DATA SHEET

SPECIFICATIONS

MODEL #5494 PERMANENT MAGNET ALTERNATOR

LOAD/SPEED CHARACTERISTICS

RPM	VOLTAGE	LOAD
7,795	18.0 VDC (MIN)	5.55 AMPS
13,791	48.0 VDC (MAX)	0.10 AMPS
13,791	47.0 V (MAX)	2.12 AMPS

(photo pending)

OVERSPEED: 13,791 RPM

WINDINGS:
ELECTRICAL 3 PHASE WYE WINDING

COOLING: CONVECTION/CONDUCTION

AMBIENT: -65°F TO 350°F

ALTITUDE: 0 TO 50,000 FT

WEIGHT: ROTOR 0.22 LBS MAX
STATOR 0.62 LBS MAX

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

DESCRIPTION

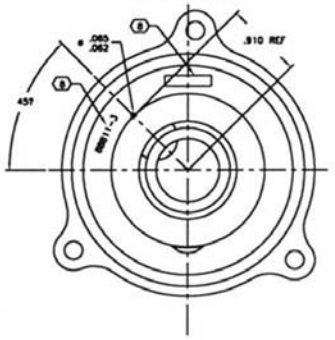
Model 5494 provides electrical power for a FADEC system used on the Arius, a Turbomecca helicopter engine.

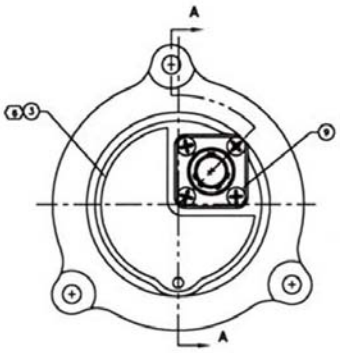
The rotor is a sleeved unit employing high energy magnets. The stator comprises epoxy bonded laminations and a wye-connected three phase winding. A cast aluminum housing locates the stator and interfaces with the mounting pad.

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

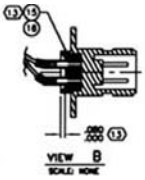
OUTLINE DETAILS

CONNECTION DIAGRAM

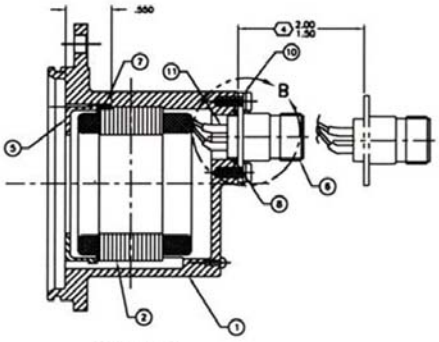




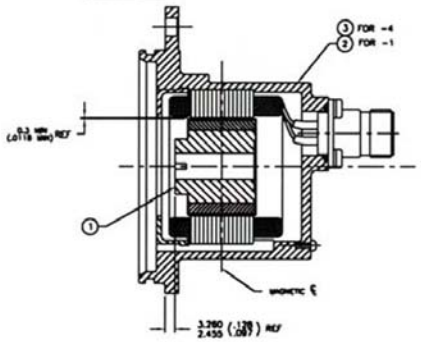
DETAIL B



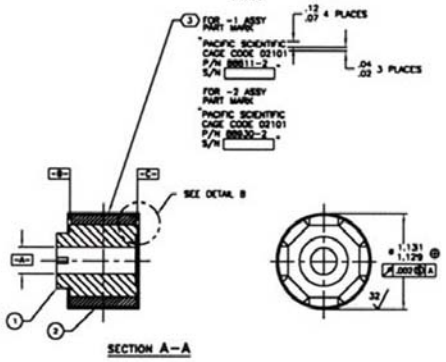
VIEW B



SECTION A-A



ALTERNATOR PMA



SECTION A-A

ROTOR ASSY

MODEL 5494