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 1/4" 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).

Type K30: Same as Type K3, but with a 3/16" square drive dog. Designed to operate only within protected environments.

Replacement Brush Kit: Metallic leaf brushes are of an alloy which will wear before the commutator bars. Brush replacement is a simple field operation.

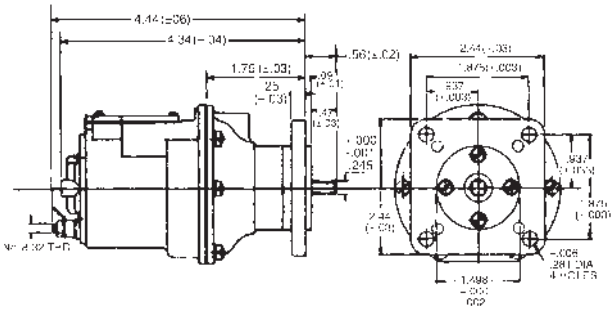
Binding Post Cover Box: Provides protection for the terminals, and has a fi" NPT connection for conduit.

Pad Mounting

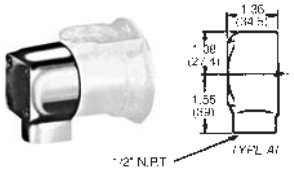
ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
750-9903000	750 Type K3 Tachometer-Generator
750-9905000	750 Type J30 Tachometer-Generator
ACCESSORIES	
9933-0143156	Binding Post Cover Box
249302-901	Replacement Brush Kit

DIMENSIONS (INCHES/MILLIMETERS)



BINDING POST COVER BOX



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 Ω ±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 SPEED	2000 RPM
MIN TOP SPEED	100 RPM
MAX SPEED 2	5000 RPM
STARTING TORQUE	3.0 oz. ins.
RUNNING TORQUE AT 1000 RPM	4.0 oz. ins.
SHAFT DIAMETER	1/4"
SHAFT CONNECTION	Direct
SHAFT LENGTH	.47"
ADJUSTABLE MAGNETIC SHUNT RANGE	±4%
DIRECTION OF ROTATION EFFECT	±0.6%
MOUNTING	Sq. AN Pad
ENCLOSURE	Dust Resistant
MEASUREMENTS	5.02" L x 2.91" H x 3"W
WEIGHT	1.7 lbs. (.77 kgs.) Approximate