



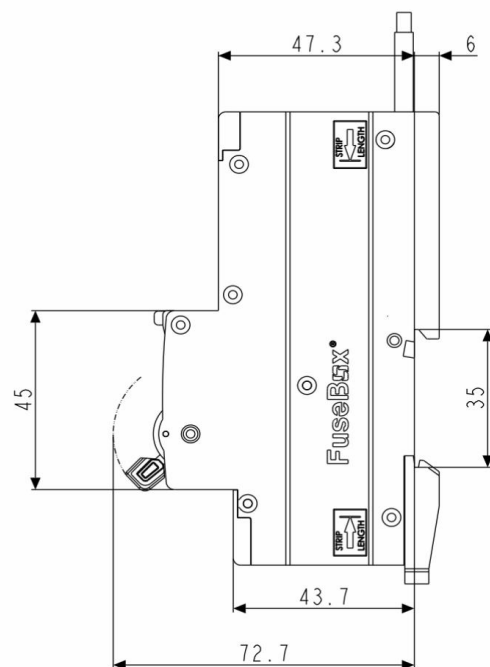
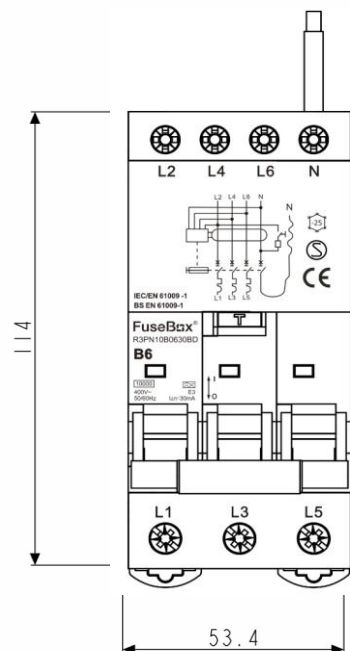
	3P + N 10kA RCBO 								
RATING (A)	6	10	16	20	25	32	40	45	50
PART NUMBER B curve	R3PN10B0630BD	R3PN10B1030BD	R3PN10B1630BD	R3PN10B2030BD	R3PN10B2530BD	R3PN10B3230BD	R3PN10B4030BD	R3PN10B4530BD	R3PN10B5030BD
GTIN-13	5060523527083	5060523527090	5060523527106	5060523527274	5060523527113	5060523527120	5060523527137	5060523527144	5060523527151
PART NUMBER C curve	R3PN10C0630BD	R3PN10C1030BD	R3PN10C1630BD	R3PN10C2030BD	R3PN10C2530BD	R3PN10C3230BD	R3PN10C4030BD	R3PN10C4530BD	R3PN10C5030BD
GTIN-13	5060523527168	5060523527175	5060523527182	5060523527199	5060523527205	5060523527212	5060523527229	5060523527236	5060523527243
STANDARD	IEC/EN 61009-1								
NUMBER OF POLES	3P + N (switched)								
RATED VOLTAGE (Un/AC)	400V								
FREQUENCY (Hz)	50/60								
RATED BREAKING CAPACITY (Icn)	10,000								
RATED CURRENT (In)	6, 10, 16, 20, 25, 32, 40, 45, 50								
TRIPPING CHARACTERISTICS	B CURVE : 3-5In C CURVE : 5-10In								
NEUTRAL FLYLEAD CABLE LENGTH	750mm								
MECHANICAL ENDURANCE	10,000								
PROTECTION DEGREE (IP)	20								
TRIPPING TYPE	Thermal magnetic								
BI DIRECTIONAL	YES								
RESIDUAL CURRENT CHARACTERISTICS	TYPE A (AC AND PULSATING DC UP TO 6mA)								
RATED RESIDUAL OPERATING CURRENT (IΔn)	0.03								
MECHANICAL ENDURANCE	10000								
MAXIMUM TERMINAL CAPACITY	1-25mm² L IN / 16mm² OUT N L								
RECOMMENDED TIGHTENING TORQUE (Nm)	2.5Nm L IN / 2Nm OUT N L								
MOUNTING	35mm din rail								
MATERIAL	PA6 (Nylon 6)								
WEIGHT (1PC) Kg	0.47								
INNER CARTON QUANTITY	12								
OUTER CARTON QUANTITY	120								
<p>3P+N RCBO series (R3PN10****BD)</p> <p>Bi directional 3P+N RCBO with switched LINE and NEUTRAL. Can be Used for the protection against overload, short circuit and earth leakage in solar or EV applications or where current flows in both directions.</p> <p>Type A for AC and pulsating DC sensitivity with a short circuit capacity of 10kA and a maximum rating of 50A.</p> <p>Compact in size increasing working space within a FuseBox consumer unit making installation, connection and testing easier and quicker.</p> <p>Flying Neutral cable can be cut to suit but should be terminated.</p>									





