



**FREQUENCY CONVERTER SPECIFICATION
GEORATOR CORPORATION
MANASSAS, VIRGINIA 20110**

Model No. 39-001-3
Type 21-A 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 F. L
- 1.2 Input Current: 21.1/10.5 Amperes
- 1.3 Insulation: Class F
- 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.), 115/200V Or 115V – Connected For 115V L-L Delta Output
- 2.2 Output Voltage: No Load; AC Values Before Regulation and Rectification:
 - (A) Power Winding: Approx. 146V L-N
 - (B) Control Winding: Approx. 49V L-L
- 2.3 Output Frequency Tolerances: 420 Hz N.L. to 410 Hz F.L.
- 2.4 Voltage Regulation: +/-1.5% N. L. to F. L.
- 2.5 Voltage Adjustment: +/-5%
- 2.6 Output Current Rating: 14.4/25 Amperes
- 2.7 Insulation: Class F
- 2.8 Max. Ambient Temperature: 50 Degrees C
- 2.9 Dielectric Strength, Winding To Frame: 1500V For I Min.
- 2.10 Output Phase Rotation: To Be 4-2-6 (ABC) With Input Connected A- 0 , B - IL, C - T3

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
- 5.1 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