

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 14808721

Catalog # : 00118ET3E143JP-SG

Frame : 143/5JP  
Output : 1 HP (0.75 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 2.94/1.47 A  
L. R. Amperes : 25.3/12.6 A  
LRC : 8.6x(Code M)  
No load current : 1.78/0.890 A  
Rated speed : 1765 rpm  
Slip : 1.94 %  
Rated torque : 2.98 ft.lb  
Locked rotor torque : 280 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1232 sq.ft.lb  
Design : B

Locked rotor time : 34s (cold) 19s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 52.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 2.2 lb

| Output         | 25%  | 50%  | 75%  | 100% |
|----------------|------|------|------|------|
| Efficiency (%) | 81.0 | 82.5 | 82.5 | 82.2 |
|                | 80.4 | 80.9 | 83.5 | 83.7 |
| Power Factor   | 0.30 | 0.36 | 0.52 | 0.62 |
|                | 0.31 | 0.55 | 0.68 | 0.77 |

Foundation loads  
Max. traction : 102 lb  
Max. compression : 104 lb

|                      | Drive end        | Non drive end        |
|----------------------|------------------|----------------------|
| Bearing type         | 6206 ZZ          | 6203 ZZ              |
| Sealing              | V'Ring           | Without Bearing Seal |
| Lubrication interval | -                | -                    |
| Lubricant amount     | -                | -                    |
| Lubricant type       | Mobil Polyrex EM |                      |

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

| Rev.         | Changes Summary | Performed | Checked | Date |
|--------------|-----------------|-----------|---------|------|
|              |                 |           |         |      |
| Performed by |                 |           |         |      |
| Checked by   |                 |           |         |      |
| Date         | 29/03/2024      |           |         |      |

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Revision