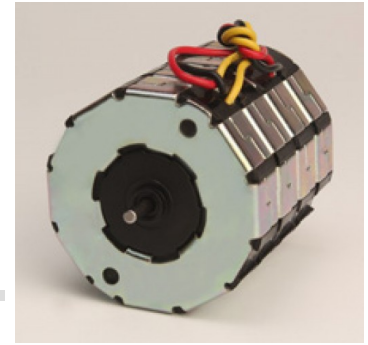




MTSD4b

Stepper Motor 15°



Design

15° MTSD4b - Permanent magnet stepper motor with simple mechanical structure. Clawpole principle (Tin Can) with 2 stator halves. Self lubricated sinteres sleeve with long life expectancy.

Features

15° MTSD4b - Permanent magnet stepper motor with simple mechanical structure. Clawpole principle (Tin Can) with 2 stator halves. Self lubricated sinteres sleeve with long life expectancy.

Application

Analytical instrumentation.

Options

15° MTSD4b - Permanent magnet stepper motor with simple mechanical structure. Clawpole principle (Tin Can) with 2 stator halves. Self lubricated sinteres sleeve with long life expectancy.

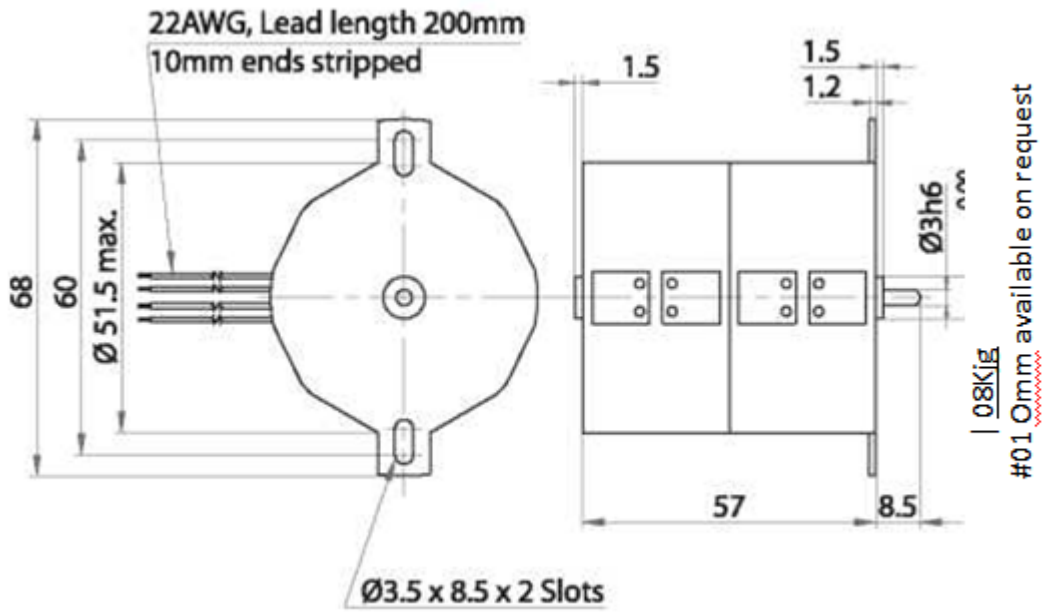
Standard Data

Parameter	Value	Unit
Motor type	Permanent Magnet (PM) stepper motor	
Electrical Enclosure	40	IP
Life expectancy	3 Year in Continuous operation	
Connections	Flexible leads 22 AWG, 200mm length, end striped 10mm	
Weight	400	g
Mounting	Any position by ears or screw clip	

Technical Data

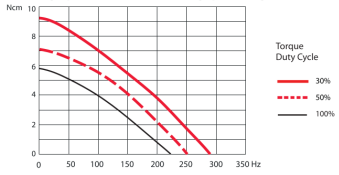
Parameter	Value	Unit
Steps per revolution	24	
Degree/step	15	
Winding type	bipolar	
Standard Voltage	6, 12, 24	V
Resistance per winding at 6V - (Bipolar)	5	Ω
Resistance per winding at 12V - (Bipolar)	26	Ω
Resistance per winding at 24V - (Bipolar)	122	Ω
Resistance per winding at 6V - (Unipolar)	8	Ω
Resistance per winding at 12V - (Unipolar)	30	Ω
Resistance per winding at 24V - (Unipolar)	122	Ω
Winding temperature	105 Max	°C
Holding torque	10, (MTSD4b), 7.2, (MTSDU4b)	Ncm
Axial Force at 10		Ncm
Axial Force at (MTSDB4b)	3	Ncm
Axial Force at 7.2		Ncm
Axial Force at (MTSDU4b)		Ncm
Lateral Force at 10		Ncm
Lateral Force at (MTSDB4b)	6	N
Lateral Force at 7.2		N
Lateral Force at (MTSDU4b)		
Rotor inertia at 10		gcm ²
Rotor inertia at(MTSDB4b)	26	
Rotor inertia at 7.2		
Rotor inertia at (MTSDU4b)		

Dimensional Drawing

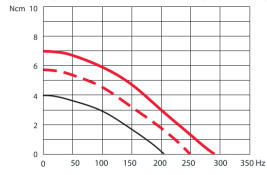


Torque Graphs

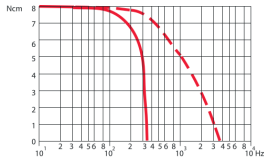
Start range (pull-in) with constant voltage power stage



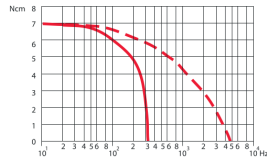
Start range (pull-in) with constant voltage power stage



2-Phase stepper Motor MTSD84b



4-Phase Stepper Motor MTSDU4b



Slew range (pull-out) and start range (pull-in) with constant current power stage (chopper Drive)

Slew range (pull-out) and start range (pull-in) with constant current power stage (chopper Drive)