

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12805246

Catalog # : 00236ES3E56C-S

Frame : 56HC  
Output : 2 HP (1.5 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 5.24/2.62 A  
L. R. Amperes : 40.3/20.2 A  
LRC : 7.7x(Code K)  
No load current : 2.07/1.04 A  
Rated speed : 3475 rpm  
Slip : 3.47 %  
Rated torque : 3.02 ft.lb  
Locked rotor torque : 229 %  
Breakdown torque : 290 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.0963 sq.ft.lb  
Design : A

Locked rotor time : 19s (cold) 11s (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> : 68.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 32.4 lb

| Output         | 50%  | 75%  | 100% |
|----------------|------|------|------|
| Efficiency (%) | 75.5 | 78.5 | 80.0 |
| Power Factor   | 0.76 | 0.86 | 0.90 |

Foundation loads  
Max. traction : 70 lb  
Max. compression : 102 lb

|                      | Drive end        | Non drive end        |
|----------------------|------------------|----------------------|
| Bearing type         | 6204 ZZ          | 6202 ZZ              |
| Sealing              | V'Ring           | Without Bearing Seal |
| Lubrication interval | -                | -                    |
| Lubricant amount     | -                | -                    |
| Lubricant type       | Mobil Polyrex EM |                      |

Notes:  
USABLE @208V 5.79A SF 1.00 SFA 5.79A

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 / 1Revision |         |      |
| Checked by   |                 |                       |         |      |
| Date         | 27/03/2024      |                       |         |      |