

Motor Series MTR7a

Reversible Synchronous Motor - 250 RPM



Application

Reversible power drive for actuators, pumps, label printing machines, medical and optical equipment, office machines, automatic vending machines, machine automation

Design

The MTR7a reversing synchronous motor with parmanent magnet rotor is electrically reversible and due to its unique stator design it is moderately priced. The rotating field is produced with a phase-shift capacitor and double-stator with coils thus ensuring extremely quiet running. Long life is guaranteed by the robust design (sintered bronze bearings; self-centering type). The MTR7a is operated with single-phase AC current.

The same motor version can be used at 50Hz and 60Hz.

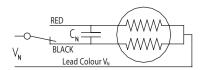
Standard Data

Motor type		Reversible synchronous			
Ambient temperature operation °C		-15+55			
Ambient temperature storage °C		-20+100			
Thermal Class	°C	105			
Motor speed	rpm	250 @ 50 Hz			
Life expectancy		3 years in continuous operation			
Mounting		any position			
Standard motor voltages	V	12,24,48,110,220 & 240			
HVT		2.0 KV (motor voltage>40V) or 0.6 KV (motor voltage<40V) for 1 min.			
Weight	gm	300			
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. 59 x 35 mm			

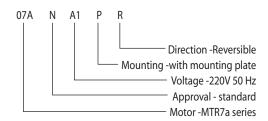
Techinical data

Rated voltage V _N	V	12	24	48	110	220	240	
Operation capacitor (50 Hz)C _N	μF/VAC	56/40	15/50	3.9/100	0.68/250	0.18/400	0.18/400	
Operation capacitor (60 Hz)C _N	μF/VAC	39/40	10/50	2.7/100	0.47/250	0.12/400	0.12/400	
Lead colour (V _N)		Grey	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			2.2		2.1		
Speed	rpm			250		300		
Running torque at rated voltage	gm-cm			600		450		
Power consumption at rated voltage	W			5.8		5.0		
Detent torque	gm-cm	130						

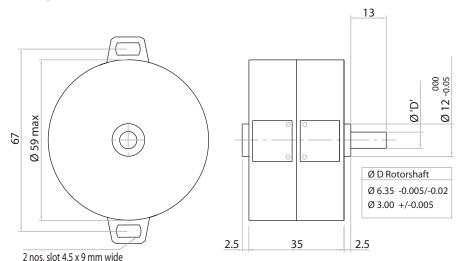
Connection Diagram



Ordering Data



Motor Drawing



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