MoTran® Industries, Inc.
29017 Avenue Penn, Valencia, CA 91355
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Specification: **Inertial Actuator IFX10-200**

Rated Force:
22 N peak at 50 Hz, with coils at 20°C, due to displacement limit. (mounted on a 20 lb block)
19 N peak at 10 Watt at 50 Hz, with coils at 140°C.
24 Newtons per Ampere at 30 Hz: 9 N/A above 100 Hz, with coils at 140°C.
The force constant is independent of the direction and amount of current.

Electrical:
Coil resistance: 6 Ohm
Inductance: 2.4 mH

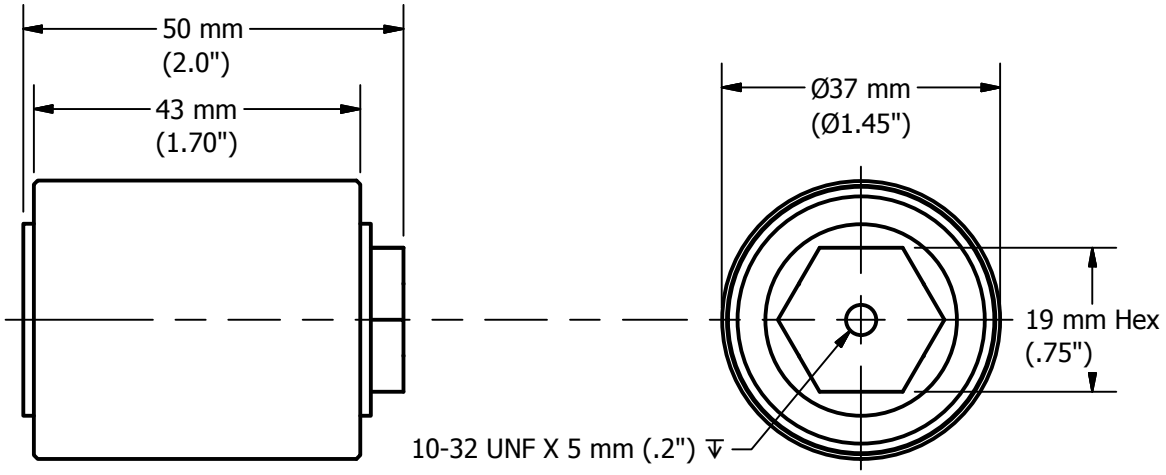
Temperature:
Drop in force constant for 100°C rise: 20%
Increase in resistance for 100°C rise: 39%
Internal temperature rise at 10 Watt input: 120°C (mounted on 100 square cm X 2 cm thick aluminum)

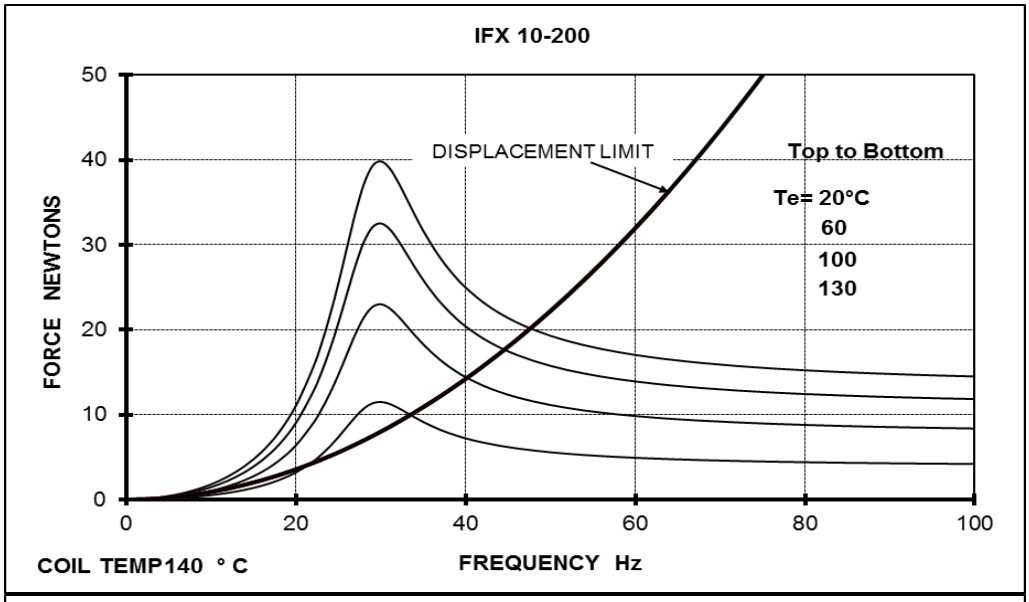
Static Armature Stiffness:
Internal spring constant: 5 Newtons per mm
Resonant frequency of armature 29 Hz (unit mounted on a 20 lb block)

