

# Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase      Product code : 12951335

Frame	: 213/5JM	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 3 HP (2.2 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	: 8.62/4.31 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 56.0/28.0 A	Mounting	: W-6
LRC	: 6.5x(Code J)	Rotation <sup>1</sup>	: Both (CW and CCW)
No load current	: 5.60/2.80 A	Noise level <sup>2</sup>	: 55.0 dB(A)
Rated speed	: 1180 rpm	Starting method	: Direct On Line
Slip	: 1.67 %	Approx. weight <sup>3</sup>	: 117 lb
Rated torque	: 13.4 ft.lb		
Locked rotor torque	: 229 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.9029 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	82.9	84.3	84.0	83.1	85.5	83.6	86.5	82.0	Max. traction	: 160 lb
	81.3		81.4		83.4		83.1			
Power Factor	0.29	0.36	0.52	0.62	0.66	0.74	0.74	0.81	Max. compression	: 277 lb
	0.31		0.55		0.68		0.76			

	<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				