

MARATHON ELECTRIC GENERATORS TYPICAL SUBMITTAL DATA

Section 3660

Page

MODEL : 282PSL1514
BASE MODEL : 282PSL1514

Winding WC- 1514

10/31/2001

| Kilowatt ratings at kW (kVA) | 1500 RPM | | 50 Hertz | | | 4 LEADS | | Dedicated single phase Dripproof or Open Enclosure | | |
|---------------------------------|-----------------------|-------------------|----------------|-------------------------------|----------------------|---------------------|-------------------------------|---|---------------------|--|
| | Class B | | Class F | | | | | Class H | | |
| | 80° C Ø Continuous | 90° C Ø Lloyds | 95° C Ø ABS | 105° C British Standard | 105° C Continuous | 130° C Ø Standby | 125° C British Standard | 125° C Continuous | 150° C Ø Standby | |
| 220-1 | 7.5 (7.5) | 8.3 (8.3) | 8.5 (8.5) | 9 (9) | 10 (10) | 9.7 (9.7) | 9.7 (9.7) | 9.7 (9.7) | 10.5 (10.5) | |
| 220-8 | 4.5 (5.6) | 4.7 (5.9) | 4.8 (6) | 5.2 (6.5) | 5.2 (6.5) | 5.2 (6.5) | 6 (7.5) | 6 (7.5) | 6.3 (7.9) | |
| 200-1 | 7.7 (7.7) | 8.5 (8.5) | 8.5 (8.5) | 9.2 (9.2) | 9.2 (9.2) | 10 (10) | 10 (10) | 10 (10) | 10.5 (10.5) | |
| 200-8 | 5.3 (6.6) | 5.5 (6.9) | 5.5 (6.9) | 6 (7.5) | 6 (7.5) | 6.5 (8.1) | 6.5 (8.1) | 6.5 (8.1) | 7 (8.8) | |

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

British Standard Rating per BS 5000

| 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) | 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 | 0.436 Ohms | -- | Amortisseur Windings | Full |
| | Rotor Resistance | 0.45 Ohms | -- | Exciter | Rotating |
| | Exciter Stator | 23 Ohms | -- | Voltage Regulator | SE350 |
| | Exciter Rotor | 0.12 Ohms | -- | Voltage Regulation | 1.00% |
| 410.1a | No Load Exciter Field Amps at 220 Volts Line to Line | 0.5 A DC | -- | Cooling Air Volume | 200 CFM |

