



## Hollow wall compact distribution board; 1-rows; flush sheet steel door

**Part no.** KLV-12HWP-F  
**Article no.** 178806

### Delivery program

|  |                                      |                 |   |
|--|--------------------------------------|-----------------|---|
| Product image                                    |                                      |                 |   |
| Basic function                                   |                                      |                 | Basic device  |
| Product function                                 |                                      |                 | Installation distribution boards  |
| Product range                                    |                                      |                 | KLV DB0   |
| Design   |                                      |                 | Hollow wall   |
| Installation site                                |                                      |                 | Indoor  |
| Type of installation                             |                                      |                 | Hollow-wall mounting  |
| Door/Flap  |                                      |                 | White   |
| Degree of Protection                             |                                      |                 | IP30  |
| Colour   |                                      |                 | White   |
| Module rack                                      |                                      |                 | Single-rail   |
| Shroud for protection against accidental contact |                                      |                 | Plastic   |
| Rows   | Count                                |                 | 1   |
| Module units per row                             |                                      |                 | 12  |
| Description                                      |                                      |                 | IP30<br>Protection Class II<br>Plastic enclosure with sheet steel door, white (RAL 9016)  |
| Cable entries                                    |                                      |                 | Cable entries on top and bottom, side, 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: 2 x (2.5 - 25) + 14 x (0.5 - 4)<br>N: 2 x (2.5 - 25) + 14 x (0.5 - 4)   |
| Equipment supplied                               |                                      |                 | Wall trough<br>Door/Frame<br>Device support rails<br>Front cover<br>Neutral and protective conductor terminals with KSK plug-in terminal technology<br>Spirit level for leveling<br>3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm<br>Cable retainer<br>Device support rails<br>Installation instructions<br>Imprintable sheet |

### Technical data

#### General

|   |    |      |                               |
|---|----|------|-------------------------------|
| Standards   |    |      | IEC/EN 62208, IEC/EN 60670-24 |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) |    |      | conform                       |
| Ambient temperature   |    | °C   | -5 - +40                      |
| Degree of Protection  |    |      | IP30                          |
| Protection class  |    |      | II (totally insulated)        |
| Rated operational voltage   | Ue | V AC | 400                           |
| Rated frequency   | f  | Hz   | 50                            |

