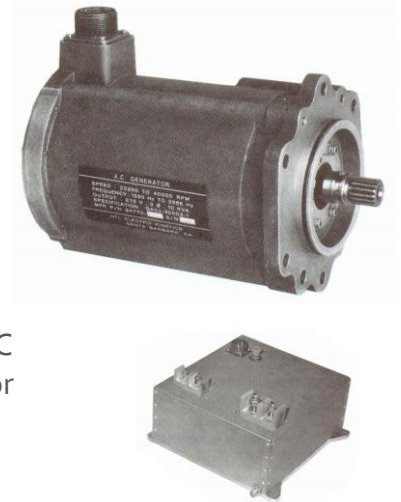




DC Generator Model 5287

Model 5287 include a generator and a converter/regulator. The 270 VAC generator is an oil cooled, brushless, self-contained hybrid generator utilizing high-energy permanent magnets and a homopolar inductor section for voltage regulation. This high-speed machine provides three-phase 270 VAC to the converter/regulator.

The converter/regulator rectifies and conditions the alternator power for dual outputs of 28 VDC and 135 VDC. It features a pulse-width modulated field regulator that controls the generator output voltage, based on the 28 VDC output. The 135 VDC output is thereby semi-regulated. The converter/regulator also controls the system contactors for both outputs, in addition to providing various system protective functions.



Specifications

Dual output voltage:

27.5 VDC to 28.5 VDC
125 VDC to 145 VDC

Speed Range:

23,250 to 40,000 RPM

Overspeed:

44,000 RPM

Efficiency:

85% at rated load

Rating:

10 KVA

Weight:

68.0 lbs

Cooling:

Fluid cooling

Altitude:

0 to 70,000 ft

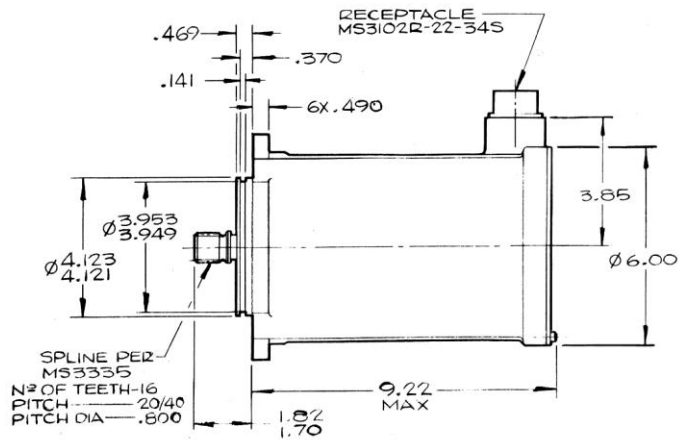
Compliance:

MIL-STD-704B
MIL-STD-810
MIL-STD-461B
MIL-STD-462
MIL-G-6162B

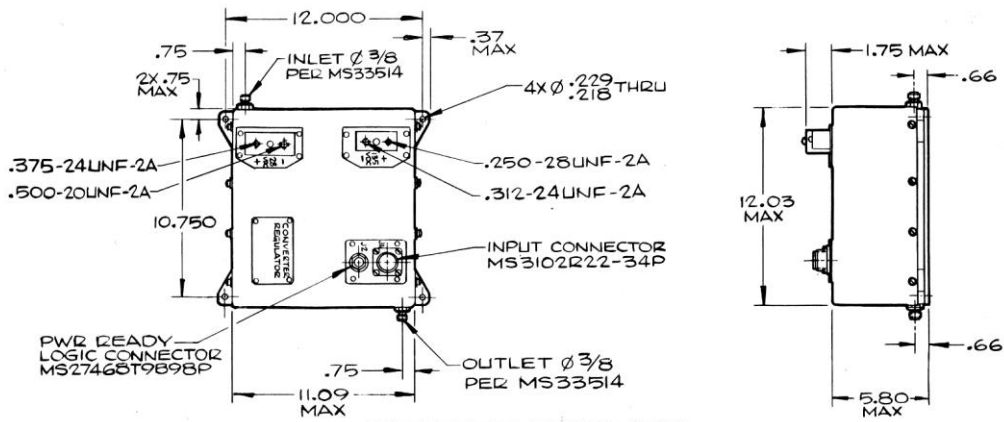
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Power supplies | Magnetics | Sensors | Meters

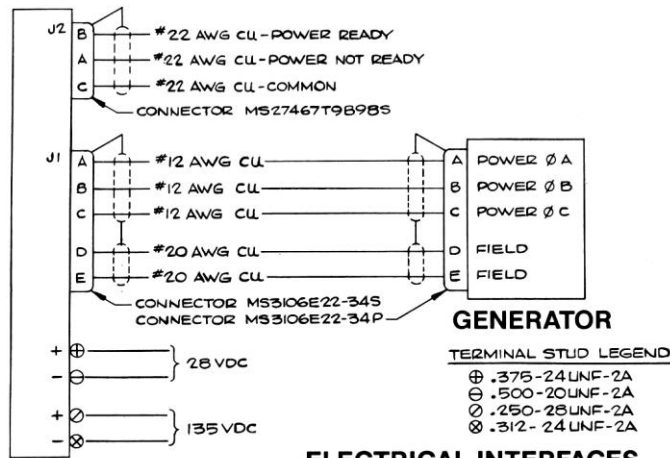
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GENERATOR



CONVERTER REGULATOR



CONVERTER/REGULATOR

ELECTRICAL INTERFACES