# DATASHEET - KLV-48HWS-SF

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

**Part no.** **KLV-48HWS-SF**
**178829**

| | |
|---|---|
| **General specifications** | |
| Product name | Eaton xComfort KLV energy distribution board |
| Part no. | KLV-48HWS-SF |
| EAN | 4015081741588 |
| Product Length/Depth | 100 millimetre |
| Product height | 715 millimetre |
| Product width | 360 millimetre |
| Product weight | 4.98 kilogram |
| Compliances | RoHS conform |
| Certifications | IEC/EN 60670-24 (PD)<br>IEC/EN 62208 |
| Product Tradename | xComfort KLV |
| Product Type | Energy distribution board |
| Product Sub Type | None |
| **Delivery program** | |
| Type | Basic device Installation distribution board KLV energy |
| Application | Indoor (installation site) |
| Color | White<br>Traffic white (RAL 9016) |
| **Technical Data - Electrical** | |
| Frequency rating of contacts | 50 Hz |
| **Technical Data - Mechanical** | |
| Closure type | Other |
| Enclosure material | Plastic |
| Width in number of modular spacings | 12 |
| Mounting method | Hollow-wall mounting<br>Hollow wall<br>DIN-rail |
| Material | Polystyren (plastic)<br>Sheet steel, powder-coated |
| Degree of protection | IP30<br>IK05 (impact resistance) |
| Number of module space units per row | 12 |
| Number of rows | 4 |
| Terminal type | Screw terminals |
| PE and N terminal number and cross section | N - Fi: 4x (0.75 $mm^2$ - 16 $mm^2$)<br>PE: 25 x (0.75 $mm^2$ - 16 $mm^2$)<br>N: 25 x (0.75 $mm^2$ - 16 $mm^2$) |
| Built-in depth | 88 mm |
| Built-in height | 0 mm |
| Built-in width | 0 mm |
| Internal depth | 75 mm |
| Cover/door color | White |
| Cover/door model | With notch |
| Cover/door type | Single<br>Door |
| Module rack type | Rail frame |
| Protective shrouding material | Plastic |
| **Temperature-rise verification as per IEC 60890** | |
| Heat diss. ambient 35°C delta T:20°C flush mount individ. encl. top(IEC 60890) | 24 W |
| **Design verification as per IEC/EN 61439 - technical data** | |

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| Ambient operating temperature details | -5 °C - 40 °C |

## Design verification as per IEC/EN 61439

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| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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. |
| 10.9.2 Power-frequency electric strength | Ui = 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. |

## Additional information

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|---|---|
| Features | EMC-version |
| Fitted with: | Cable retainer<br>Door/Frame<br>Wall trough<br>Front cover<br>Hollow-wall anchor<br>3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm<br>Imprintable sheet<br>Spirit level for leveling<br>Device support rails<br>Neutral and protective conductor terminals with SK screw terminal technology<br>Installation instructions |
| Functions | Basic device<br>Extension possible |
| Protection class | II (totally insulated) |
| RAL-number | 9016 |
| Special features | IP30 Protection Class II Plastic enclosure with sheet steel door, white (RAL 9016) |
| Used with | Basic device<br>KLV energy<br>Installation distribution board |

# Technical data ETIM 9.0

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

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (including small distribution board) / Small distribution board (ecl@ss13-27-14-24-09 [ACN387016])

| | |
|---|---|
| Mounting method | Hollow wall |
| Number of rows | 4 |
| Width in number of modular spacings | 12 |
| Type of covering | Door |
| Cover model | With notch |
| Type of door | Single |
| Transparent cover/door | No |
| Signal passing door | No |
| With lock | No |
| Type of closure | Other |

| | | | |
|---|---|---|---|
| Housing material | | | Plastic |
| Built-in depth | | mm | 88 |
| Built-in height | | mm | 0 |
| Built-in width | | mm | 0 |
| Inner depth | | mm | 75 |
| Earthing terminal block | | | No |
| Neutral terminal block | | | No |
| DIN-rail | | | Yes |
| With mounting plate | | | No |
| Extension possible | | | Yes |
| EMC-version | | | Yes |
| UV resistant | | | No |
| Colour | | | White |
| RAL-number | | | 9016 |
| Degree of protection (IP) | | | IP30 |
| Height | | mm | 715 |
| Width | | mm | 360 |
| Depth | | mm | 100 |


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