

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11261479

Catalog # : 05036OT3E324JM

Frame	: 324JM	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	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 118/59.1 A	Protection degree	: IP23
L. R. Amperes	: 756/378 A	Cooling method	: IC01 - ODP
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 41.0/20.5 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	: 491 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	88.0	92.4	89.8	93.6	91.4	93.6	93.3	Max. traction	: 537 lb
	87.9	88.6	89.6	90.0	91.6	92.0	93.3	93.4		
	90.1	90.1	91.0	91.0	91.7	91.7	92.5	92.5		
	90.1		91.0		91.7		92.5			
Power Factor	0.49	0.50	0.74	0.74	0.82	0.81	0.84	0.84	Max. compression	: 1029 lb
	0.44	0.40	0.68	0.64	0.77	0.73	0.81	0.79		
	0.56	0.50	0.78	0.73	0.84	0.81	0.85	0.83		
	0.45		0.69		0.78		0.82			

		<u>Drive end</u>	<u>Non drive end</u>
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	