Tel: (661)257-4995 Fax: (661)257-4993

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  $\geq$  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 armsture 136 Hz (unit mounted on a  $\geq$  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







