

Motor Series **MTR2b**



Reversible Synchronous Motor - 500 RPM

Application

Recorders, Instrumentation, Diamond machinery, Valve Actuators, Light displays, Medical equipment, Air conditioning & refrigeration, Dosing Pumps, Vending machines CCTV Camera positioning, any timing and positioning Application.

Design

MTR2b reversing synchronous motor is of the permanent magnet type with two stator windings, for single phase AC 50/60 Hz. Phase displacement of the excitation current is achieved by connecting a capacitor in series with one of the stator windings. The sense of rotation is determined by the resulting circular rotating field. Electrical reversal of the sense of rotation is effected by means of a single-pole changeover switch. The 12 pole rotor which has a steel shaft polished to a mirror-finish rotates in sintered bronze bearings. Motor can be provided with Mounting plate.

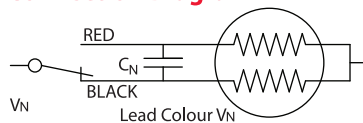
Standard Data

Motor type		Reversible synchronous
Ambient temperature operation	°C	-15...+ 55
Ambient temperature storage	°C	-20...+100
Thermal class	°C	105
Electrical Enclosure	IP	40 as per IEC 60529
Connections		Flexible Leads 32 AWG, 200mm length; ends stripped & tinned 10 mm
Sense of rotation		Indicated by lead colour (red-CW & black ACW)
Life expectancy		3 Years in continuous operation
Mounting		Any position
HVT		As per standard IEC60034-1
Weight	g	30
Rotor stalling		Motor can be stopped when voltage is applied, without being overheated
Rotor shaft		Hardened steel , ground & polished
Bearings		Sintered bronze, self lubricating
External dimensions		dia 20.4 x 17.02 mm

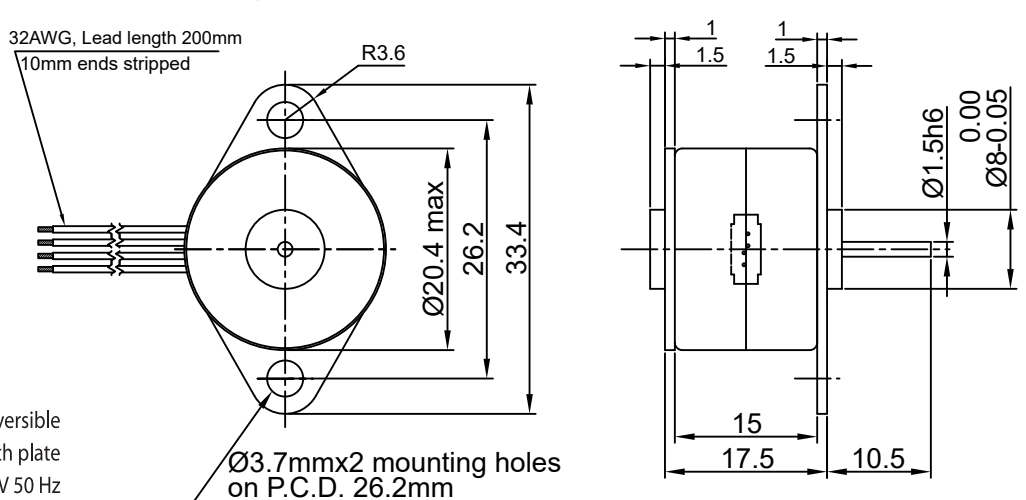
Technical data

Standard Motor Voltages (V _N)	V	12	24
Operation capacitor (50 Hz) C _N	µF/VAC	10/20	2.2/40
Operation capacitor (60 Hz) C _N	µF/VAC	10/20	2.2/40
Lead colour (V _N)		Grey	Blue
Tolerance of Voltage	%	-10...+15% of rated voltage	
Duty Cycle	%	100	
Rated Frequency	Hz	50	60
Power output at rated voltage	W	0.08	0.085
Speed	Rpm	500	600
Running Torque at rated voltage	Ncm	0.15	0.14
Power Consumption at rated voltage	W	1	1
Detent Torque	Ncm	0.12	

Connection Diagram



Dimensional Drawing



Ordering Data (eg.)

