

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12173260

Catalog # : 02089EP3PCT286V2-W22

Frame : 284/6T  
Output : 20 HP (15 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 57.3 A  
L. R. Amperes : 344 A  
LRC : 6.0x(Code G)  
No load current : 21.2 A  
Rated speed : 1765 rpm  
Slip : 1.94 %  
Rated torque : 59.5 ft.lb  
Locked rotor torque : 190 %  
Breakdown torque : 240 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 5.85 sq.ft.lb

Locked rotor time : 25s (cold) 14s (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-2  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 64.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 471 lb

| Output         | 25%  | 50%  | 75%  | 100% |      |      |      |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 87.5 | 67.7 | 88.5 | 70.0 | 90.2 | 76.0 | 91.0 | 78.5 |
| Power Factor   | 0.46 | 0.20 | 0.71 | 0.35 | 0.80 | 0.46 | 0.83 | 0.54 |

Foundation loads  
Max. traction : 77 lb  
Max. compression : 547 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 |
|--------------|-----------------|---------------------------|---------|------|
|              |                 |                           |         |      |
| Performed by |                 | Page<br>1 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 28/03/2024      |                           |         |      |

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Space heater information

Voltage: 110-127/200-240 V

|              |                 |  |           |         |          |
|--------------|-----------------|--|-----------|---------|----------|
| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           |         |          |
| Date         | 28/03/2024      |  |           |         |          |
|              |                 |  |           | 2 / 2   |          |