Specification: **Inertial Actuator IFX20-100**

**Rated Force:**
- 28 N peak at 50 Hz, with coil at 20°C, due to displacement limit. (mounted on a 20 lb block)
- 30 N peak at 13 Watt at 50 Hz, with coil at 140°C.
- 23 Newtons per Ampere at 30 Hz; 8.1 Newtons per Ampere above 100 Hz, with coils at 140°C.
The force constant is independent of the direction and amount of current.

**Electrical:**
- Coil resistance: 2.2 Ohm
- Inductance: .8 mH

**Temperature:**
- Drop in force constant for 100°C rise: 20%
- Increase in resistance for 100°C rise: 39%
- Internal temperature rise at 10 Watt input: 120°C (mounted on 100 square X 2 cm thick aluminum)

**Static Armature Stiffness:**
- Internal spring constant: 4.6 Newtons per mm
- Resonance frequency of armature 27 Hz (Unit mounted on a 20 lb block)

**Mechanical:**
- Max armature displacement: ± 1.5 mm (internal hard stops)
- Total weight: .41 Kg. Armature weight: .185 Kg
- Dimensions: 48 mm diameter. 44 mm long
- Mounting: Four 10-24 screws
- Housing completely sealed, no external moving parts.

**Fatigue Life:**
- Infinite fatigue life

**Stray Magnetic Field:**
- Mounting surface: .04 Tesla max