

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JP Pump High Efficiency Three-Phase Product code : 12734682

Frame	: 254/6JP	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 25 HP (18.5 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	: 58.0/29.0 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 360/180 A	Mounting	: F-1
LRC	: 6.2x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 22.4/11.2 A	Noise level ²	: 70.0 dB(A)
Rated speed	: 3530 rpm	Starting method	: Direct On Line
Slip	: 1.94 %	Approx. weight ³	: 187 lb
Rated torque	: 37.2 ft.lb		
Locked rotor torque	: 180 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.8718 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	90.0	91.9	90.2	90.3	91.0	89.5	91.0	87.6	Max. traction	: 445 lb
	90.4		89.6		89.8		88.7			
Power Factor	0.48	0.54	0.75	0.81	0.84	0.88	0.88	0.90	Max. compression	: 632 lb
	0.43		0.71		0.82		0.87			

	<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.
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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 1 / 1	Revision
Checked by					
Date	29/03/2024				