

DATA SHEET
SPECIFICATIONS
**MODEL #5591
PERMANENT MAGNET
ALTERNATOR**
LOAD/SPEED CHARACTERISTICS

| RPM | VOLTAGE | LOAD |
|--------|-----------------|----------------|
| 5,630 | 34.0 VDC (MIN) | 3.60 ADC (MIN) |
| 11,261 | 123.0 VAC (MAX) | NO LOAD |
| 11,261 | SHORT CIRCUIT | 4.90 AAC (MAX) |

OVERSPEED: 13,513 RPM for 1 MINUTE

**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 0.65 LBS MAX
STATOR 3.30 LBS MAX

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


DESCRIPTION

Model 5591 provides electrical power for a FADEC system used on the PW305, a Pratt & Whitney Canada commercial aircraft engine.

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

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

OUTLINE DETAILS