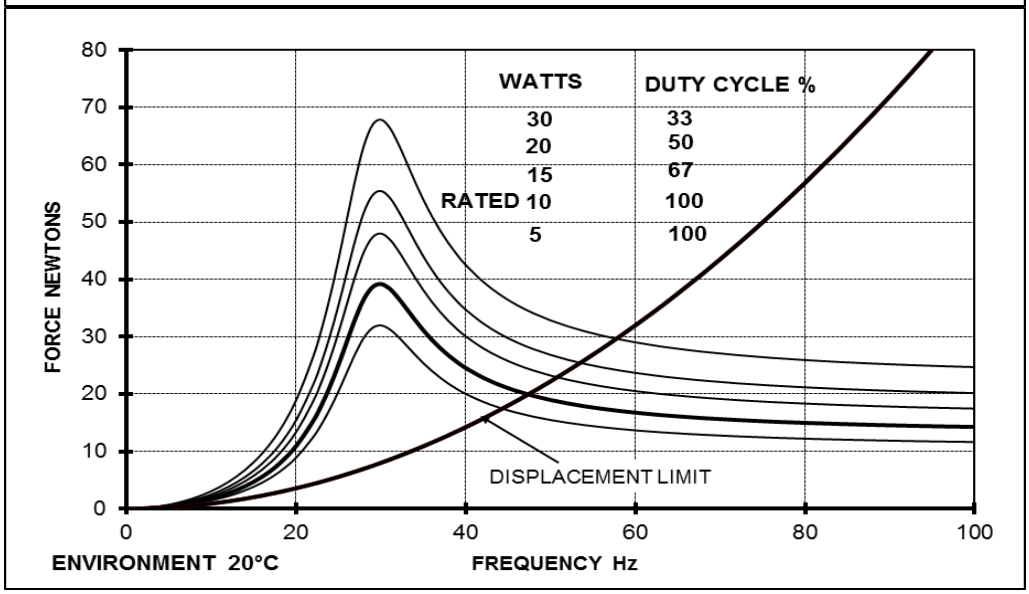
Mechanical:
Max armature displacement: ± 1.5 mm (internal hard stops)
Total weight: .30 Kg. Armature weight: .15 Kg
Dimension: 37 mm diameter, 50 mm long.
Mouting: One 10-32 screw
Housing completely sealed, no external moving parts.

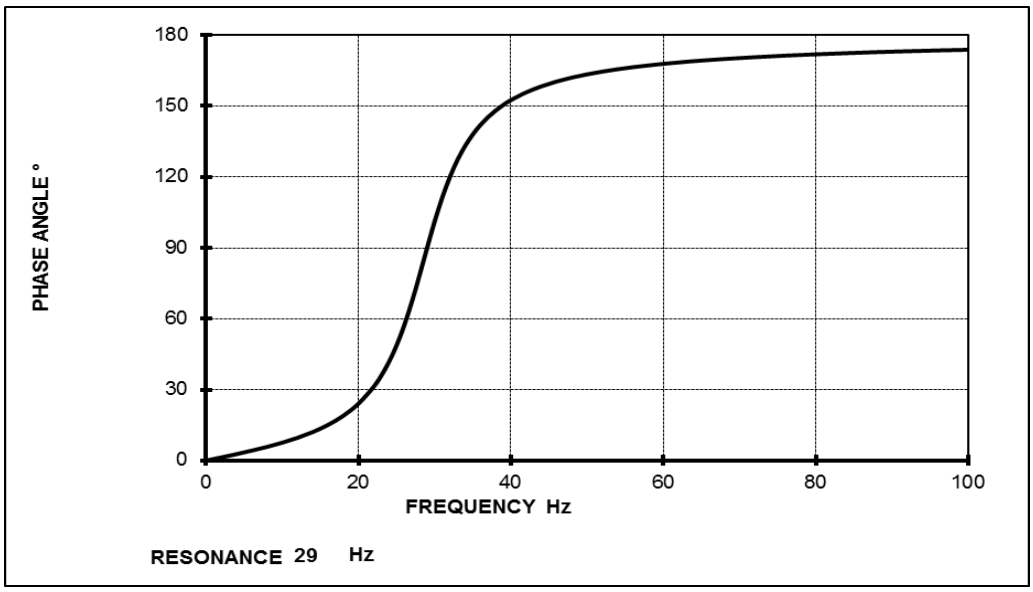
Fatigue Life
infinite fatique life

Stray Magnetic Field
Mounting surface: .05 Tesla max




IFX 10-200
FORCE NEWTONS
DISPLACEMENT LIMIT
Top to Bottom
Te= 20°C
60
100
130
COIL TEMP140 ° C
FREQUENCY Hz


FORCE NEWTONS
WATTS
DUTY CYCLE %
30
20
15
RATED 10
5
33
50
67
100
100
DISPLACEMENT LIMIT
ENVIRONMENT 20°C
FREQUENCY Hz


PHASE ANGLE °
FREQUENCY Hz
RESONANCE 29 Hz