



CIRCUIT PROTECTION

Technical Data

Bidirectional RCD 2 Module Double Pole 6kA Type B-HP

Brief Product Description

Double pole bidirectional RCD type B+HP device, to provide protection specifically for heat pump installations.

Engineered to handle AC, DC, pulsed DC and high frequency currents associated with inverted driven BLDC motors. This device incorporates inbuilt surge to handle initial inverter startups, preventing nuisance tripping.

The 2 module design will fit in any BG consumer unit or enclosure via a standard DIN rail fit.

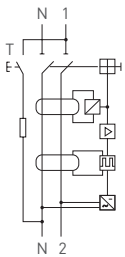
Features

- Bidirectional
- Double pole isolation
- BS7671 amendment 4 compliant device
- -25°C - +40°C operating temperature range
- 2 Module
- Type B+HP
- Available in 63A & 100A
- Incorporated inbuilt surge
- Detection capability: 20 kHz for high-frequency currents
- Minimum trip threshold: 150mA for high-frequency current >1 kHz

Technical Specifications (63A & 100A)

Bidirectional	Yes
Neutral Position	Right
Number of Poles	2
Type of Pole	1P+N
Fixing Mode	DIN Rail Type 35mm
Rated Operational Voltage Ue	230/240V
Operating Temperature Range	-25°C - +40°C
Supply Frequency	50 Hz
Type of Supply Voltage	AC
Rated Insulation Voltage	500V
Max Operating Voltage	264V
Rated Impulse Withstand Voltage	4kV
Rated Residual Operating Current	30mA
RCD Type (B-Type)	Type B+HP
Total Power Loss Under IN	12.48W
Electric Endurance in Number of Cycles	4,000
Number of Mechanical Operations	10,000
Screw Terminal	YES Pozidrive 2
Terminal Torque Settings	2.5Nm
Max Cables	35mm
Standards	IEC / EN 61008-1
	IEC / EN 61008-2-1
	BS EN 62423

Wiring Diagram



CUR6330BHP & CUR10030BHP



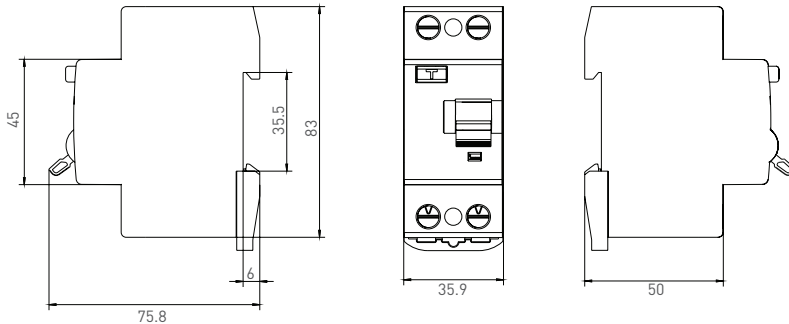
Consumer Unit Part Codes

Cat No.	Rating
CUR6330BHP	63A
CUR10030BHP	100A

Product Images



Dimensional Line Drawing



Dimensions of product

Height: 83 mm

Width: 35.9 mm

Depth: 75.8 mm

Maintenance

The RCD should be tested on a regular basis by pressing the test button (T) in accordance with the latest edition of the IET Wiring regulations BS7671.

Make sure all terminations are tightened to the correct torque level supplied in this document.

What to do if an MCB/RCD trips

Reset tripped MCB/RCD to the ON position. If device trips again, disconnect all appliances connected to this circuit. Switch RCBO ON and safely connect appliances one at a time to identify which one trips the device. In all cases, once the faulty appliance has been identified, do not continue to use the item until it has been checked.

Table 41.5 – Maximum Earth Loop Impedance Values – BS7671 IET Wiring Regulations

Maximum earth loop impedance (Z_s) for non delayed and time delayed 'S' type RCD to BSEN61008-01 and BSEN61009-1 for U_o of 230V (see regulation 411.5.3).

Rated residual operating current (mA)	Maximum earth fault loop impedance Z_s (ohms)
30	1667*
100	500*
300	167*
500	100

Disconnection shall be within the times stated in table 41.1. in BS7671 IET Wiring Regulations.

NOTE1: Figures for Z_s result from the application of regulation 411.5.3 (i) and (ii).

NOTE2: * the resistance of the installation earth electrode should be as low as practicable. A value exceeding 200 ohms may not be stable. Refer to Regulation 542.2.4.

BG Devices are temperature tested to -25°C to + 40°C