



GE Power Controls

NEW



GESafe

Miniature Circuit Breaker





Miniature Circuit Breaker G2000

Features

10kA Breaking Capacity: These MCBs have a high breaking capacity of 10kA through out the range. They operate on current limiting principle (class 3) ensuring extremely low let through energy (I^2t) under fault conditions.

Quality Housing: The MCB housing is made of self extinguishing high grade engineering plastic having good aesthetics and high withstanding capacity to environmental variations (-25°C to +55°C) and mechanical damages.

Trip Free Mechanism: The MCB trips positively even when locked in on (I) position.

Terminal Design: Unique double function terminal design for accepting both busbar and conductors simultaneously.

Disconnecter Function: The MCB has positive contact indication & fulfills the requirement of an isolator.

Safety Terminals: The terminals are touch proof ensuring maximum operator safety against accidental contact (IP20 degree of protection).

Advance Neutral Mechanism: The neutral 'makes before' on closing and 'breaks later' on opening, protecting the load for 415V line voltage.

DIN Clip: The unique two position DIN clip facilitates easy mounting and removal of MCB from the DIN channel.

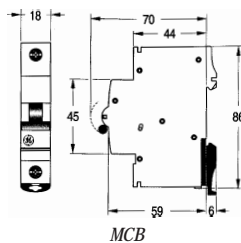
Uniform Components Profile: The MCBs, Isolators & RCDs have a uniform profile and can be connected through Pin type & Fork type bus bars. Bottom terminal for fork type busbar is isolated between the poles.

Accessories: Common modular accessories like Shunt trip, Motor mechanism, Undervoltage release and Auxiliary contacts ensures flexibility.

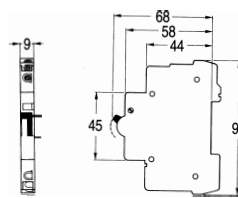
Energy Saver: The Watt loss of the MCBs is extremely low providing valuable savings over it's entire lifecycle.

| Rated Current in (A) | Watt Loss (W) |
|----------------------|---------------|
| ≤ 16 | ≤ 2.0 |
| ≤ 40 | ≤ 3.5 |
| ≤ 63 | ≤ 5.5 |

Dimensions (mm)



MCB



Auxiliary contact block

- Dimensions of 2, 3 & 4 pole MCBs are multiples of single pole MCB dimensions as these are modular units
- U/V & shunt release dimensions are same as that of single pole MCB dimensions

Note: Also available for your specific requirements are

- MCB's in 80A, 100A & 125A rating
- Isolators in 100A rating in 4P Configuration
- Motor operated MCBs for remote operation



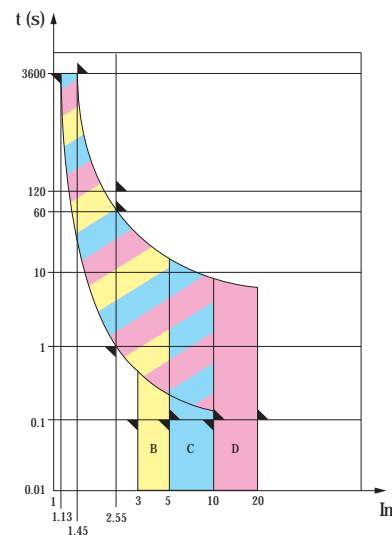
Technical Specifications

| | | |
|-------------------------------------|---------------------------------------|--|
| Standards | IS 8828(1996) & IEC 898(1995) | |
| Rated Current | In | 0.5, 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 |
| Number of poles | 1, 2, 3, 4, 1+N & 3+N | |
| Short Circuit Breaking Capacity | Icn | 10KA |
| Rated Operational Voltage | Ue | 240/415V AC |
| DC Application | 48V per pole | |
| Frequency | 50-60Hz | |
| Tripping Characteristics | B, C & D curve | |
| Operating temperature range | -5°C to +40°C Ambient | |
| Mounting arrangement | Snap on fixing, 35mm Din channel | |
| Terminal Size | Suitable for 35 mm ² cable | |
| Shock resistance (x, y & z dir) | 40g, duration of 5 ms. | |
| Vibration resistance (x, y & z dir) | 3g (operating time atleast 30 mins) | |

Isolators are available in 1P/2P/3P/4P configuration from 32A to 80A.

Tripping Characteristics

IEC 898 distinguishes three different types of tripping characteristics as shown



| Tripping curve type | Application |
|---------------------|----------------------------|
| B | Resistive & Lighting loads |
| C | Lighting & Motor loads |
| D | Highly inductive loads |

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