

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase  
Product code : 14324107  
Catalog # : 04026EP3QCT365V-W22

|                       |                  |                             |                         |
|-----------------------|------------------|-----------------------------|-------------------------|
| Frame                 | : 364/5T         | Locked rotor time           | : 162s (cold) 90s (hot) |
| Output                | : 10 HP (7.5 kW) | Temperature rise            | : 80 K                  |
| Poles                 | : 12             | 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         | : 17.7 A         | Protection degree           | : IP55                  |
| L. R. Amperes         | : 65.5 A         | Cooling method              | : IC411 - TEFC          |
| LRC                   | : 3.7x(Code F)   | Mounting                    | : F-2                   |
| No load current       | : 12.7 A         | Rotation <sup>1</sup>       | : Both (CW and CCW)     |
| Rated speed           | : 590 rpm        | Noise level <sup>2</sup>    | : 60.0 dB(A)            |
| Slip                  | : 1.67 %         | Starting method             | : Direct On Line        |
| Rated torque          | : 89.0 ft.lb     | Approx. weight <sup>3</sup> | : 881 lb                |
| Locked rotor torque   | : 130 %          |                             |                         |
| Breakdown torque      | : 180 %          |                             |                         |
| Insulation class      | : F              |                             |                         |
| Service factor        | : 1.15           |                             |                         |
| Moment of inertia (J) | : 29.0 sq.ft.lb  |                             |                         |

| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |      |               |           |                  |           |
|----------------|------|------|------|------|------------------|------|---------------|-----------|------------------|-----------|
| Efficiency (%) | 87.3 | 90.0 | 87.5 | 90.2 | 88.5             | 91.7 | Max. traction | : 1257 lb |                  |           |
| Power Factor   | 0.21 | 0.40 | 0.40 | 0.67 | 0.52             | 0.78 | 0.60          | 0.84      | Max. compression | : 2138 lb |

|                      |   |                             |                      |
|----------------------|---|-----------------------------|----------------------|
|                      |   | <u>Drive end</u>            | <u>Non drive end</u> |
| Bearing type         | : | 6314 2RS C3                 | 6314 2RS C3          |
| Sealing              | : | WSeal                       | WSeal                |
| Lubrication interval | : | -                           | -                    |
| Lubricant amount     | : | -                           | -                    |
| Lubricant type       | : | POLYREA ESTER OIL (WT/ ENS) |                      |

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      |                           |         |      |

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Customer :

### Space heater information

Voltage: 110-127/200-240 V

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