



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:

- o "MANU": done manually on the switch itself by turning it to OFF and then ON.
- o "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.







Motorised circuit-breaker suitable for residual current protection

Code: P20K61.

## Specifications

Electrical Characteristics	DC power supply			
Methanical life	Nominal voltage	500 V		
Electrical lifetime	Electrical characteristics			
Mechanical characteristics   1000 V	Mechanical life	25000 cycles		
Mechanical characteristics           Size (mm) width x height x depth         105 x 160 x 195 (mm)           Weight (kg)         3,85           Environmental characteristics         IP20, IEC 60529           Protection class         IP20, IEC 60529           Storage temperature         -40 +70 °C           Working temperature         -20 +70 °C           Standards         Electrical safety, Contamination level/ class           Standards         IEC 60947-2, IEC 60664-1           Circuit breaker / RCCB         Circuit breaker / RCCB           Assigned frequency (H2)         50 / 60 Hz           Rated nominal voltage (Un)         690 V -           Thermal-magnetic protection         Fixed 10 x in           Magnetic 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 480/500 Vac 50/60 Hz. 46 kA at 525 Vac 50/60 Hz. 46 kA at 480/500 Vac 50/60 Hz. 46 kA at 525 Vac 50/60 Hz. 40 kA at 480/500 Vac 50/60 Hz. 40 kA at 480/500 Vac 50/60 Hz. 20 kA at 440/460 Vac 50/60 Hz. 20 kA at 440/460 Vac 50/60 Hz. 20 kA at 440/460 Vac 50/60 Hz. 22 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 20 kA at 520/500 Hz. 22 kA at 525 Vac 50/60 Hz. 22 kA	Electrical lifetime	10000 cycles 415 V In		
Size (mm) width x height x depth   105 x 160 x 195 (mm)	Insulation voltage, circuit	1000 V		
### Refer Solution and Solution (Fixed 10 x In Fixed 10 x	Mechanical characteristics			
Protection class   Protection class   P20, IEC 60529	Size (mm) width x height x depth	105 x 160 x 195 (mm)		
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 (II) 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. 46 kA at 525 Vac 50/60 Hz. 17 kA at 250 Vdc, reference 50 kA at 380/415 Vac 50/60 Hz. 50 kA at 440/460 Vac 50/60 Hz. 50 kA at 380/415 Vac 50/60 Hz. 24 kA at 480/500 Vac 50/60 Hz. 25 kA at 440/460 Vac 50/60 Hz. 25 kA at 380/415 Vac 50/60 Hz. 25 kA at 440/460 Vac 50/60 Hz. 25 kA at 440/460 Vac 50/60 Hz. 25 kA at 440/460 Vac 50/60 Hz. 50 kA at 380/415 Vac 50/60 Hz. 25 kA at 440/460 Vac 50/60 Hz. 25 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 22 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz.	Weight (kg)	3,85		
Standards  Electrical safety, Contamination level/class  Follution resistance 3  Standards  Electrical safety, Contamination level/class  Follution resistance 3  Standards  Electrical safety, Contamination level/class  Follution resistance 3  Electrical safety, Contamination level/class  Fixed 10 kB  Fixed 10 k In  Fixed 10 k In  Adjustable, 3 settings: 0.8 / 0.9 / 1 k In  Adjustable, 3 settings: 0.8 / 0.9 / 1 k In  Electrical safety, Contamination level/class  Fixed 10 k In  Fixed 10 k In  Fixed 10 k In  Adjustable, 3 settings: 0.8 / 0.9 / 1 k In  Electrical safety, Contamination level/class  Fixed 10 k In  Fixed	Environmental characteristics			
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  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. 46 kA at 525 Vac 50/60 Hz. 17 kA at 660/690 Vac 50/60 Hz. 40 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)  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 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz. 50 kA at 500 Vac 50/60 Hz. 50 kA at 50/6	Protection class	IP20, IEC 60529		
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 (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. 46 kA at 525 Vac 50/60 Hz. 17 kA at 660/690 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)  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. 50 kA at 520 Vdc, reference 50 kA at 500 Vdc (2poles in series), reference breaking capacity (Ics), in DC (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. 50 kA at 525 Vac 50/60 Hz.	Storage temperature	-40 +70 °C		
