Specification: **Inertial Actuator IFX200-100**

**Rated Force:**
- 330 N peak at 18 Watt at 130 Hz, with coil at 20°C, due to displacement limit. (mounted on a ≥ 50 lb block)
- 250 N peak at 18 Watt at 130 Hz, with coil at 140°C.
- 100 Newtons per Ampere at 130 Hz; 16 Newtons per Ampere above 300 Hz, with coil at 140°C.
The force constant is independent of the direction and amount of current.

**Electrical:**
- Coil resistance: 4.2 Ohm
- Time constant: ≤ .3 millisec

**Temperature:**
- Drop in force constant for 100°C rise: 10%
- Increase in resistance for 100°C rise 39%
- Internal temperature rise at 18 Watt input: 120°C
- Max internal temperature: 140°C

**Static Armature Stiffness:**
- Internal spring constant: 275 Newtons per mm
- Resonance frequency of armature 136 Hz (unit mounted on a ≥ 50 lb block)

**Mechanical:**
- Max armature displacement: ± 1.2 mm (internal hard stops)
- Total weight: .70 Kg. Armature weight: .417 Kg
- Dimensions: 48 mm diameter, 87 mm long
- Mounting: Single center screw 1/4-28 UNF
- Housing completely sealed, no external moving parts.

**Fatigue Life:**
- Infinite life

**Stray Magnetic Field:**
- Mounting surface: .03 Tesla max. Cylinder surface: .02 Tesla max