub>V</sub> | W | 23   |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890 |                |   |  |
| Individual enclosure for wall mounting  | P <sub>V</sub> | W | 53   |
| Starting enclosure for wall mounting  | P <sub>V</sub> | W | 50   |
| Middle enclosure for wall mounting  | P <sub>V</sub> | W | 46   |
| 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 <sub>i</sub> = 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 |  | 300            |
| 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  |    |  | 1              |
| 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 | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014004ZU2014_04.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014004ZU2014_04.pdf</a>           |
| Product overview (Web)                                | <a href="http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm">http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm</a> |