

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 15378604

Catalog # : 01018OT3E215T-SGH

Frame : 213/5T  
Output : 10 HP (7.5 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 24.8/12.4 A  
L. R. Amperes : 174/86.8 A  
LRC : 7.0x(Code H)  
No load current : 12.0/5.99 A  
Rated speed : 1770 rpm  
Slip : 1.67 %  
Rated torque : 29.7 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 350 %  
Insulation class : H  
Service factor : 1.15  
Moment of inertia (J) : 1.30 sq.ft.lb  
Design : B

Locked rotor time : 25s (cold) 14s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Cooling method : IC01 - ODP  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 59.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 121 lb

| Output         | 25%  |      | 50%  |      | 75%  |      | 100% |      |
|----------------|------|------|------|------|------|------|------|------|
| Efficiency (%) | 89.4 | 91.4 | 90.2 | 90.1 | 91.0 | 89.7 | 91.7 | 88.1 |
|                | 89.5 |      | 89.1 |      | 89.7 |      | 89.0 |      |
| Power Factor   | 0.38 | 0.45 | 0.64 | 0.72 | 0.77 | 0.82 | 0.83 | 0.87 |
|                | 0.38 |      | 0.64 |      | 0.77 |      | 0.84 |      |

Foundation loads  
Max. traction : 544 lb  
Max. compression : 665 lb

|                        | Drive end            | Non drive end        |
|------------------------|----------------------|----------------------|
| Bearing type :         | 6208 ZZ              | 6206 ZZ              |
| Sealing :              | Without Bearing Seal | 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         | 26/03/2024      |           |         |      |

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Revision