

MCCBs for power distribution

Susol

Electrical characteristics

| | | TE100 | TE160 | TD100 | TD160 | | | | | | |
|--|--|------------------|----------------|-------------------------------------|----------------------------|----------------|----------------|----------------|-----------------|-----------------|----------------|
| Frame size | | 100 | 160 | 100 | 160 | | | | | | |
| Rated current, I _n * | | 16-100 | 100,125,160 | 16, 20, 25, 32, 40, 50, 63, 80, 100 | 100, 125, 160 1P:16-160 | | | | | | |
| No. of poles | | 3,4 | 3,4 | 2*, 3, 4 | 1, 2*, 3, 4 | | | | | | |
| Rated operational voltage, U _e | AC | 690 | 690 | 690 | 690, 1P:240 | | | | | | |
| | DC | 500 | 500 | 500 | 500, 1P:250 | | | | | | |
| Rated impulse withstand voltage, U _{imp} | | 8 | 8 | 8 | 8 | | | | | | |
| Rated insulation voltage, U _i [V] | | 750 | 750 | 750 | 750 | | | | | | |
| Rated ultimate short-circuit breaking capacity, I _{cu} | | S | N | S | N | N | H | L | N | H | L |
| AC 50/60Hz | 220/240V | 50 | 85 | 50 | 85 | 85 | 100 | 200 | 85 (1P:30) | 100 (1P:50) | 200 |
| | 380/415V | 37 | 50 | 37 | 50 | 50 | 85 | 150 | 50 | 85 | 150 |
| | 440/460V | 25 | 37 | 25 | 37 | 50 | 70 | 130 | 50 | 70 | 130 |
| | 480/500V | 18 | 25 | 18 | 25 | 30 | 50 | 65 | 30 | 50 | 65 |
| | 660/690V | 6 | 8 | 6 | 8 | 5 | 8 | 10 | 5 | 8 | 10 |
| DC | 250V | 37 | 50 | 37 | 50 | 42 | 65 | 100 | 42 (1P:16) | 65 (1P:25) | 100 |
| | 500V(2poles in series) | 37 | 50 | 37 | 50 | 42 | 65 | 100 | 42 | 65 | 100 |
| Rated service breaking capacity, I _{cs} [%I _{cu}] | | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Rated short-circuit making capacity I _{cm} | | | | | | | | | | | |
| AC 50/60Hz | 220/240V | 105 | 187 | 105 | 187 | 187 | 220 | 440 | 187 (1P:105) | 220 (1P:105) | 440 |
| | 380/415V | 77.7 | 105 | 77.7 | 105 | 105 | 187 | 330 | 105 | 187 | 330 |
| | 440/460V | 52.5 | 77.7 | 52.5 | 77.7 | 105 | 154 | 286 | 105 | 154 | 286 |
| | 480/500V | 36 | 52.5 | 36 | 52.5 | 63 | 105 | 143 | 63 | 105 | 143 |
| | 660/690V | 9.2 | 13.6 | 9.2 | 13.6 | 8 | 14 | 17 | 8 | 14 | 17 |
| Category of utilization | | A | A | A | A | | | | | | |
| Isolation behavior | | ● | ● | ● | ● | | | | | | |
| Trip unit (release) | | | | | | | | | | | |
| Thermal-Magnetic | | | | | | | | | | | |
| ● fixed-thermal, fixed-magnetic | | FTU | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● adjustable-thermal, fixed-magnetic | | FMU | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● adjustable-thermal, adjustable-magnetic | | ATU | - | - | - | - | - | - | - | - | - |
| ● magnetic only | | MTU | - | - | - | - | - | - | - | - | - |
| Electronic | | | | | | | | | | | |
| ● LSI | | ETS | - | - | - | - | - | - | - | - | - |
| ● LSI | | ETM | - | - | - | - | - | - | - | - | - |
| Option | Earth-fault protection, I _g | - | - | - | - | - | - | - | - | - | - |
| | Zone selective interlocking, ZSI | - | - | - | - | - | - | - | - | - | - |
| | Ammeter | - | - | - | - | - | - | - | - | - | - |
| | Communication | - | - | - | - | - | - | - | - | - | - |
| | Earth-leakage protection module | - | - | - | - | - | - | - | - | - | - |
| Connection | fixed | front-connection | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | rear-connection | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | plug-in | front-connection | - | - | - | - | - | - | - | - | - |
| | | rear-connection | - | - | - | - | - | - | - | - | - |
| Mechanical life | | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 | 25000 |
| Electrical life @ 415 V AC | | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| Basic dimensions, W×H×D (front connection) | 1-pole | - | - | - | - | - | - | - | - | - | 35 × 140 × 86 |
| | 3-pole | 76 × 130 × 82 | 76 × 130 × 82 | 76 × 130 × 82 | 76 × 130 × 82 | 90 × 140 × 86 | 90 × 140 × 86 | 90 × 140 × 86 | 90 × 140 × 86 | 90 × 140 × 86 | 90 × 140 × 86 |
| | 4-pole | 101 × 130 × 82 | 101 × 130 × 82 | 101 × 130 × 82 | 101 × 130 × 82 | 120 × 140 × 86 | 120 × 140 × 86 | 120 × 140 × 86 | 120 × 140 × 86 | 120 × 140 × 86 | 120 × 140 × 86 |
| Weight (front connection) | 1-pole | - | - | - | - | - | - | - | - | - | 0.57 |
| | 3-pole | 1.05 | 1.05 | 1.05 | 1.05 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 4-pole | 1.35 | 1.35 | 1.35 | 1.35 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Reference standard | | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 | IEC60947-2 |

※ Breaking capacity at 660/690V is for your reference. (not certified)

* Applicable to MCCBs equipped with FTU, FMU, ATU

** Not applicable to 1pole

* 2 pole MCCB in 3pole frame size

