

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 13246703  
Catalog # : .5012ES1B56CFL-S

Frame : 56C  
Output : 0.5 HP (0.37 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 115/208-230 V  
Rated current : 6.40/3.54-3.20 A  
L. R. Amperes : 42.2/23.4-21.1 A  
LRC : 6.6x(Code L)  
No load current : 4.40/1.90-2.20 A  
Rated speed : 1170 rpm  
Slip : 2.50 %  
Rated torque : 2.24 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1241 sq.ft.lb  
Design : N

Locked rotor time : 32s (cold) 18s (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> : 54.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 31.9 lb

| Output         | 25%  | 50%  | 75%  | 100% |
|----------------|------|------|------|------|
| Efficiency (%) | 51.0 | 54.0 | 63.0 | 67.0 |
| Power Factor   | 0.34 | 0.58 | 0.67 | 0.72 |

Foundation loads  
Max. traction : 41 lb  
Max. compression : 73 lb

|                      | Drive end        | Non drive end        |
|----------------------|------------------|----------------------|
| 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         | 26/03/2024      |               |         |      |
|              |                 | Revision      |         |      |