

Motor Series MTR4b

Reversible Synchronous Motor - 500 RPM



Application

Valve Actuators, Light displays, Textile machinery, Medical equipment, Air conditioning & refrigeration, Dampers peristaltic Pumps, Dosing pumps, Vending machines, CCTV Camera positioning, any positioning Application.

Design

MTR4b 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. Electical 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/ Screw clip for fixing.

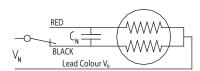
Standard Data

Motor type		Reversible synchronous		
Ambient temperature operation	°C	-15+55		
Ambient temperature storage	°C	-20+100		
Thermal class	°C	105		
Motor speed	rpm	500 @ 50 Hz		
Life expectancy		3 years in continuous operation		
Mounting		any position		
Standard motor voltages	V	24, 48,110, 220 & 240 (others on request)		
HVT		2.0 KV (motor voltage>40V) or 0.6 KV (motor voltage<40V) for 1 min.		
Weight	gm	200		
Rotor stalling		Motor can be stopped when voltage is applied, without being overheated		
Rotor shaft		Hardened steel, ground and polished		
Bearings		Sintered bronze, self-lubricating		
External dimensions		dia. 52 x 28.5 mm		

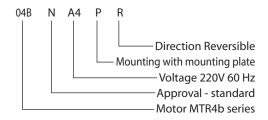
Techinical data

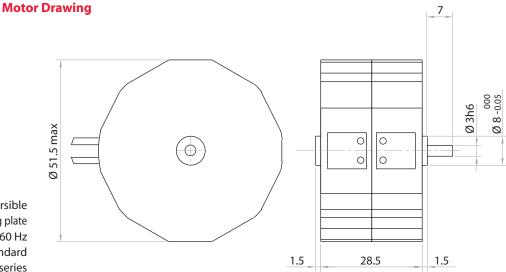
Rated voltage V _N	V	24	48	110	220	240		
Operation capacitor (50 Hz)C _N	μF/VAC	10/50	2.7/100	0.47/250	0.12/400	0.1/400		
Operation capacitor (60 Hz)C _N	μF/VAC	8.2/50	2.2/100	0.39/250	0.1/400	0.082/400		
Lead colour (V _N)		Blue	Brown	White	Yellow	Yellow		
Tolerance of voltage	%	-10+15% of rated voltage						
Duty cycle	%	100						
Rated frequency	Hz			50		60		
Power output at rated voltage	W			0.83		0.87		
Speed	rpm			500		600		
Running torque at rated voltage	gm-cm			160		150		
Power consumption at rated voltage	W			3.6		3.7		
Detent torque	gm-cm	75						

Connection Diagram



Ordering Data





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