

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 14593678

Catalog # : 01518ET3EBM254T-S

Frame : 254/6T  
Output : 15 HP (11 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 36.4/18.2 A  
L. R. Amperes : 237/118 A  
LRC : 6.5x(Code G)  
No load current : 17.3/8.65 A  
Rated speed : 1770 rpm  
Slip : 1.67 %  
Rated torque : 44.5 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 2.15 sq.ft.lb  
Design : B

Locked rotor time : 34s (cold) 19s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 68.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 243 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 90.8 | 92.5 | 91.0 | 91.5 | 92.4 | 91.2 | 92.4 | 89.9 |
|                | 91.3 |      | 90.9 |      | 91.4 |      | 90.7 |      |
| Power Factor   | 0.39 | 0.45 | 0.64 | 0.71 | 0.76 | 0.81 | 0.82 | 0.85 |
|                | 0.38 |      | 0.64 |      | 0.76 |      | 0.82 |      |

Foundation loads  
Max. traction : 600 lb  
Max. compression : 844 lb

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6309 Z C3        | 6208 Z C3            |
| Sealing              | : | V'Ring           | Without Bearing Seal |
| Lubrication interval | : | 20000 h          | 20000 h              |
| Lubricant amount     | : | 13 g             | 8 g                  |
| 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         | 29/03/2024      |           |         |      |

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Revision

Customer :

Brake information

Voltage: 208-230/460//190/380 V  
Brake Torque: 75.2 ft.lb

| Rev.         | Changes Summary |  | Performed     | Checked | Date     |
|--------------|-----------------|--|---------------|---------|----------|
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| Checked by   |                 |  |               |         |          |
| Date         | 29/03/2024      |  |               |         |          |