DATA SHEET

SPECIFICATIONS

MODEL #5520 PERMANENT MAGNET ALTERNATOR

LOAD/SPEED CHARACTERISTICS

RPM	VOLTAGE	LOAD
7,992	19.0 VDC (MIN)	2.80 AMPS
11,065	26.9 VDC (MIN)	3.57 AMPS
12,295	28.0 VAC (MAX)	NO LOAD
14,139	43.0 VDC (MAX)	0.10 AMPS
14,139	41.0 VDC (MAX)	1.92 AMPS

(photo pending)

OVERSPEED: 14,139 RPM

WINDINGS:

ELECTRICAL DUAL REDUNDANT
3 PHASE WYE WINDINGS

COOLING:
CONVECTION/CONDUCTION

AMBIENT:
-65°F TO 350°F

ALTITUDE:
0 TO 50,000 FT

WEIGHT:
ROTOR 0.28 LBS MAX
STATOR 0.75 LBS MAX

COMPLIANCE:
MIL-STD-461B
RTCA-DO-160C

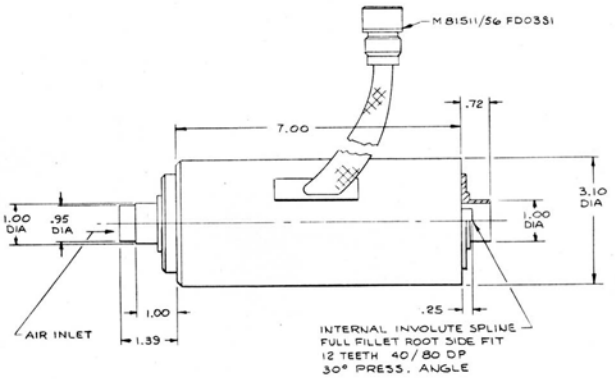
DESCRIPTION

Model 5520 provides electrical power for a FADEC system used on the Ariel 2, a Turbomeca helicopter engine.

The rotor is a sleeved unit employing high energy product magnets. The stator comprises epoxy bonded laminations and dual three phase windings. A cast aluminum housing locates the stator and interfaces with the mounting pad.

The alternator is gear driven from an engine accessory gear box.

OUTLINE DETAILS



GENERATOR