

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

<b>Design verification as per IEC/EN 61439</b>			
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			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.
<b>Additional information</b>			
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