Logo

Design Release
Motor Series MTR8c

Reversible Synchronous Motor- 375 RPM

PHOTO

Application

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

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 single-phase AC current.
The same motor version can be used at 50Hz and 60Hz

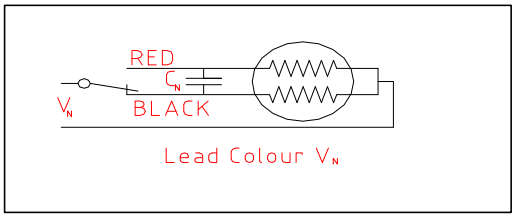
Standard Data

Motor type		Reversible synchronous
Ambient temperature operation	°C	-15...+55
Ambient temperature storage	°C	-20...+100
Thermal class	°C	130
Motor speed	rpm	375 @ 50 Hz
Life expectancy		3 years in continuous operation
Mounting		any position
Standard motor voltages	V	24,110,220 & 240
HVT		2.0KV (motor voltage>40V) or 0.6KV (motor voltage<40V); for 1min
Weight	gm	500
Temperature rise above ambient	°C	Up to 80º C max.
Rotor shaft		Hardened steel, ground and polished
Bearings		Sintered bronze,self-lubricating, self centering
External dimensions	mm	Dia 66.4 X 40.4

Techinical data

Rated voltage V_N	V	24	110	220	240
Operation capacitor (50 Hz)C_N	µF/VAC	27	1.2	0.33	0.27
Operation capacitor (60 Hz)C_N	µF/VAC				
Lead colour (V_N)		Blue	White	Yellow	Yellow
Tolerance of voltage	%	-10... +15% of rated voltage			
Rated frequency	**Hz**	**50**		**60**	
Speed	rpm	375		450	
Duty cycle	%	100	10 (5min max)	100	10 (5min max)
Power output at V_N	W	4	12	4	12
Power consumption at V_N	W	10	30	10	30
Running torque at rated voltage	gm-cm	800 / 1400	1600 / 3000	800 / 1400	1600 / 3000
Detent torque	gm-cm	180 OR 750			

Connection Diagram



Ordering Data (e.g.)

08C N A1 P R

- Direction -Reversible
- Mounting -with mounting plate
- Voltage -220V 50 Hz
- Approval - standard
- Motor -MTR8c series

Motor Drawing