#### Material characteristics

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

#### Material properties

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

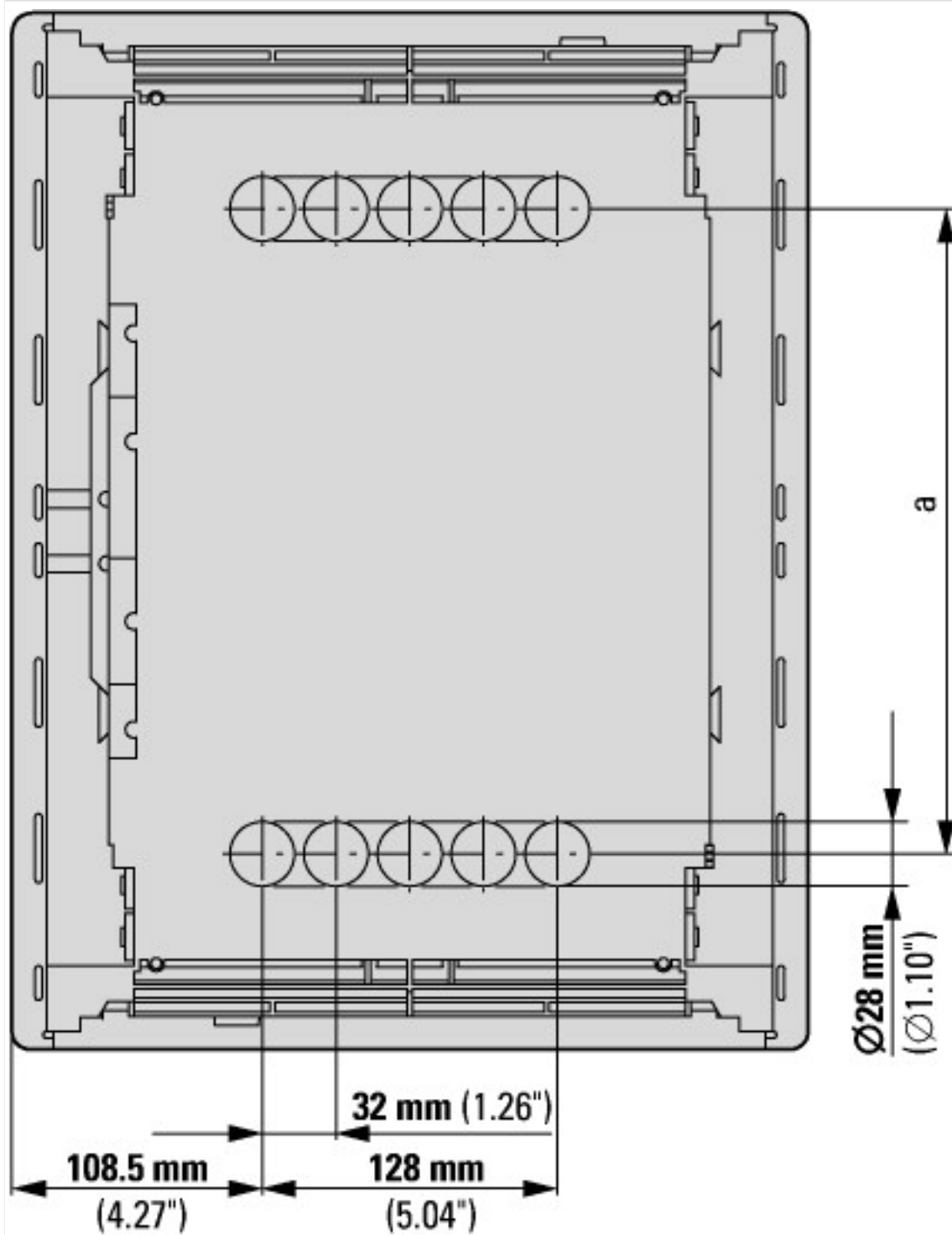
## Design verification as per IEC/EN 61439

|  |                |    |  |
|--|----------------|----|--|
| Technical data for design verification   |                |    |  |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees, calculated as per IEC 60890                  |                |    |  |
| Individual enclosure, flush mounting   | P <sub>V</sub> | CO | 13   |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890                  |                |    |  |
| Individual enclosure, flush mounting   | P <sub>V</sub> | CO | 21   |
| 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  |                |    | IP30   |
| 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   |                |    | 4 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 (ec1@ss8.1-27-14-24-09 [ACN387008]) |  |    |             |
| Mounting method  |  |    | Hollow wall |
| Number of rows   |  |    | 1           |
| Width in number of modular spacings  |  |    | 12          |
| Type of cover  |  |    | Door        |
| Cover model  |  |    | With notch  |
| Transparent cover/door   |  |    | No          |
| Material housing   |  |    | Plastic     |
| Height   |  | mm | 340         |
| Width  |  | mm | 360         |
| Depth  |  | mm | 100         |
| Built-in depth   |  | mm | 88          |
| Internal depth   |  | mm | 75          |
| DIN-rail   |  |    | Yes         |
| With mounting plate  |  |    | No          |
| Extension possible   |  |    | Yes         |
| EMC-version  |  |    | Yes         |
| Colour   |  |    | White       |
| RAL-number   |  |    | 9016        |





### Additional product information (links)

#### IL014007Z KLV compact distribution board

IL014007Z KLV compact distribution board [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL014007ZU2015\\_10.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014007ZU2015_10.pdf)

#### IL014009Z KLV Compact distribution board

IL014009Z KLV Compact distribution board [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL014009ZU2015\\_10.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014009ZU2015_10.pdf)

Product overview (Web)

<http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm>