

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 12676924

Frame	: 213/5JM	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 10 HP (7.5 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	: 24.4/12.2 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 156/78.1 A	Mounting	: F-1
LRC	: 6.4x(Code G)	Rotation ¹	: Both (CW and CCW)
No load current	: 10.3/5.13 A	Noise level ²	: 66.0 dB(A)
Rated speed	: 3530 rpm	Starting method	: Direct On Line
Slip	: 1.94 %	Approx. weight ³	: 112 lb
Rated torque	: 14.9 ft.lb		
Locked rotor torque	: 180 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3816 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	87.3	90.4	87.5	87.8	88.5	86.6	88.5	83.8	Max. traction	: 167 lb
	87.9		86.7		86.9		85.4			
Power Factor	0.45	0.51	0.72	0.79	0.83	0.88	0.87	0.91	Max. compression	: 279 lb
	0.42		0.71		0.82		0.88			

	<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				