

UNO MINI - MCB

UNO Mini Miniature Circuit Breaker (MINI-MCB) is a brand new product range of the most compact circuit breakers available in the world, incorporating all the safety features of a traditional MCB. Powered by the Panasonic technology, it redefines the concept of protection.

This compact and reliable range of MINI MCBs is available with two unique mounting choices-modular and flush mounted and screw mounted. Ensuring operational safety of precious appliances is the foremost objective of UNO MINI-MCB range. It thus offers undeterred protection from overload and short-circuit, securing the precious appliances by increasing their operational longevity.

UNO MINI - MODULAR MCB

Mini-modular MCBs can be snapped fit on modular plates to incorporate the latest developments in the manufacturing technology as well as that of circuit protection for various applications.

The UNO Mini-modular MCB is designed to protect household appliances from electrical overload and short-circuit. It offers continuing protection and thus prolongs the life of gadgets. Aesthetically designed with a fire-retardant body, it fits snugly into the modular switch-plates, making installation user-friendly as well as economical by

avoiding the cost of a separate board.

Features

- Protects against over load and short-circuit
- High breaking capacity of 3000A
- Low watt loss and energy saving
- Can be snapped fit on modular plates and can be screw mounted
- Can be used for per point protection
- Ideal for being used in Single phase Distribution Circuit
- Available as Single pole or Double pole versions in ratings from 6A to 32A
- Compact and trendy Designs and latest Technology
- All live metal parts are covered with non-inflammable thermostat material
- Longer Electrical and Mechanical life
- Finger-proof terminals offering IP20 degree of protection

Applications

- Residential: AC, Refrigerators, Geyser, Washing Machine, Home Theater, Domestic Pump Set, Oven cum grill, Cooking Range, Single Phase Motor etc.
- Commercial: AC, Hot plate, Xerox machines
- Hospitality: AC's, Heaters, Heavy duty mixer-grinders, Coolers
- Health care: Low-watt X-ray machines, Laboratory equipments etc. in individual clinics



ROMA Classic

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UNO FLUSH (SCREW) MOUNTED MINI-MCB

The UNO flush mounted mini-mcb range with screw-mounting feature is designed for use in domestic & commercial distribution systems, at the most downstream circuit (switchboards/decorative electrical switch boards) and offers high degree of protection for various appliances.

This compact & reliable range of screw-mounting miniature circuit breakers from UNO aims at securing the appliances from electrical overload and short-circuits. Aesthetically designed and well engineered, these give an elegant look to your installations.

Features

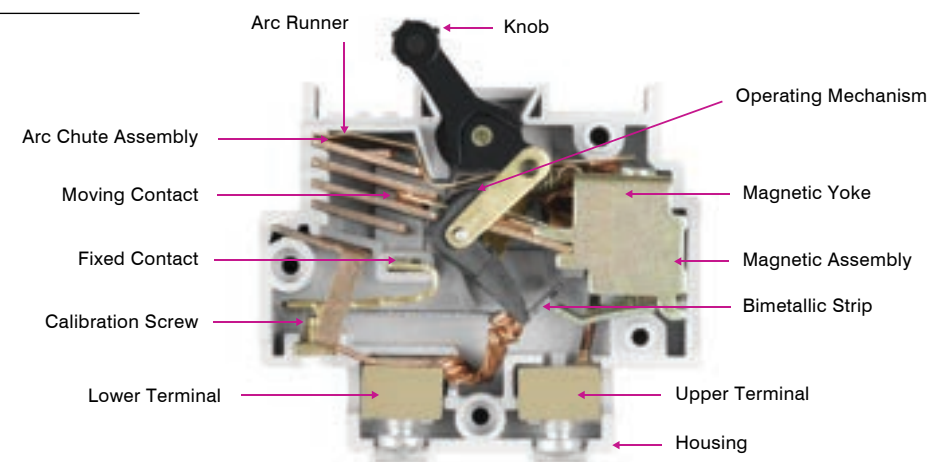
- Protects against over load and short-circuit
- Suitable for both DESB (Decorative Electrical Switch Board) and Switch board
- Can be used for per point protection
- High breaking capacity of 3000A
- Almost each and every point in your house, office can be protected without changing the look of the décor
- Available as Single pole or Double pole versions in ratings from 6A to 32A
- Low watt loss and Energy Saving
- Higher Reliability and offering continuity of service
- Compact in Size
- Longer Electrical and Mechanical life
- Finger-proof terminals offering IP20 degree of protection
- All live metal parts are covered with non-inflammable thermostat material
- Designed for Single Phase Distribution Circuit

