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	lcn	Country
	BBD	1	06	1	В	Н	Н
			ļ		•	Ļ	
		1: SP 2: SP+N/DP 3: TP 4: TP+N/FP	06: 6A 10: 10A 16: 16A 20: 20A 25: 25A 32: 32A	1: 1E 2: 2E 3: 3E 4: 4E	B: B Type C: C Type D: D Type	H: 10kA	H: India
			40: 40A 50: 50A 63: 63A				

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MCB Technical Information

• Standard Conformity

IEC 60898-1:2008 DIN43-880

• Technical Data

Туре	В	С	D				
Magnetic Release Setting	(3-5) In	(5-10) In	(10-20) In				
No. of Poles (Execution)	SP, SP+N, DP	SP, SP+N, DP	SP, SP+N, DP				
	TP, TP+N, FP	TP, TP+N, FP	TP, TP+N, FP				
Rated Current (In)		6A to 63A					
Rated Voltage (Ue)	SP:AC240/415V, SP+N:AC240V						
Kaled Vollage (De)	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)

SP 1P

SP + N / DP 1P + N / 2P

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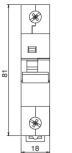
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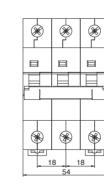
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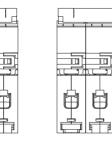


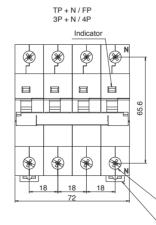
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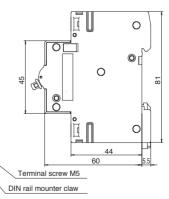
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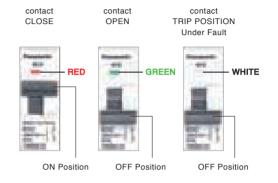
MCB (10kA)

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

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.



High Speed Mechanism

Safety

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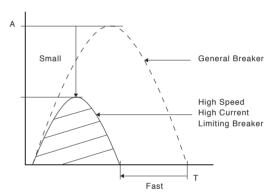
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This is the mechanism of a Circuit Breaker that. compared to a General Circuit Breaker, cuts off the current several times faster (High Speed) while suppressing the large current (current limiting) in respect to a large current (short circuit current)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



Safety & Energy Efficient

Independent Manual Operation

contact when connecting together.

The handle and the contact move independently

in order to create a firm and instantaneous

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 ² t max(A ² s)	2 I ² t ma	ax(A ²s)	3I ² t max(A ² s)			
	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

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Safety

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S A F E T Y B R E A K E R EARTH LEAKAGE BREAKER



Handle Movement





Contact Instantaneously A point of contact is met Instantaneously, strongly and is independent of handle speed.

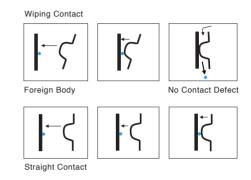


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Wiping Contact Structure Safety

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

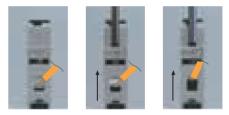




Safety Shutter

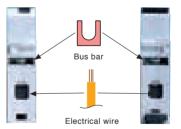
Safety Construction Effective

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



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.



Low Power Loss

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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

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