

Three Phase Induction Motor - Squirrel Cage



Product line	: Close Coupled Pump High Efficiency Three-Phase	Product code :	10342278
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Frame	: 324JP	Locked rotor time	: 43s (cold) 24s (hot)
Output	: 40 HP (30 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 98.8/49.4 A	Protection degree	: IP23
L. R. Amperes	: 573/287 A	Cooling method	: IC01 - ODP
LRC	: 5.8x(Code G)	Mounting	: F-1
No load current	: 42.0/21.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1775 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 1.39 %	Starting method	: Direct On Line
Rated torque	: 118 ft.lb	Approx. weight ³	: 465 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 5.40 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	92.2	90.6	92.4	90.2	93.0	91.0	93.0	90.2	Max. traction	: 978 lb
	90.6	90.8	90.2	91.0	91.0	91.0	90.2	91.0		
Power Factor	0.41	0.52	0.67	0.74	0.77	0.81	0.82	0.82	Max. compression	: 1443 lb
	0.48	0.44	0.70	0.67	0.79	0.77	0.81	0.80		

	<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	20000 h	20000 h
Lubricant amount	21 g	13 g
Lubricant type	Mobil Polyrex EM	

Notes:

- (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	Revision
Checked by					
Date	28/03/2024				