

Datasheet

Uni-Directional Synchronous Motor - 375 RPM

RS Stock No: 9180874



Application

Timers, Chart recorders, Potentiometer Drives, light Displays, Hour Meterd, Cam Timers, Programming devices and control instrumentation.

Design

MT0 is a unidirectional motor with a cylindrical sheet-iron stator in which the field poles form the stator ring. In combination with the auxiliary poles (provided with copper shading rings) a rotating field is generated when the coil is energized.

The rotor turns in sintered bushings requiring no maintenance. The motor shaft is polished to a mirror finish. Motor can be provided with screw clip for fixing.

Standard Data

| | | |
|-------------------------------|-----|--|
| Motor type | | Uni directional synchronous; with electrical shading |
| Ambient temperature operation | °C | -15...+55 |
| Ambient temperature storage | °C | -20...+100 |
| Thermal class | °C | 105 |
| Motor speed | rpm | 375 @ 50 Hz |
| Life expectancy | | 3 years in continuous operation |
| Mounting | | any position |
| Standard motor voltages | V | 12,24,110,220&240 (other on request) |
| HVT | | 2.0 KV (motor voltage>40V) or 0.6 KV (motor voltage<40V) for 1 min. |
| Weight | gm | 100 |
| 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. 42 x 18 mm |

Technical data

| | | | |
|------------------------------------|-----------|-----------------------------|-----------|
| Tolerance of voltage | % | -10...+15% of rated voltage | |
| Duty cycle | % | 100 | |
| Rated frequency | Hz | 50 | 60 |
| Speed | rpm | 375 | 450 |
| Running torque at rated voltage | gm-cm | 5 | 4 |
| Power consumption at rated voltage | W | 1.4 | 1.5 |

Motor Drawing

