

MT-TSD- 100A- 3P

MT-TSD-100A-3P, Motorised circuit-breaker suitable for residual current protection, 3 poles

Code: P20K61.

> Poles: 3
> In (A): 100 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)	100
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)
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

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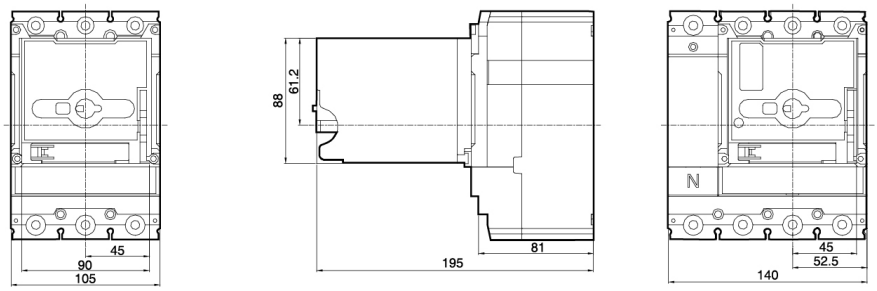
Dimensions



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