

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 13484266

Catalog # : 00112ET3E56-S

Frame : 56H  
 Output : 1 HP (0.75 kW)  
 Poles : 6  
 Frequency : 60 Hz  
 Rated voltage : 230/460 V  
 Rated current : 3.16/1.58 A  
 L. R. Amperes : 18.3/9.16 A  
 LRC : 5.8x(Code J)  
 No load current : 2.03/1.01 A  
 Rated speed : 1145 rpm  
 Slip : 4.58 %  
 Rated torque : 4.59 ft.lb  
 Locked rotor torque : 229 %  
 Breakdown torque : 280 %  
 Insulation class : F  
 Service factor : 1.15  
 Moment of inertia (J) : 0.1597 sq.ft.lb  
 Design : B

Locked rotor time : 55s (cold) 31s (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> : 50.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 38.0 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 79.5 | 82.0 | 80.0 | 80.1 | 82.5 | 80.1 | 82.5 | 77.3 |
|                | 78.9 |      | 78.6 |      | 80.3 |      | 79.3 |      |
| Power Factor   | 0.28 | 0.33 | 0.50 | 0.58 | 0.63 | 0.71 | 0.72 | 0.79 |
|                | 0.29 |      | 0.51 |      | 0.65 |      | 0.74 |      |

Foundation loads  
 Max. traction : 119 lb  
 Max. compression : 157 lb

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6204 ZZ          | 6202 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 |                 | Page<br>1 / 1 |         |      |
| Checked by   |                 |               |         |      |
| Date         | 27/03/2024      |               |         |      |
|              |                 | Revision      |         |      |