

# 9904 111 318XX Series - 250 rpm Synchronous Motor

The 318 series low speed synchronous motor range is a specially designed for use in high quality record decks using the belt drive principle.

Particular attention has been given to the magnetisation of the 24 pole rotor to optimise smooth running. Together with the high accuracy of stator pole placement minimises torque ripple and provides low audible noise.

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

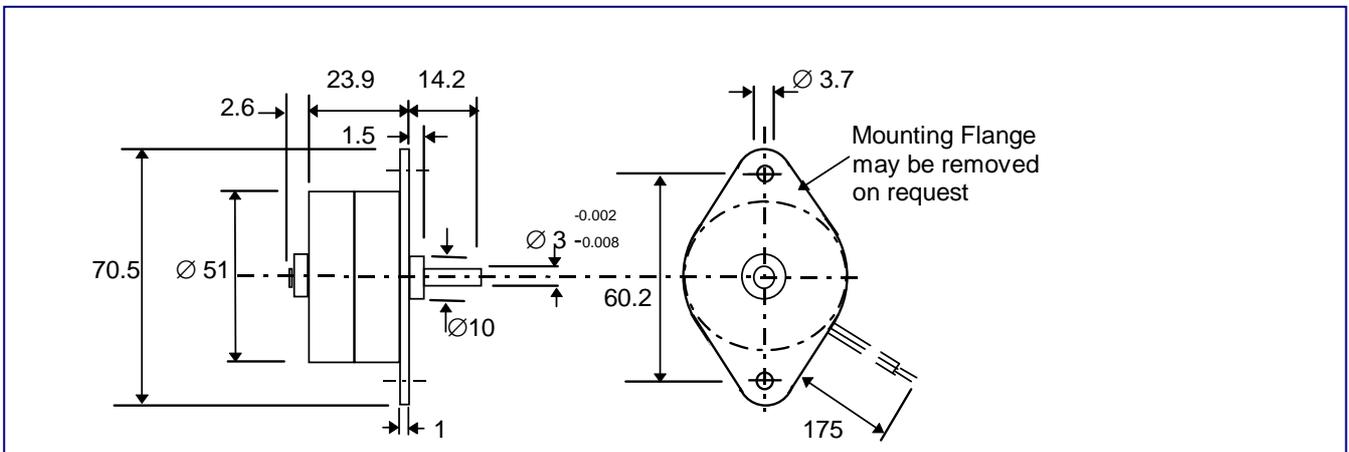
The following variants are available:

- 9904 111 31813 – 110 / 220 Volt AC 50 Hz
- 9904 111 31823 – 24 Volt AC 50 Hz
- 9904 111 31827 – 12 Volt AC 50Hz



The windings of the 9904 111 31813 motor has been specifically designed for dual voltage operation, a 6.8K Ohm resistor used in series when operation from a 220 Vac supply is required.

## Dimensions mm.



## Specification

Nominal Voltage (31813) (31823) (31827)	Vac	110 24 12	Max Working temperature	deg. C	105
Permissible voltage fluctuation	%	-15 / +10	Ambient temperature range	deg. C	-5 to +70
Supply Frequency	Hz	50	Torque derating	%/°C	0.25
Speed @ 50 Hz	rpm	250	Insulation according to CEE10		Class 2
Direction of rotation		reversible	Insulation test voltage	V	2500
Direction control capacitor	μ F	See table below	Maximum radial force	N	5
Input Power	W	1.8	Maximum axial force	N	1.5
Input current	mA	18	Mass	g	16
Housing		zinc plated	Bearings		slide

## Connections

