

TG-63H Series Miniature Circuit Breaker

Technical data

| | |
|------------------------------------|--|
| Standard | EN/ IEC60898-1 |
| Breaking capacity | 10kA (6kA on Request) |
| Protection | Against overload and short circuit |
| Rated current I_n | 0.5, 1,2,3,4,6, 10, 13, 16,20,25,32,40,50,63A |
| Rated voltage | AC: 1,2,3,4 pole 230/400V Rated insulation voltage U _i : 500V Rated impulse withstand voltage U _{imp} : 4kV Energy limiting :class 3 |
| Ambient temperature (°C) | -5~+40 |
| Characteristic | Thermal operating limit: (1.13-1.45) x I _n Magnetic operating: B: (3-5) x I _n C:(5-10) x I _n D: (10-20) x I _n |
| Number of poles | 1P, 1P+N, 2P, 3P, 3P+N and 4P |
| Type of trip | Thermal/magnetic release |
| Type of terminal | Lug type and Pin type |
| Terminal capacity | 16mm ² flexible or 25mm ² rigid up to 25A ratings 25mm ² flexible or 35mm ² rigid from 32A to 63A ratings |
| Protection degree | IP20 |
| Installation | Mounting on 35mm DIN rail |
| Width | 17.8mm per pole |



TG-63H MCB

| Rated current(A) | B curve | C curve | D curve | Packing unit |
|------------------|----------------|----------------|----------------|--------------|
| 0.5 | TG-63H/1-B0.5 | TG-63H/1-C0.5 | TG-63H/1-D0.5 | 12 |
| 1 | TG-63H/1-B1 | TG-63H/1-C1 | TG-63H/1-D1 | 12 |
| 2 | TG-63H/1-B2 | TG-63H/1-C2 | TG-63H/1-D2 | 12 |
| 3 | TG-63H/1-B3 | TG-63H/1-C3 | TG-63H/1-D3 | 12 |
| 4 | TG-63H/1-B4 | TG-63H/1-C4 | TG-63H/1-D4 | 12 |
| 6 | TG-63H/1-B6 | TG-63H/1-C6 | TG-63H/1-D6 | 12 |
| 10 | TG-63H/1-B10 | TG-63H/1-C10 | TG-63H/1-D10 | 12 |
| 13 | TG-63H/1-B13 | TG-63H/1-C13 | TG-63H/1-D13 | 12 |
| 16 | TG-63H/1-B16 | TG-63H/1-C16 | TG-63H/1-D16 | 12 |
| 20 | TG-63H/1-B20 | TG-63H/1-C20 | TG-63H/1-D20 | 12 |
| 25 | TG-63H/1-B25 | TG-63H/1-C25 | TG-63H/1-D25 | 12 |
| 32 | TG-63H/1-B32 | TG-63H/1-C32 | TG-63H/1-D32 | 12 |
| 40 | TG-63H/1-B40 | TG-63H/1-C40 | TG-63H/1-D40 | 12 |
| 50 | TG-63H/1-B50 | TG-63H/1-C50 | TG-63H/1-D50 | 12 |
| 63 | TG-63H/1-B63 | TG-63H/1-C63 | TG-63H/1-D63 | 6 |
| 0.5 | TG-63H/1-B0.5N | TG-63H/1-C0.5N | TG-63H/1-D0.5N | 6 |
| 1 | TG-63H/1-B1N | TG-63H/1-C1N | TG-63H/1-D1N | 6 |
| 2 | TG-63H/1-B2N | TG-63H/1-C2N | TG-63H/1-D2N | 6 |
| 3 | TG-63H/1-B3N | TG-63H/1-C3N | TG-63H/1-D3N | 6 |
| 4 | TG-63H/1-B4N | TG-63H/1-C4N | TG-63H/1-D4N | 6 |
| 6 | TG-63H/1-B6N | TG-63H/1-C6N | TG-63H/1-D6N | 6 |
| 10 | TG-63H/1-B10N | TG-63H/1-C10N | TG-63H/1-D10N | 6 |
| 13 | TG-63H/1-B13N | TG-63H/1-C13N | TG-63H/1-D13N | 6 |
| 16 | TG-63H/1-B16N | TG-63H/1-C16N | TG-63H/1-D16N | 6 |
| 20 | TG-63H/1-B20N | TG-63H/1-C20N | TG-63H/1-D20N | 6 |
| 25 | TG-63H/1-B25N | TG-63H/1-C25N | TG-63H/1-D25N | 6 |
| 32 | TG-63H/1-B32N | TG-63H/1-C32N | TG-63H/1-D32N | 6 |
| 40 | TG-63H/1-B40N | TG-63H/1-C40N | TG-63H/1-D40N | 6 |
| 50 | TG-63H/1-B50N | TG-63H/1-C50N | TG-63H/1-D50N | 6 |
| 63 | TG-63H/1-B63N | TG-63H/1-C63N | TG-63H/1-D63N | 6 |
| 0.5 | TG-63H/2-B0.5 | TG-63H/2-C0.5 | TG-63H/2-D0.5 | 6 |
| 1 | TG-63H/2-B1 | TG-63H/2-C1 | TG-63H/2-D1 | 6 |
| 2 | TG-63H/2-B2 | TG-63H/2-C2 | TG-63H/2-D2 | 6 |
| 3 | TG-63H/2-B3 | TG-63H/2-C3 | TG-63H/2-D3 | 6 |
| 4 | TG-63H/2-B4 | TG-63H/2-C4 | TG-63H/2-D4 | 6 |
| 6 | TG-63H/2-B6 | TG-63H/2-C6 | TG-63H/2-D6 | 6 |
| 10 | TG-63H/2-B10 | TG-63H/2-C10 | TG-63H/2-D10 | 6 |
| 13 | TG-63H/2-B13 | TG-63H/2-C13 | TG-63H/2-D13 | 6 |
| 16 | TG-63H/2-B16 | TG-63H/2-C16 | TG-63H/2-D16 | 6 |
| 20 | TG-63H/2-B20 | TG-63H/2-C20 | TG-63H/2-D20 | 6 |
| 25 | TG-63H/2-B25 | TG-63H/2-C25 | TG-63H/2-D25 | 6 |
| 32 | TG-63H/2-B32 | TG-63H/2-C32 | TG-63H/2-D32 | 6 |
| 40 | TG-63H/2-B40 | TG-63H/2-C40 | TG-63H/2-D40 | 6 |
| 50 | TG-63H/2-B50 | TG-63H/2-C50 | TG-63H/2-D50 | 6 |
| 63 | TG-63H/2-B63 | TG-63H/2-C63 | TG-63H/2-D63 | 6 |






