

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JP Pump High Efficiency Three-Phase Product code : 12962687

Frame	: 254/6JP	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 7.5 HP (5.5 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	: 21.6/10.8 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 108/54.0 A	Mounting	: W-6
LRC	: 5.0x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 12.6/6.28 A	Noise level ²	: 59.0 dB(A)
Rated speed	: 1175 rpm	Starting method	: Direct On Line
Slip	: 2.08 %	Approx. weight ³	: 157 lb
Rated torque	: 33.5 ft.lb		
Locked rotor torque	: 200 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.50 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	86.2	87.4	86.5	86.2	Max. traction : 350 lb
	84.0	84.1	86.0	85.7	
Power Factor	0.30	0.36	0.53	0.61	Max. compression : 507 lb
	0.29	0.51	0.64	0.72	

	<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	

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
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Date	29/03/2024				