

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Fan and Exhaust Single-Phase

Product code : 12215587
Catalog # : .5082OS1AEC56

Frame	: E56	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.37 kW (0.5 HP)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.20 A	Protection degree	: IP21
L. R. Amperes	: 49.2 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code N)	Mounting	: F-1
No load current	: 8.30 A	Rotation ¹	: CW
Rated speed	: 1725 rpm	Starting method	: Direct On Line
Slip	: 4.17 %	Approx. weight ³	: 16.1 lb
Rated torque	: 1.51 ft.lb		
Locked rotor torque	: 130 %		
Breakdown torque	: 260 %		
Insulation class	: B		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0712 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	0.000	42.4	29.0	51.2	36.7	55.5	42.2	Max. traction	
	0.000								
Power Factor	0.00	0.00	0.45	0.45	0.55	0.52	0.64	0.59	Max. compression

	Drive end	Non drive end
Bearing type	: 6201 ZZ	: 6201 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 0 h	: 0 h
Lubricant amount	: 0 g	: 0 g
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.

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C

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