

# MT-TSD- 250A- 4P

MT-TSD-250A-4P, Motorised circuit-breaker suitable for residual current protection, 4 poles

Code: P20K74.

> Poles: 4
> In (A): 250 A

## Description

**MT-TSD** series automatic switch with remote control for currents from 80 to 630A, with both 3 and 4 poles. Provides short-circuit and overload protection, and is also used as a circuit breaker, as it features a trigger coil for use with a differential relay.

The switch can be reconnected in two ways, depending on how the operation mode is set in the motor group:

- "MANU": done manually on the switch itself by turning it to OFF and then ON.
- "AUTO": done by means of an electrical impulse that follows the OFF-ON sequence.

## Application

The **MT-TSD** series are motorized automatic switches that can be operated remotely and are valid for any application that requires remote connection/disconnection.
They are also used as a circuit breaker associated with automatic reclosing relays, such as the RGU-10 MT. They are an essential complement to provide overcurrent and earth leakage protection with automatic reclosing.



# MT-TSD- 250A- 4P

Motorised circuit-breaker suitable for residual current protection

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## Specifications

### DC power supply

| | |
|---|---|
| Nominal voltage | 500 V |

### Electrical characteristics

| | |
|---|---|
| Mechanical life | 25000 cycles |
| Electrical lifetime | 10000 cycles 415 V In |
| Insulation voltage, circuit | 1000 V |

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 140 x 160 x 195 (mm) |
| Weight (kg) | 4,45 |

### Environmental characteristics

| | |
|---|---|
| Protection class | IP20, IEC 60529 |
| Storage temperature | -40 ... +70 °C |
| Working temperature | -20 ... +70 °C |

### Standards

| | |
|---|---|
| Electrical safety, Contamination level/class | Pollution resistance 3 |
| Standards | IEC 60947-2, IEC 60664-1 |

### Circuit breaker / RCCB

| | |
|---|---|
| Assigned frequency (Hz) | 50 / 60 Hz |
| Rated nominal voltage (Un) | 690 V ~ |

### Thermal-magnetic protection

| | |
|---|---|
| Magnetic adjustment (Ii) | Fixed 10 x In |
| Thermal adjustment (Ir) | Adjustable, 3 settings: 0.8 / 0.9 / 1 x In |
| Rated short-circuit marking capacity (IEC 60947-2) (Icm) | 220 kA at 220/240 Vac 50/60 Hz. 105 kA at 380/415 Vac 50/60 Hz. 105 kA at 440/460 Vac 50/60 Hz. 88 kA at 480/500 Vac 50/60 Hz. 46 kA at 525 Vac 50/60 Hz. 17 kA at 660/690 Vac 50/60 Hz. |
| Nominal current In (A) | 250 |
| Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Ics), in DC (IEC 60947-2) | 50 kA at 250 Vdc, reference 50 kA at 500 Vdc (2poles in series), reference |
| AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2) | 100 kA at 220/240 Vac 50/60 Hz. 50 kA at 380/415 Vac 50/60 Hz. 50 kA at 440/460 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. |

### Protection

| | |
|---|---|
| Circuit breaker type | Class A |


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**MT-TSD**
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| CODE | TYPE | Poles | In (A) |
|---|---|---|---|
| **3 poles** | | | |
| P20K60. | MT-TSD- 80A- 3P | 3 | 80 A |
| P20K61. | MT-TSD- 100A- 3P | 3 | 100 A |
| P20K62. | MT-TSD- 125A- 3P | 3 | 125 A |
| P20K63. | MT-TSD- 160A- 3P | 3 | 160 A |
| P20K64. | MT-TSD- 250A- 3P | 3 | 250 A |
| P20K65. | MT-TSD- 400A- 3P | 3 | 400 A |
| P20K66. | MT-TSD- 630A- 3P | 3 | 630 A |
| **4 poles** | | | |
| P20K70. | MT-TSD- 80A- 4P | 4 | 80 A |
| P20K71. | MT-TSD- 100A- 4P | 4 | 100 A |
| P20K72. | MT-TSD- 125A- 4P | 4 | 125 A |
| P20K73. | MT-TSD- 160A- 4P | 4 | 160 A |
| P20K74. | MT-TSD- 250A- 4P | 4 | 250 A |
| P20K75. | MT-TSD- 400A- 4P | 4 | 400 A |
| P20K76. | MT-TSD- 630A- 4P | 4 | 630 A |

Fixed magnetic and adjustable thermal protection



# MT-TSD- 250A- 4P

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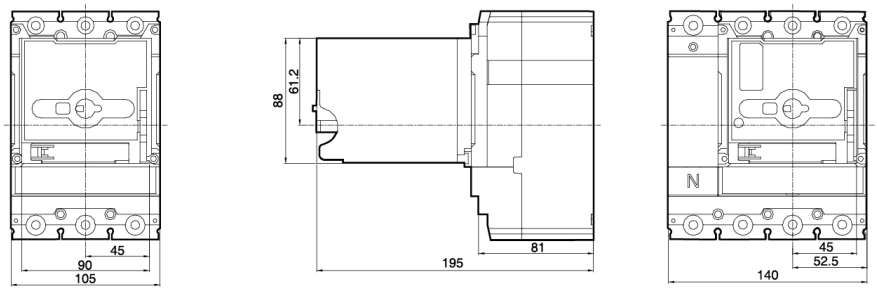
## Dimensions



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