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)
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

![Diagram of the actuator dimensions]