

ELECTRO KINETICS DIVISION

DATA SHEET

SPECIFICATIONS

MODEL #5142 AC GENERATOR 5 KVA - 12000 RPM

VOLTAGE: 120/208 VAC

PHASE: THREE FREQUENCY: 400 HZ

POWER FACTOR: 0.75 LAG TO UNITY

REGULATION: ±2.5 VAC

SPEED RANGE: 10,800-13,200 RPM

OVERSPEED: 15,000 RPM

CONTINUOUS

RATING: 5 KVA

EFFICIENCY: 87% AT RATED LOAD

COOLING: AIR

AMBIENT: 0 TO +185° F **ALTITUDE:** 0 TO 35,000 FT

WEIGHT: GEN: 18.0 LBS

GCU: 2.25 LBS CT: 0.25 LBS

PROTECTIVE OVERVOLTAGE UNDERVOLTAGE

OVERLOAD

OVERFREQUENCY CURRENT LIMITING DIFFERENTIAL FAULT

COMPLIANCE: MIL-STD-704B

MIL-STD-461A MIL-G-21480 MIL-G-6099(1)



DESCRIPTION

Model 5142 brushless generator is a wound field, salient pole, synchronous machine with its own permanent magnet section for complete self-excitation.

The separate generator control unit contains a pulse width modulated regulator. Together with the current transformer, the GCU provides all the protective functions as listed.

The generator system was developed for the Falcon Jet, Guardian HU-25A aircraft.

OUTLINE DETAILS

