

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: Rolled Steel Standard Efficiency Three-Phase	Product code :	12805241		
		Catalog # :	.5036ES3E56C-S		
Frame	: 56C	Locked rotor time	: 63s (cold) 35s (hot)		
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K		
Poles	: 2	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.		
Rated current	: 1.86-1.69/0.843 A	Protection degree	: IP55		
L. R. Amperes	: 13.0-11.8/5.90 A	Cooling method	: IC411 - TEFC		
LRC	: 7.0x(Code L)	Mounting	: F-1		
No load current	: 0.776-0.900/0.450 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3500 rpm	Noise level ²	: 68.0 dB(A)		
Slip	: 2.78 %	Starting method	: Direct On Line		
Rated torque	: 0.750 ft.lb	Approx. weight ³	: 19.4 lb		
Locked rotor torque	: 260 %				
Breakdown torque	: 300 %				
Insulation class	: F				
Service factor	: 1.15				
Moment of inertia (J)	: 0.0453 sq.ft.lb				
Output	50%	75%	100%		
Efficiency (%)	55.0 64.8	62.0 70.1	68.0 71.8		
	61.9	68.6	71.5		
Power Factor	0.67 0.73	0.75 0.83	0.81 0.88		
	0.63	0.74	0.82		
Bearing type		Drive end	Non drive end		
Sealing		6203 ZZ	6202 ZZ		
Lubrication interval		V'Ring	Without Bearing Seal		
Lubricant amount		-	-		
Lubricant type		Mobil Polyrex EM			
Notes:					
This revision replaces and cancel the previous one, which must be eliminated.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
(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.					
Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision
Date	27/03/2024			1 / 1	