TG-63H 1P



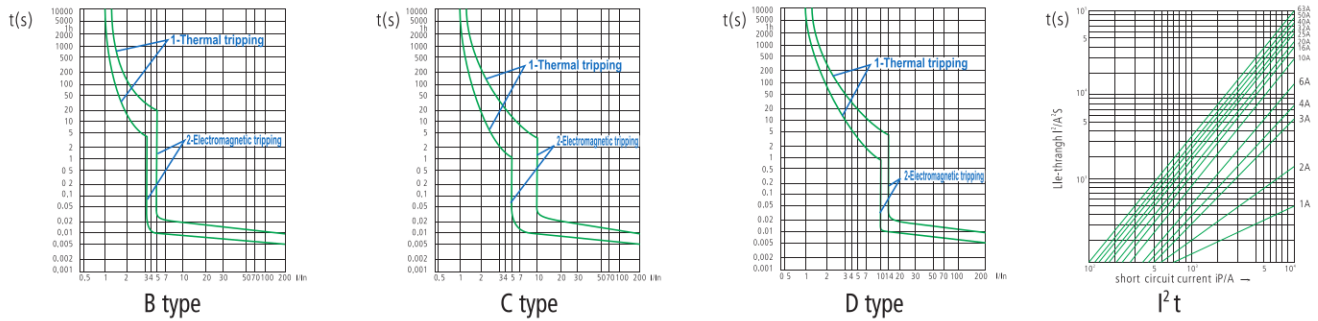
TG-63H 1P+N



TG-63H 2P

| TG-63H MCB | Rated current(A) | B curve | C curve | D curve | Packing unit |
|--|------------------|----------------|----------------|----------------|--------------|
|  <p>TG-63H 3P</p> | 0.5 | TG-63H/3-B0.5 | TG-63H/3-C0.5 | TG-63H/3-D0.5 | 4 |
| | 1 | TG-63H/3-B1 | TG-63H/3-C1 | TG-63H/3-D1 | 4 |
| | 2 | TG-63H/3-B2 | TG-63H/3-C2 | TG-63H/3-D2 | 4 |
| | 3 | TG-63H/3-B3 | TG-63H/3-C3 | TG-63H/3-D3 | 4 |
| | 4 | TG-63H/3-B4 | TG-63H/3-C4 | TG-63H/3-D4 | 4 |
| | 6 | TG-63H/3-B6 | TG-63H/3-C6 | TG-63H/3-D6 | 4 |
| | 10 | TG-63H/3-B10 | TG-63H/3-C10 | TG-63H/3-D10 | 4 |
| | 13 | TG-63H/3-B13 | TG-63H/3-C13 | TG-63H/3-D13 | 4 |
| | 16 | TG-63H/3-B16 | TG-63H/3-C16 | TG-63H/3-D16 | 4 |
| | 20 | TG-63H/3-B20 | TG-63H/3-C20 | TG-63H/3-D20 | 4 |
| | 25 | TG-63H/3-B25 | TG-63H/3-C25 | TG-63H/3-D25 | 4 |
| | 32 | TG-63H/3-B32 | TG-63H/3-C32 | TG-63H/3-D32 | 4 |
| | 40 | TG-63H/3-B40 | TG-63H/3-C40 | TG-63H/3-D40 | 4 |
| | 50 | TG-63H/3-B50 | TG-63H/3-C50 | TG-63H/3-D50 | 4 |
| | 63 | TG-63H/3-B63 | TG-63H/3-C63 | TG-63H/3-D63 | 4 |
|  <p>TG-63H 3P+N</p> | 0.5 | TG-63H/3-B0.5N | TG-63H/3-C0.5N | TG-63H/3-D0.5N | 3 |
| | 1 | TG-63H/3-B1N | TG-63H/3-C1N | TG-63H/3-D1N | 3 |
| | 2 | TG-63H/3-B2N | TG-63H/3-C2N | TG-63H/3-D2N | 3 |
| | 3 | TG-63H/3-B3N | TG-63H/3-C3N | TG-63H/3-D3N | 3 |
| | 4 | TG-63H/3-B4N | TG-63H/3-C4N | TG-63H/3-D4N | 3 |
