

ALTERNATOR SPECIFICATIONS

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TYPE Three phase delta (60 amp) or Wye (38 and 52 amp) connecting stator coils and full wave bridge rectifier .12 pole rotor. Self current limiting design.

APPLICATION: Aircraft.

PULLEY: 52 Amp Model:
Pressed-on type. Interference fit to shaft - .002 in.

60 Amp Model:
Slip fit to shaft. Coupled to shaft by high torque on shaft nut. No key or keyway employed.

FAN: Pulley Driven Models:
Part of pulley assembly.

Gear Driven Models:
Keyed to rotor shaft. Encased in front housing.

SHAFT: 52 Amp Model:
Case hardened steel - .6695 in. diameter and extends approximately 5/16 in. from frontbearing.

60 Amp Pulley Driven Model:
Threaded with .669-20 (special size). Has 5/16 in. hexagon hole in end of shaft for use when installing or removing pulley. Front bearing is slip fit to shaft.

SPEED RANGE: Up to 15,000 RPM maximum.

BEARINGS: Front: single row, double sealed ball bearing.
Rear: roller bearing, rides on shaft O.D. Has felt seal.

PERIODIC BEARING

LUBRICATION:

Not required, new bearing is lubricated for life. Replace bearing if original bearing lubricant is lost or contaminated.

BRUSHES: 52 Amp Models:
Original length - .63 in. Spring tension - 7 to 12 oz. measured at end of arm.

38 and 60 Amp Models:
Original length - 1/2 in. spring tension - 6 to 8 oz.

ROTATION: 52 Amp Model:
Counterclockwise when viewed from pulley end. Non-reversible.
Both pulley (fan) and terminal spacer (brush rigging) must be modified for reverse rotation operation.

38 and 60 Amp Model:
Non-reversible, except 60 Amp models can be reversed for use on T303 Models.

RECTIFIER: Six silicon diodes - three positive and three negative.

SLIP RINGS: Seamless copper. 1.23 in dia. Concentricity with shaft .0005 in.
Minimum turning diameter - 1.22 in.

FIELD COIL

RESISTANCE: 15 Volt System - 4 ohms.
28 Volt System - 12.15 ohms.