

Three Phase Induction Motor - Squirrel Cage



Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 10580504

Frame	: 284JP	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 30 HP (22 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	: 69.0/34.5 A	Protection degree	: IP23
L. R. Amperes	: 428/214 A	Cooling method	: IC01 - ODP
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 18.2/9.10 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3540 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 44.5 ft.lb	Approx. weight ³	: 330 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.68 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.9	89.1	91.0	88.5	91.0	89.5	91.0	88.5	Max. traction	: 374 lb
	89.1	88.2	88.5	88.5	89.5	89.5	88.5	89.5		
Power Factor	0.57	0.66	0.80	0.85	0.86	0.88	0.88	0.89	Max. compression	: 704 lb
	0.62	0.58	0.82	0.80	0.87	0.86	0.88	0.88		

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6311 Z C3	6211 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	11517 h	14226 h
Lubricant amount	18 g	11 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				