

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase

Product code : 12751163

Catalog # : 00518OT3E184TC-S

Frame : 182/4TC
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 12.7/6.33 A
L. R. Amperes : 91.2/45.6 A
LRC : 7.2x(Code J)
No load current : 6.29/3.15 A
Rated speed : 1760 rpm
Slip : 2.22 %
Rated torque : 14.9 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.4003 sq.ft.lb
Design : B

Locked rotor time : 21s (cold) 12s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 55.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 88.7 lb

Output	50%	75%	100%
Efficiency (%)	88.5 88.2	88.5 87.3	89.5 84.8
	87.5	87.7	86.4
Power Factor	0.63 0.71	0.76 0.82	0.82 0.86
	0.64	0.76	0.83

Foundation loads
Max. traction : 267 lb
Max. compression : 356 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		