

Motor Series MTS7a

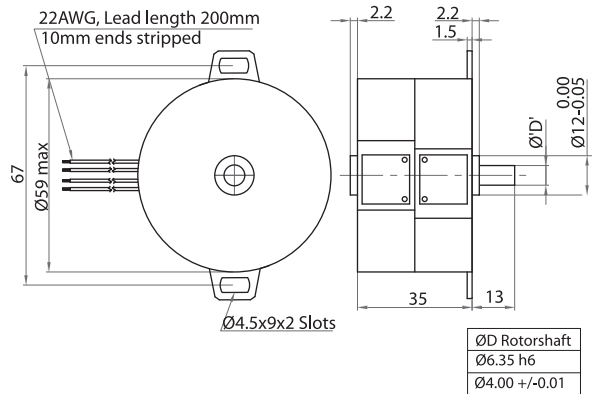
Stepper Motor 7.5°



Standard Data

Motor type		Permanent Magnet (PM) stepper motor
Electrical Enclosure	IP	40
Connections		Flexible Leads 22 AWG, 200mm length; ends stripped 10 mm
Life expectancy		3 years in continuous operation
Weight	g	300
Mounting		Any position by ears or screw clip

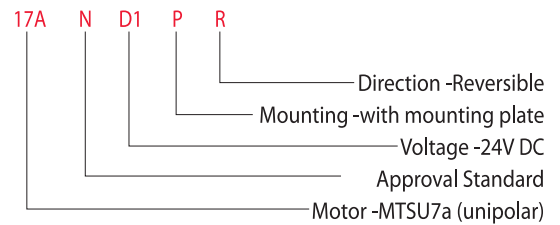
Dimensional Drawing



Technical Data

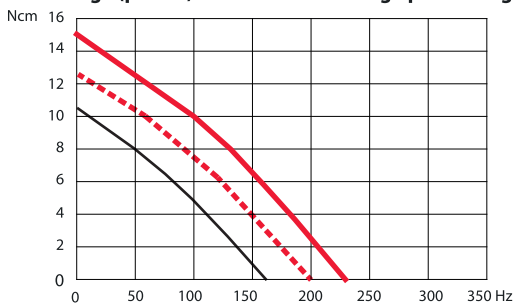
Steps per revolution				48
Degree/step				7.5
Winding Type				bipolar
Standard Voltage	V	6	12	24
Resistance per winding	Ω	6.8	36	168
Winding Type				unipolar
Standard Voltage	V	6	12	24
Resistance per winding	Ω	10	45	190
Winding temperature	°C			105 max.
Holding torque	Ncm	17.1	(MTSB7a)	13 (MTSU7a)
Axial Force	N			5
Lateral Force	N			12
Rotor inertia	gcm ²			65

Ordering Data (eg.)

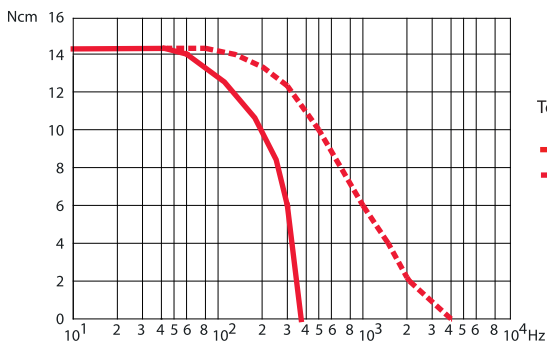


Torque Graphs

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

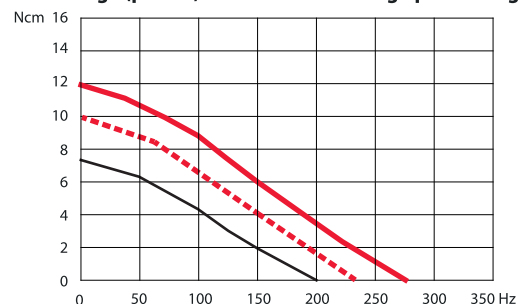


2-Phase stepper Motor MTSB7a

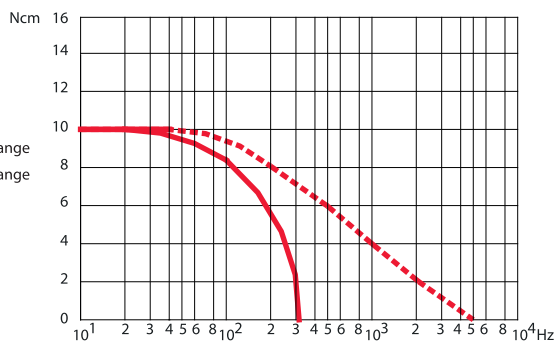


Slew range (pull-out) and start range (pull-in) with constant current power stage (chopper Drive)

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



4-Phase Stepper Motor MTSU7a



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