DATA SHEET

SPECIFICATIONS

MODEL #5297
AC GENERATOR
10KVA - 12,000 RPM

VOLTAGE:	115/200 VAC
PHASE:	THREE
FREQUENCY:	400 HERTZ
POWER FACTOR:	0.75 LAG TO UNITY
REGULATION:	112.5 TO 117.5 VAC
SPEED RANGE:	10,800-13,200 RPM
OVERSPEED:	15,000 RPM
RATING:	
CONTINUOUS	10 KVA
OVERLOADS:	15 KVA 2.0 MINUTES 20 KVA 5.0 SECONDS 3 PER UNIT SHORT CIRCUIT CURRENT
EFFICIENCY:	85% AT RATED LOAD
COOLING:	INTERNAL FAN
AMBIENT:	-55°C to +66°C
WEIGHT:	GENERATOR 20.5 LBS CONTROL UNIT 1.5 LBS CURRENT TRANSFORMER 0.25 LBS
PROTECTIVE FUNCTIONS:	OVERVOLTAGE UNDERVOLTAGE UNDER FREQUENCY FEEDER FAULT
COMPLIANCE:	MIL-G-21480A MIL-E-5272 MIL-E-5400 MIL-E-81910 MIL-STD-454 MIL-STD-461 MS-33543

DESCRIPTION

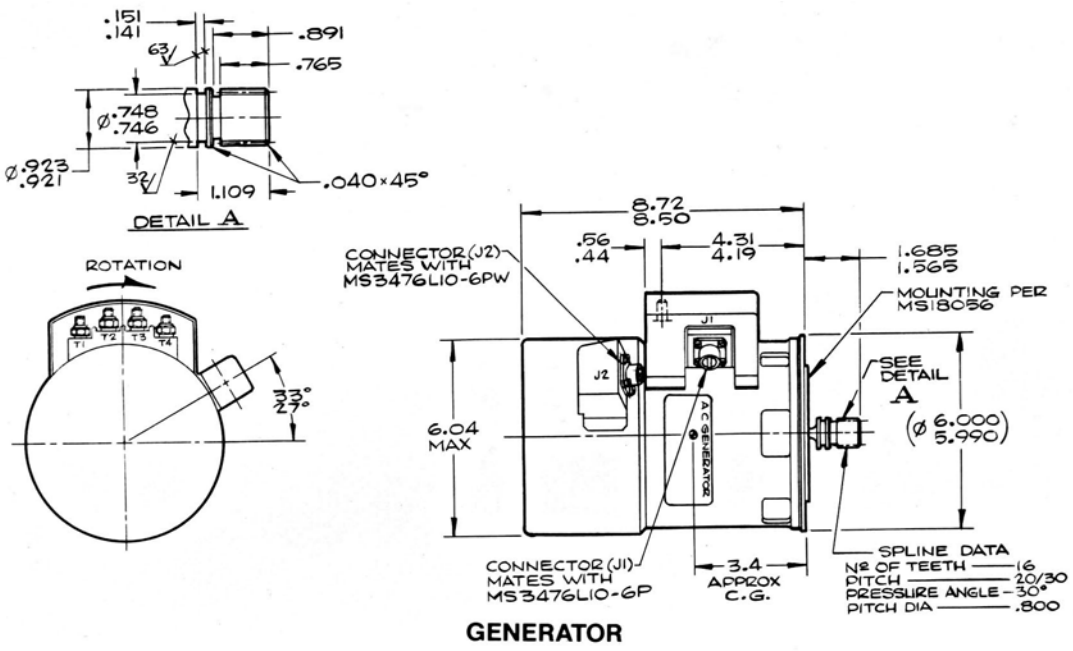
Model 5297 Electrical Power Generation System consists of an AC generator, a generator control unit and a remote current transformer assembly.

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.

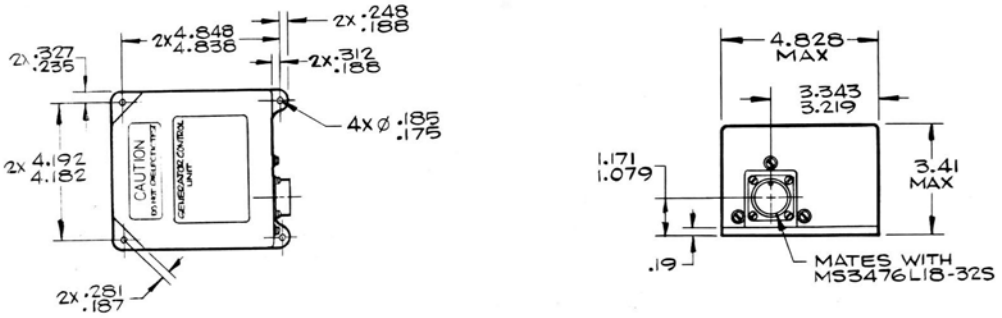
The generator control unit (GCU) provides system output monitoring and voltage regulation. The GCU also controls the system power contactor and provides system protective functions, as listed.

The current transformer assembly (CTA) is used by the system to protect against situations involving feeder faults.

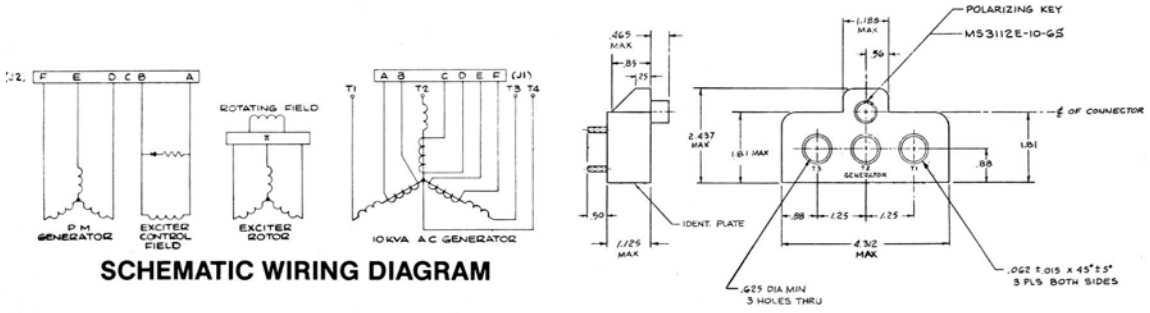
OUTLINE DETAILS



GENERATOR



GENERATOR CONTROL UNIT



SCHEMATIC WIRING DIAGRAM

CURRENT TRANSFORMER