

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 14091668  
Catalog # : 00512ES1E215T-W22

|                       |                    |                             |                        |
|-----------------------|--------------------|-----------------------------|------------------------|
| Frame                 | : 213/5T           | Locked rotor time           | : 25s (cold) 14s (hot) |
| Output                | : 5 HP (3.7 kW)    | Temperature rise            | : 80 K                 |
| Poles                 | : 6                | 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         | : 22.0-21.2/10.6 A | Protection degree           | : IP55                 |
| L. R. Amperes         | : 185-178/89.0 A   | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 8.4x(Code K)     | Mounting                    | : F-1                  |
| No load current       | : 6.47-7.50/3.75 A | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1175 rpm         | Noise level <sup>2</sup>    | : 63.0 dB(A)           |
| Slip                  | : 2.08 %           | Starting method             | : Direct On Line       |
| Rated torque          | : 22.3 ft.lb       | Approx. weight <sup>3</sup> | : 186 lb               |
| Locked rotor torque   | : 220 %            |                             |                        |
| Breakdown torque      | : 250 %            |                             |                        |
| Insulation class      | : F                |                             |                        |
| Service factor        | : 1.15             |                             |                        |
| Moment of inertia (J) | : 1.98 sq.ft.lb    |                             |                        |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 77.0 | 83.9 | 82.5 | Max. traction    | : 222 lb |
| Power Factor   | 0.85 | 0.90 | 0.92 | Max. compression | : 408 lb |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6308 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 |      |