Compact and high breaking capacity.
Highly-evolved Miniature
Circuit Breaker.

MCB (10kA)

Construction & Features

1. State of the art design
   - Elegant appearance
   - Cover and handle in arc shape for comfortable operation
   - Contact position indicating window (Clear On/Off Indicator)
2. Three level indications for On/Off & TRIP (Under Fault)
3. Rated short circuit capacity: 10000A (10kA)
4. Trip free mechanism
5. High speed and high breaking capacity mechanism
6. Terminal block with safety shutter. It prevents wrong wiring & burning of terminals.
7. High speed wiping contact structure
8. Bi-connect terminals at both sides give choice of using either a busbar or cable to make connection.
9. Compliant with RoHS directive defined by the European Standards.
10. Energy efficient MCB. Lower power loss values than IEC standard requirements.

- **Item Codification**

	No. of Poles	Rated Current	No. of Elements	Instantaneous Trippring	Icn	Country
BBD	1	06	1	B	H	H
	1: SP 2: SP+N/DP 3: TP 4: TP+N/FP	06: 6A 10: 10A 16: 16A 20: 20A 25: 25A 32: 32A 40: 40A 50: 50A 63: 63A	1: 1E 2: 2E 3: 3E 4: 4E	B: B Type C: C Type D: D Type	H: 10kA	H: India

MCB Technical Information

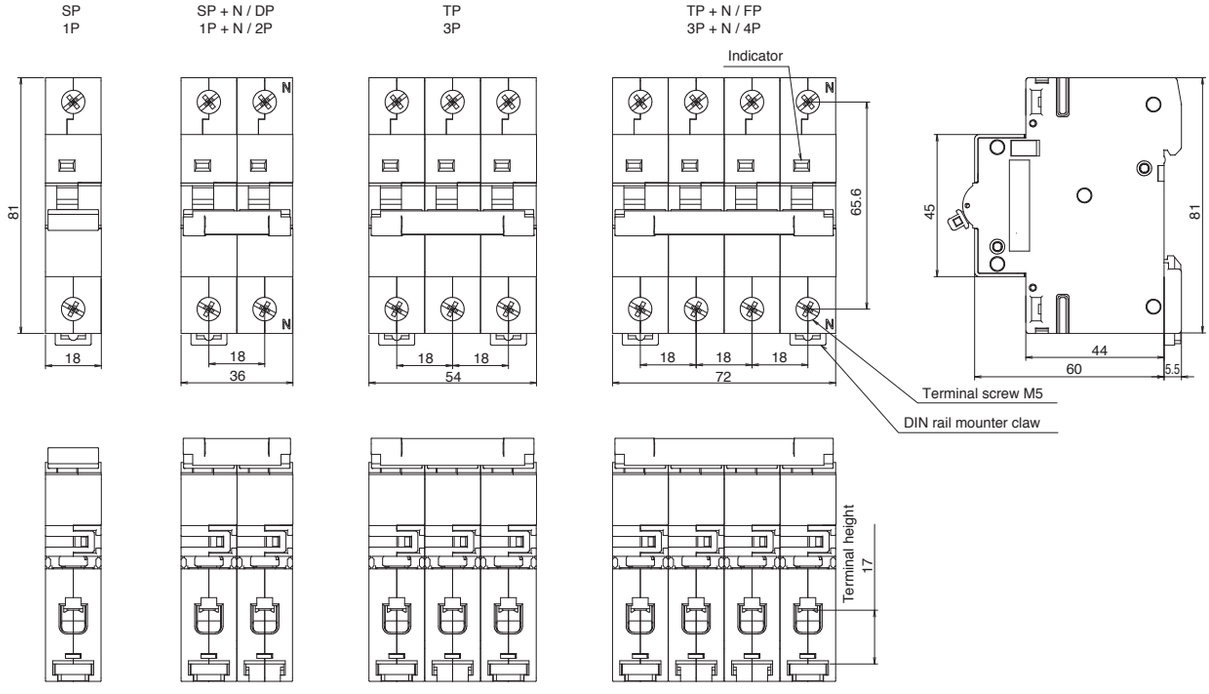
- **Standard Conformity**

IEC 60898-1:2008
DIN43-880

- **Technical Data**

Type	B	C	D
Magnetic Release Setting	(3-5) In	(5-10) In	(10-20) In
No. of Poles (Execution)	SP, SP+N, DP TP, TP+N, FP	SP, SP+N, DP TP, TP+N, FP	SP, SP+N, DP TP, TP+N, FP
Rated Current (In)	6A to 63A		
Rated Voltage (Ue)	SP:AC240/415V, SP+N:AC240V DP, TP, TP+N, FP:AC415V		
Rated Short Circuit Breaking Capacity	10000A		
Service Short Circuit Breaking Capacity	7500A		
Energy Limitation	Class 3		
Tripping Mechanism	Thermal & Magnetic Type		
Normal Ambient Temperature	30°C		
Power Loss	Much less than Standard Values		
Rated Impulse Voltage	4kV		
Dielectric Strength	2000V for 1 Minute		
Protection Class	IP20		
Mounting	On DIN Rail (35mm×7.5mm)		
Connections	1sq.mm to 25sq.mm For Cu conductors		

