

# Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase      Product code : 12676918

Frame	: 143/5JM	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 3 HP (2.2 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	: 7.38/3.69 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 57.6/28.8 A	Mounting	: F-1
LRC	: 7.8x(Code J)	Rotation <sup>1</sup>	: Both (CW and CCW)
No load current	: 3.20/1.60 A	Noise level <sup>2</sup>	: 62.0 dB(A)
Rated speed	: 3475 rpm	Starting method	: Direct On Line
Slip	: 3.47 %	Approx. weight <sup>3</sup>	: 39.1 lb
Rated torque	: 4.53 ft.lb		
Locked rotor torque	: 250 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0496 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	83.8	88.1	84.0	85.7	84.0	84.6	84.0	81.7	Max. traction	: 114 lb
	85.0		84.1		84.7		83.3			
Power Factor	0.45	0.52	0.73	0.80	0.84	0.89	0.89	0.92	Max. compression	: 153 lb
	0.43		0.71		0.83		0.89			

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6206 ZZ	6203 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				