

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:				
Product line	: W22 Close Coupled Pump JM High Efficiency Three-Phase	Product code : 11878529			
Frame	: 143/5JM	Locked rotor time : 19s (cold) 11s (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	: 575 V	Altitude : 1000 m.a.s.l.			
Rated current	: 3.01 A	Protection degree : IP55			
L. R. Amperes	: 20.8 A	Cooling method : IC411 - TEFC			
LRC	: 6.9x(Code H)	Mounting : F-1			
No load current	: 0.960 A	Rotation ¹ : Both (CW and CCW)			
Rated speed	: 3440 rpm	Noise level ² : 68.0 dB(A)			
Slip	: 4.44 %	Starting method : Direct On Line			
Rated torque	: 4.58 ft.lb	Approx. weight ³ : 56.9 lb			
Locked rotor torque	: 280 %				
Breakdown torque	: 310 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0610 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	85.2	85.5	85.5	85.5	Max. traction : 95 lb
Power Factor	0.48	0.71	0.81	0.86	Max. compression : 152 lb

Losses at normative operating points (speed:torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
16.1	13.4	12.9	7.2	4.6	2.7	1.8
<u>Drive end</u>				<u>Non drive end</u>		
Bearing type	: 6206 ZZ				6204 ZZ	
Sealing	: V'Ring				V'Ring	
Lubrication interval	: -				-	
Lubricant amount	: -				-	
Lubricant type	: Mobil Polyrex EM					

Notes:

<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>	<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>
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Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	29/03/2024		Page 1 / 1	Revision