

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase  
Product code : 12173119  
Catalog # : 01589EP3PCT254V-W22

|                       |                 |                             |                        |
|-----------------------|-----------------|-----------------------------|------------------------|
| Frame                 | : 254T          | Locked rotor time           | : 25s (cold) 14s (hot) |
| Output                | : 15 HP (11 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 4             | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz         | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 200 V         | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 43.7 A        | Protection degree           | : IP55                 |
| L. R. Amperes         | : 293 A         | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.7x(Code H)  | Mounting                    | : F-2                  |
| No load current       | : 18.9 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1770 rpm      | Noise level <sup>2</sup>    | : 64.0 dB(A)           |
| Slip                  | : 1.67 %        | Starting method             | : Direct On Line       |
| Rated torque          | : 44.5 ft.lb    | Approx. weight <sup>3</sup> | : 2.2 lb               |
| Locked rotor torque   | : 250 %         |                             |                        |
| Breakdown torque      | : 270 %         |                             |                        |
| Insulation class      | : F             |                             |                        |
| Service factor        | : 1.15          |                             |                        |
| Moment of inertia (J) | : 2.62 sq.ft.lb |                             |                        |

|                |      |      |      |      |                  |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |      |      |      |                  |          |
| Efficiency (%) | 85.4 | 75.4 | 86.5 | 77.0 | 88.5             | 80.0 | 89.5 | 81.5 | Max. traction    | : 181 lb |
| Power Factor   | 0.39 | 0.21 | 0.61 | 0.37 | 0.73             | 0.48 | 0.81 | 0.57 | Max. compression | : 183 lb |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6309 2RS C3      | 6209 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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