Dimensions: For Single Pole MCB - 81×18×65.5 (H×W×D) (In mm)

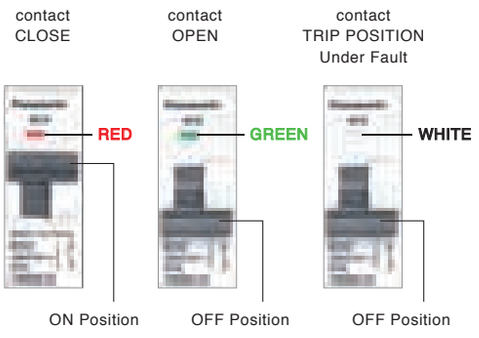


Panasonic MCB has been developed with high manufacturing technology to provide safety, comfort and energy saving.

1 Three Level Indicator

Safety

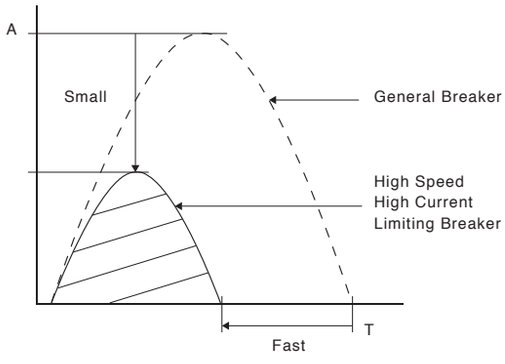
Panasonic MCB is having Three level indications allowing clear identification of the On/Off and TRIP position. The Trip position helps user to identify the fault circuit.



2 High Speed Mechanism

Safety

This is the mechanism of a Circuit Breaker that, compared to a General Circuit Breaker, cuts off the current several times faster (High Speed) while suppressing the large current (current limiting) in respect to a large current (short circuit current) when a short circuit accident occurs.



3 Safety & Energy Efficient

Minimum let through energy in case of fault; ensuring safety and longevity of downstream circuit/installation.

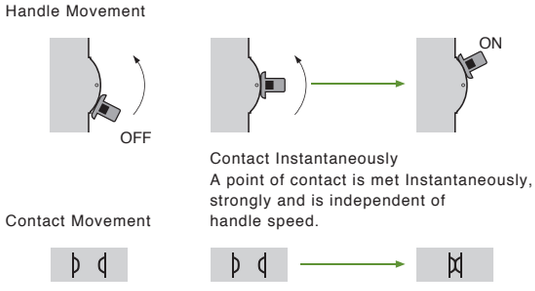
Rated Short-circuit capacity (A)	Energy limiting Classes					
	1 I^2t max (A^2s)		2 I^2t max (A^2s)		3 I^2t max (A^2s)	
	B-Type & C-Type		B-Type	C-Type	B-Type	C-Type
10000	limit specified		310000	370000	90000	110000

Best performance of Energy Limiting Class (EN60898:1991 A11(Sept.1994) Indicate class 3

4 Independent Manual Operation

Safety

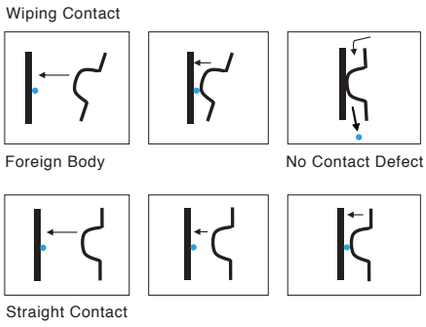
The handle and the contact move independently in order to create a firm and instantaneous contact when connecting together.



5 Wiping Contact Structure

Safety

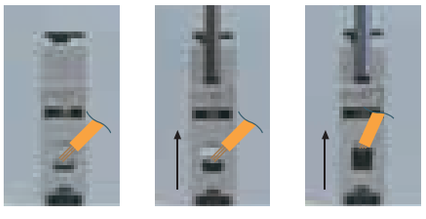
Advanced wiping contact design ensures proper current flow and prevents against foreign body residual blockage causing potential contact defect.



6 Safety Shutter

Safety Construction Effective

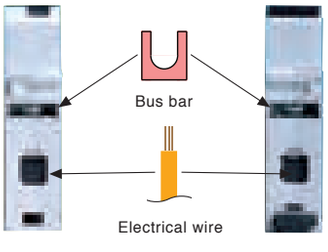
Fully insulated safety shutters provide safety in connection. During wiring, they guide the cable towards the terminal clamp and the shutter gives total protection.



7 Double Terminal on Both Sides

Construction Effective

Customers have the choice of using either a bus bar or cable to make connections on both sides thus providing the ultimate flexibility.



8 Low Power Loss

Energy Efficient

- **Power Loss in Watt per Pole at Rated Current**

Rated Current In (A)	6	10	16	20	25	32	40	50	63
As per IEC Standard (W)	3	3	3.5	4.5	4.5	6	7.5	9	13
Panasonic Series (W)	1.2	2.1	2	1.9	2.1	2.5	3.3	4.4	5