

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Standard Efficiency Three-Phase Product code : 12894731

Frame	: 56C	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 3.01 A	Protection degree	: IP55
L. R. Amperes	: 25.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.5x(Code K)	Mounting	: F-1
No load current	: 1.12 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3480 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 4.53 ft.lb	Approx. weight ³	: 38.1 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1279 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	79.7	80.0	81.5	81.5	Max. traction : 105 lb
Power Factor	0.50	0.76	0.86	0.90	Max. compression : 143 lb

	Drive end	Non drive end
Bearing type	: 6204 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				
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