

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JP Pump High Efficiency Three-Phase Product code : 12962881

Frame	: 254/6JP	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 28.6/14.3 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 149/74.4 A	Mounting	: W-6
LRC	: 5.2x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 16.2/8.09 A	Noise level ²	: 59.0 dB(A)
Rated speed	: 1180 rpm	Starting method	: Direct On Line
Slip	: 1.67 %	Approx. weight ³	: 184 lb
Rated torque	: 44.5 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.00 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	88.2	89.7	88.5	88.3	90.2	88.2	90.2	86.4	Max. traction	: 479 lb
	86.7		86.5		87.7		87.1			
Power Factor	0.30	0.36	0.53	0.61	0.66	0.73	0.73	0.78	Max. compression	: 663 lb
	0.29		0.52		0.65		0.73			

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6309 Z C3	6208 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	8 g
Lubricant type	Mobil Polyrex EM	

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	Revision
Checked by					
Date	29/03/2024				