

Three Phase Induction Motor - Squirrel Cage



Product line : Close Coupled Pump High Efficiency Three-Phase Product code : 10792436

Frame	: 284JP	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 25 HP (18.5 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	: 60.2/30.1 A	Protection degree	: IP23
L. R. Amperes	: 361/181 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)	Mounting	: F-1
No load current	: 23.0/11.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 74.4 ft.lb	Approx. weight ³	: 329 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.77 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.8	89.6	91.0	88.5	91.7	90.2	91.7	88.5	Max. traction	: 701 lb
	89.1	89.8	88.5	89.5	89.5	90.2	88.5	89.5		
Power Factor	0.45	0.52	0.70	0.75	0.79	0.83	0.84	0.85	Max. compression	: 1030 lb
	0.48	0.45	0.72	0.69	0.81	0.79	0.84	0.83		

	<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	20000 h	20000 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				