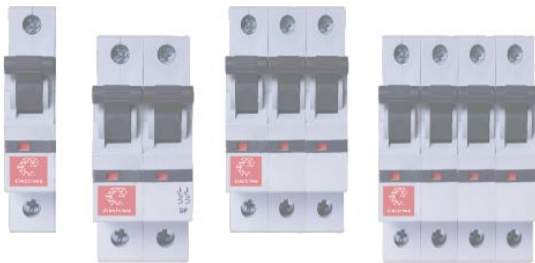


MCEB



Electri[⚡]ia





PARTNER FOR

SAFETY

M C B Features

MINIATURE CIRCUIT BREAKER



DESIGN

SAFETY

RELIABILITY

PERFORMANCE

INSTALLATION

Design Features



A registered signature design style for all products that reflect Electrisia's originality and commitment to quality.



Our MCB's are Advance designed. The whole MCB is also protected as an industrial design. tripping device: uncompromising safety (Unique arrangement for quick opening under fault condition)

Safety Features



A rating of "IP20" denotes protection from solid objects approximately 12mm in size, such as adult fingers;

Red and Green color flags provide a clear visual indication of the contact status inside, irrespective of handle position.

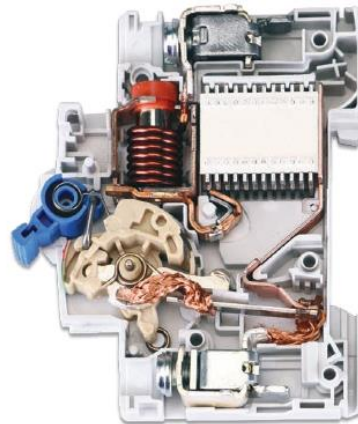


Provision to add the Phase Barrier accessory on top and bottom side for a more secure connection.

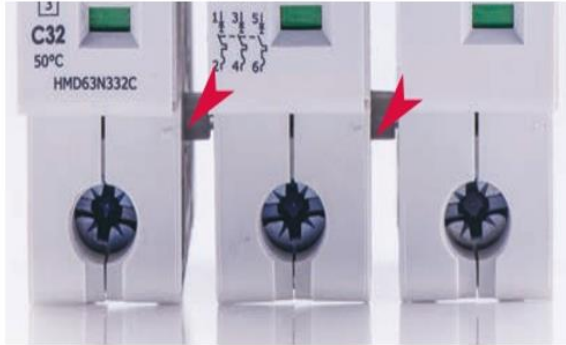
1. In normal ON/OFF operation current separation is 8 mm, in case of abnormal /fault conditions the contacts get separated by 10 mm, which prevents the arc from restriking and ensures effective arc quenching.

2. Use as Isolator Benefits

- Prevents Arc re-striking
- Foolproof breaking of circuit
- Higher voltage withstand capability



Reliability Features

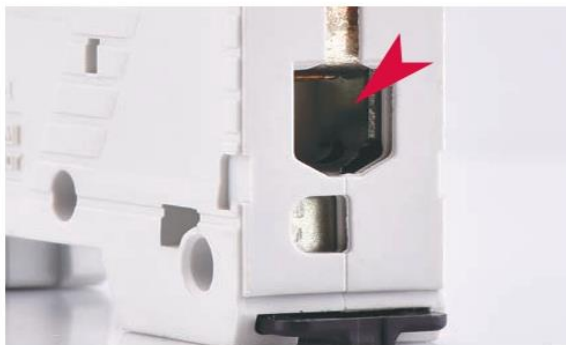
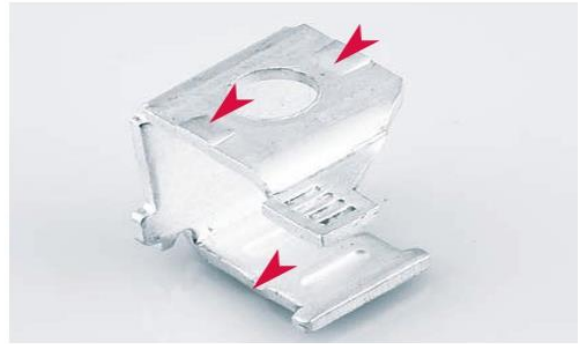


Two poles are coupled with spacers in between which ensure proper alignment of poles for reliable operation

Biting teeth on both ON and OFF Terminals for both Cable and Busbar termination.