Applications

- Residential: AC, Refrigerators, Geyser, Washing Machine, Home theater, Domestic Pump Set, Oven cum griller, Cooking Range
- Commercial: AC, Hot plate, Xerox machines
- Hospitality: AC's, Heaters, Heavy duty mixer-grinders, Coolers
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Internal mechanism of MINI-MCB

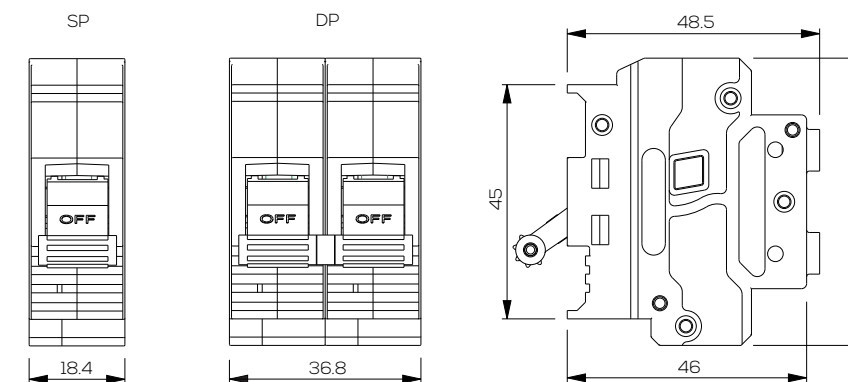
UNO Mini MCB Internal Structure



TECHNICAL SPECIFICATIONS

SR. NO.	FEATURES	UNO MINI MCB
1	Applicable standard	IS/IEC 60898-1:2002
2	Standard Rated Current (In)	6A to 32A
3	Tripping Characteristics	C curve
4	Poles	SP and DP
5	Rated short circuit breaking capacity (Icn)	3000A (3kA)
6	Rated Voltage (Un)	240V~ AC
7	Rated Frequency (f)	50 Hz
8	Ambient working temperature	-5 to 50°C
9	Rated Insulation Voltage (Ui)	660V
10	Rated Impulse Voltage (Uimp)	4kV
11	Dielectric Strength	2.5kV
12	Terminal Capacity	10 sq.mm (max.) copper
13	Relative Humidity	95%
14	Vibration	3 g
15	Endurance (Mechanical)	20000 operations
16	Endurance (Electrical)	20000 (In < 16A) 5000 (In > 16A)
17	Case and cover material	Molded, Flame retardant plastic
18	Switching mechanism	Manual & Trip-free mechanism
19	Tripping mechanism	Thermal-magnetic
20	Installation position	Vertical/horizontal
21	Wattage Loss	Much Lower than the values in IS Standard
22	Knob padlocking	Yes
23	Termination	Cable
24	Mounting	Snap fit/Screw mounted (on board)
25	Protection class	IP20
26	Suitable for protection	Per point protection
27	Design Registration certificate	Registered, Design Registration Number: 252904

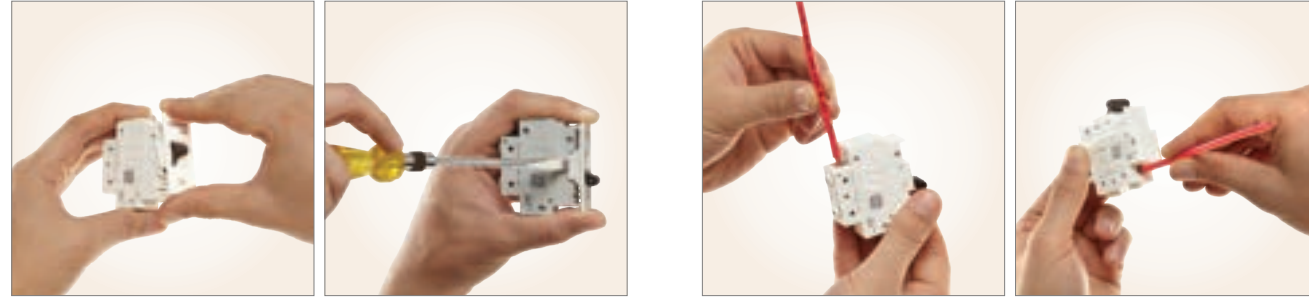
DIMENSIONS (in mm)



MINI - MCB INSTALLATION CONCEPT

FOUR STEP INSTALLATION PROCESS (MODULAR MINI-MCB)

- Separate the front plate of the MINI-MCB and detach it from the MINI-MCB unit with a screwdriver
- Connect and tighten the outgoing wire in the upper terminal and the incoming wire in the lower terminal



