

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12845393

Catalog # : 00518ET3P184T-S

Frame : 182/4T  
Output : 5 HP (3.7 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 14.9 A  
L. R. Amperes : 104 A  
LRC : 7.0x(Code J)  
No load current : 7.92 A  
Rated speed : 1750 rpm  
Slip : 2.78 %  
Rated torque : 15.0 ft.lb  
Locked rotor torque : 220 %  
Breakdown torque : 300 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.3080 sq.ft.lb  
Design : B

Locked rotor time : 28s (cold) 16s (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> : 56.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 74.9 lb

| Output         | 25%  | 50%  | 75%  | 100% |
|----------------|------|------|------|------|
| Efficiency (%) | 88.2 | 88.5 | 89.5 | 89.5 |
| Power Factor   | 0.35 | 0.60 | 0.73 | 0.80 |

Foundation loads  
Max. traction : 250 lb  
Max. compression : 325 lb

|                      | Drive end        | Non drive end        |
|----------------------|------------------|----------------------|
| Bearing type         | 6206 ZZ          | 6205 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 |                 | Page Revision<br>1 / 1 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 27/03/2024      |                        |         |      |