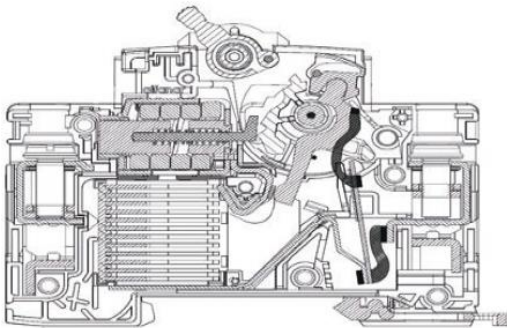
Benefits

- a) World class terminal reliability
- b) Excellent electrical joint
- c) Excellent mechanical joint
- d) 2.8 N-m torque
- e) Firm cable grip
- f) Excellent cable pull Withstand
- g) Excellent temperature performance



A Box Clamp is provided in an open condition so that the breaker is ready for Cable/Busbar connection which reduces installation time.

Performance Features



The mechanism is arranged to transform linear force into rotary force for quick opening of the contacts which reduces the energy inside the breaker to a minimal level during the clearance of fault. The effectiveness of this action remains the same up to the last shot of short circuit sequence.

The uniquely designed air channels located between adjacent poles facilitate better heat dissipation.



Silver Graphite contact tips ensures higher life and maximum safety against contact welding due to superior anti-welding properties enhancing safety and life of system.

Installation Features



T-Cable terminals allow connection of cables from 18AWG (0.75mm²) up to 4 AWG (25mm²). Conductors of different sizes can be used in the same terminal, with up to five conductors of size 16AWG (1.5 mm²). The uniquely designed air channels located between adjacent poles facilitate better heat dissipation.



Space for insulated screwdrivers - the larger hole allows the use of an insulated screwdriver to tighten the screws of both wire terminals, ensuring maximum operational safety.



Two-position Din Clip, facilitates easy mounting and removal of MCB from Din Rail channel for convenient installation



Insertion of cable in the wrong place below the wrong termination is not possible.

Flat Locking Shutters cover the gap behind the box to eliminate the possibility of wrong entry of wire during installation.

Technical Specification

AMCB Technical Data		
Product standard	IEC 60898-1	
Tripping characteristics	B,C Curve	
Electrical		
Rated current range (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Number of poles	1P,2P,3P,4P	
Rated operational voltage (Ue) V AC	Single pole	240
	Multi pole	415
Rated insulation voltage (Ui) V AC	500	
Rated impulse voltage (Uimp) kV	4	
Rated ultimate short circuit	10kA,6kA	
Rated service short circuit breaking capacity Ics (A) at 415V AC	7.5kA, 6kA	
Rated frequency (Hz)	50/60	
Suitability for isolation	Yes	
Thermal tripping characteristics	> 1 hour @ 1.13 In @ 50°C	
	< 1 hour @ 1.45 In @ 50°C	
Electrical endurance (Number of operation cycles)	≥10000	
Mechanical		
Protection degree	IP 20	
Maximum terminal capacity (mm ²)	35	
Tightening torque (Nm)	2.8	
Mounting type	DIN rail 35 mm acc. to EN 60715	
Method of connection	Cables / Busbar / Cables+Busbar	
Frame width (mm) (max.)	17.7 mm per pole	
Dimensions 1 Pole (W × H × D) (mm) (max.)	17.7 x 83.2 x 68.3	
Dimensions 2 Pole (W × H × D) (mm) (max.)	35.4 x 83.2 x 70.1	
Dimensions 3 Pole (W × H × D) (mm) (max.)	53.1 x 83.2 x 70.1	
Dimensions 4 Pole (W × H × D) (mm) (max.)	70 x 83.2 x 70.1	
Environmental/General		
Energy limiting class	3	
Reference ambient air temperature	50°C	
Operating temperature range	- 5°C to + 70°C	
Storage temperature range	- 5°C to + 70°C	