

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase			Product code : 12038008		Catalog # : 00536ET3H184JM-W22	
Frame	: 182/4JM			Locked rotor time	: 32s (cold) 18s (hot)	
Output	: 5 HP (3.7 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	: 4.72 A			Protection degree	: IP55	
L. R. Amperes	: 35.9 A			Cooling method	: IC411 - TEFC	
LRC	: 7.6x(Code J)			Mounting	: F-1	
No load current	: 1.60 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3500 rpm			Noise level ²	: 66.0 dB(A)	
Slip	: 2.78 %			Starting method	: Direct On Line	
Rated torque	: 7.50 ft.lb			Approx. weight ³	: 96.3 lb	
Locked rotor torque	: 229 %					
Breakdown torque	: 350 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.2233 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	86.1	86.5	88.5	88.5	Max. traction	: 119 lb
Power Factor	0.51	0.76	0.85	0.89	Max. compression	: 216 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)
12.2	10.1	9.7	5.9	3.7	2.3	1.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6307 ZZ		6206 ZZ		
Sealing	:	V'Ring		V'Ring		
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	