

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : NEMA Premium Efficiency Three-Phase		Product code : 13500516		Catalog # : 05009ET3EKD404T-W22	
Frame : 404/5T	Output : 50 HP (37 kW)	Poles : 8	Frequency : 60 Hz	Rated voltage : 208-230/460 V	
Rated current : 133-120/60.2 A	L. R. Amperes : 958-864/433 A	LRC : 7.2x(Code H)	No load current : 43.1-45.0/22.5 A	Rated speed : 880 rpm	
Slip : 2.22 %	Rated torque : 298 ft.lb	Locked rotor torque : 170 %	Breakdown torque : 260 %	Insulation class : F	
Service factor : 1.25	Moment of inertia (J) : 34.6 sq.ft.lb	Design : A	Locked rotor time : 27s (cold) 15s (hot)	Temperature rise : 80 K	
			Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	
			Altitude : 1000 m.a.s.l.	Protection degree : IP55	
			Cooling method : IC411 - TEFC	Mounting : F-1	
			Rotation ¹ : Both (CW and CCW)	Noise level ² : 60.0 dB(A)	
			Starting method : Direct On Line	Approx. weight ³ : 1131 lb	
Output	25%	50%	75%	100%	
Efficiency (%)	0.000	93.0	93.0	93.0	
Power Factor	0.00	0.68	0.78	0.83	
Foundation loads					
Max. traction : 1624 lb					
Max. compression : 2755 lb					
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type :		NU-316 C3	6314 C3		
Sealing :		WSeal	WSeal		
Lubrication interval :		17000 h	20000 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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	26/10/2022			Page	Revision
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