

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 14593670

Catalog # : 00158ET3EBM145T-S

Frame : 143/5T  
Output : 1.5 HP (1.1 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 4.04/2.02 A  
L. R. Amperes : 33.1/16.6 A  
LRC : 8.2x(Code K)  
No load current : 2.17/1.08 A  
Rated speed : 1750 rpm  
Slip : 2.78 %  
Rated torque : 4.50 ft.lb  
Locked rotor torque : 270 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1101 sq.ft.lb  
Design : B

Locked rotor time : 37s (cold) 21s (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> : 52.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 50.1 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 85.2 | 86.1 | 85.5 | 84.7 | 86.5 | 84.7 | 86.5 | 82.7 |
|                | 83.8 |      | 83.5 |      | 84.9 |      | 84.1 |      |
| Power Factor   | 0.35 | 0.41 | 0.59 | 0.67 | 0.72 | 0.78 | 0.79 | 0.84 |
|                | 0.34 |      | 0.59 |      | 0.72 |      | 0.80 |      |

Foundation loads  
Max. traction : 118 lb  
Max. compression : 168 lb

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6205 ZZ          | 6203 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 |
|--------------|-----------------|---------------------------|---------|------|
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| Checked by   |                 |                           |         |      |
| Date         | 29/03/2024      |                           |         |      |

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Customer :

Brake information

Voltage: 208-230/460//190/380 V  
Brake Torque: 10.3 ft.lb

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|--------------|-----------------|--|---------------|---------|----------|
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| Checked by   |                 |  |               |         |          |
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