

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase

Product code : 12894852

Catalog # : .5018ES3H56C-S

Frame	: 56C	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 0.690 A	Protection degree	: IP55
L. R. Amperes	: 4.83 A	Cooling method	: IC411 - TEFC
LRC	: 7.0x(Code L)	Mounting	: F-1
No load current	: 0.480 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 1.49 ft.lb	Approx. weight ³	: 21.4 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0584 sq.ft.lb		

Output	50%	75%	100%
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Foundation loads

Efficiency (%)	68.0	74.0	77.0
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Max. traction : 33 lb

Power Factor	0.48	0.61	0.70
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Max. compression : 54 lb

Drive end

Non drive end

Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	V'Ring	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					
Checked by					
Date	27/03/2024				
				Page	Revision
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