

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3650

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MODEL : 431PSL6204
BASE MODEL : 431PSL6204

Winding WC- 1901S

11/01/2001

| Kilowatt ratings at kW (kVA) | 1800 RPM | | 60 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 | |
| 480/240-1 | 106 (106) | 113 (113) | 113 (113) | 125 (125) | 125 (125) | 135 (135) | 127 (127) | 133 (133) | 140 (140) | |
| 480/240-8 | 85 (106) | 88 (110) | 88 (110) | 100 (125) | 100 (125) | 107 (134) | 100 (125) | 106 (133) | 110 (138) | |
| 440/220-1 | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | |
| 440/220-8 | 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: 480 Volts*, 112 kW, 140 kVA, 0.8 P.F., 1800 RPM, 60 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 | 2250 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 = 0.0184 Ohms, Hi-Zigzag = | 0.0736 Ohms | -- | Amortisseur Windings | Full |
| | Rotor Resistance | 0.656 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 | | -- | Cooling Air Volume | 1100 CFM |
| | at 240/480 Volts Line to Line | 0.64 A DC | | | |

