

# Specifications



## Eaton 178820

Eaton xComfort KLV LV systems Final Distribution Boards. Compact distribution board-flush mounting, 4-rows, flush sheet steel door, 48UPS-F

### General specifications

|                             |  |
|-----------------------------|--|
| <b>PRODUCT NAME</b>         | Eaton xComfort KLV energy distribution board |
| <b>CATALOG NUMBER</b>       | 178820                                       |
| <b>MODEL CODE</b>           | KLV-48UPS-F                                  |
| <b>EAN</b>                  | 4015081741496                                |
| <b>PRODUCT LENGTH/DEPTH</b> | 100 mm                                       |
| <b>PRODUCT HEIGHT</b>       | 715 mm                                       |
| <b>PRODUCT WIDTH</b>        | 360 mm                                       |
| <b>PRODUCT WEIGHT</b>       | 4.98 kg                                      |
| <b>COMPLIANCES</b>          | RoHS conform                                 |
| <b>CERTIFICATIONS</b>       | IEC/EN 60670-24 (PD)<br>IEC/EN 62208         |
| <b>GLOBAL CATALOG</b>       | 178820                                       |



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## Product specifications

|   |  |
|---|--|
| <b>USED WITH</b>  | Installation distribution board<br>Basic device<br>KLV energy  |
| <b>SPECIAL FEATURES</b>   | <ul style="list-style-type: none"> <li>• IP30</li> <li>• Protection Class II</li> <li>• Plastic enclosure with sheet steel door, white (RAL 9016)</li> </ul> |
| <b>TYPE</b>   | <ul style="list-style-type: none"> <li>• Basic device</li> <li>• Installation distribution board</li> <li>• KLV energy</li> </ul>                            |
| <b>FEATURES</b>   | EMC-version  |
| <b>10.10 TEMPERATURE RISE</b>   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.                             |
| <b>10.11 SHORT-CIRCUIT RATING</b>   | Is the panel builder's responsibility.   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>  | Is the panel builder's responsibility.   |
| <b>10.13 MECHANICAL FUNCTION</b>  | Meets the product standard's requirements.   |
| <b>10.2.2 CORROSION RESISTANCE</b>  | Meets the product standard's requirements.   |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.   |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.   |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | 650 °C; meets the product standard's requirements.   |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Not relevant to indoor installations.  |
| <b>10.2.5 LIFTING</b>   | Does not apply to enclosures without lifting aids.   |
| <b>10.2.6 MECHANICAL IMPACT</b>   | IK05   |

## Resources

|                                   |   |
|-----------------------------------|---|
| <b>BROCHURES</b>                  | <a href="#">eaton-xcomfort-compact-distribution-boxes-brochure-br014015en-en-us.pdf</a>   |
| <b>CATALOGS</b>                   | <a href="#">eaton-xcomfort-compact-distribution-catalog-ca015004en-en-us.pdf</a>  |
| <b>DECLARATIONS OF CONFORMITY</b> | <a href="#">eaton-energy-distribution-board-declaration-of-conformity-eu250308en.pdf</a>  |
| <b>DRAWINGS</b>                   | <a href="#">eaton-lighting-xcomfort-klv-lv-systems-dimensions-1230DIM-433.eps</a><br><br><a href="#">eaton-lighting-xcomfort-klv-lv-systems-dimensions-005.eps</a><br><br><a href="#">eaton-lighting-xcomfort-klv-lv-systems-dimensions-007.eps</a> |
| <b>ECAD MODEL</b>                 | <a href="#">DA-CE-ETN.KLV-48UPS-F</a>   |
| <b>INSTALLATION INSTRUCTIONS</b>  | <a href="#">eaton-compact-distribution-board-klv-il014009zu.pdf</a><br><br><a href="#">IL014007ZU</a>   |
| <b>INSTALLATION VIDEOS</b>        | <a href="#">New xComfort KLV 5-row series</a>   |

