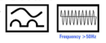
BIDIRECTIONAL RTF SINGLE MODULE RCBO TYPE F 6kA
1P+ N SWITCHED Instruction Leaflet DOC:BDRCBO2026

DOC:RCBO_TYPEF_BD_BCURVE_6kA_23.04.2026_V1

RCBO

6kA

1a Technical information

Rating (A)	6, 10, 16, 20, 25, 32, 40, 45, 50
Tripping curve	B
Number of Poles	1P+N Switched
Residual Operating Current(IΔn)	30mA
Type	F  Used to detect AC,pulsating DC up to 6mA >50Hz
Voltage(V)	230V
Frequency	50/60Hz
High frequency （up to 1KHz）	150Hz 0.5-2.4 I△n 400Hz 0.5-6 I△n 1000Hz 1-14 I△n
Rated short circuit capacity	6kA
IP RATING	IP20 EN 60529
Torque	2.SNm / 1.2Nm
Maximum cable capacity	16mm²
Neutral cable length	6kA: 450mm
Complies with	IEC EN 61009-1

CAUTION:
DISCONNECT LAND N BEFORE CARRYING OUT INSULATION RESISTANCE TEST.
BLUE CABLE CAN BE CUT TO SUIT BUT MUST BE CRIMPED.

RoHS Compliant

1b RCBOs must be installed by a qualified electrician in accordance with the current IET Wiring Regulations BS 7671.
1c Total load must not exceed the rating of the RCBO or any additional limitation.

2 Installation
2a RCBO range designed to fit FuseBox consumer units, TPN distribution boards and modular enclosures.
2b 35mm top hat din rail mounting.
2c Clip securely on to the din rail making sure the din rail clip at the bottom is pushed in, locking the RCBO onto the din rail, ensure lever is in the OFF position.
2d Cut, dress and connect cables as shown in the **wiring diagram.**
Lin (Line) terminal connect to the bus bar.
Neutral flying lead to the neutral terminal bar (can be cut to size to suit application).
Connect the load to the L OUT and N OUT terminals at the top of the RCBO and the Load earth to the terminal bar.

3 Connections
3a **Before powering up the circuit check all connections are TORQUED. Loose connections cause fires!!!!**

4 Testing
4a **WARNING: ALL connections to the RCBO must be removed prior to conducting insulation resistance tests.**
4b On completion of the installation, it must be tested in accordance with the latest edition of the IET Wiring Regulations for Electrical Installations (BS 7671).

5 Operation of the TEST button on RCBO
When newly fitted systems do not trip on the TEST button or using the RCD tester the problem is normally caused by an earth to neutral fault on the circuit (PME supply).
Installers can easily check the RCBO by removing the LOAD connections on the RCBO and applying power. If the TEST button works the fault is in the circuit.

After installation and testing of this product it is essential that the INSTRUCTION LEAFLET is available for reference

BIDIRECTIONAL RTF SINGLE MODULE RCBO TYPE F 6kA
1P+N SWITCHED Instruction Leaflet DOC:BDRCBO2026

6 RCBO TEST
RCBOs ARE MANUFACTURED IN ACCORDANCE WITH **IEC/EN 61009-1** AND MUST BE TESTED TO THIS SPECIFICATION USING A CALIBRATED TEST METER.
General type

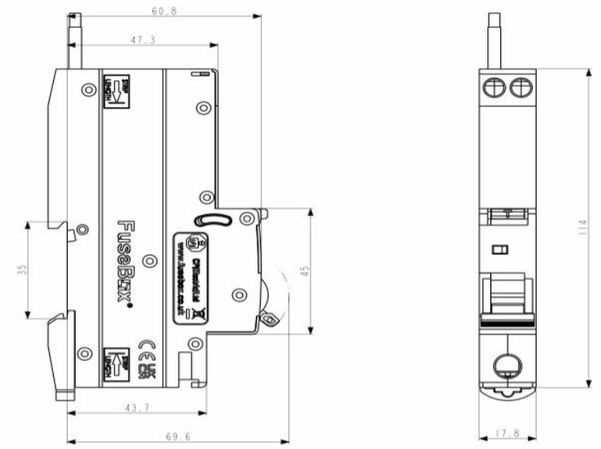
0.5IΔn	**RCBO will not trip**
1IΔn	**RCBO must trip within 300ms**
5IΔn	**RCBO must trip within 40ms**

What to do if a RCBO trips
1 Reset tripped RCBO to **ON** position
2 If RCBO trips again then disconnect all appliances connected to this circuit.
3 Switch RCBO to **ON** position and connect 1 appliance at a time to see which one trips the RCBO.
4 Once the faulty appliance has been identified, DO NOT USE appliance until it has been checked.
5 Switch RCBO to **ON** position.
6 **If fault does not clear phone a qualified electrician to check installation**

7a Part numbers

6kA		
Current (A)	**B Curve**	**GTIN**
6A	RTF06B06BD	5060523529124
10A	RTF06B10BD	5060523529131
16A	RTF06B16BD	5060523529148
20A	RTF06B20BD	5060523529155
25A	RTF06B25BD	5060523529162
32A	RTF06B32BD	5060523529179
40A	RTF06B40BD	5060523529186
45A	RTF06B45BD	5060523529193
50A	RTF06B50BD	5060523529209

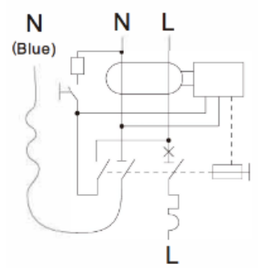
7b Dimensions



7c Flying Neutral CSA

NEUTRAL CABLE CSA	
6, 10, 16, 20, 25	2.5 mm²
32, 40, 50	4.0 mm²

7d Connections



8 Environment
WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF IN HOUSEHOLD WASTE. CONTACT YOUR RETAILER OR LOCAL AUTHORITY FOR RECYCLING INFORMATION

FuseBox
www.fusebox.co.uk

After installation and testing of this product it is essential that the INSTRUCTION LEAFLET is available for reference