




Hollow wall compact distribution board; 4-rows; super-slim sheet steel door

Part no. KLV-48HWP-SF
Catalog No. 178813

Delivery program

| | | | |
|--|--------------------------------------|-----------------|---|
| Product image | | |  |
| Basic function | | | Basic device |
| Product function | | | Installation distribution boards |
| Product range | | | KLV DBO |
| 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 Protection Class II 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 x cross- sectional area | mm ² | PE: 4 x (2.5 - 25) + 28 x (0.5 - 4) N: 4 x (2.5 - 25) + 28 x (0.5 - 4) |
| Equipment supplied | | | Wall trough Door/Frame Device support rails Front cover Neutral and protective conductor terminals with KSK plug-in terminal technology Spirit level for leveling 3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm Cable retainer Device support rails Installation instructions 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 | U _e | V AC | 400 |
| Rated frequency | f | Hz | 50 |

Material characteristics

| | | | |
|----------|--|--|--|
| Material | | | Polystyren (plastic) Sheet steel, powder-coated |
|----------|--|--|--|

| | | |
|----------------------------|--|------------------|
| Colour | | white (RAL 9016) |
| Material properties | | |
| Mechanical | | |
| Impact resistance | | IK05 |

Design verification as per IEC/EN 61439

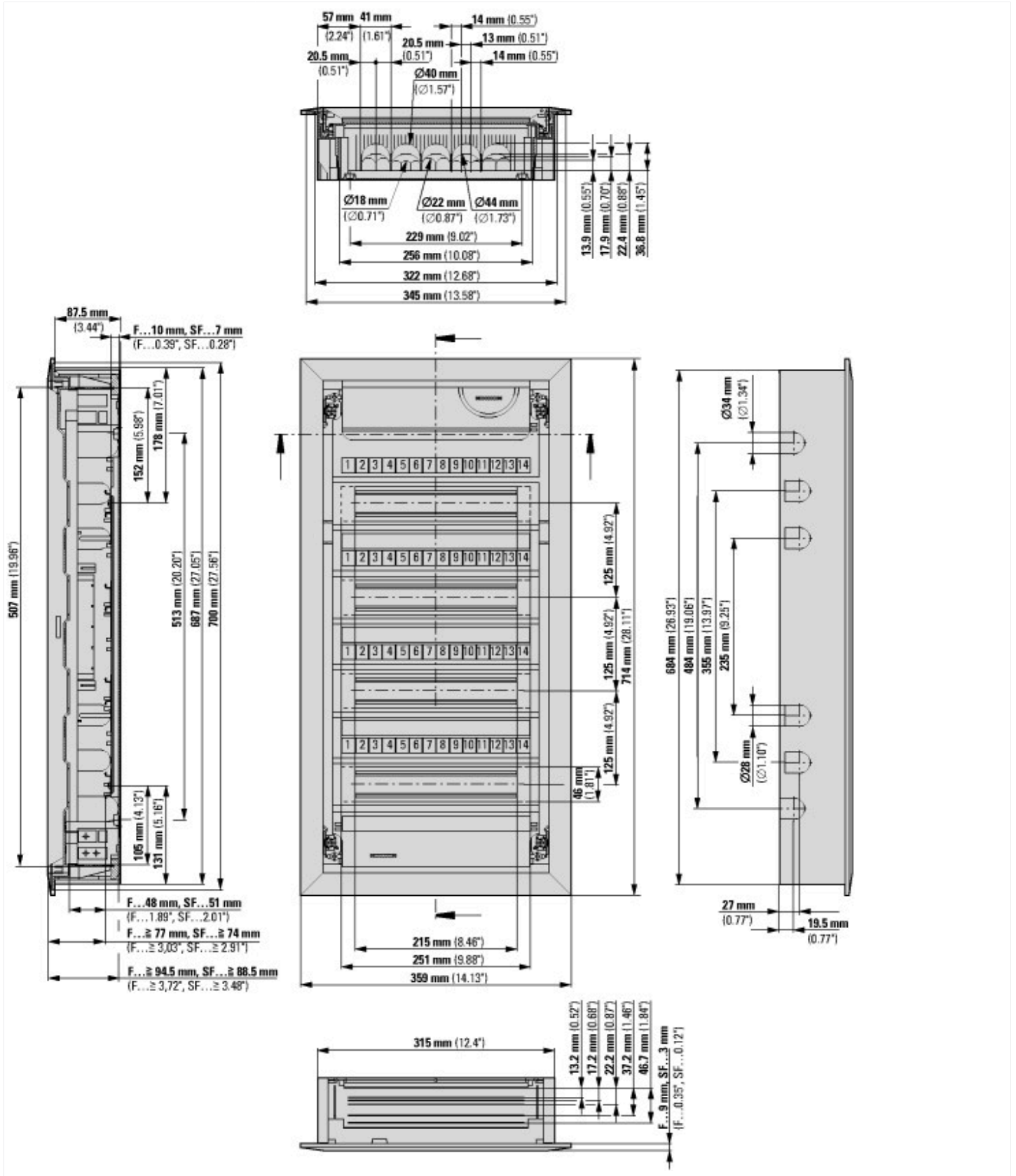
| | | | |
|--|----------------|---|----|
| Technical data for design verification | | | |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890 | | | |
| Individual enclosure, flush mounting | P _V | W | 24 |
| Heat dissipation, 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)

IL014007Z KLV compact distribution board

IL014007Z KLV compact distribution board 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/IL014009ZU2019_08.pdf

Product overview (Web)

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