

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 13163346

Catalog # : 00518ET3E184TC-SG

Frame : 182/4TC
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 : 83.8 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.2	89.7	88.5	87.9	89.5	87.2	89.5	84.9
	87.1		86.5		87.2		86.1	
Power Factor	0.35	0.42	0.60	0.68	0.73	0.80	0.80	0.84
	0.34		0.59		0.73		0.80	

Foundation loads
Max. traction : 296 lb
Max. compression : 380 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				
Checked by				
Date	27/03/2024			

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Revision