

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12759193

Catalog # : .7518OT3E56-S

Frame : 56  
Output : 0.75 HP (0.55 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 208-230/460 V  
Rated current : 2.54-2.30/1.15 A  
L. R. Amperes : 18.5-16.8/8.40 A  
LRC : 7.3x(Code K)  
No load current : 1.38-1.60/0.800 A  
Rated speed : 1760 rpm  
Slip : 2.22 %  
Rated torque : 2.24 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 0.0712 sq.ft.lb

Locked rotor time : 37s (cold) 21s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Cooling method : IC01 - ODP  
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> : 23.3 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 71.6 | 76.5 | 74.0 | 76.6 | 78.5 | 79.2 | 81.1 | 78.8 |
|                | 72.3 |      | 73.6 |      | 77.8 |      | 78.9 |      |
| Power Factor   | 0.29 | 0.34 | 0.52 | 0.60 | 0.65 | 0.73 | 0.74 | 0.81 |
|                | 0.29 |      | 0.52 |      | 0.65 |      | 0.75 |      |

Foundation loads  
Max. traction : 65 lb  
Max. compression : 88 lb

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6203 ZZ              | 6202 ZZ              |
| Sealing              | : | Without Bearing Seal | 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 |      |