

AC Generator Model 5297

Model 5297 electrical power generation system consists of an AC generator, a generator control unit and a remote current transformer assembly.

The 400-hertz, alternating current, three phase, four wire generator is a self-excited, self-cooled, brushless design. The machine incorporates a permanent magnet generator (PMG) and an exciter generator for self-excitation and output voltage control.

The generator control unit (GCU) provides system output monitoring and voltage regulation. The GCU also controls the system power contactor and provides system protective functions, as listed. The current transformer assembly (CTA) is used by the system to protect against situations involving feeder faults.



Specifications

Voltage:

115/200 VAC

Speed Range:

10,800 to 13,200 RPM

Overspeed:

15,000 RPM

Efficiency:

85% at rated load

Rating:

10 KVA

Cooling:

Internal fan

Ambient:

-55 C to 66 C

Frequency:

400 HZ

Weight:

23.25 lbs

Regulation:

112.5 VAC – 117.5 VAC

Compliance:

MIL-G-21480A

MIL-E-5272

MIL-E-5400

MIL-E-81910

MIL-STD-454

MIL-STD-461

MIL-33543

Power factor:

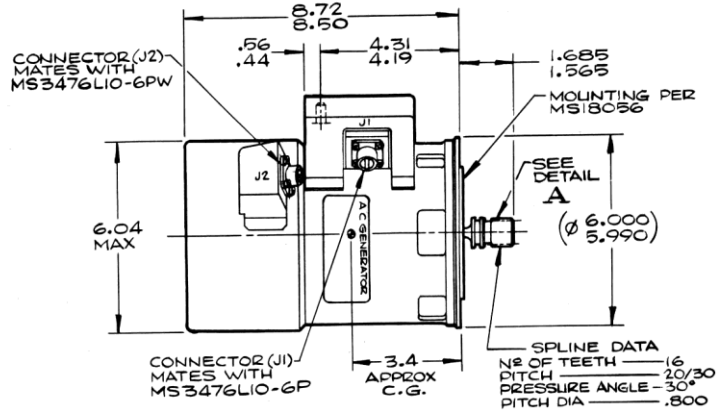
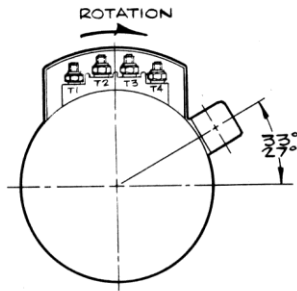
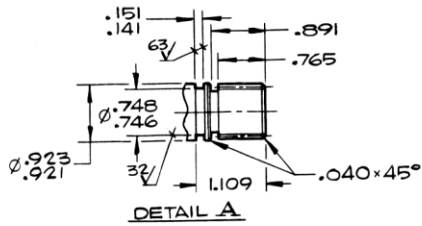
.75 LAG to unity

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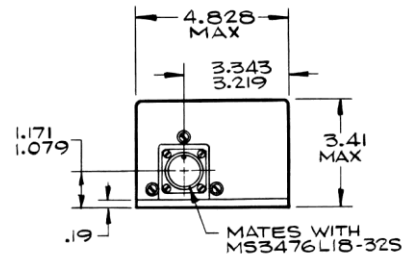
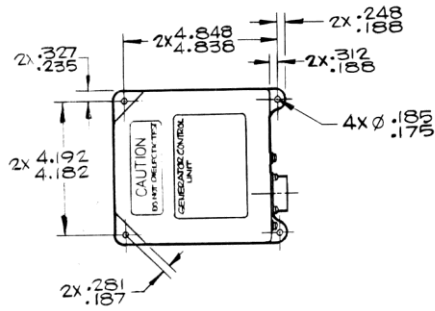
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Power supplies | Magnetics | Sensors | Meters

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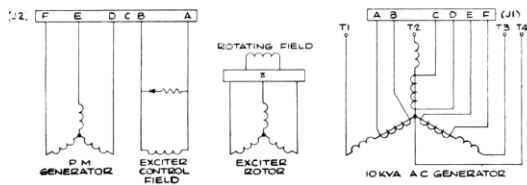
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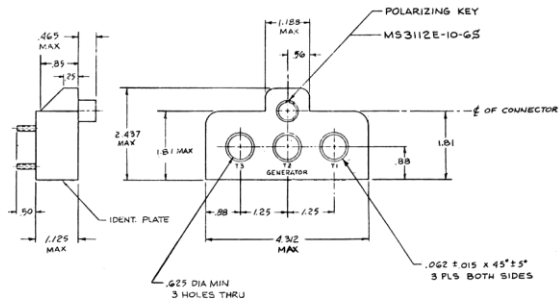
GENERATOR



GENERATOR CONTROL UNIT



SCHEMATIC WIRING DIAGRAM



CURRENT TRANSFORMER