

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase Product code : 12729171

Frame	: 143/5T	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.70/1.85 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 31.8/15.9 A	Mounting	: F-1
LRC	: 8.6x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 1.62/0.809 A	Noise level ²	: 62.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 30.1 lb
Rated torque	: 2.24 ft.lb		
Locked rotor torque	: 210 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0835 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.1	83.2	81.5	82.7	84.0	83.6	84.0	82.7	Max. traction	: 55 lb
	82.1	80.7	81.9	81.0	83.5	83.3	82.9	83.2		
Power Factor	0.45	0.51	0.73	0.79	0.83	0.88	0.89	0.92	Max. compression	: 85 lb
	0.47	0.43	0.75	0.71	0.85	0.83	0.90	0.88		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6203 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	