

For advanced protection against  
Residual Current High-performance  
Circuit Breaker.



## RCCB (Residual Current Operated Circuit Breaker)

### Construction & Features

1. Elegant Appearance
2. Suitable for Man / Machine / Building protection
3. Equipped with finger protected connection terminals
4. Provides automatic protection against earth fault / leakage current which enables a quick solution to the faulty line
5. Visual On/Off indication
6. Test Button 'T' is provided for periodic check up
7. Truly current operated, operates even at very low voltage
8. No nuisance tripping
9. Trips within 300 milliseconds in the event of fault
10. High short circuit current withstand capacity
11. Bi-connect terminals for busbar as well as cable connection
12. Long life operating mechanism
13. IP20 protection, No.4

#### • Item Codification

Type	No. of Poles	Current Capacity	Sensitivity	No. of Elements	Country
BBD	R	25	3	0	H
R: RCCB	2: DP 4: FP	25 : 25A 32 : 32A 40 : 40A 63 : 63A	3: 30 mA 4: 100 mA 5: 300 mA	0: 0E	H: India

#### • Sensitivity Applications Selection Criterion of RCCB

Sensitivity	Application
30mA	Human protection / Domestic Installation
100mA	Limited human protection / Machine protection
300mA	Building / Fire

Even relatively insensitive RCCB's ( $I_n = 300\text{mA}$ ) can be used to provide effective protection against fire caused by earth leakage faults. With residual currents = 300mA, the electrical energy released at the location of the earth fault is not sufficient to ignite normal building materials. With larger residual currents, the RCCB switches off the circuit in less than 200 milliseconds, thus limiting the amount of energy released to a harmless level.

## RCCB Technical Information

### • Standard Conformity

IS 12640-1 (which is compatible with IEC 61008-1:2010)  
DIN 43-880

### • Technical Data

No. of Poles (Execution)	DP, FP
Rated Current (In)	25A, 32A, 40A, 63A
Rated Voltage (Ue)	DP: AC 240V, FP: AC 240/415V
Sensitivity	30mA, 100mA, 300mA
Short Circuit Current Withstand Capacity	DP: 10000A, FP: 6000A
Short Circuit Breaking Performance	
Rated Conditional Short-Circuit (I <sub>nc</sub> )	DP: 10000A FP: 6000A
Rated Conditional Residual Short-Circuit Current (I <sub>Δc</sub> )	
Rated Making And Breaking Capacity (I <sub>m</sub> )	DP: 630A FP: 630A
Rated Residual Making And Breaking Capacity (I <sub>Δm</sub> )	
Mode	Electro-Magnetic Type
Rated Impulse Voltage	4kV
Vibration Resistances	5G
Dielectric Strength	2000V for 1min
Protection Class	IP20
Mounting	On DIN Rail 35mm×7.5mm
Connections	1.5 sq.mm to 25 sq.mm

### • Mechanical & Electrical Endurance

Rated Current	Test Voltage	Test Current	Number of operating Cycles
25A	DP: AC 240V FP: AC 240/415V	In (In: Rated Current)	With In 2000 Without In 20000
32A, 40A, 63A	DP: AC 240V FP: AC 240/415V	In (In: Rated Current)	With In 2000 Without In 10000

### Dimensions: DP RCCB 90×35×50 (H×W×D) (In mm) / FP RCCB 90×70×50 (H×W×D) (In mm)

