

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809008

Catalog # : .3312OT3E56C-S

Frame : 56C  
 Output : 0.33 HP (0.25 kW)  
 Poles : 6  
 Frequency : 60 Hz  
 Rated voltage : 208-230/460 V  
 Rated current : 1.54-1.40/0.698 A  
 L. R. Amperes : 7.72-6.98/3.49 A  
 LRC : 5.0x(Code K)  
 No load current : 1.03-1.20/0.600 A  
 Rated speed : 1160 rpm  
 Slip : 3.33 %  
 Rated torque : 1.49 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 280 %  
 Insulation class : F  
 Service factor : 1.35  
 Moment of inertia (J) : 0.0710 sq.ft.lb

Locked rotor time : 63s (cold) 35s (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> : 50.0 dB(A)  
 Starting method : Direct On Line  
 Approx. weight<sup>3</sup> : 18.8 lb

| Output         | 25%  | 50%  | 75%  | 100% |      |      |      |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 55.6 | 61.4 | 59.5 | 62.7 | 66.0 | 67.9 | 71.4 | 68.8 |
|                | 55.7 | 58.1 | 65.3 | 68.1 |      |      |      |      |
| Power Factor   | 0.23 | 0.27 | 0.42 | 0.50 | 0.53 | 0.63 | 0.63 | 0.73 |
|                | 0.24 | 0.44 | 0.56 | 0.66 |      |      |      |      |

Foundation loads  
 Max. traction : 37 lb  
 Max. compression : 55 lb

|                      | Drive end            | Non drive end        |
|----------------------|----------------------|----------------------|
| 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      |         |      |