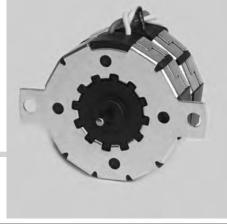


Motor Series MTR3a

Reversible Synchronous Motor - 250 RPM



Application

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

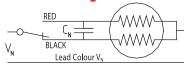
Design

MTR3a 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 parallel with one of the stator windings. The sense of rotation is determined by the resulting circular rotating field. Electrial reversal of the sense of rotation is effected by means of a single-pole changeover switch.

The 24 pole rotor which has a steel shaft polished to a mirror-finish rotates in sintered bronze bearings.

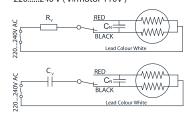
Motor can be provided with mounting plate/screw clip for fixing.

Connection Diagram



Add on units for 220* & 240* V

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



Unit	220V	240V
R _v (1.5W) 50/60Hz	8.2 KΩ	10 KΩ
C _V (200 VAC) 50Hz	0.18 μF	0.15 μF
Cv (200 VAC) 60Hz	0.15 uF	0.12 uF

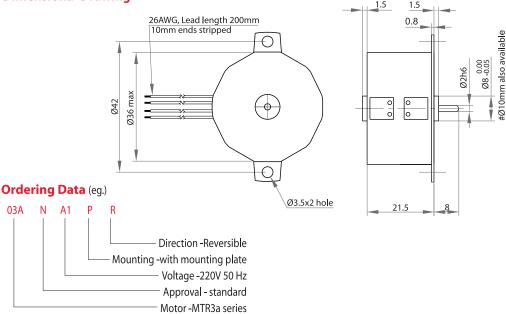
Standard Data

Motor type		Reversible synchronous
Ambient temperature operation	°C	-15+55
Ambient temperature storage	°C	-20+100
Thermal class	°C	105
Electrical Enclosure	IΡ	40
Connections		Flexible Leads 26 AWG, 200mm length; ends stripped 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	65
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. 36 x 21.5 mm

Technical data

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Standard Motor Voltages(V _N)	V	12	24	48	110	230*
Operation capacitor(50 Hz)C _N	μF/VAC	10/20	3.3/50	0.82/100	0.15/ 200	With add on units
Operation capacitor (60Hz) C _N	μF/VAC	10/20	3.3/50	0.82/100	0.15/ 200	
Lead colour (V _N)		Grey	Blue	Brown	White	White
Tolerance of voltage	%	-10+15% of rated voltage				
Duty cycle	%	100				
Rated frequency	Hz	50		60		
Power output at rated voltage	W		0.2		0.25	
Speed	Rpm	250		300		
Running torque at rated voltage	Ncm	0.8		0.8		
Power consumption at rated voltage	W	1.5		1	.5	
Detent Torque	Ncm	0.19				

Dimensional Drawing



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