

# MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3660

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MODEL : 281PSL1511  
BASE MODEL : 281PSL1511

Winding WC- 1511

10/31/2001

| Kilowatt ratings at<br>kW (kVA) | 1800 RPM              |                   | 60 Hertz       |                               |                      | 4 LEADS             |                               | Dedicated single phase<br>Dripproof or Open Enclosure |                     |
|---------------------------------|-----------------------|-------------------|----------------|-------------------------------|----------------------|---------------------|-------------------------------|---|---------------------|
|                                 | Class B               |                   | Class F        |                               |                      |                     |                               | Class H   |                     |
|                                 | 80° C ∅<br>Continuous | 90° C ∅<br>Lloyds | 95° C ∅<br>ABS | 105° C<br>British<br>Standard | 105° C<br>Continuous | 130° C ∅<br>Standby | 125° C<br>British<br>Standard | 125° C<br>Continuous                                  | 150° C ∅<br>Standby |
| 240-1                           | 5.4 (5.4)             | 5.6 (5.6)         | 5.7 (5.7)      | 6 (6)                         | 6 (6)                | 6.5 (6.5)           | 6.5 (6.5)                     | 6.5 (6.5)   | 6.8 (6.8)           |
| 240-8                           | 3.6 (4.5)             | 3.8 (4.8)         | 3.8 (4.8)      | 4 (5)                         | 4 (5)                | 4.2 (5.3)           | 4.2 (5.3)                     | 4.2 (5.3)   | 4.4 (5.5)           |
| 220-1                           | 5 (5)                 | 5.3 (5.3)         | 5.3 (5.3)      | 5.6 (5.6)                     | 5.6 (5.6)            | 6 (6)               | 6 (6)                         | 6 (6)   | 6.3 (6.3)           |
| 220-8                           | 3.6 (4.5)             | 3.8 (4.8)         | 3.8 (4.8)      | 4 (5)                         | 4 (5)                | 4.2 (5.3)           | 4.2 (5.3)                     | 4.2 (5.3)   | 4.4 (5.5)           |

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

British Standard Rating per BS 5000

| Submittal Data: 240 Volts*, 4 kW, 5 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<br>(Distortion Factor) | 8.0%      |
|   | Main Stator   | 1500 Volts | 601.4a       | L-L Harmonic Maximum - Single                       | 7.0%      |
|   | Main Rotor  | 1500 Volts | 601.1c       | Deviation Factor                                    | 8.0%      |
|   | Exciter Stator  | 1500 Volts | --           | Type  | MAGNAPLUS |
|   | Exciter Rotor   | 1500 Volts | --           | Insulation  | Class H   |
| 401.1a  | Stator resistance - Line to Line                        |            | --           | Coupling - Single Bearing                           | Flexible  |
|   | Dedicated connection                                    | 0.632 Ohms | --           | Amortisseur Windings                                | Full      |
|   | Rotor Resistance  | 0.43 Ohms  | --           | Exciter   | Rotating  |
|   | Exciter Stator  | 0.23 Ohms  | --           | Voltage Regulator                                   | SE350     |
|   | Exciter Rotor   | 0.12 Ohms  | --           | Voltage Regulation                                  | 1.00%     |
| 410.1a  | No Load Exciter Field Amps<br>at 240 Volts Line to Line | 0.35 A DC  | --           | Cooling Air Volume                                  | 250 CFM   |

