MTS3b

Stepper Motor 15°

Design

15° MTS3b- 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° MTS3b- 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

Clocks, Valve actuators, Scientific Instrumentation, Light automation.

Options

15° MTS3b- Permanent magnet stepper motor with simple mechanical structure. Clawpole principle (Tin Can) with 2 stator halves. Self lubricated sinteres sleeve with long life expectancy.

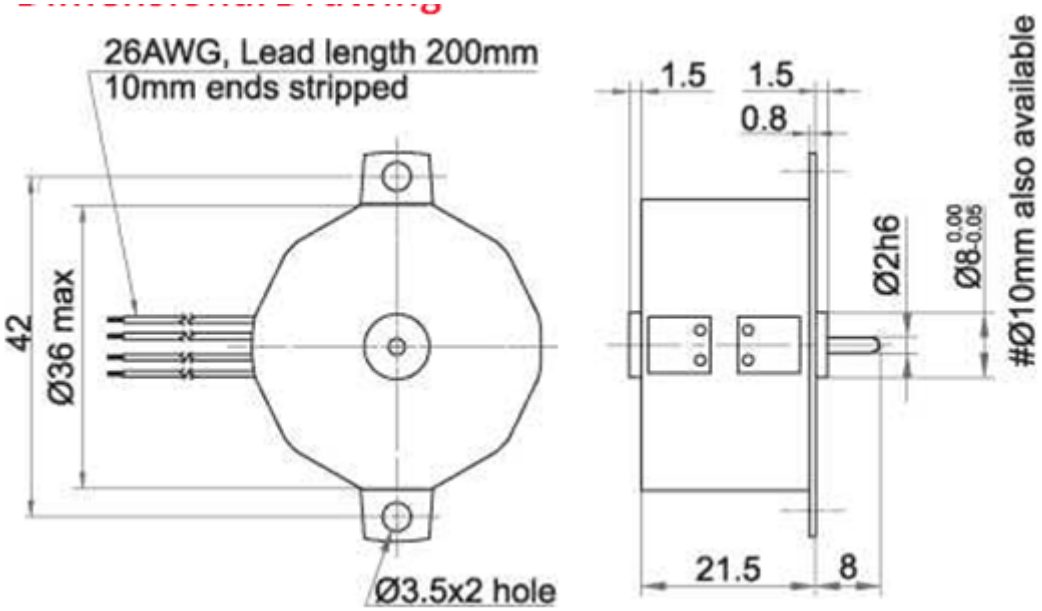
Standard Data

Parameter	Value	Unit
Motor type	Permanent Magnet (PM) stepper motor	
Electrical Enclosure	40	IP
Life expectancy	3 Year in Continuous operation	
Connections	Flexible leads 26 AWG, 200mm length, end striped 10mm	
Weight	65	g
Mounting	Any position by ears or screw clip	

Technical Data

Parameter	Value	Unit
Steps per revolution	24	
Degree/step	15	
Winding type	bipolar, unipolar	
Standard Voltage	3, 6, 12, 24	V
Resistance per winding at 3V - (Bipolar)	11.5	Ω
Resistance per winding at 6V - (Bipolar)	18.5	Ω
Resistance per winding at 12V - (Bipolar)	100	Ω
Resistance per winding at 24V - (Bipolar)	460	Ω
Resistance per winding at 3V - (Unipolar)	12	Ω
Resistance per winding at 6V - (Unipolar)	28.5	Ω
Resistance per winding at 12V - (Unipolar)	120	Ω
Resistance per winding at 24V - (Unipolar)	500	Ω
Winding temperature	105 max	°C
Holding torque	1.4, (MTSB3b), 1, (MTSU3b)	Ncm
Axial Force at 1.4		Ncm
Axial Force at (MTSB3b)	1	Ncm
Axial Force at 1		Ncm
Axial Force at (MTSU3b)		Ncm
Lateral Force at 1.4		Ncm
Lateral Force at (MTSB3b)	2	N
Lateral Force at 1		N
Lateral Force at (MTSU3b)		
Rotor inertia at 1.4		gcm2
Rotor inertia at(MTSB3b)	2.9	
Rotor inertia at 1		
Rotor inertia at (MTSU3b)		

Dimensional Drawing



Torque Graphs