

Turtable Synchronous AC motor

The SY 31 series a low speed synchronous motor is a development of standard industrial series specifically designed for use in high quality record decks which utilize the belt drive principle.

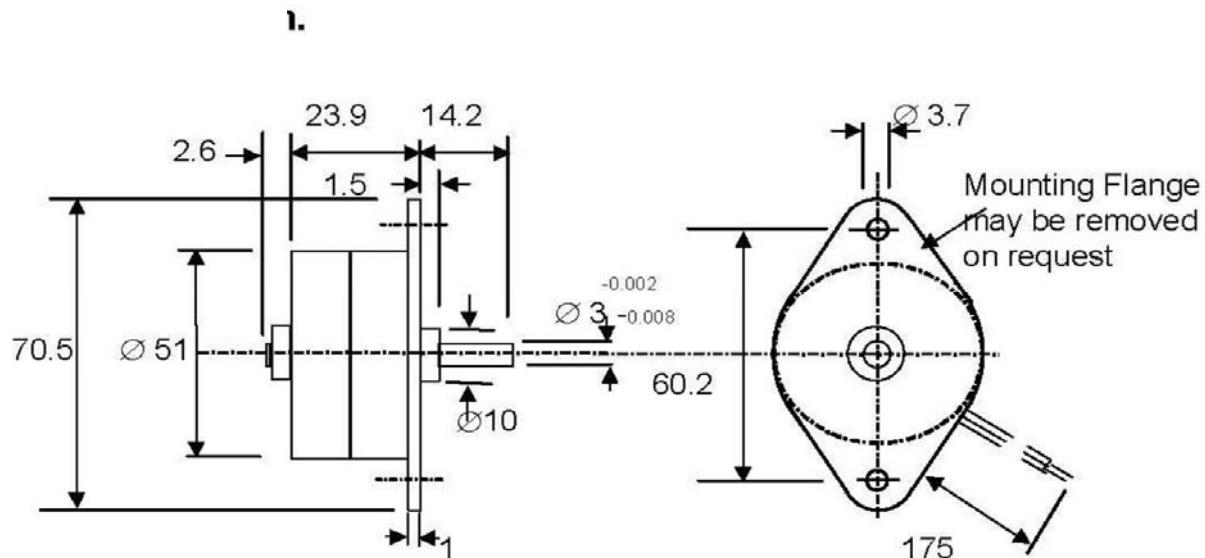
Particular attention has been given to the magnetization of the 24 pole rotor to optimize smooth running. This together with the high accuracy of stator pole placement minimizes torque ripple and provides low audible noise.

The motor which is designed for mounting horizontally with output shaft vertically up is provided with an increased shaft length and a 3 mm diameter to aid the fitment of the drive pulley. When fitting the drive pulley the shaft rear end should be supported to ensure the axial load limitation is not exceeded.

The winding have been specially designed to facilitate dual voltage operation, a 6.8K resistor being used in series when operation from a 220/240 Vac supply is required.

Applications:**Motor Dimensions**

* High quality turntable which utilize belt drive platter.

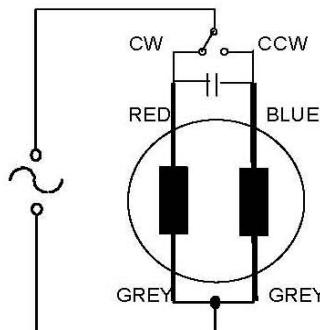
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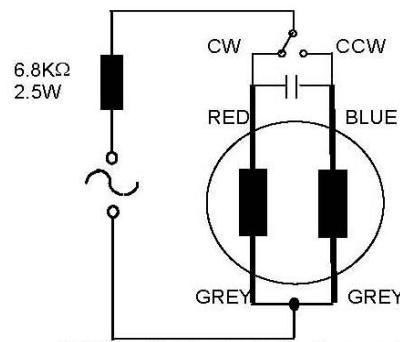
MOTOR TECHNICAL DATA

| Ordering Part Number | 9904 111 | | 31813 |
|---|-------------|-----------------|-------------|
| Nominal voltage | V | 120 | |
| Input frequency | Hz | 50 | 60 |
| Nominal torque | mNm | | 10 |
| Nominal speed | rev/Min | 250 | 300 |
| Input power | W | | 1.8 |
| Speed no load | rev/Min | 250 | 300 |
| Direction of rotation | | reversible | |
| Rotor resistance measured without brushes | Ohm | 4460 | |
| Current at nominal voltage | | 18 | |
| Starting Current @ rated Voltage | mA | 30 | |
| Max voltage | V | -15 to +10 % | |
| Ambient temperature range | | | |
| * Operating | °C | -5 +50 | |
| *Storage | °C | -20+70 | |
| Insulation according to CEE 10 | | class 2 | |
| Insulation test voltage | V | 2500 | |
| Bearing | | slide | |
| Special feature Rear bearing | | slide | |
| Max radial force | N | 5 | |
| Max axial force | N | 1.5 | |
| Mass | g | 160 | |
| Require Phase capacitor 250 V AC rating | 110V /50 Hz | 0.2μF ±10% | 0.18μF± 10% |
| Require series resister | 220V/50Hz | 6.8 KΩ 2.5Walls | |
| Require Phase capacitor 250 V AC rating | | 0.2μF ±10% | 0.18μF± 10% |

Connections



110 V ac-50Hz : C=0.22μF :speed = 250 rpm
 117 V ac-60Hz: C= 0.18μF :speed = 300 rpm



220 Vac 50 Hz: C= 0.22μF speed = 250 rpm