| | 6 | TG-63H/3-B6N | TG-63H/3-C6N | TG-63H/3-D6N | 3 |
| | 10 | TG-63H/3-B10N | TG-63H/3-C10N | TG-63H/3-D10N | 3 |
| | 13 | TG-63H/3-B13N | TG-63H/3-C13N | TG-63H/3-D13N | 3 |
| | 16 | TG-63H/3-B16N | TG-63H/3-C16N | TG-63H/3-D16N | 3 |
| | 20 | TG-63H/3-B20N | TG-63H/3-C20N | TG-63H/3-D20N | 3 |
| | 25 | TG-63H/3-B25N | TG-63H/3-C25N | TG-63H/3-D25N | 3 |
| | 32 | TG-63H/3-B32N | TG-63H/3-C32N | TG-63H/3-D32N | 3 |
| | 40 | TG-63H/3-B40N | TG-63H/3-C40N | TG-63H/3-D40N | 3 |
| | 50 | TG-63H/3-B50N | TG-63H/3-C50N | TG-63H/3-D50N | 3 |
| | 63 | TG-63H/3-B63N | TG-63H/3-C63N | TG-63H/3-D63N | 3 |
|  <p>TG-63H 4P</p> | 0.5 | TG-63H/4-B0.5 | TG-63H/4-C0.5 | TG-63H/4-D0.5 | 3 |
| | 1 | TG-63H/4-B1 | TG-63H/4-C1 | TG-63H/4-D1 | 3 |
| | 2 | TG-63H/4-B2 | TG-63H/4-C2 | TG-63H/4-D2 | 3 |
| | 3 | TG-63H/4-B3 | TG-63H/4-C3 | TG-63H/4-D3 | 3 |
| | 4 | TG-63H/4-B4 | TG-63H/4-C4 | TG-63H/4-D4 | 3 |
| | 6 | TG-63H/4-B6 | TG-63H/4-C6 | TG-63H/4-D6 | 3 |
| | 10 | TG-63H/4-B10 | TG-63H/4-C10 | TG-63H/4-D10 | 3 |
| | 13 | TG-63H/4-B13 | TG-63H/4-C13 | TG-63H/4-D13 | 3 |
| | 16 | TG-63H/4-B16 | TG-63H/4-C16 | TG-63H/4-D16 | 3 |
| | 20 | TG-63H/4-B20 | TG-63H/4-C20 | TG-63H/4-D20 | 3 |
| | 25 | TG-63H/4-B25 | TG-63H/4-C25 | TG-63H/4-D25 | 3 |
| | 32 | TG-63H/4-B32 | TG-63H/4-C32 | TG-63H/4-D32 | 3 |
| | 40 | TG-63H/4-B40 | TG-63H/4-C40 | TG-63H/4-D40 | 3 |
| | 50 | TG-63H/4-B50 | TG-63H/4-C50 | TG-63H/4-D50 | 3 |
| | 63 | TG-63H/4-B63 | TG-63H/4-C63 | TG-63H/4-D63 | 3 |

