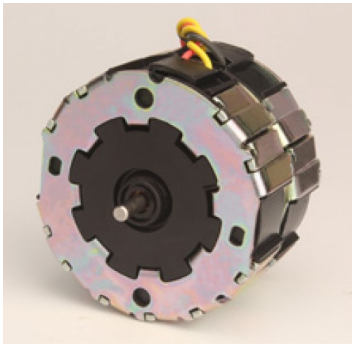
MTR8c



Reversible Synchronous Motor - 375 RPM

Design

The MTR8c 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 MTR8C is operated with singlephase AC current The same motor version can be used at 50Hz and 60Hz Various windings of motor are available that are tailored to specific requirements.

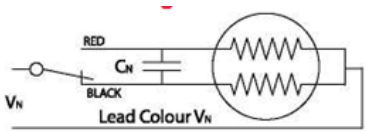
Standard Data

Parameter	Value	Unit
Motor type	Reversible synchronous	-
Ambient temperature operation	-15...+55	°C
Ambient temperature storage	-20...+100	°C
Thermal class	130	°C
Electrical Enclosure	40	IP
Connections	Flexible Leads 22 AWG, 200mm length; ends stripped 10mm	-
Sense of rotation	Indicated by lead colour (red-CW & black ACW)	-
Life expectancy	3 Years in continuous operation	
Mounting	any position	
Weight	450	g
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 & self centering	
External dimensions	dia. 66.4 x 40.4 mm	
HVT	As per standard IEC60034-1	

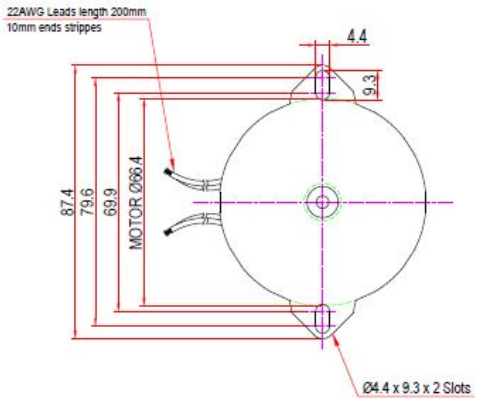
Technical Data

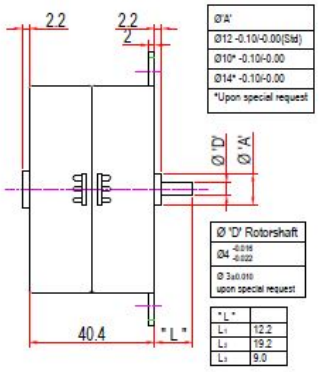
Parameter	Value	Unit
Standard Motor voltage V	24, 110, 230	V
Operation capacitor	24V- 30/63 , 110V- 1.33/250, 230V- 0.27/500	µF/VAC
Operation capacitor	24V- 30/63, 110V- 1.33/250, 230V- 0.27/500	µF/VAC
Lead colour (VN)	24- Blue, 110- White, 230V- Yellow	-
Tolerance of voltage	-10...+15% of rate voltage	%
Duty Cycle	100	%
Rated frequency Speed	50, 60	Hz
Speed	375, 450	Rpm
Power consumption at rated voltage at	10.5, 8.5	W
Running torque at rated voltage	9.5, 9.7	Ncm
Intermittent Duty cycle	90(90min), 70(60min), 90(90min), 70(60min))	%
Power output at VN	4.6, 7.3, 4.9, 8	W
Power consumption at VN	11.5, 18, 12.5, 20	W
Running torque at rated voltage	12, 18.5, 10.5,17	Ncm
Detent torque	2	Ncm

Connection Diagram



Dimensional Drawing





Stepper Motor 15°

Spur Reduction Gearheads -6Nm