

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 12951336

Frame	: 213/5JM	Locked rotor time	: 41s (cold) 23s (hot)
Output	: 5 HP (3.7 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	: 13.8/6.89 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 75.8/37.9 A	Mounting	: W-6
LRC	: 5.5x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 7.34/3.67 A	Noise level ²	: 55.0 dB(A)
Rated speed	: 1170 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 117 lb
Rated torque	: 22.4 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.9006 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	86.2	89.0	86.5	86.5	87.5	82.7
	85.8	84.9	85.6	84.3		
Power Factor	0.34	0.40	0.58	0.66	0.70	0.81
	0.32	0.57	0.70	0.77		

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6209 ZZ	6206 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
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	29/03/2024				