



## MT-TSD- 160A- 3P

MT-TSD-160A-3P, Motorised circuit-breaker suitable for residual current protection, 3 poles

Code: P20K63.

- > Poles: 3
- > In (A): 160 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.



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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 | 105 x 160 x 195 (mm) |
| Weight (kg)                      | 3,85                 |

#### 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)  | 160  |
| 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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| CODE           | TYPE             | Poles | In (A) |
|----------------|------------------|-------|--------|
| <b>3 poles</b> |                  |       |        |
| 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  |
| <b>4 poles</b> |                  |       |        |
| 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



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### Dimensions

