

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Rolled Steel Standard Efficiency Three-Phase		Product code :	14305469
			Catalog # :	.5018ES3E48-S
Frame : 48 Output : 0.5 HP (0.37 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 208-230/460 V Rated current : 1.98-1.79/0.896 A L. R. Amperes : 11.9-10.8/5.38 A LRC : 6.0x(Code K) No load current : 1.20-1.40/0.698 A Rated speed : 1730 rpm Slip : 3.89 % Rated torque : 1.52 ft.lb Locked rotor torque : 260 % Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.0399 sq.ft.lb		Locked rotor time : 28s (cold) 16s (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 : 50.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 17.8 lb		
Output	25%	50%	75%	100%
Efficiency (%)	60.0	63.4	62.0	64.0
	57.6	59.0	66.0	67.0
Power Factor	0.27	0.32	0.49	0.57
	0.27	0.50	0.63	0.73
Bearing type : 6203 ZZ Sealing : V'Ring Lubrication interval : - Lubricant amount : - Lubricant type : Mobil Polyrex EM				
<u>Drive end</u> Foundation loads Max. traction : 43 lb Max. compression : 61 lb				
<u>Non drive end</u> 6202 ZZ Without Bearing Seal				
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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