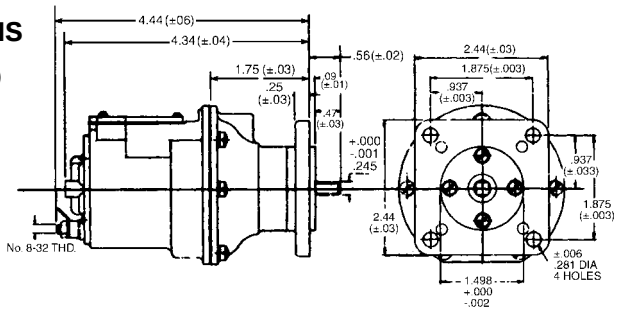
Model 750 – Type K3

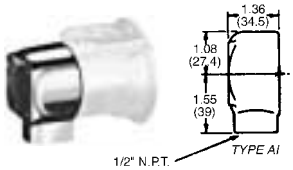
atc Digitec Division

Pad Mounting

DIMENSIONS
INCHES
(MILLIMETERS)



Binding Post Cover Box



The Model 750 DC Tachometer-Generator embodies a permanent magnet field surrounding a rotating armature. The commutator segments are made from a special non-corrosive alloy which has an exceptionally long life. The brushes are of a self-lubricating material and are carried in a self-aligning holder which equalizes the pressure of both brushes. The armature shaft rotates on ball bearings which under normal operation do not need lubrication for 15,000 hours running time or approximately 3 years, whichever comes first. Maximum recommended speed is 5,000 rpm. Brush life is greatest at the lower speeds.

Square aluminum mounting pad with a dust proof aluminum alloy housing and ¼" square drive dog. Mounting pad in accordance with military drawing AND-20005. Two binding posts for electrical connections.

Approximate torque: 3.0 oz. in starting, 4.0 oz. in. running (1000 RPM).

Approximate weight: 17 lbs. (.77 kgs.).
Cat. No.750-9903000

Type K30—Same as Type K3, but with a 3/16" square drive dog. Designed to operate only within protected environments. **Cat. No. 750-9905000**

Replacement Brush Kit

Metallic leaf brushes are of an alloy which will wear before the commutator bars. Brush replacement is a simple field operation. **Part No. 249302.901**

Binding Post Cover Box

Provides protection for the terminals, and has a ½" NPT connection for conduit. **Cat. No.9933-0143156**

SPECIFICATIONS

VOLTAGE OUTPUT AT 1000 RPM:
6 Volts ±1% Per 1000 RPM

ACCURACY:
±1%

EMF LINEARITY 1:
±0.15%

PERMISSIBLE CURRENT DRAIN:
50 mA

MAX. RMS VALUE OF AC RIPPLE:
2%

ALLOWABLE END PLAY:
.005"

MAX OPERATING TEMPERATURE:
250°F

INTERNAL RESISTANCE AT 25°C:
20 Ohms ±2%

NUMBER OF BRUSHES:
2 Per Set

COMPOSITION OF BRUSHES:
Palladium Silver Alloy

ARMATURE:
12 Bars, 12 Slots

INSULATION:
Insulation Class 105

HI-POT TEST:
500 Volts for 1 Min.

BEARINGS:
Ball

TEMPERATURE COMPENSATION:
0.1% Per 10°C Change

NORMAL CONTINUOUS:
2000 RPM

MIN SPEED:
100 RPM

MAX TOP SPEED 2:
5000 RPM

STARTING TORQUE:
3.0 oz. ins.

RUNNING TORQUE AT 1000 RPM:
4.0 oz. ins.

WEIGHT:
17 lbs.

LENGTH:
5.02"

HEIGHT:
2.91"

WIDTH:
3"

MOUNTING:
Sq. AN Pad

ENCLOSURE:
Dust Resistant

SHAFT DIAMETER:
¼" Square

SHAFT CONNECTION:
Direct

SHAFT LENGTH:
.47"

ADJUSTABLE MAGNETIC SHUNT RANGE:
±4%

DIRECTION OF ROTATION EFFECT:
±0.6%

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