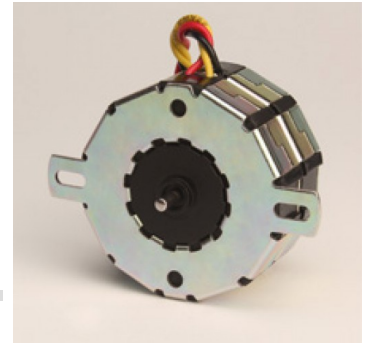




MTR7a



Reversible Synchronous Motor - 250 RPM

Design

The MTR7a a reversing synchronous motor with permanent 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 MTR is operated with single-phase AC current. The same motor version can be used at 50Hz and 60Hz.

Features

The MTR7a a reversing synchronous motor with permanent 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 MTR is operated with single-phase AC current. The same motor version can be used at 50Hz and 60Hz.

Application

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

Options

The MTR7a a reversing synchronous motor with permanent 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 MTR is operated with single-phase AC current. The same motor version can be used at 50Hz and 60Hz.

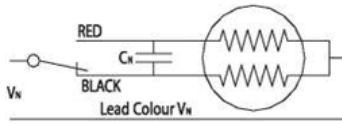
Standard Data

Parameter	Value	Unit
Motor type	Reversible synchronous	
Ambient temperature operation	-15...+55	°C
Ambient temperature storage	-20...+100	°C
Thermal class	105	°C
Electrical Enclosure	40	IP
Connections	Flexible Leads 22 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	300	g
Rotor stalling	Motor can be stopped when voltage is applied, without being overheated	
Rotor shaft	Hardened steel, ground and polished	
Bearings	dia. 59x35 mm	

Technical Data

Parameter	Value	Unit
Standard Motor voltage (VN)	12, 24, 48, 110, 230	V
Operation capacitor (50 Hz)CN at 12v	56/40	µF/VAC
Operation capacitor (50 Hz)CN at 24v	15/50	µF/VAC
Operation capacitor (50 Hz)CN at 48v	3.9/100	µF/VAC
Operation capacitor (50 Hz)CN at 110v	0.68/250	µF/VAC
Operation capacitor (50 Hz)CN at 230v	0.18/400	µF/VAC
Operation capacitor (60 Hz)CN at 12v	39/40	µF/VAC
Operation capacitor (60 Hz)CN at 24v	10/50	µF/VAC
Operation capacitor (60 Hz)CN at 48v	2.7/100	µF/VAC
Operation capacitor (60 Hz)CN at 110v	0.47/250	µF/VAC
Operation capacitor (60 Hz)CN at 230v	0.12/400	µF/VAC
Lead colour (VN) Grey (12v)	Grey	
Lead colour (VN) Blue (24v)	Blue	
Lead colour (VN) Brown (48v)	Brown	
Lead colour (VN) White (110v)	White	
Lead colour (VN) Yellow (230v)	White	
Tolerance of voltage	-10... +15% of rated voltage	%
Duty cycle	100	%
Rated frequency	50, 60	Hz
Power output at rated voltage at (50Hz)	2.14	W
Power output at rated voltage at (60Hz)	1.94	W
Speed at (50Hz)	250	Rpm
Speed at (60Hz)	300	Rpm
Running torque at rated voltage at (50Hz)	7.2	Ncm
Running torque at rated voltage at (60Hz)	6.2	Ncm
Power consumption at rated voltage at (50Hz)	5.8	W
Power consumption at rated voltage at (60Hz)	5	W
Detent torque at (50Hz)	1.3	Ncm
Detent torque at (60Hz)		Ncm

Connection Diagram



Dimensional Drawing