Electrical safety, Contamination level/class  Standards  IEC 60947-2, IEC 60664-1  Circuit breaker / RCCB  Assigned frequency (Hz)  Rated nominal voltage (Un)  Magnetic adjustment (Ii)  Thermal adjustment (Ir)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Adjustable, 3 settings: 0.8 / 0.9 / 1 x ln  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. 50 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)  AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)  Protection	Working temperature	-20 +70 °C		
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. 46 kA at 525 Vac 50/60 Hz. 17 kA at 500 Vdc (2poles in series), reference breaking capacity (Ics), in DC (IEC 60947-2)  AC ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Icu) (IEC 60947-2)  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.	Standards			
Assigned frequency (Hz)  Rated nominal voltage (Un)  Fixed 10 x In  Magnetic adjustment (Ir)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Mominal current In (A)  Ultimate short-circuit breaking capacity (ICU) / service short-circuit breaking capacity (ICC 60947-2)  AC ultimate short-circuit breaking capacity (ICU) (IEC 60947-2)  AC ultimate short-circuit breaking capacity (ICU) (IEC 60947-2)  Protection	Electrical safety, Contamination level/class	Pollution resistance 3		
Assigned frequency (Hz)  Rated nominal voltage (Un)  Magnetic adjustment (Ii)  Fixed 10 x In  Adjustable, 3 settings: 0.8 / 0.9 / 1 x In  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Dominal current In (A)  Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Ics), in DC (IEC 60947-2)  AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)  Protection	Standards	IEC 60947-2, IEC 60664-1		
Rated nominal voltage (Un)  Thermal-magnetic protection  Magnetic adjustment (Ii)  Fixed 10 x In  Adjustable, 3 settings: 0.8 / 0.9 / 1 x In  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rominal current In (A)  Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Ics), in DC (IEC 60947-2)  AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)  AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)  Protection	Circuit breaker / RCCB			
Thermal-magnetic protection  Magnetic adjustment (Ir)  Fixed 10 x In  Adjustable, 3 settings: 0.8 / 0.9 / 1 x In  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Protection  Fixed 10 x In  Adjustable, 3 settings: 0.8 / 0.9 / 1 x In  Adjustable, 4 settings: 0.8 / 0.9 / 1 x In  Adjustable, 4 settings: 0.8 /	Assigned frequency (Hz)	50 / 60 Hz		
Magnetic adjustment (Ir)  Thermal adjustment (Ir)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  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)  AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)  AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)  Protection	Rated nominal voltage (Un)	690 V ~		
Thermal adjustment (Ir)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rated short-circuit marking capacity (IEC 60947-2) (Icm)  Rated short-circuit marking capacity (ICC 60947-2) (ICC 60947-2) (ICC 60947-2)  Rated short-circuit breaking capacity (ICC) (ICC 60947-2) (ICC	Thermal-magnetic protection			
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)  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.	Magnetic adjustment (Ii)	Fixed 10 x In		
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)  Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Ics), in DC (IEC 60947-2)  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	Thermal adjustment (Ir)	Adjustable, 3 settings: 0.8 / 0.9 / 1 x In		
Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Ics), in DC (IEC 60947-2)  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	Rated short-circuit marking capacity (IEC 60947-2) (Icm)			
breaking capacity (Ics), in DC (IEC 60947-2)  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	Nominal current In (A)	100		
440/460 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac 50/60 Hz.  Protection		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)	440/460 Vac 50/60 Hz. 42 kA at 480/500 Vac 50/60 Hz. 22 kA at 525 Vac		
Circuit breaker type Class A	Protection			
**	Circuit breaker type	Class A		
	**			







Motorised circuit-breaker suitable for residual current protection

Code: P20K61.

MT-TSD

Motorised circuit-breaker suitable for residual current protection

CODE	ТҮРЕ	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







Motorised circuit-breaker suitable for residual current protection

Code: P20K61.

# **Dimensions**



