

Hollow wall compact distribution board; 1-rows; flush sheet steel door

Part no. **KLV-12HWS-F**
 Catalog No. **178822**



Powering Business Worldwide™

Delivery program

Basic function		Basic device
Product function		Installation distribution boards
Product range		KLV energy
Design		Hollow wall
Installation site		Indoor
Type of installation		Hollow-wall mounting
Door/Flap		White
Degree of Protection		IP30
Colour		White
Module rack		Single-rail
Shroud for protection against accidental contact		Plastic
Rows	Count	1
Module units per row		12
Description		IP30 Protection Class II Plastic enclosure with sheet steel door, white (RAL 9016)
Cable entries		Cable entries on top and bottom, side, back plate
PE and N terminals design		Screw terminals
PE and N terminals	Number x cross- sectional area	mm ² PE: 13 x (0.75 - 16) N: 13 x (0.75 - 16)
Equipment supplied		Wall trough Door/Frame Device support rails Front cover Neutral and protective conductor terminals with SK screw terminal technology Spirit level for leveling 3D adjustment element for mounting designed to adjust the mounting depth by up to 18 mm Cable retainer Hollow-wall anchor Installation instructions Imprintable sheet

Technical data

General			
Standards			IEC/EN 62208, IEC/EN 60670-24 (PD)
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)			conform
Ambient temperature	°C		-5 - +40
Degree of Protection			IP30
Protection class			II (totally insulated)
Rated operational voltage	Ue	V AC	400
Rated frequency	f	Hz	50

Material characteristics

Material		Polystyren (plastic) Sheet steel, powder-coated
Colour		white (RAL 9016)

Material properties

Mechanical		
Impact resistance		IK05

Design verification as per IEC/EN 61439

Technical data for design verification

Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890	P _v	W	13
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure, flush mounting	P _v	W	21
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties			
10.9.2 Power-frequency electric strength			U _i = 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.

Technical data ETIM 8.0

Distribution boards (EG000023) / Small distribution board (EC000214)		
Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl:ss10.0.1-27-14-24-09 [ACN387011])		
Mounting method		Hollow wall
Number of rows		1
Width in number of modular spacings		12
Type of cover		Door
Cover model		With notch
Transparent cover/door		No
Material housing		Plastic
Height	mm	340
Width	mm	360
Depth	mm	100
Built-in depth	mm	88
Built-in height	mm	0
Built-in width	mm	0
Internal depth	mm	75
Earthing terminal block		No
Neutral terminal block		No
DIN-rail		Yes
With mounting plate		No
Extension possible		Yes
EMC-version		Yes

Colour		White
RAL-number		9016
Degree of protection (IP)		IP30
With lock		No
Type of closure		Other
Signal passing door		No