

DATA SHEET

SPECIFICATIONS	MODEL #5071 AC BRUSHLESS GENERATOR 10 KVA – 12,000 RPM
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VOLTAGE: 120/208 VAC
PHASE: THREE
FREQUENCY: 400 HZ
POWER FACTOR: 0.75 LAG TO 0.95 LEAD
REGULATION: 112 VDC-118 VDC

SPEED RANGE: 10,800 to 13,200 RPM
OVERSPEED: 15,000 RPM
CONTINUOUS RATING: 10 KVA
EFFICIENCY: 85% MINIMUM

COOLING: INTERNAL FAN
AMBIENT: -65° to +180°F
ALTITUDE: 0 to 40,000 FT

WEIGHT: GEN: 24.0 LBS
 GCU: 2.25 LBS
 CT: 0.25 LBS

PROTECTIVE FUNCTIONS: OVER FREQUENCY
 UNDER FREQUENCY
 OVER VOLTAGE
 UNDER VOLTAGE
 HIGH PHASE TAKE OVER
 DIFFERENTIAL CURRENTS

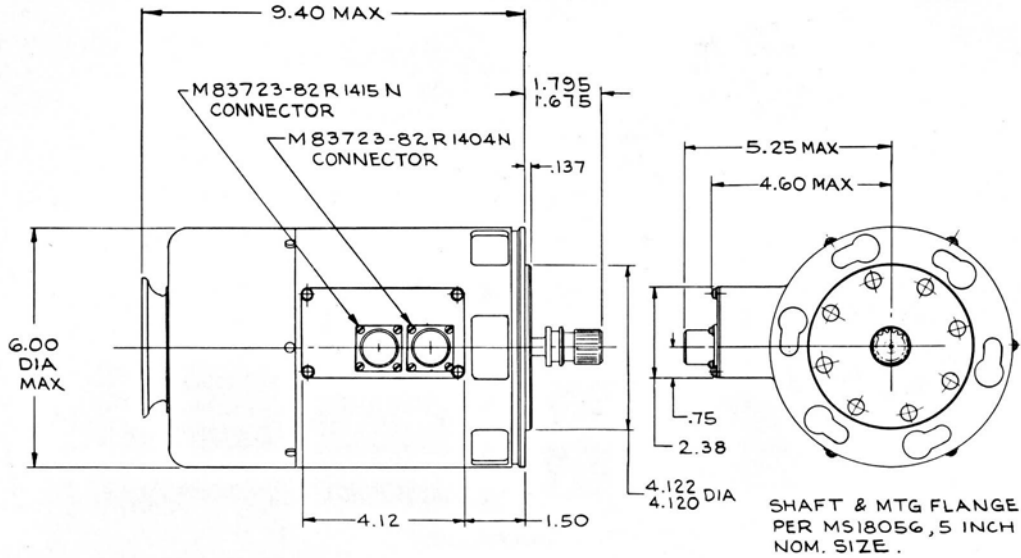
COMPLIANCE: MIL-STD-704A
 MIL-STD-810B
 MIL-STD-461A
 MIL-M-38510
 MIL-G-6099

Model 5071 electrical generation system consists of a generator, generator control unit (GCU) and current transformer assembly (CTA). This equipment has been developed for a close air support aircraft. The generator is pad-mounted on an auxiliary power unit.

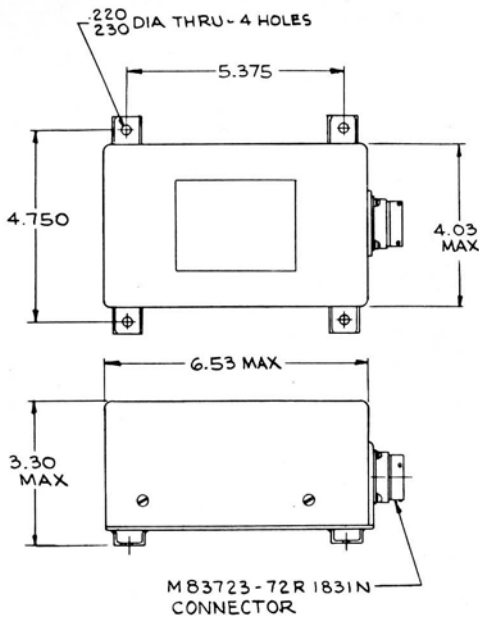
The air-cooled generator is a brushless wound rotor, self excited machine. An internal PMG supplies external contactor control and generator excitation. The generator drive shaft incorporates a shear section designed to shear at a torque of 500 lb-in, \pm 10 percent.

The GCU regulates the output voltage of the generator and implements the listed protective functions. The CTA senses currents remotely to enable differential current protection.

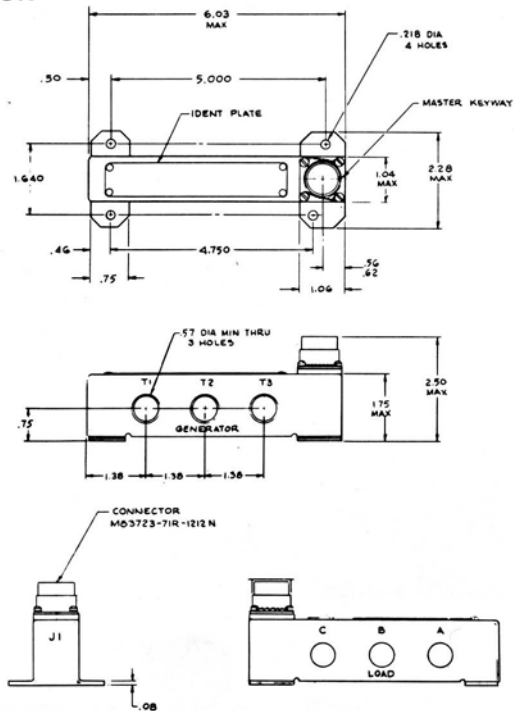
OUTLINE DETAILS



GENERATOR



GENERATOR CONTROL UNIT



CURRENT TRANSFORMER