

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Fan and Exhaust Single-Phase

Product code : 12205154
Catalog # : 001820S1AEC56

Frame	: E56	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 0.75 kW (1 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	: 12.1 A	Protection degree	: IP21
L. R. Amperes	: 52.0 A	Cooling method	: IC01 - ODP
LRC	: 4.3x(Code G)	Mounting	: F-1
No load current	: 10.6 A	Rotation ¹	: CW
Rated speed	: 1725 rpm	Noise level ²	: 46.0 dB(A)
Slip	: 4.17 %	Starting method	: Direct On Line
Rated torque	: 3.06 ft.lb	Approx. weight ³	: 27.8 lb
Locked rotor torque	: 120 %		
Breakdown torque	: 240 %		
Insulation class	: B		
Service factor	: 1.00		
Moment of inertia (J)	: 0.1068 sq.ft.lb		

Output	25%		50%		75%		100%	
Efficiency (%)	56.1	35.2	58.7	38.1	67.0	46.9	70.0	51.5
Power Factor	0.31	0.24	0.59	0.43	0.70	0.51	0.78	0.59

Foundation loads
Max. traction
Max. compression

	Drive end	Non drive end
Bearing type	: 6203 ZZ	: 6201 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.

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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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