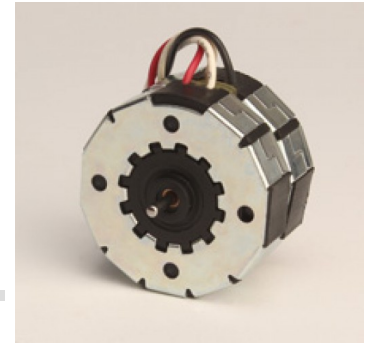




MTS3a



Stepper Motor 7.5°

Design

7.5° MTS3a- 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

Yarn Movement, Level Switches, Valve Actuators.

Standard Data

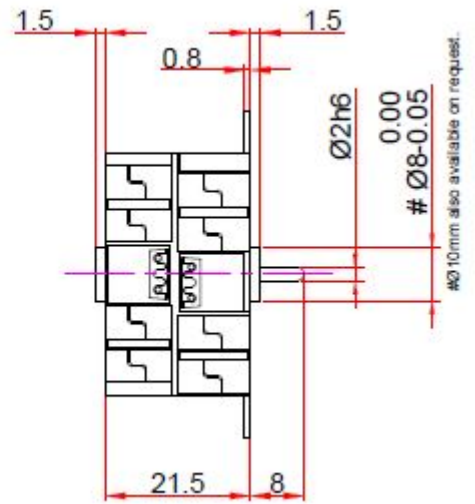
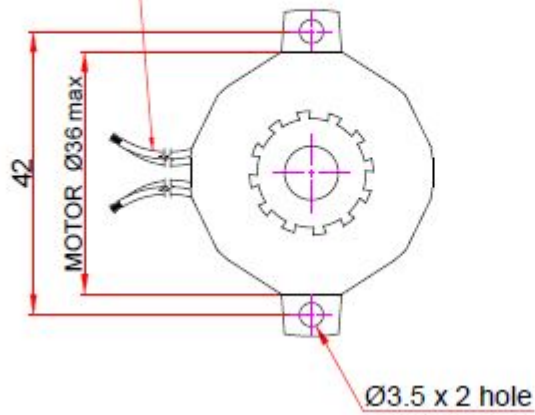
Parameter	Value	Unit
Motor type	Permanent Magnet (PM) stepper motor	
Electrical Enclosure	40	IP
Life expectancy	3 Year in Continuous operation	
Connections	Flexible leads 26 AWG, 200mm length, end striped 10mm	
Weight	65	g
Mounting	Any position by ears or screw clip	

Technical Data

Parameter	Value	Unit
Steps per revolution	48	
Degree/step	7.5	
Winding type	bipolar, unipolar	
Standard Voltage	3, 6, 12, 24	V
Resistance per winding (Bipolar)	11.5, 18.5, 100, 460	Ω
Resistance per winding (Unipolar)	12. 28.5, 120, 500	Ω
Winding temperature	105 max.	°C
Holding torque	1.6 (MTSB3a), 1.2 (MTSU3a)	Ncm
Axial Force	1	N
Lateral Force	3	N
Rotor inertia	2.9	gcm ²

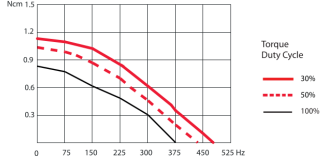
Dimensional Drawing

26AWG Leads length 200mm
10mm ends stripped

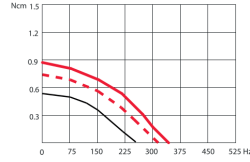


Torque Graphs

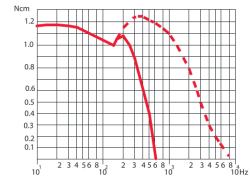
Start range (pull-in) with constant voltage power stage



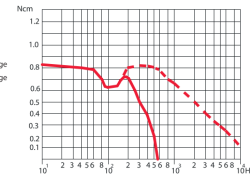
Start range (pull-in) with constant voltage power stage



2-Phase stepper Motor MTSB3a



4-Phase Stepper Motor MTSU3a



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)