

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 JM Pump Single-Phase

Product code : 14062292  
Catalog # : 00156ES1E143JM-W22

|                       |                    |                             |                        |
|-----------------------|--------------------|-----------------------------|------------------------|
| Frame                 | : 143/5JM          | Locked rotor time           | : 19s (cold) 11s (hot) |
| Output                | : 1.5 HP (1.1 kW)  | Temperature rise            | : 80 K                 |
| Poles                 | : 2                | 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         | : 7.30-6.80/3.40 A | Protection degree           | : IP55                 |
| L. R. Amperes         | : 53.3-49.6/24.8 A | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 7.3x(Code J)     | Mounting                    | : F-1                  |
| No load current       | : 1.81-2.10/1.05 A | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 3520 rpm         | Noise level <sup>2</sup>    | : 69.0 dB(A)           |
| Slip                  | : 2.22 %           | Starting method             | : Direct On Line       |
| Rated torque          | : 2.24 ft.lb       | Approx. weight <sup>3</sup> | : 61.8 lb              |
| Locked rotor torque   | : 229 %            |                             |                        |
| Breakdown torque      | : 240 %            |                             |                        |
| Insulation class      | : F                |                             |                        |
| Service factor        | : 1.15             |                             |                        |
| Moment of inertia (J) | : 0.0470 sq.ft.lb  |                             |                        |

|                |      |      |      |      |                  |         |
|----------------|------|------|------|------|------------------|---------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |         |
| Efficiency (%) | 65.0 | 67.0 | 72.0 | 74.0 | Max. traction    | : 15 lb |
| Power Factor   | 0.64 | 0.91 | 0.94 | 0.95 | Max. compression | : 77 lb |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6206 ZZ        | : 6203 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<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 30/03/2024      |                           |         |      |