- Push fit the MINI-MCB from the hind side into the modular plate and press fit the front plate of the MINI-MCB on the modular plate
- The MINI-MCB is successfully installed and ready for use

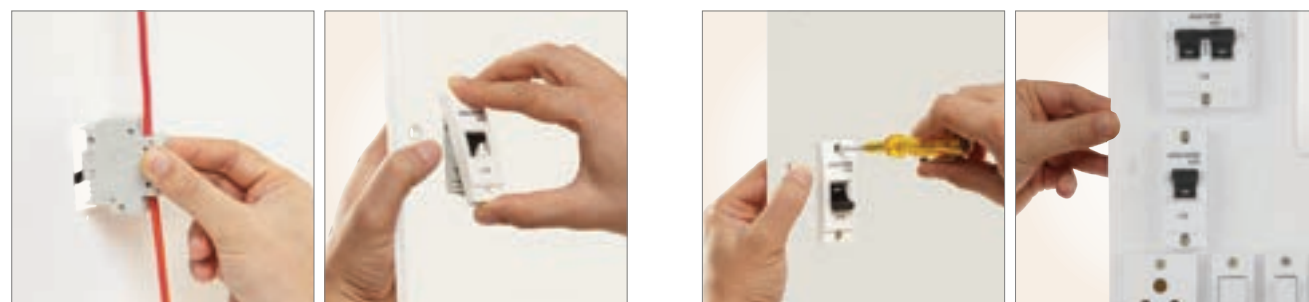


FOUR STEP INSTALLATION PROCESS (SCREW MOUNTED MINI-MCB)

- Detach the front plate from the MINI-MCB unit with a screwdriver and separate it from the MINI-MCB
- Connect and tighten the outgoing wire in the upper terminal and the incoming wire in the lower terminal



- Push fit the MINI-MCB from the hind side into the non-modular board and press fit the front plate of the MINI-MCB on the non-modular board
- Tighten the screws on the MINI-MCB to hold the unit in place and complete the MINI-MCB installation to make it ready for use



WHY REPLACE DP SWITCH WITH UNO MINI MCB

DP switches with red indicators are now outdated as they were mainly used as a Main Switch for switching power supply ON & OFF operation. They did not protect the circuit at all from Overload and Short-Circuit.

Electrical safety is a need of every premises. Hence MINI MCB is the perfect replacement for the Traditional DP switches as it is equipped with advanced safety feature of per point protection from over load & short-circuit. Thus ensures that your home is safe from electrical hazards.



5 reasons to use a UNO MINI-MCB

- It is an excellent alternative to a DP Switch as can be safely used as an incomer
- It can be an ideal fit to switch the appliances ON and OFF replacing the traditional rocker switches as it provides per point protection
- Its Smart-Trip feature offers added protection from short-circuit and overload
- Its unique design ensures a longer operational life as well as is energy-saving due to low watt losses
- It offers flexibility and installation convenience as it can be either snap-fitted into modular plates or screw-mounted on traditional mica boards

UNO MINI - MODULAR MCB (SCREW)

CODE	ITEM DESCRIPTION	CODE	ITEM DESCRIPTION
	UNO MINI SINGLE POLE MCB (SCREW)		UNO MINI DOUBLE POLE MCB (SCREW)
98236	UNO MINI 6A SP 'C' MCB	98246	UNO MINI 6A DP 'C' MCB
98237	UNO MINI 10A SP 'C' MCB	98247	UNO MINI 10A DP 'C' MCB
98238	UNO MINI 16A SP 'C' MCB	98248	UNO MINI 16A DP 'C' MCB
98239	UNO MINI 20A SP 'C' MCB	98249	UNO MINI 20A DP 'C' MCB
98240	UNO MINI 25A SP 'C' MCB	98250	UNO MINI 25A DP 'C' MCB
98241	UNO MINI 32A SP 'C' MCB	98251	UNO MINI 32A DP 'C' MCB

DISTRIBUTION BOARDS

ROMA Classic

CODE	ITEM DESCRIPTION	CODE	ITEM DESCRIPTION
	ROMA Classic MINI SINGLE POLE MCB (SCREW)		ROMA Classic MINI DOUBLE POLE MCB (SCREW)
98069	MINI MODULAR 6A SP 'C' MCB	98075	MINI MODULAR 6A DP 'C' MCB
98070	MINI MODULAR 10A SP 'C' MCB	98076	MINI MODULAR 10A DP 'C' MCB
98071	MINI MODULAR 16A SP 'C' MCB	98077	MINI MODULAR 16A DP 'C' MCB
98072	MINI MODULAR 20A SP 'C' MCB	98078	MINI MODULAR 20A DP 'C' MCB
98073	MINI MODULAR 25A SP 'C' MCB	98079	MINI MODULAR 25A DP 'C' MCB
98074	MINI MODULAR 32A SP 'C' MCB	98080	MINI MODULAR 32A DP 'C' MCB