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|--|---|
| <b>10.2.7 INSCRIPTIONS</b>   | Meets the product standard's requirements.  |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                         | IP30  |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                          | Is the panel builder's responsibility.  |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                          | Protection class 2, therefore not applicable.   |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>          | Is the panel builder's responsibility.  |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>               | Is the panel builder's responsibility.  |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                        | Is the panel builder's responsibility.  |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                        | U <sub>i</sub> = 400 V AC   |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                                | 4 kV  |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>        | Meets the product standard's requirements.  |
| <b>FITTED WITH:</b>  | Cable retainer<br>Installation instructions<br>Imprintable sheet<br>Nail lugs<br>Door/Frame<br>Spirit level for leveling<br>Front cover<br>Wall trough<br>Device support rails<br>3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm<br>Neutral and protective conductor terminals with SK screw terminal technology |
| <b>ENCLOSURE MATERIAL</b>  | Plastic   |
| <b>BUILT-IN HEIGHT</b>   | 0 mm  |
| <b>BUILT-IN WIDTH</b>  | 0 mm  |
| <b>CABLE ENTRY POSTION</b>   | Cable entries on top and bottom, side, back plate   |
| <b>TERMINAL TYPE</b>   | Screw terminals   |
| <b>BUILT-IN DEPTH</b>  | 88 mm   |
| <b>HEAT DISS. AMBIENT 35°C DELTA T:20°C FLUSH MOUNT INDIVID. ENCL.</b> | 24 W  |

|   |   |
|---|---|
| <b>TOP(IEC 60890)</b>   |   |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T:35°C FLUSH<br/>MOUNT INDIVID. ENCL.<br/>TOP(IEC 60890)</b> | 48 W  |
| <b>CLOSURE TYPE</b>   | Other   |
| <b>COVER/DOOR COLOR</b>   | White   |
| <b>COVER/DOOR MODEL</b>   | With notch  |
| <b>COVER/DOOR TYPE</b>  | Door<br>Single  |
| <b>RAL-NUMBER</b>   | 9016  |
| <b>WIDTH IN NUMBER OF<br/>MODULAR SPACINGS</b>  | 12  |
| <b>AMBIENT OPERATING<br/>TEMPERATURE DETAILS</b>  | -5 °C - 40 °C   |
| <b>APPLICATION</b>  | Indoor (installation site)  |
| <b>VOLTAGE RATING AT AC</b>   | 400 V AC  |
| <b>COLOR</b>  | Traffic white (RAL 9016)<br>White   |
| <b>NUMBER OF ROWS</b>   | 4   |
| <b>FREQUENCY RATING OF<br/>CONTACTS</b>   | 50 Hz   |
| <b>MODULE RACK TYPE</b>   | Rail frame  |
| <b>DEGREE OF PROTECTION</b>   | IK05 (impact resistance)<br>IP30  |
| <b>NUMBER OF MODULE<br/>SPACE UNITS PER ROW</b>   | 12  |
| <b>PROTECTION CLASS</b>   | II (totally insulated)  |
| <b>PROTECTIVE SHROUDING<br/>MATERIAL</b>  | Plastic   |
| <b>FUNCTIONS</b>  | Basic device<br>Extension possible<br>Sealable  |
| <b>MATERIAL</b>   | Sheet steel, powder-<br>coated<br>Polystyren (plastic)  |
| <b>MOUNTING METHOD</b>  | DIN-rail<br>Flush mounting<br>Flush mounted (plaster)   |
| <b>INTERNAL DEPTH</b>   | 75 mm   |
| <b>PE AND N TERMINAL<br/>NUMBER AND CROSS<br/>SECTION</b>   | N - Fi: 4x (0.75 mm <sup>2</sup> - 16<br>mm <sup>2</sup> )<br>PE: 25 x (0.75 mm <sup>2</sup> - 16<br>mm <sup>2</sup> )<br>N: 25 x (0.75 mm <sup>2</sup> - 16<br>mm <sup>2</sup> ) |
| <b>NUMBER OF OPENINGS<br/>FOR SOCKET OUTLETS</b>  | 0   |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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