

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump High Efficiency Three-Phase Product code : 14830325
Catalog # : 05036OP3EFP324JPV-W4

Frame	: 324/6JP	Locked rotor time	: 36s (cold) 20s (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	: 721/361 A	Cooling method	: IC01 - ODP
LRC	: 6.1x(Code G)	Mounting	: W-6
No load current	: 40.0/20.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Starting method	: Direct On Line
Slip	: 1.25 %	Approx. weight ³	: 446 lb
Rated torque	: 73.9 ft.lb		
Locked rotor torque	: 170 %		
Breakdown torque	: 200 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.01 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads
Efficiency (%)	91.5	89.6	91.7	90.2	92.4	90.2	92.4	90.7	Max. traction
	90.5	90.7	91.0	91.0	91.0	91.7	91.4	91.8	
Power Factor	0.49	0.59	0.74	0.80	0.82	0.86	0.85	0.87	Max. compression
	0.52	0.47	0.76	0.72	0.83	0.81	0.86	0.85	

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	9829 h	14226 h
Lubricant amount	:	21 g	11 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	30/03/2024			
			Revision	