

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Standard  
Efficiency Three-Phase

Product code : 14804531

Catalog # : .7536ES3EJP56J-S

Frame : 56J  
Output : 0.75 HP (0.55 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 208-230/460 V  
Rated current : 2.50-2.26/1.13 A  
L. R. Amperes : 17.5-15.8/7.91 A  
LRC : 7.0x(Code K)  
No load current : 0.948-1.10/0.550 A  
Rated speed : 3475 rpm  
Slip : 3.47 %  
Rated torque : 1.13 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 290 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.0517 sq.ft.lb

Locked rotor time : 41s (cold) 23s (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> : CCW  
Noise level<sup>2</sup> : 68.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 21.8 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 58.8 | 70.1 | 62.0 | 70.3 | 68.0 | 73.4 | 72.0 | 73.0 |
|                | 66.7 |      | 68.1 |      | 72.8 |      | 73.9 |      |
| Power Factor   | 0.45 | 0.49 | 0.70 | 0.77 | 0.79 | 0.86 | 0.85 | 0.91 |
|                | 0.41 |      | 0.68 |      | 0.80 |      | 0.86 |      |

Foundation loads  
Max. traction : 25 lb  
Max. compression : 47 lb

|                      | Drive end        | Non drive end        |
|----------------------|------------------|----------------------|
| Bearing type         | 6203 2RS         | 6202 2RS             |
| 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 |                 | Page<br>1 / 1 |          |      |
| Checked by   |                 |               |          |      |
| Date         | 27/03/2024      |               |          |      |
|              |                 |               | Revision |      |