

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase	Product code : 11507900 Catalog # : 00309ET3E215TC-W22				
Frame : 213/5TC Output : 3 HP (2.2 kW) Poles : 8 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 9.22/4.61 A L. R. Amperes : 62.7/31.3 A LRC : 6.8x(Code K) No load current : 6.00/3.00 A Rated speed : 870 rpm Slip : 3.33 % Rated torque : 18.1 ft.lb Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.11 sq.ft.lb Design : B	Locked rotor time : 79s (cold) 44s (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 : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 180 lb				
Output 25% 50% 75% 100% Efficiency (%) 83.7 81.6 84.0 82.0 85.5 82.5 85.5 82.5 81.6 82.1 82.0 82.5 82.5 84.0 82.5 84.0 Power Factor 0.27 0.32 0.49 0.55 0.62 0.68 0.70 0.74 0.30 0.28 0.51 0.50 0.64 0.63 0.71 0.71	Foundation loads Max. traction : 280 lb Max. compression : 460 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	19.1	24.0	24.0	21.5
	P2 (0,5;1,0)	18.2	23.0	23.0	20.6
	P3 (0,25;1,0)	17.9	22.9	22.9	20.4
	P4 (0,9;0,5)	9.5	12.1	12.1	10.7
	P5 (0,5;0,5)	7.8	10.0	10.0	8.9
	P6 (0,5;0,25)	5.8	7.6	7.6	6.6
	P7 (0,25;0,25)	4.5	5.9	5.9	5.2
Bearing type :	Drive end	Non drive end			
Sealing :	6308 ZZ	6207 ZZ			
Lubrication interval :	V'Ring	V'Ring			
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	28/03/2024			1 / 1	