

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13469125

Catalog # : 05036OT3V324JPV

Frame	: 324JP	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 50 HP (37 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 136/68.0 A	Protection degree	: IP23
L. R. Amperes	: 870/435 A	Cooling method	: IC01 - ODP
LRC	: 6.4x(Code G)	Mounting	: W-6
No load current	: 47.1/23.6 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3565 rpm	Noise level ²	: 74.0 dB(A)
Slip	: 0.97 %	Starting method	: Direct On Line
Rated torque	: 73.7 ft.lb	Approx. weight ³	: 490 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		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	92.2	92.4	93.6	93.6	Max. traction	: 433 lb
Power Factor	0.49	0.74	0.82	0.84	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	: 9829 h	12143 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				
Checked by				
Date	28/03/2024			
			Page	Revision
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