ROMA

CODE	ITEM DESCRIPTION	CODE	ITEM DESCRIPTION
	UNO MINI SINGLE POLE MCB (SCREW)		UNO MINI DOUBLE POLE MCB (SCREW)
66151	ROMA 6A SP 'C' MINI MCB	66157	ROMA 6A DP 'C' MINI MCB
66152	ROMA 10A SP 'C' MINI MCB	66158	ROMA 10A DP 'C' MINI MCB
66153	ROMA 16A SP 'C' MINI MCB	66159	ROMA 16A DP 'C' MINI MCB
66154	ROMA 20A SP 'C' MINI MCB	66160	ROMA 20A DP 'C' MINI MCB
66155	ROMA 25A SP 'C' MINI MCB	66161	ROMA 25A DP 'C' MINI MCB
66156	ROMA 32A SP 'C' MINI MCB	66162	ROMA 32A DP 'C' MINI MCB

ROMA Plus

CODE	ITEM DESCRIPTION	CODE	ITEM DESCRIPTION
	ROMA Plus MINI MODULAR SINGLE POLE MCB		ROMA Plus MINI MODULAR DOUBLE POLE MCB
89980	MINI ROMA PLUS 6A SP 'C' MCB	89986	MINI ROMA PLUS 6A DP 'C' MCB
89981	MINI ROMA PLUS 10A SP 'C' MCB	89987	MINI ROMA PLUS 10A DP 'C' MCB
89982	MINI ROMA PLUS 16A SP 'C' MCB	89988	MINI ROMA PLUS 16A DP 'C' MCB
89983	MINI ROMA PLUS 20A SP 'C' MCB	89989	MINI ROMA PLUS 20A DP 'C' MCB
89984	MINI ROMA PLUS 25A SP 'C' MCB	89990	MINI ROMA PLUS 25A DP 'C' MCB
89985	MINI ROMA PLUS 32A SP 'C' MCB	89991	MINI ROMA PLUS 32A DP 'C' MCB

Penta Modular

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	Penta Modular MINI SINGLE POLE MCB (SCREW)		Penta Modular MINI DOUBLE POLE MCB (SCREW)
65980	MINI PENTA 6A SP 'C' MCB	65989	MINI PENTA 6A DP 'C' MCB
65981	MINI PENTA 10A SP 'C' MCB	65990	MINI PENTA 10A DP 'C' MCB
65982	MINI PENTA 16A SP 'C' MCB	65991	MINI PENTA 16A DP 'C' MCB
65983	MINI PENTA 20A SP 'C' MCB	65992	MINI PENTA 20A DP 'C' MCB
65984	MINI PENTA 25A SP 'C' MCB	65993	MINI PENTA 25A DP 'C' MCB
65985	MINI PENTA 32A SP 'C' MCB	65994	MINI PENTA 32A DP 'C' MCB



UNO DISTRIBUTION BOARDS

UNO Distribution boards has been designed to provide a new dimension of protection in Homes, Offices and Industries. It is equipped with stylish color, elegant curves and distinctive finish that blends with all kinds of interior décor.

UNO Distribution Boards thus offer dual benefits of Flexibility and Safety, enabling safe and efficient distribution of electrical power.

These boards undergo a seven-tank phosphating pre-treatment process to ensure anti-rust conditioning, superior finish and lasting strength. Post this process, premium quality powder coating is applied using the state-of-the-art techniques. These boards are also equipped with top and bottom removable gland plates with a number of knockouts. One can thus install them either flush or wall mounted.

PRODUCTS	I/C CURRENT RATING	INCOMER	SUB INCOMER	OUTGOING	EARTHING TERMINAL	SHROUDED NEUTRAL LINK
SPN DB	Up to 63A	SPN / DP	-	SP MCB	1	1
TPN DB	Up to 63A	TP/ TPN/ FP	-	SP MCB	1	1
Vertical TPN DB	Up to 63A	TP/ TPN/ FP	-	SP & TP MCB	1	1
PPI DB	Up to 63A	TP/ TPN/ FP	DP / MCB/ RCCB	SP MCB	3	3
Phase Selector DB	Up to 63A	TP/ TPN/ FP	FP / MCB/ RCCB	SP MCB	1	1
Eight Segment DB	Up to 63A	TP/ TPN/ FP	DP / MCB/ RCCB	SP MCB	4	4