

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 12951334

Frame	: 182/4JM	Locked rotor time	: 43s (cold) 24s (hot)
Output	: 2 HP (1.5 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	: 6.12/3.06 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 42.2/21.1 A	Mounting	: W-6
LRC	: 6.9x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 3.73/1.87 A	Noise level ²	: 52.0 dB(A)
Rated speed	: 1170 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 78.8 lb
Rated torque	: 8.98 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.4786 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	82.1	84.1	82.5	83.0	85.5	83.6	85.5	81.9	Max. traction	: 149 lb
	81.3		81.3		83.4		82.9			
Power Factor	0.29	0.34	0.51	0.59	0.64	0.72	0.72	0.79	Max. compression	: 228 lb
	0.29		0.52		0.65		0.74			

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6207 ZZ	6205 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	Revision
Checked by				1 / 1	
Date	29/03/2024				