

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 13548244

Catalog # : 00136ET3EW56-S

Frame : W56  
 Output : 1 HP (0.75 kW)  
 Poles : 2  
 Frequency : 60 Hz  
 Rated voltage : 230/460 V  
 Rated current : 3.00/1.50 A  
 L. R. Amperes : 26.4/13.2 A  
 LRC : 8.8x(Code M)  
 No load current : 1.60/0.798 A  
 Rated speed : 3435 rpm  
 Slip : 4.58 %  
 Rated torque : 1.53 ft.lb  
 Locked rotor torque : 360 %  
 Breakdown torque : 380 %  
 Insulation class : F  
 Service factor : 1.15  
 Moment of inertia (J) : 0.0254 sq.ft.lb

Locked rotor time : 18s (cold) 10s (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> : 65.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 21.5 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 72.4 | 78.4 | 74.0 | 77.8 | 77.0 | 79.2 | 78.5 | 77.8 |
|                | 75.2 |      | 75.9 |      | 78.9 |      | 79.0 |      |
| Power Factor   | 0.38 | 0.43 | 0.63 | 0.70 | 0.75 | 0.81 | 0.80 | 0.86 |
|                | 0.35 |      | 0.61 |      | 0.74 |      | 0.80 |      |

Foundation loads  
 Max. traction : 46 lb  
 Max. compression : 67 lb

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6203 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 |      |