

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

Page

MODEL : 431PSL6206
BASE MODEL : 431PSL6206

Winding WC- 1902S

11/01/2001

| Kilowatt ratings at kW (kVA) | 1500 RPM | | 50 Hertz | | | 12 LEADS | | Single phase connection Dripproof or Open Enclosure | | |
|---------------------------------|-----------------------|-------------------|----------------|-------------------------------|----------------------|---------------------|-------------------------------|--|---------------------|--|
| | Class B | | Class F | | | | | Class H | | |
| | 80° C ∅ Continuous | 90° C ∅ Lloyds | 95° C ∅ ABS | 105° C British Standard | 105° C Continuous | 130° C ∅ Standby | 125° C British Standard | 125° C Continuous | 150° C ∅ Standby | |
| 440/220-1 | 105 (105) | 108 (108) | 108 (108) | 120 (120) | 120 (120) | 132 (132) | 122 (122) | 130 (130) | 135 (135) | |
| 440/220-8 | 83 (104) | 86 (108) | 86 (108) | 96 (120) | 96 (120) | 106 (133) | 98 (123) | 104 (130) | 108 (135) | |
| 400/200-1 | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | |
| 400/200-8 | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | |

① Rise by resistance method, Mil-Std-705, Method 680.1b.

British Standard Rating per BS 5000

| Submittal Data: 440 Volts*, 108 kW, 135 kVA, 0.8 P.F., 1500 RPM, 50 Hz, 1 Phase | | | | | |
|---|---|-------------|--------------|---|-----------|
| Mil-Std-705B | | | Mil-Std-705B | | |
| Method | Description | Value | Method | Description | Value |
| 301.1b | Insulation Resistance | >1.5 Meg | 505.3b | Overspeed | 1875 RPM |
| 302.1a | High Potential Test | | 601.4a | L-L Harmonic Maximum - Total (Distortion Factor) | 5.0% |
| | Main Stator | 2000 Volts | 601.4a | L-L Harmonic Maximum - Single | 5.0% |
| | Main Rotor | 1500 Volts | 601.1c | Deviation Factor | 6.0% |
| | Exciter Stator | 1500 Volts | -- | Type | MAGNAPLUS |
| | Exciter Rotor | 1500 Volts | -- | Insulation | Class H |
| 401.1a | Stator resistance - Line to Line | | -- | Coupling - Single Bearing | Flexible |
| | Low-Zigzag = 0.0139 Ohms, Hi-Zigzag = | 0.0556 Ohms | -- | Amortisseur Windings | Full |
| | Rotor Resistance | 0.679 Ohms | -- | Exciter | Rotating |
| | Exciter Stator | 18.5 Ohms | -- | Voltage Regulator | SE350 |
| | Exciter Rotor | 0.116 Ohms | -- | Voltage Regulation | 1.00% |
| 410.1a | No Load Exciter Field Amps at 220/440 Volts Line to Line | #VALUE! | -- | Cooling Air Volume | 1000 CFM |

