

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :		11431929	
					Catalog # :		04012ST3HIE364T-W22	
Frame : 364/5T Output : 40 HP (30 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 37.2 A L. R. Amperes : 238 A LRC : 6.4x(Code G) No load current : 13.2 A Rated speed : 1183 rpm Slip : 1.42 % Rated torque : 178 ft.lb Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 29.0 sq.ft.lb Design : B				Locked rotor time : 37s (cold) 21s (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 : 66.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 893 lb				
Output		25%	50%	75%	100%	Foundation loads		
Efficiency (%)		93.0	93.6	93.6	94.1	Max. traction : 1012 lb		
Power Factor		0.48	0.73	0.82	0.86	Max. compression : 1905 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)		
6.1		5.0		4.4		2.8		
						P5 (0,5;0,5)		
						1.9		
						P6 (0,5;0,25)		
						1.1		
						P7 (0,25;0,25)		
						0.8		
				<u>Drive end</u>		<u>Non drive end</u>		
Bearing type		: 6314 C3			: 6314 C3			
Sealing		: Inpro/Seal			: Inpro/Seal			
Lubrication interval		: 17000 h			: 17000 h			
Lubricant amount		: 27 g			: 27 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		25/03/2024					1 / 1	