

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 10023141

Frame	: 80S/MS	Locked rotor time	: 16s (cold) 9s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 9.49-8.58/4.29 A	Protection degree	: IP54
L. R. Amperes	: 69.3-62.6/31.3 A	Cooling method	: IC411 - TEFC
LRC	: 7.3	Mounting	: B3R(D)
No load current	: 4.55-4.11/2.06 A	Rotation ¹	: CW
Rated speed	: 3500 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 4.50 ft.lb	Approx. weight ³	: 84.8 lb
Locked rotor torque	: 330 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.0747 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	74.8	76.0	79.5	80.5	Max. traction	: 64 lb
Power Factor	0.40	0.65	0.75	0.80	Max. compression	: 149 lb

	Drive end	Non drive end
Bearing type	: 6307 ZZ	: 6207 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 Revision 1 / 1		
Checked by				
Date	27/03/2024			