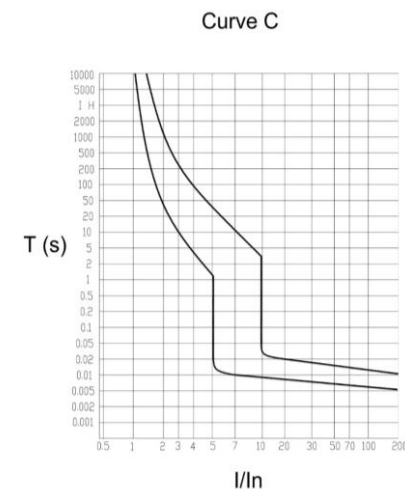
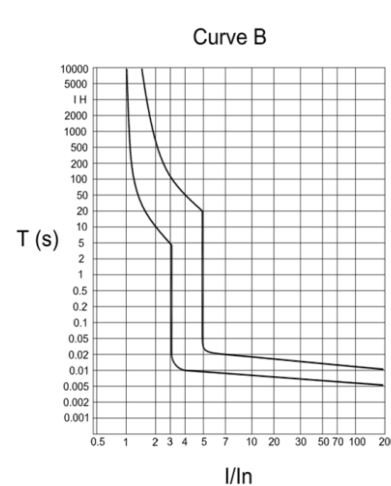
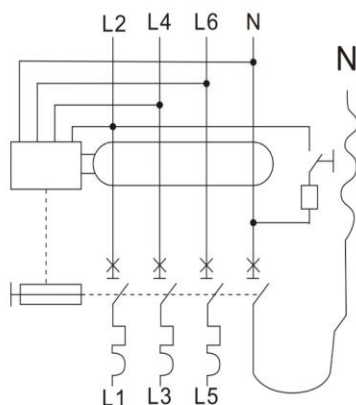
DIMENSIONS

3P+N (SW)



NEUTRAL CABLE CSA

6A	2.5 mm ²
10A	2.5 mm ²
16A	2.5 mm ²
20, 25A	2.5 mm ²
32A	4.0 mm ²
40, 45, 50A	4.0 mm ²



PART NUMBER	DESCRIPTION	BARCODE
R3PN10B0630BD	06A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527083
R3PN10B1030BD	10A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527090
R3PN10B1630BD	16A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527106
R3PN10B2030BD	20A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527274
R3PN10B2530BD	25A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527113
R3PN10B3230BD	32A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527120
R3PN10B4030BD	40A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527137
R3PN10B4530BD	45A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527144
R3PN10B5030BD	50A 30mA 10kA B curve TYPE A 3P+N SW BD	5060523527151
R3PN10C0630BD	06A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527168
R3PN10C1030BD	10A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527175
R3PN10C1630BD	16A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527182
R3PN10C2030BD	20A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527199
R3PN10C2530BD	25A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527205
R3PN10C3230BD	32A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527212
R3PN10C4030BD	40A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527229
R3PN10C4530BD	45A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527236
R3PN10C5030BD	50A 30mA 10kA C curve TYPE A 3P+N SW BD	5060523527243

Installation

1 Installation instructions

- 1a RCBO must be installed by a qualified electrician in accordance with the current version of IET wiring regulations.
- 1b Total load must not exceed the rating of the RCBO or any additional limitation.
- 1c RCBO range designed to fit FuseBox TPN distribution boards and modular enclosures.
- 1d 35mm top hat din rail mounting.
- 1e 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.
- 1f Cut, dress and connect cables as shown in the **wiring diagram**.

2 Connections

- 2a **Before powering up the circuit check all connections are TORQUED. Loose connections cause fires!!!!**

3 Testing

- 3a **Line and Neutral conductors DO NOT NEED TO BE disconnected for IR test (insulation resistance) if the RCBO BD is in the OFF position.**
- 3b On completion of the installation, the installation must be tested by a qualified electrician in accordance with the current version of IET wiring regulations.

RCBO TEST

RCBOs ARE MANUFACTURED IN ACCORDANCE WITH IEC/EN BS EN61009-1 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**

**Environment**

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