

Three Phase Induction Motor - Squirrel Cage



Product line	: Close Coupled Pump High Efficiency Three-Phase	Product code :	12110327
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Frame	: 254JP	Locked rotor time	: 21s (cold) 12s (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	: 19.3/9.63 A	Protection degree	: IP23
L. R. Amperes	: 121/60.7 A	Cooling method	: IC01 - ODP
LRC	: 6.3x(Code H)	Mounting	: W-6
No load current	: 10.4/5.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 33.5 ft.lb	Approx. weight ³	: 203 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.39 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	87.3	89.2	87.5	88.5	Max. traction : 405 lb
	88.4	87.3	88.5	87.5	
Power Factor	0.35	0.41	0.61	0.65	Max. compression : 608 lb
	0.37	0.35	0.62	0.59	
	0.74	0.79	0.81	0.84	
	0.76	0.73	0.83	0.81	

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6309 Z C3	6209 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	20000 h	20000 h
Lubricant amount	13 g	9 g
Lubricant type	Mobil Polyrex EM	

- (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.

	Performed	Checked	Date
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