

# Specifications



## Eaton 178804

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

### General specifications

<b>PRODUCT NAME</b>	Eaton xComfort KLV energy distribution board
<b>CATALOG NUMBER</b>	178804
<b>MODEL CODE</b>	KLV-48UPP-F
<b>EAN</b>	4015081741335
<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 62208 IEC/EN 60670-24 (PD)
<b>GLOBAL CATALOG</b>	178804



Powering Business Worldwide

## Product specifications

<b>USED WITH</b>	KLV energy Basic device Installation distribution board
<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>  <a href="#">eaton-lighting-xcomfort-klv-lv-systems-dimensions-007.eps</a>  <a href="#">eaton-lighting-xcomfort-klv-lv-systems-dimensions-005.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.KLV-48UPP-F</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-compact-distribution-board-klv-il014009zu.pdf</a>  <a href="#">IL014007ZU</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">New xComfort KLV 5-row series</a>

<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>	<ul style="list-style-type: none"> <li>Wall trough</li> <li>Device support rails</li> <li>Neutral and protective conductor terminals with KSK plug-in terminal technology</li> <li>Front cover</li> <li>Nail lugs</li> <li>Door/Frame</li> <li>Imprintable sheet</li> <li>3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm</li> <li>Cable retainer</li> <li>Installation instructions</li> <li>Spirit level for leveling</li> </ul>
<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>	Plug-in 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 35°C DELTA T:35°C FLUSH MOUNT INDIVID. ENCL. 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 Single
<b>RAL-NUMBER</b>	9016
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	12
<b>AMBIENT OPERATING 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) White
<b>NUMBER OF ROWS</b>	4
<b>FREQUENCY RATING OF CONTACTS</b>	50 Hz
<b>MODULE RACK TYPE</b>	Rail frame
<b>DEGREE OF PROTECTION</b>	IP30 IK05 (impact resistance)
<b>NUMBER OF MODULE SPACE UNITS PER ROW</b>	12
<b>PROTECTION CLASS</b>	II (totally insulated)
<b>PROTECTIVE SHROUDING MATERIAL</b>	Plastic
<b>FUNCTIONS</b>	Extension possible Basic device Sealable
<b>MATERIAL</b>	Sheet steel, powder- coated Polystyren (plastic)
<b>MOUNTING METHOD</b>	Flush mounted (plaster) DIN-rail Flush mounting
<b>INTERNAL DEPTH</b>	75 mm
<b>PE AND N TERMINAL NUMBER AND CROSS SECTION</b>	PE: 4 x (2.5 mm <sup>2</sup> - 25 mm <sup>2</sup> ) + 28 x (0.5 mm <sup>2</sup> - 4 mm <sup>2</sup> ) N: 4 x (2.5 mm <sup>2</sup> - 25 mm <sup>2</sup> ) + 28 x (0.5 mm <sup>2</sup> - 4 mm <sup>2</sup> )
<b>NUMBER OF OPENINGS FOR SOCKET OUTLETS</b>	0

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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**Eaton Corporation plc**  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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