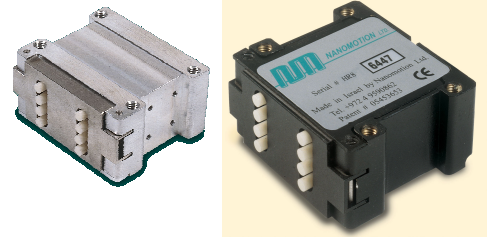


HR-8 Servo Motor

Performance

Maximum Allowable Velocity:	250 [mm/sec]
Dynamic Stall Force:	30 to 36 [N]
Static Holding Force	28 [N] (reference value)
Non-Energized Stiffness	3.3 to 3.8 [N/m]
Nominal Preload on Stage	144 [N]
Kf	2 to 8 [N/Volt command] - Driver and command dependant
Kfv	120 to 144 [N · sec/m]
Offset	1 to 2 [V] - Driver dependant
Attainable Resolution	Better than 100 nm – See application notes
Nominal Lifetime	20,000 hours under nominal operating conditions



Electrical

Maximal Voltage:	270Vrms, 39.6KHz, sine wave
Maximal Current consumption:	600 mA rms (Cable length dependant)
Maximal Power Consumption:	30W

Environmental

Ambient Temperature:	0 - 50°C
Storage:	-40°C - +70°C
Humidity:	0 - 80% non condensing
Vacuum level (high-vacuum motors):	10 ⁻⁷ Torr (guaranteed only after baking)
Vacuum level (ultra-high-vacuum motors):	10 ⁻¹⁰ Torr (guaranteed only after baking)
Maximal Baking Temperature (vacuum)	120°C (140°C for ultra high vacuum motor)

Physical Dimensions

Length:	41.9 mm
Width:	46.6 mm
Height:	23.8 mm
Weight:	120 g high & ultra high vacuum motors 170g standard motors

