

Specification: Inertial Actuator IFX15-100

Rated Force:

50 N peak at 12 Watt at 70 Hz, with coil at 20°C, due to displacement limit. (mounted on a 50 lb block) 50 N peak at 12 Watt at 70 Hz, with coil at 140°C. 15 Newtons per Ampere at 70 Hz; 3 Newtons per Ampere above 180 Hz, with coil at 140°C. The force constant is independent of the direction and amount of current.

Electrical:

Coil resistance: .9 Ohm Inductance: .1 mH

Temperature:

Drop in force constant for 100°C rise: 10% Increase in resistance for 100°C rise: 39% Internal temperature rise at 14 Watt input: 120°C Max internal temperature: 140°C

Static Armature Stiffness:

Internal spring constant: 25 Newtons per mm Resonance frequency of armature 64 Hz. (unit mounted on a 50 lb block)

Mechanical:

Max armature amplitude: ± 1.6 mm (internal hard stops) Total weight: 245 grams. Armature weight: 160 grams. Dimensions: See drawing Mounting: Two holes Ø.172" Housing completely closed, no external moving parts

Fatigue Life:

Infinite fatigue life

Stray Magnetic Field:

Mounting surface: .03 Tesla max





