

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 13876938  
Catalog # : 00318ES1E184T-W22

|                       |                    |                             |                       |
|-----------------------|--------------------|-----------------------------|-----------------------|
| Frame                 | : 182/4T           | Locked rotor time           | : 14s (cold) 8s (hot) |
| Output                | : 3 HP (2.2 kW)    | Temperature rise            | : 80 K                |
| Poles                 | : 4                | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz            | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 208-230/460 V    | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 14.5-13.8/6.90 A | Protection degree           | : IP55                |
| L. R. Amperes         | : 112-106/53.1 A   | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 7.7x(Code K)     | Mounting                    | : F-1                 |
| No load current       | : 5.78-6.70/3.35 A | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 1745 rpm         | Noise level <sup>2</sup>    | : 60.0 dB(A)          |
| Slip                  | : 3.06 %           | Starting method             | : Direct On Line      |
| Rated torque          | : 9.03 ft.lb       | Approx. weight <sup>3</sup> | : 106 lb              |
| Locked rotor torque   | : 290 %            |                             |                       |
| Breakdown torque      | : 270 %            |                             |                       |
| Insulation class      | : F                |                             |                       |
| Service factor        | : 1.15             |                             |                       |
| Moment of inertia (J) | : 0.3735 sq.ft.lb  |                             |                       |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 65.0 | 74.0 | 77.0 | Max. traction    | : 103 lb |
| Power Factor   | 0.79 | 0.87 | 0.90 | Max. compression | : 208 lb |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6207 ZZ        | : 6206 ZZ     |
| 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 / 1 |          |      |
| Checked by   |                 |               |          |      |
| Date         | 28/03/2024      |               |          |      |
|              |                 |               | Revision |      |