

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11168086

Catalog # : 05036OT3H324JM

Frame : 324JM
Output : 50 HP (37 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 47.3 A
L. R. Amperes : 303 A
LRC : 6.4x(Code G)
No load current : 16.4 A
Rated speed : 3565 rpm
Slip : 0.97 %
Rated torque : 73.7 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 240 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 3.83 sq.ft.lb
Design : B

Locked rotor time : 50s (cold) 28s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 74.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 491 lb

Output	25%	50%	75%	100%
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Efficiency (%)	92.2	92.4	93.6	93.6
Power Factor	0.49	0.74	0.82	0.84

Foundation loads

Max. traction : 433 lb
Max. compression : 923 lb

	Drive end	Non drive end
Bearing type	6312 Z C3	6212 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	19658 h	20000 h
Lubricant amount	21 g	13 g
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	28/03/2024			
		Revision		