

**Part no.**                    **KLV-48UPP-F**  
**178804**

<b>General specifications</b>		
Product name		Eaton xComfort KLV energy distribution board
Part no.		KLV-48UPP-F
EAN		4015081741335
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) IEC/EN 62208
Product Tradename		xComfort KLV
Product Type		Energy distribution board
Product Sub Type		None
<b>Delivery program</b>		
Type		Basic device Installation distribution board KLV energy
Application		Indoor (installation site)
Color		Traffic white (RAL 9016) White
<b>Technical Data - Electrical</b>		
Frequency rating of contacts		50 Hz
<b>Technical Data - Mechanical</b>		
Closure type		Other
Enclosure material		Plastic
Width in number of modular spacings		12
Mounting method		Flush mounted (plaster) DIN-rail Flush mounting
Material		Sheet steel, powder-coated Polystyren (plastic)
Degree of protection		IP30 IK05 (impact resistance)
Number of module space units per row		12
Number of rows		4
Terminal type		Plug-in terminals
PE and N terminal number and cross section		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> )
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		Door Single
Module rack type		Rail frame
Protective shrouding material		Plastic
<b>Temperature-rise verification as per IEC 60890</b>		
Heat diss. ambient 35°C delta T:20°C flush mount individ. encl. top(IEC 60890)		24 W
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Ambient operating temperature details		-5 °C - 40 °C

Design verification as per IEC/EN 61439		
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		650 °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		U <sub>i</sub> = 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		
Features		EMC-version
Fitted with:		Wall trough Device support rails Neutral and protective conductor terminals with KSK plug-in terminal technology Front cover Nail lugs Door/Frame Imprintable sheet 3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm Cable retainer Installation instructions Spirit level for leveling
Functions		Extension possible Basic device
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		KLV energy Basic device 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		Flush-mounted
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