

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		12967947
				Catalog # :		02009ST3HIE324T-W22
Frame : 324/6T Output : 20 HP (15 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 575 V Rated current : 22.6 A L. R. Amperes : 113 A LRC : 5.0x(Code G) No load current : 12.8 A Rated speed : 880 rpm Slip : 2.22 % Rated torque : 119 ft.lb Locked rotor torque : 190 % Breakdown torque : 220 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.37 sq.ft.lb Design : B			Locked rotor time : 48s (cold) 27s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP56 Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 56.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 515 lb			
Output 50% 75% 100%			Foundation loads			
Efficiency (%) 89.5 91.0 91.0			Max. traction : 750 lb			
Power Factor 0.54 0.66 0.73			Max. compression : 1265 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)
9.5	8.0	7.7	5.2	3.7	2.8	2.0
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type :			6312 C3		6212 C3	
Sealing :			Inpro/Seal		Inpro/Seal	
Lubrication interval :			20000 h		20000 h	
Lubricant amount :			21 g		13 g	
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	05/02/2025				1 / 1	