

Motor Series MTR3L

Linear AC Actuator - 6.67/8.33 mm/sec



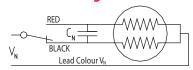
Application

Instrumentation, Machinery, Valve Actuators, Medical Equipment, Dampers, HVAC, Factory Automation, Valves etc.

Design

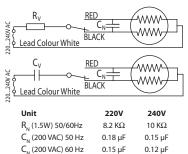
Mtr3L is a linear reversing synchronous motor of the permanent magnet type with two stator windings, for single phase AC 50/60 Hz. Phase displacement of the excitation current is achieved by connecting a capacitor in series with one of the stator windings. Axial movement is determined by the resulting circular rotating field. Electrical reversal of the axial movement is effected by means of a single-pole changeover switch. The 12pole rotor causes to & fro when motor is energised.

Connection Diagram



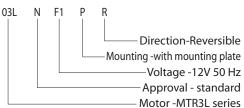
Add on units for 220* & 240* V

220....240 V (V_N motor 110V)



Ordering Data (eg.)

18

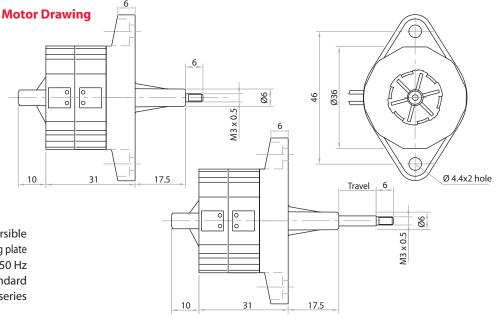


Standard Data

Motor type		Reversible synchronous
Ambient temperature operation	°C	-15+55
Ambient temperature storage	°C	-20+100
Thermal class	°C	105
Linear speed	mm/sec	6.67/8.33 @50Hz
Life expectancy		3 years in continuous operation
Mounting		any position
Standard motor voltages	V	12,24,48,110,220*&240*(others on request)
HVT		2.0 KV (motor voltage>40V) or 0.6 KV (motor voltage<40V) for 1 min.
Weight	gm	90
Rotor stalling		Motor can be stopped when voltage is applied, without being overheated
Rotor shaft		Cu. alloy
Bearings		Ball bearing
External dimensions		dia. 36 x 41 mm

Techinical data

Rated voltage V _N	V	12	24	48	110	220*	240*	
Operation capacitor (50 Hz)C _N	μF/VAC	15/20 3.9/50 1.0/100 0			0.18/200	with add on unit		
Operation capacitor (60 Hz)C _N	μF/VAC	15/20	3.9/50	1.0/100	0.18/200			
Lead colour (V _N)		Grey	Blue	Brown	White	Yellow		
Tolerance of voltage	%	-10+15% of rated voltage						
Duty cycle	%	100						
Rated frequency	Hz			50		60		
Linear speed	mm/sec			6.67/8.33		8/10		
Power consumption at rated voltage	W			1.5		1.5		
Travel	mm	8, 13 mm (other on request)						
Force	kg	2.0 (spec	cial windin	ıg)				



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