

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 High Efficiency Three-Phase	Product code : 12822508 Catalog # : 00136EP3ER143TC-W22				
Frame : 143TC Output : 1 HP (0.75 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 2.96/1.48 A L. R. Amperes : 20.7/10.4 A LRC : 7.0x(Code K) No load current : 1.40/0.700 A Rated speed : 3480 rpm Slip : 3.33 % Rated torque : 1.51 ft.lb Locked rotor torque : 229 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0278 sq.ft.lb	Locked rotor time : 23s (cold) 13s (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 : W-6 Rotation ¹ : Both (CW and CCW) Noise level ² : 68.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 38.8 lb				
Output 25% 50% 75% 100% Efficiency (%) 71.5 74.9 72.0 74.0 75.5 75.5 75.5 74.0 74.9 73.6 74.0 74.0 75.5 75.5 74.0 75.5 Power Factor 0.42 0.48 0.69 0.75 0.79 0.84 0.84 0.88 0.44 0.41 0.71 0.68 0.81 0.79 0.86 0.85	Foundation loads Max. traction : 21 lb Max. compression : 60 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	30.1	32.5	32.5	30.1
	P2 (0,5;1,0)	22.6	24.4	24.4	22.6
	P3 (0,25;1,0)	20.4	22.1	22.1	20.4
	P4 (0,9;0,5)	18.1	19.6	19.6	18.1
	P5 (0,5;0,5)	10.1	10.9	10.9	10.1
	P6 (0,5;0,25)	7.6	8.2	8.2	7.6
	P7 (0,25;0,25)	4.7	5.1	5.1	4.7
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	Drive end 6205 ZZ V'Ring - - Mobil Polyrex EM	Non drive end 6204 ZZ V'Ring - -			
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		