1. Curves



2. Overcurrent protecting characteristics

| No | Rated current of release(A) | Initial state | Test current | Specified time | Result to be obtained | Remarks |
|----|-----------------------------|------------------------|--------------|-----------------|-----------------------|--|
| 1 | 1-63 | cold state | 1.13In | $t \leq 1$ h | Non-trip | |
| 2 | 1-63 | upon the previous test | 1.45In | $t < 1$ h | trip | Setting current up to specified value steadily in 5S |
| 3 | $In \leq 32$ | cold state | 2.55In | $1s < t < 60s$ | trip | |
| | $In > 32$ | cold state | 2.55In | $1s < t < 120s$ | trip | |
| 4 | 1-63 | cold state | 3In | $t \leq 0.1s$ | Non-trip | B type |
| | 1-63 | cold state | 5In | $t < 1.1s$ | trip | B type |
| | 1-63 | cold state | 5In | $t \leq 0.1s$ | Non-trip | C type |
| | 1-63 | cold state | 10In | $t < 1.1s$ | trip | C type |
| | 1-63 | cold state | 10In | $t \leq 0.1s$ | Non-trip | D type |
| | 1-63 | cold state | 20In | $t < 1.1s$ | trip | D type |

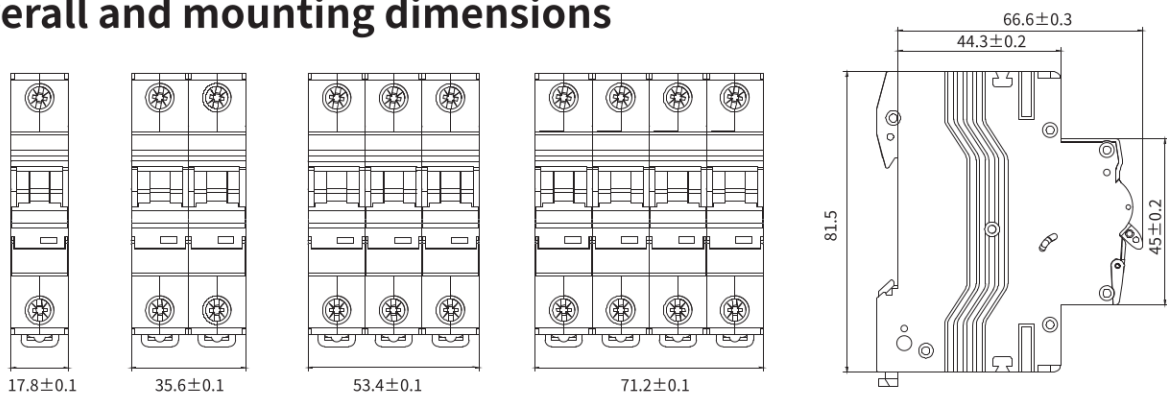
3. Endurance(operations)

| Category | Operations | Operation frequency | Rated current |
|----------------------|------------|---------------------|---------------|
| Electrical endurance | 8000 | 240/h | 0.5-32 |
| | | 120/h | 40-63 |
| Mechanical endurance | 20000 | 240/h | 0.5-63 |

4.Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism. Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

5. Overall and mounting dimensions



EPB-63M/EPB-63H