

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium  
Efficiency Three-Phase

Product code : 13173714

Catalog # : 00118OT3E143JM-SG

Frame : 143/5JM  
Output : 1 HP (0.75 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 3.02/1.51 A  
L. R. Amperes : 24.2/12.1 A  
LRC : 8.0x(Code L)  
No load current : 1.92/0.958 A  
Rated speed : 1760 rpm  
Slip : 2.22 %  
Rated torque : 2.98 ft.lb  
Locked rotor torque : 290 %  
Breakdown torque : 360 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1101 sq.ft.lb  
Design : B

Locked rotor time : 39s (cold) 22s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Cooling method : IC01 - ODP  
Mounting : F-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 52.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 37.1 lb

Output	25%		50%		75%		100%	
Efficiency (%)	79.9	82.2	81.5	81.9	84.0	83.4	85.5	82.6
	79.4		80.1		82.9		83.2	
Power Factor	0.29	0.34	0.51	0.59	0.65	0.73	0.73	0.80
	0.29		0.52		0.66		0.75	

Foundation loads  
Max. traction : 85 lb  
Max. compression : 122 lb

	Drive end	Non drive end
Bearing type :	6206 ZZ	6203 ZZ
Sealing :	Without Bearing Seal	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			
			Page	Revision
			1 / 1	