

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 13484505

Catalog # : 00318OT3ER182TC-S

Frame : 182/4TC
Output : 3 HP (2.2 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.72/3.86 A
L. R. Amperes : 64.8/32.4 A
LRC : 8.4x(Code K)
No load current : 4.14/2.07 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 8.93 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 330 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.3092 sq.ft.lb
Design : B

Locked rotor time : 27s (cold) 15s (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 : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 55.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 73.5 lb

Output	50%	75%	100%
Efficiency (%)	87.5 86.0	88.5 86.5	89.5 86.7
	86.8	87.8	87.2
Power Factor	0.60 0.68	0.73 0.79	0.80 0.85
	0.60	0.73	0.81

Foundation loads
Max. traction : 168 lb
Max. compression : 242 lb

	Drive end	Non drive end
Bearing type	6206 ZZ	6205 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		Page 1 / 1		
Checked by				
Date	27/03/2024			
		Revision		