

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12173005

Catalog # : 01089EP3PCT215VF1-W2

Frame : 213/5T  
Output : 10 HP (7.5 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 29.9 A  
L. R. Amperes : 209 A  
LRC : 7.0x(Code J)  
No load current : 16.6 A  
Rated speed : 1765 rpm  
Slip : 1.94 %  
Rated torque : 29.8 ft.lb  
Locked rotor torque : 210 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 1.56 sq.ft.lb

Locked rotor time : 10s (cold) 6s (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> : 61.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 172 lb

| Output         | 25%  | 50%  | 75%  | 100% |      |      |      |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 86.7 | 74.4 | 87.0 | 76.0 | 88.5 | 80.0 | 88.5 | 81.5 |
| Power Factor   | 0.36 | 0.22 | 0.63 | 0.42 | 0.75 | 0.52 | 0.82 | 0.58 |

Foundation loads  
Max. traction : 83 lb  
Max. compression : 255 lb

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | 6308 2RS         | 6207 2RS      |
| 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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| Date         | 28/03/2024      |                           |         |      |

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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