

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-Phase

Product code : 12809249

Catalog # : .5036OT3E56C-S

Frame	: 56C	Locked rotor time	: 70s (cold) 39s (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	: 1.79-1.62/0.811 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 11.1-10.1/5.03 A	Mounting	: F-1
LRC	: 6.2x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 0.776-0.900/0.450 A	Noise level ²	: 62.0 dB(A)
Rated speed	: 3490 rpm	Starting method	: Direct On Line
Slip	: 3.06 %	Approx. weight ³	: 16.4 lb
Rated torque	: 0.752 ft.lb		
Locked rotor torque	: 229 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0389 sq.ft.lb		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	61.1	66.3	64.0	67.0	70.0	71.3	73.4	71.5	Max. traction	: 15 lb
	59.9		62.1		68.5		70.8			
Power Factor	0.35	0.41	0.57	0.65	0.69	0.78	0.78	0.85	Max. compression	: 31 lb
	0.30		0.55		0.68		0.78			

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
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		Page 1 / 1		
Checked by				
Date	27/03/2024			
			Revision	