

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12630776

Catalog # : 00518ET3E184T-S

Frame : 182/4T
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 13.0/6.49 A
L. R. Amperes : 90.9/45.4 A
LRC : 7.0x(Code J)
No load current : 6.89/3.44 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
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 74.6 lb

Output	50%	75%	100%
Efficiency (%)	88.5 87.9 86.5	89.5 87.2 87.2	89.5 84.9 86.1
Power Factor	0.60 0.68 0.59	0.73 0.80 0.73	0.80 0.84 0.80

Foundation loads
Max. traction : 301 lb
Max. compression : 375 lb

		<u>Drive end</u>	<u>Non drive end</u>
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 1 / 1		
Checked by				
Date	27/03/2024			