# DATASHEET - KLV-48HWS-F



**Hollow wall compact distribution board; 4-rows; flush sheet steel door**

**Part no.** KLV-48HWS-F
**Catalog No.** 178828

Powering Business Worldwide™

## Delivery program

| | | | |
|---|---|---|---|
| Product image | | |  |
| Basic function | | | Basic device |
| Product function | | | Installation distribution boards |
| Product range | | | KLV energy |
| Design | | | Hollow wall |
| Installation site | | | Indoor |
| Type of installation | | | Hollow-wall mounting |
| Door/Flap | | | White |
| Degree of Protection | | | IP30 |
| Colour | | | White |
| Module rack | | | Rail-frame |
| Shroud for protection against accidental contact | | | Plastic |
| Rows | Count | | 4 |
| 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 | | | Screw terminals |
| PE and N terminals | Number x cross-sectional area | $mm^2$ | PE: 25 x (0.75 - 16)<br>N: 25 x (0.75 - 16)<br>N - Fi: 4x (0.75 - 16) |
| Equipment supplied | | | Wall trough<br>Door/Frame<br>Device support rails<br>Front cover<br>Neutral and protective conductor terminals with SK screw 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>Hollow-wall anchor<br>Installation instructions<br>Imprintable sheet |

## Technical data

### General

| | | | |
|---|---|---|---|
| Standards | | | IEC/EN 62208, IEC/EN 60670-24 (PD) |
| 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 in top of the enclosure, calculated as per IEC 60890 | | | |
| Individual enclosure, flush mounting | $P_V$ | W | 24 |
| 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, flush mounting | $P_V$ | W | 48 |
| 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 | | | $U_i$ = 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 7.0

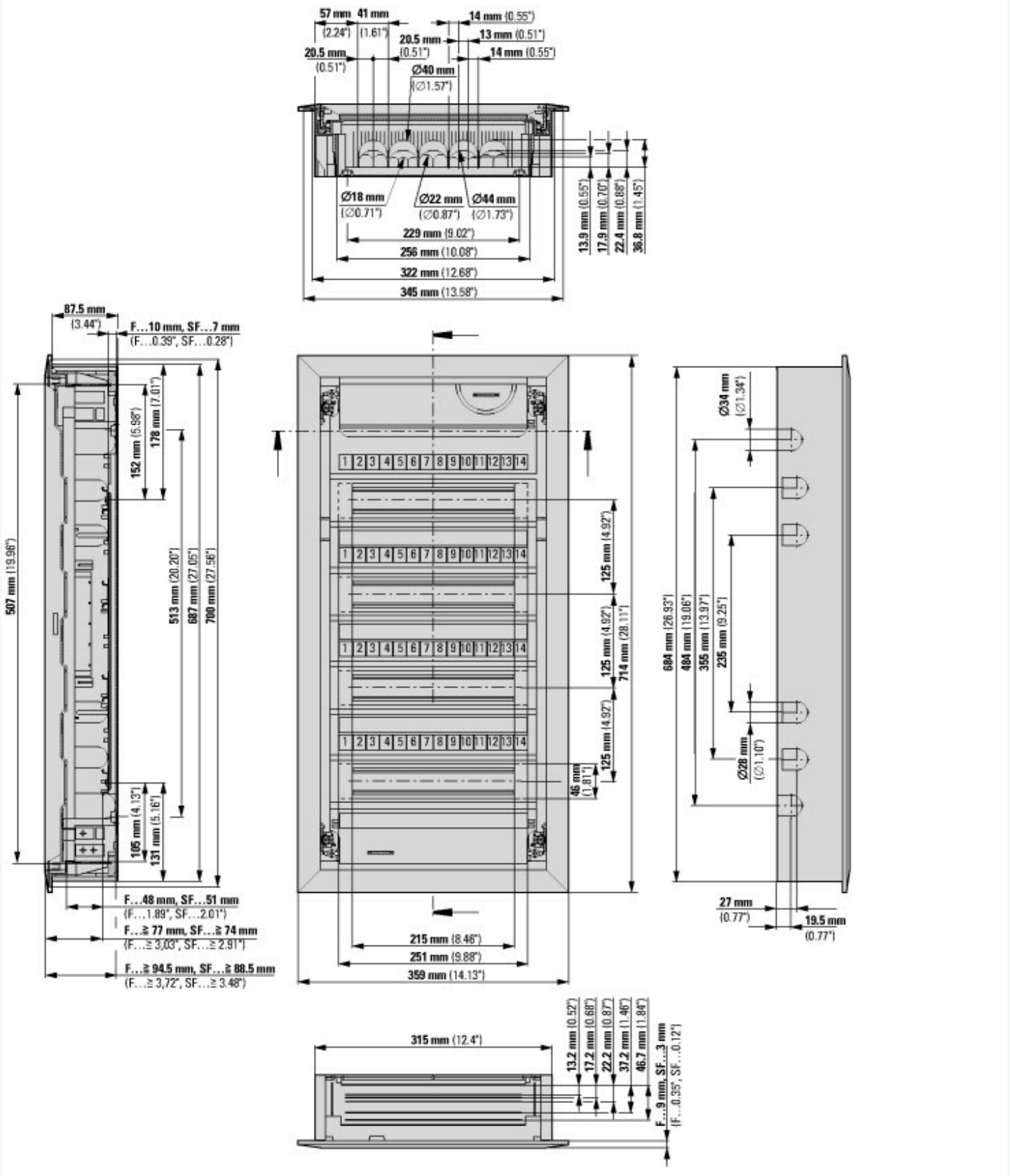
Distribution boards (EG000023) / Small distribution board (EC000214)

