

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 14324019

Catalog # : 01526EP3PCT286VF1-W2

Frame : 284/6T  
Output : 3.75 HP (2.8 kW)  
Poles : 12  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 14.8 A  
L. R. Amperes : 48.9 A  
LRC : 3.3x(Code E)  
No load current : 9.20 A  
Rated speed : 580 rpm  
Slip : 3.33 %  
Rated torque : 34.0 ft.lb  
Locked rotor torque : 130 %  
Breakdown torque : 180 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 9.16 sq.ft.lb

Locked rotor time : 162s (cold) 90s (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> : 485 lb

| Output         | 25%  | 50%  | 75%  | 100% |      |      |      |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 78.4 | 90.9 | 80.0 | 91.0 | 82.5 | 90.2 | 84.0 | 90.2 |
| Power Factor   | 0.26 | 0.44 | 0.44 | 0.70 | 0.59 | 0.81 | 0.65 | 0.85 |

Foundation loads  
Max. traction : 631 lb  
Max. compression : 1116 lb

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | 6311 2RS C3      | 6211 2RS C3   |
| Sealing              | V'Ring           | V'Ring        |
| 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 |
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|              |                 | Revision      |         |      |

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Customer :

Space heater information

Voltage: 110-127/200-240 V

|              |                 |  |               |         |          |
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