

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 13180601

Frame	: 143/5JM	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 5.90/2.95 A	Protection degree	: IP55
L. R. Amperes	: 44.2/22.1 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code K)	Mounting	: F-1
No load current	: 3.72/1.86 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level <sup>2</sup>	: 52.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 5.98 ft.lb	Approx. weight <sup>3</sup>	: 44.7 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1419 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.1	83.0	81.5	81.9	84.0	82.6	84.0	80.9	Max. traction	: 161 lb
	79.2		79.5		81.9		81.7			
Power Factor	0.30	0.35	0.53	0.62	0.67	0.75	0.76	0.83	Max. compression	: 206 lb
	0.29		0.53		0.68		0.77			

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6206 ZZ	6203 ZZ
Sealing	:				V'Ring	Without Bearing Seal
Lubrication interval	:				-	-
Lubricant amount	:				-	-
Lubricant type	:				Mobil Polyrex EM	

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (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				
Checked by				
Date	29/03/2024			

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Revision