



## MT6b

### Uni-Directional Synchronous Motor - 500 RPM

#### Design

MT6b is a unidirectional synchronous motor. The direction of the motor is either CW or ccw which is fixed with help of reversing stopper while manufacturing. This nonreversing device also guarantees at all times starting in the desired direction with high starting torque. The motor consists of a cylindrical sheet iron stator which forms the poles. Mounted on the hardened and highly polished rotor shaft is a high coercivity sintered magnet ring around whose circumference 12 poles of alternate polarity are disposed of Special version of the motor without the non-reversing device is also available. In this case, the motor can start in any direction. The motor can be provided with screw or snap clip for fixing.

#### Features

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#### Application

Instrumentation, diamond machinery, peristaltic pumps, motorised displays, programming devices, cam timers, medical equipment, valves and actuators.

#### Options

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#### Standard Data

Parameter	Value	Unit
Motor type	Uni directional synchronous; with mechanical anti return device	-
Ambient temperature operation	-15...+55	°C
Ambient temperature storage	-20...+100	°C
Thermal class	105	°C
Electrical Enclosure	40	IP
Connections	Flexible Leads 22 AWG, 200mm length; ends stripped 10 mm	
Life expectancy	3 years in continuous operation	
Mounting	any position	
HVT	As per standard IEC60034-1	
Weight	100	g
Rotor stalling	Motor can be stopped when voltage is applied, without being overheated	
Rotor shaft Bearings	Hardened steel, ground and polished Polymer	
External dimensions	dia.48x 18.5 mm	

#### Technical Data

Parameter	Value	Unit
Standard Motor Voltages	12,24,110,230 (others on request)	V
Tolerance of voltage	-10...+15% of rated voltage	%
Duty cycle	100	%
Rated frequency	50, 60	Hz
Power output at rated voltage at (50Hz)	0.77	W
Power output at rated voltage at (60Hz)	0.87	W
Speed at (50Hz)	500	RPM
Speed at (60Hz)	600	Rpm
Running torque at rated voltage at (50Hz)	0.9	Ncm
Running torque at rated voltage at (60Hz)	0.8	Ncm
Power consumption at rated voltage at (50Hz)	2.4	W
Power consumption at rated voltage at (60Hz)	1.8	W

# Dimensional Drawing

