FREQUENCY CONVERTER SPECIFICATION
GEORATOR CORPORATION

MANASSAS, VIRGINIA 20110

Model No. 39-001
Vertical Frequency Converter & Back Iron Regulator

1.0 INPUT:

1.1 Motor, Rotor & Stator: Reliance, Frame 254T, Georator P/N 18-309; 7.5 H.P., 3 Phase, 60 Hz, 220/440V
(+-10%), 1760 RPM
1.2 Input Current: 21.1/10.5 Amperes
1.3 Insulation: Class B
1.4 Max. Ambient Temperature: 50 Degrees C
1.5 Duty: Continuous

2.0 OUTPUT:

2.1 Rating: 5.0 KVA, 80% PF, 3 Phase, 400 Hz (Nom.),120/208V or 120V
2.2 Output Voltage: No Load; AC values before regulation & rectification:
(A) Power Winding: Approx. 254V
(B) Control Winding: Approx. 49V
2.3 Output Frequency Tolerances: 420 Hz N.L. to 410 Hz
2.4 Voltage Regulation: +-1.5% N. L. to F. L.
2.5 Voltage Adjustment: +-5%
2.6 Output Current Rating: 24/13.9 Amperes
2.7 Insulation: Class B
2.8 Max. Ambient Temperature: 50 Degrees C
2.9 Dielectric Strength, Winding to Frame: 1500V for 1 min.
2.10 Output Phase Rotation: To be 4-2-6 (ABC) with input connected A - T , B - T , C - T

3.0 VIBRATION: Within 0.0015

4.0 BEARINGS: Shielded Life Time Lubricated Motor Bearings

5.0 FINISH:

5.1 Primer: Modified Alkyd Resin Red fed std TT-P664D
5.2 Paint: Silver-Blue Enamel

6.0 APPROX. WEIGHT:

6.1 Net: 280 Lbs.
6.2 Shipping: 340 Lbs.

Revision Letter	Date	Revision Description

ENGINEER	M.T.E.
APPROVED BY	April 20, 1998