



# Motor Series MT6



## Uni-Directional Synchronous Motor

### Application

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

### Design

MT6 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 non reversing 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 form the poles. Mounted on the hardened and highly polished rotor shaft is a high-coercivity sintered magnet ring around whose circumference 10 poles of alternate polarity are disposed. Special version of motor without the non reversing device is also available. In this case the motor can start in any direction.

Motor can be provided with Screw clip for fixing.

### Standard Data

Motor type		Uni directional synchronous; with mechanical anti return device
Ambient temperature operation	°C	-15...+55
Ambient temperature storage	°C	-20...+100
Thermal class	°C	105
Motor speed	rpm	600 @ 50 Hz
Life expectancy		3 years in continuous operation
Mounting		any position
Standard motor voltages	V	12, 24, 110, 220 & 240 (others on request)
HVT		1.5 KV (motor voltage>40V) or 1.5 KV (motor voltage<40V); 30 sec.
Weight	gm	132
Rotor stalling		Motor can be stopped when voltage is applied, without being overheated
Rotor shaft		Hardened steel, ground and polished
Bearings		Poly Acetal
External dimensions		dia. 47 max. x 22.5 mm

### Technical data

Tolerance of voltage	%	-10... +15% of rated voltage	
Duty cycle	%	100	
Rated frequency	Hz	50	60
Power output at rated voltage	W	0.77	0.87
Speed	rpm	600	720
Running torque at rated voltage	gm-cm	50	50
Power consumption at rated voltage	W	2.5	2.7

### Motor Drawing

