

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 11118213

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	: 117/58.4 A	Protection degree	: IP23
L. R. Amperes	: 724/362 A	Cooling method	: IC01 - ODP
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 30.0/15.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3560 rpm	Noise level ²	: 74.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 73.8 ft.lb	Approx. weight ³	: 458 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.30 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	90.8	90.7	91.0	90.2	92.4	91.0	92.4	90.2	Max. traction	: 453 lb
	90.0	89.3	89.5	89.5	91.0	91.0	90.2	91.0		
Power Factor	0.54	0.63	0.75	0.83	0.83	0.86	0.86	0.87	Max. compression	: 911 lb
	0.56	0.50	0.76	0.69	0.82	0.78	0.84	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	:	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		Page 1 / 1		
Checked by				
Date	28/03/2024			
			Revision	