



## TB-63 DC MCB

### Application Scope

A high-current-limiting, high-reliability circuit breaker designed specifically for the telecommunications industry. It is widely used in power distribution systems—such as main equipment cabinets, power supply cabinets, power distribution cabinets, outdoor equipment shelters, and lightning protection boxes—to provide precise overload and short-circuit protection.

AC/DC Compatible:

AC: 50/60Hz; rated voltage up to 415V; current up to 63A.

DC: Single-pole up to 60V / Double-pole up to 125V; rated current up to 63A.

Certified Compliance: Complies with GB/T 10963.1/2 and IEC 60898-1/-2 standards.

### Technical Parameters

|                                        |                                                                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                  |                                                                                                                                                                                                                                                                                 |
| Frame size rated current (Inm)         | 63A                                                                                                                                                                                                                                                                             |
| Rated operational voltage (Ue)         | AC 240/415V (1P); 415V (2P, 3P, 4P); 50/60Hz;<br>DC: 60V/125V (1P); 125V/250V (2P).                                                                                                                                                                                             |
| Rated current (In)                     | 1A, 2A, 3A, 4A, 5A, 6A, 10A, 15A, 16A, 20A, 25A, 32A, 40A, 50A, 60A, 63A.                                                                                                                                                                                                       |
| Instantaneous tripping type            | B, C, D.                                                                                                                                                                                                                                                                        |
| Rated breaking capacity                | AC: 6kA (AC 240/415V, Types B & C: 1A–40A)<br>4.5kA (AC 240/415V, Types B & C: 50A–63A; Type D: 1A–63A).<br>DC: 10kA (DC 60V 1P, DC 125V 2P; Types B & C: 1A–63A)<br>6kA (DC 125V 1P, DC 250V 2P; Types B & C: 1A–40A)<br>4.5kA (DC 125V 1P, DC 250V 2P; Types B & C: 50A–63A). |
| Poles                                  | 1P, 2P, 3P, 4P.                                                                                                                                                                                                                                                                 |
| Service life                           | Mechanical life 20,000 cycles;<br>electrical life 10,000 cycles.                                                                                                                                                                                                                |
| Rated insulation voltage (Ui)          | 500V.                                                                                                                                                                                                                                                                           |
| Rated impulse withstand voltage (Uimp) | 4kV                                                                                                                                                                                                                                                                             |
| Normal Operating Conditions            | Upper limit not exceeding +70°C, lower limit not lower than -40°C,<br>24-hour average not exceeding +35°C. Reference temperature is +30°C                                                                                                                                       |
| Altitude                               | The altitude of the installation site shall not exceed 2000 m.                                                                                                                                                                                                                  |
| Pollution degree                       | 2                                                                                                                                                                                                                                                                               |
| Installation category                  | II, III.                                                                                                                                                                                                                                                                        |
| Mounting method                        | DIN rail mounting.                                                                                                                                                                                                                                                              |

### Appearance and Dimensions

