

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12674985

Catalog # : 00718ET3E213T-SG

|                       |                   |                             |                        |
|-----------------------|-------------------|-----------------------------|------------------------|
| Frame                 | : 213/5T          | Locked rotor time           | : 32s (cold) 18s (hot) |
| Output                | : 7.5 HP (5.5 kW) | Temperature rise            | : 80 K                 |
| Poles                 | : 4               | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz           | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V       | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 18.4/9.18 A     | Protection degree           | : IP55                 |
| L. R. Amperes         | : 134/67.0 A      | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 7.3x(Code J)    | Mounting                    | : F-1                  |
| No load current       | : 8.81/4.41 A     | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1770 rpm        | Noise level <sup>2</sup>    | : 60.0 dB(A)           |
| Slip                  | : 1.67 %          | Starting method             | : Direct On Line       |
| Rated torque          | : 22.3 ft.lb      | Approx. weight <sup>3</sup> | : 118 lb               |
| Locked rotor torque   | : 260 %           |                             |                        |
| Breakdown torque      | : 300 %           |                             |                        |
| Insulation class      | : F               |                             |                        |
| Service factor        | : 1.15            |                             |                        |
| Moment of inertia (J) | : 0.9380 sq.ft.lb |                             |                        |
| Design                | : B               |                             |                        |

|                |      |      |      |      |                  |      |      |      |                  |          |
|----------------|------|------|------|------|------------------|------|------|------|------------------|----------|
| Output         | 25%  | 50%  | 75%  | 100% | Foundation loads |      |      |      |                  |          |
| Efficiency (%) | 89.4 | 91.3 | 90.2 | 90.2 | 91.0             | 90.0 | 91.7 | 88.6 | Max. traction    | : 396 lb |
|                | 89.8 |      | 89.4 |      | 90.1             |      | 89.4 |      |                  |          |
| Power Factor   | 0.39 | 0.45 | 0.64 | 0.71 | 0.76             | 0.82 | 0.82 | 0.86 | Max. compression | : 514 lb |
|                | 0.38 |      | 0.64 |      | 0.76             |      | 0.83 |      |                  |          |

|                      |   |  |  |                  |                  |                      |
|----------------------|---|--|--|------------------|------------------|----------------------|
|                      |   |  |  | <u>Drive end</u> |                  | <u>Non drive end</u> |
| Bearing type         | : |  |  | 6208 ZZ          |                  | 6206 ZZ              |
| Sealing              | : |  |  | V'Ring           |                  | Without Bearing Seal |
| 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 |                 |           |         |          |
| Checked by   |                 |           |         |          |
| Date         | 28/03/2024      |           |         |          |
|              |                 |           | Page    | Revision |
|              |                 |           | 1 / 1   |          |