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Ensure that these instructions are made available to the end user for future reference.

© Product installation and operation guide



METAL HEAT PUMP UNIT WITH TYPE F RCD

METAL HEAT PUMP UNIT WITH TYPE F RCD

Description

- Part No. : LHP840MSF
- Operating Voltage: 230VAC.
- Protection Degree: Ip40.
- Maximum Load(A): As indicated on incoming device.
- Material: Manufactured from robust steel.
- Fully enclosed metal construction body with drop down metal lid.
- Multiple circular cable entry knock-outs (25&32mm) on the top and bottom,32mm on the sides,and back plus larger rear slots.
- Raised key holes for secure easy installation.
- Raised din rail improves cable routing.
- Modern style finished in white polyester powder coating to RAL9010.
- Large and accessible wiring space,with extra space for RCBOs/RCD/MCB.
- Flexible connection allows for various configurations of protected ways.

Technical Data

SPD Specification

Part Number	SP140 1P+N
In -Nominal Discharge Current For Class II	20 kA
Imax - Maximum Discharge Current	40 kA
Iscrr- Short Circuit Current Rating	25 kA
Uc-Max Continuous Operating Voltage	275 VAC
Up- Voltage Protection Level (L-N),(N-PE)	1.5 kV
Type Test Class	Type 2
Degree Of Protection	IP20
Cable Terminal Max Capacity	L:16mm ² N:10mm ² PE:10mm ²
Earthing Installations Type	TT-TN
Terminal Torque	L&N (top) 1.2Nm / L (Bottom) : 2.5Nm
Standard	IEC EN61643-11
Fuse Type gG	125A Max

MCB Specification

Part No.	CA240C
Rated current In (A)	40
Poles	2P
Rated voltage Ue(AC)	230V
Rated frequency	50/60Hz
Insulation voltage Ui	500V
Rated breaking capacity(A)	6kA
Rated impulse withstand voltage(1.2/50) Uimp (V)	4000
Dielectric test voltage at ind. Frq for 1 min (KV)	2
Ambient Temperature With Daily Average ≤35 °C	-5~+40 °C
Thermo-magnetic release characteristic	C
Electrical life	8,000
Contact position degree	IP20
Storage temperature(°C)	-25~+70
Reference temperature for setting of thermal element (°C)	30
Cable terminal capacity maximum	16mm ²
Terminal torque	2.0Nm
Standard	BS EN 60898

TypeF RCD Specification

Pole No.	RDF240-030
Rated current(A)	40
Rated voltage	240V AC
Rated frequency	50/60Hz
Rated residual operating current I Δ (mA)	30
Rated residual non operating current	0.5I Δ n
Rated conditional breaking current Inc	6000A
Residual tripping current range.	0.5I Δ n~I Δ n
Electro-mechanical endurance	4000 cycles
Connection capacity Rigid conductor up to 25mm ²	
Tripping duration Instantaneous tripping≤0.1s	
Connection terminal Screw terminal	
Pillar terminal with clamp	
Fastening torque 2.5 Nm	

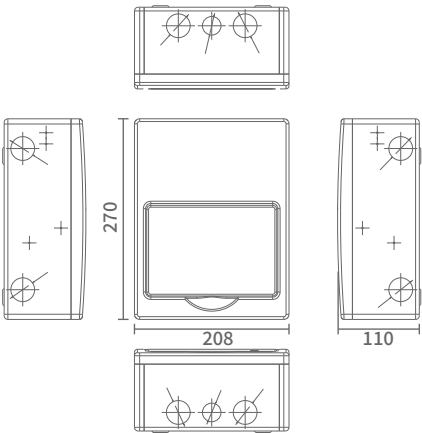
Main Switch Specification

Part No.	MS2100D
Rated Current	100A
Rated Voltage	230V
Terminal Capacity	50mm ²
Terminal Torque	2.5Nm

Wiring Diagram



Dimension (mm)



Installation

Enclosure Mounting

- Remove lid by turning lid fixing screws until they are free from the base.
- Remove appropriate cable entry holes. If using compression glands, fit them in the appropriate knockout prior to fixing unit to the wall.
- Mount the unit using appropriate screws and fixings.
- Bring all cables in through appropriate cutouts and route to their final location.

Connection Of Main Incoming Device

- Cut and dress the main incoming cables and connect them into the appropriate terminals.
- Tighten the main incoming terminals securely.

1.Installer Qualification

Must be installed by a qualified electrical professional.

2.Compliance With Regulations

Strictly follow the current IET wiring regulations (BS 7671) and local building codes.

3.Screw Tightening

Ensure all screws are fully tightened before installation, referring to the torque settings table.

4.Safe Power Disconnection

Always disconnect the power supply to the consumer unit before starting installation work.

5.Design Compatibility

This enclosure has been design to meet BS7671 wiring requirements for Heat Pump installation.

Torque settings:

Before powering up the installation check all connections are TORQUED (see table). Loose connections cause fires!

Environment

Waste electrical products should not be disposed of in household waste contact your retailer or local authority for recycling information.

