

FREQUENCY CONVERTER SPECIFICATION
GEORATOR CORPORATION
MANASSAS, VIRGINIA 20110

Model No. 33-220-1
Type 82-A Vertical Frequency Converter

1.0 INPUT:

- 1.1 Motor: Reliance Rotor & Stator; 30.0 HP, 3-Phase, 3 Wire, 50 Hz, 380V (+/-10%), 2940 RPM (Nom.), Induction Type, Georator P/N 18-716.
- 1.2 Input Current At Full Load: 56 Amperes
- 1.3 Insulation: Class F
- 1.4 Ambient Temperature Range: -20 to +50 Deg. C.
- 1.5 Duty: Continuous

2.0 OUTPUT:

- 2.1 Generator: Permanent Magnet, 20.0 Kva, 18kW, 90% P.F., 3-Phase, 4 Wire, 400 Hz Nom, 120/208V (Nom.)
- 2.2 Output Voltage - No Load: 133V +/-5V L-N
- 2.3 Operating Load Voltage Tolerances:
 - (A) 126V (+/-5V) L-N @ 10KVA, 0.9 P.F.
 - (B) 119V (+/-5V) L-N @ 20KVA, 0.9 P.F.
- 2.4 Output Frequency Tolerances: 400H Hz Max. @ No Load to 390 Hz. Min. @ Full Load
- 2.5 Output Current: 55.5 Amps
- 2.6 Harmonic Distortion: <4% Total
- 2.7 Insulation: Class F
- 2.8 Ambient Temperature Range: -20 to +50 Deg. C
- 2.9 Duty: Continuous
- 2.10 Dielectric Strength: Winding to Frame 1500V for 1 Minute

3.0 VIBRATION:

- 3.1 Within .0015 Inches

4.0 BEARINGS:

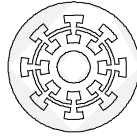
- 4.1 Shielded - Life Time Lubricated

5.0 FINISH:

- 5.1 Primer: Modified Alkyd Resin, Fed Std. TT-P-664D
- 5.2 Paint: Silver-Blue Enamel
- 5.3 Fasteners: Steel, Zinc Plated

6.0 APPROX. WEIGHT:

Revision Letter	Date	Revision Description
ENGINEER	B.S.O	
APPROVED BY		November 14, 2001



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6.1	Net:	530 Lbs.
6.2	Shipping	650 Lbs.