

# Motor Series **MTSD4b**

## Stepper Motor 15°



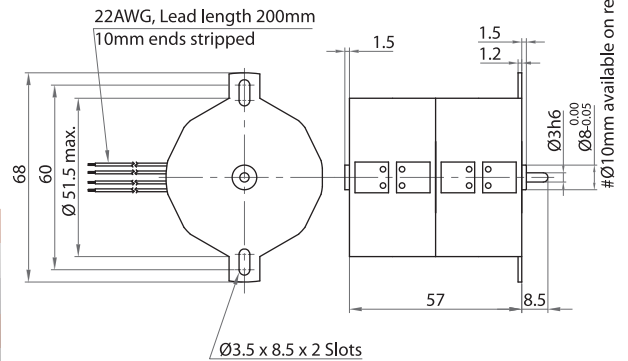
### Standard Data

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	400
Mounting		Any position by ears or screw clip

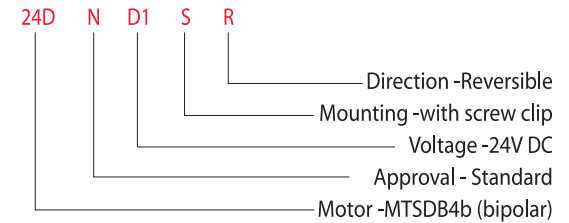
### Technical Data

Steps per revolution		24		
Degree/step		15		
Winding Type		bipolar		
Standard Voltage	V	6	12	24
Resistance per winding	$\Omega$	5	26	122
Winding Type		unipolar		
Standard Voltage	V	6	12	24
Resistance per winding	$\Omega$	8	30	122
Winding temperature	$^{\circ}\text{C}$	105 max.		
Holding torque	Ncm	10	(MTSDB4b)	7.2 (MTSDU4b)
Axial Force	N	3		
Lateral Force	N	6		
Rotor inertia	$\text{gcm}^2$	26		

### Dimensional Drawing

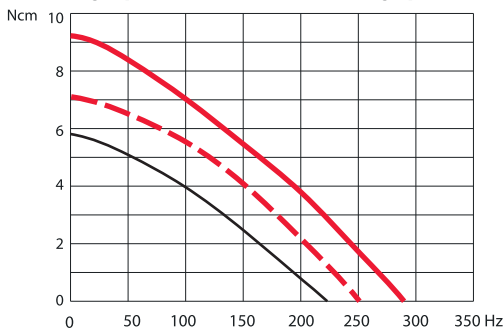


### Ordering Data (eg.)

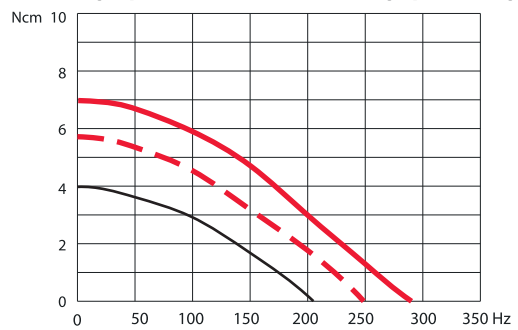


### Torque Graphs

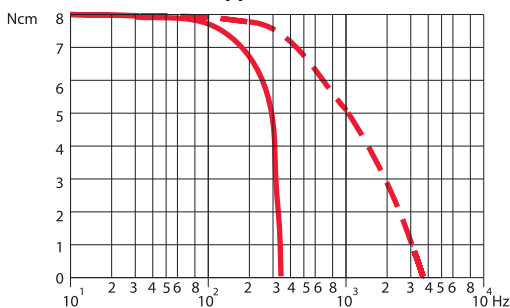
Start range (pull-in) with constant voltage power stage



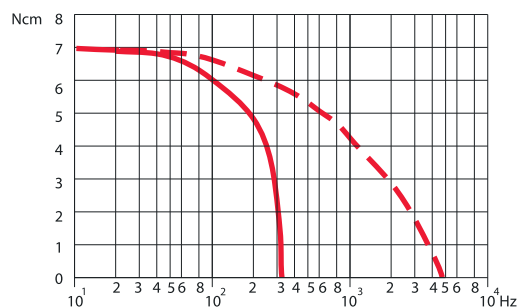
Start range (pull-in) with constant voltage power stage



2-Phase stepper Motor MTSDB4b



4-Phase Stepper Motor MTSDU4b



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

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