

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :		11432184
					Catalog # :		06012ST3HIE404T-W22
Frame : 404/5T Output : 60 HP (45 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 575 V Rated current : 55.6 A L. R. Amperes : 361 A LRC : 6.5x(Code G) No load current : 18.4 A Rated speed : 1185 rpm Slip : 1.25 % Rated torque : 266 ft.lb Locked rotor torque : 200 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 36.9 sq.ft.lb Design : B				Locked rotor time : 36s (cold) 20s (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 : 68.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 1182 lb			
Output		25%	50%	75%	100%	Foundation loads	
Efficiency (%)		94.0	94.1	94.5	94.5	Max. traction : 1245 lb	
Power Factor		0.49	0.74	0.82	0.86	Max. compression : 2426 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)	
6.3		5.0		4.5		3.5	
						P5 (0,5;0,5)	
						2.3	
						P6 (0,5;0,25)	
						1.7	
						P7 (0,25;0,25)	
						1.1	
				<u>Drive end</u>		<u>Non drive end</u>	
Bearing type		: 6316 C3			: 6314 C3		
Sealing		: Inpro/Seal			: Inpro/Seal		
Lubrication interval		: 16000 h			: 17000 h		
Lubricant amount		: 34 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.		
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