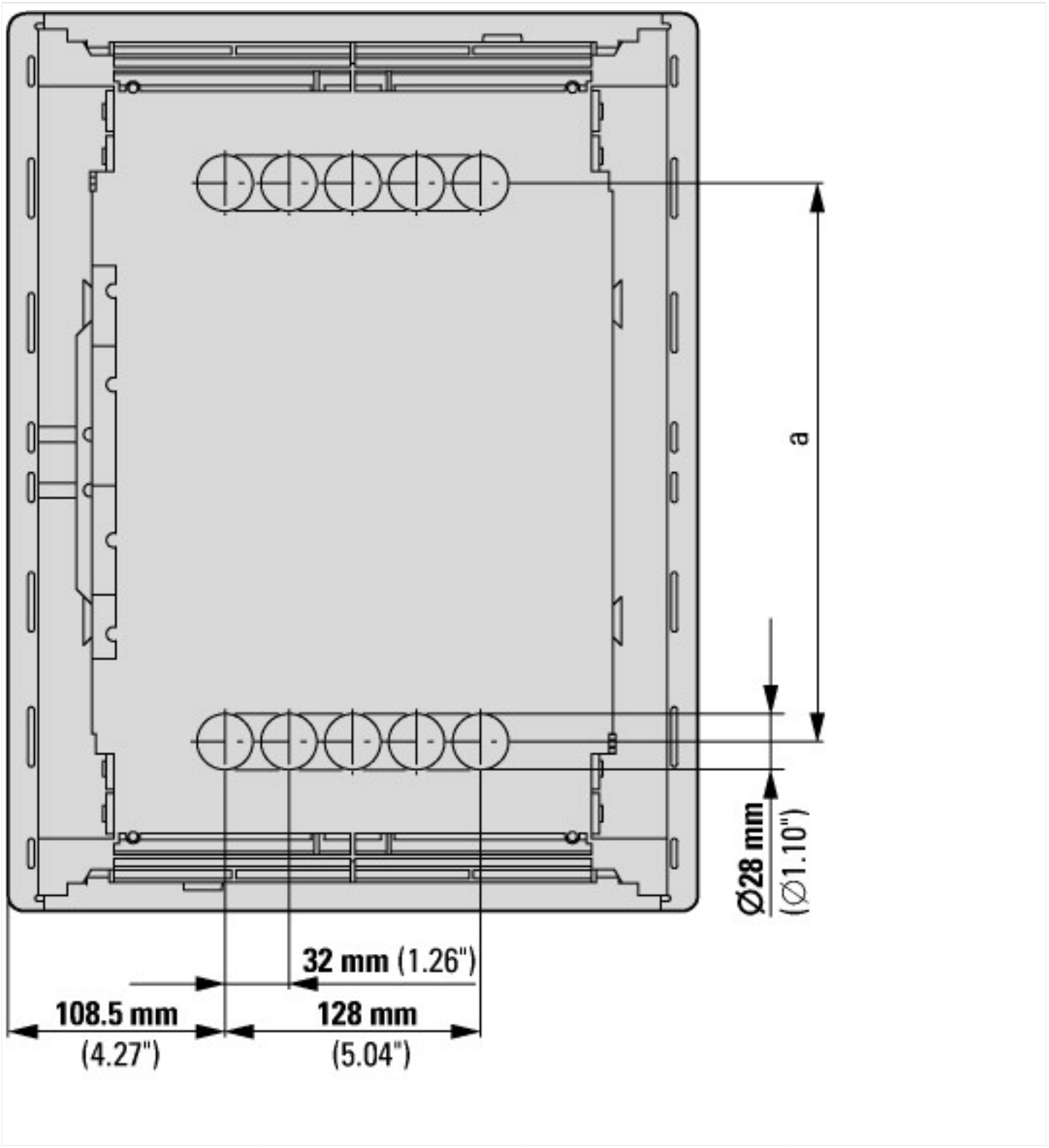
Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl@ss10.0.1-27-14-24-09 [ACN387011])

| | | | |
|---|---|---|---|
| Mounting method | | | Hollow wall |
| Number of rows | | | 4 |
| Width in number of modular spacings | | | 12 |
| Type of cover | | | Door |
| Cover model | | | With notch |
| Transparent cover/door | | | No |
| Material housing | | | Plastic |
| Height | | mm | 715 |
| 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 |
| Degree of protection (IP) | IP30 |
| With lock | No |
| Type of closure | Other |

## Dimensions






## Additional product information (links)

| | |
|---|---|
| Product overview (Web) | http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm |


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