

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase			Product code : 14808663		Catalog # : 00236ET3V145JM-S	
Frame	: 143/5JM			Locked rotor time	: 23s (cold) 13s (hot)	
Output	: 2 HP (1.5 kW)			Temperature rise	: 80 K	
Poles	: 2			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 200/400 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 5.68/2.84 A			Protection degree	: IP55	
L. R. Amperes	: 56.2/28.1 A			Cooling method	: IC411 - TEFC	
LRC	: 9.9x(Code L)			Mounting	: F-1	
No load current	: 2.44/1.22 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3520 rpm			Noise level ²	: 68.0 dB(A)	
Slip	: 2.22 %			Starting method	: Direct On Line	
Rated torque	: 2.98 ft.lb			Approx. weight ³	: 2.2 lb	
Locked rotor torque	: 250 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1279 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	82.1	82.5	85.5	85.5	Max. traction	: 76 lb
Power Factor	0.45	0.73	0.83	0.89	Max. compression	: 79 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)
15.4	10.7	9.4	9.5	4.8	3.5	1.9
		<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					Page	Revision
Date	29/03/2024				1 / 1	