



FREQUENCY CONVERTER SPECIFICATION
GEORATOR CORPORATION
 MANASSAS, VIRGINIA 20110

MODEL NO. 39-005
 MILITARIZED

Type 22-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 B
- 1.4 Temperature Rise: 50C
- 1.5 Duty: Continuous

2.0 OUTPUT:

- 2.1 Rating: 5.0 KVA, 85% PF, 1 Phase, 400 Hz (Nom.), 240V \pm 1.5%
- 2.2 Output Voltage, No Load; AC values before regulation & rectification:
 - (A) Power Winding: 290V
 - (B) Control Winding: 57V (+/-1V) L-L
- 2.3 Output Frequency Tolerances: 420 Hz N.L. to 410 Hz F.L.
- 2.4 Voltage Regulation: \pm -1.5% N.L. to F.L.
- 2.5 Voltage Adjustment: \pm -5%
- 2.6 Output Current Rating: 20.8 Amperes
- 2.7 Distortion: 4% Max.
- 2.8 Insulation: Class B
- 2.9 Temperature Rise: 650C
- 2.10 Dielectric Strength, Winding to Frame: 1500V for 1 Min.

3.0 VIBRATION: Within 0.0015

4.0 BEARINGS: Shielded Life Time Lubricated Motor Bearings, Grease Per MIL-G-3545

5.0 FINISH:

- 5.1 Primer: Iridite & Modified Alkyd Resin Red fed std TT-P664D
- 5.1 Paint: Light Gray Enamel, Fast Air Drying, Semi-Gloss, Type II, Class 2 Per MIL-E-15090-B
- 5.1 Fasteners: Zinc or Cad. Plt.
- 5.1 Alum. Alloy 356-TG Per Fed. Spec. QQ-A-601C
- 5.1 Motor & Gen. Stator Fungus Proofed

6.0 WEIGHT:

Revision Letter	Date	Revision Description
ENGINEER		M.T.E.
APPROVED BY		April 20, 1998



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- 6.1 Net: 325 Lbs.
- 6.2 Shipping: 375 Lbs.