

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase  
Product code : 12174929  
Catalog # : 04089EP3QCT326V-W22

|                       |                 |                             |                       |
|-----------------------|-----------------|-----------------------------|-----------------------|
| Frame                 | : 324/6T        | Locked rotor time           | : 16s (cold) 9s (hot) |
| Output                | : 40 HP (30 kW) | Temperature rise            | : 80 K                |
| Poles                 | : 4             | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz         | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 460 V         | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 47.9 A        | Protection degree           | : IP55                |
| L. R. Amperes         | : 335 A         | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 7.0x(Code H)  | Mounting                    | : F-2                 |
| No load current       | : 18.0 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 1780 rpm      | Noise level <sup>2</sup>    | : 69.0 dB(A)          |
| Slip                  | : 1.11 %        | Starting method             | : Direct On Line      |
| Rated torque          | : 118 ft.lb     | Approx. weight <sup>3</sup> | : 593 lb              |
| Locked rotor torque   | : 270 %         |                             |                       |
| Breakdown torque      | : 280 %         |                             |                       |
| Insulation class      | : F             |                             |                       |
| Service factor        | : 1.15          |                             |                       |
| Moment of inertia (J) | : 9.16 sq.ft.lb |                             |                       |

| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |          |
|----------------|------|------|------|------|------------------|----------|
| Efficiency (%) | 91.3 | 84.7 | 91.5 | 85.0 | 92.4             | 87.0     |
| Power Factor   | 0.45 | 0.26 | 0.70 | 0.45 | 0.80             | 0.56     |
|                | 0.85 | 0.60 |      |      |                  |          |
|                |      |      |      |      | Max. traction    | : 90 lb  |
|                |      |      |      |      | Max. compression | : 683 lb |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6312 2RS C3      | 6212 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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| Checked by   |                 |                           |         |      |
| Date         | 28/03/2024      |                           |         |      |

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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