

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Saw Arbor Motor Standard Efficiency Three-Phase Product code : 10780315

Frame	: 90L/MS	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 15.5-14.1/7.03 A	Protection degree	: IP54
L. R. Amperes	: 124-112/56.2 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3R(D)
No load current	: 8.88-8.03/4.02 A	Rotation ¹	: CW
Rated speed	: 1740 rpm	Noise level ²	: 55.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 15.1 ft.lb	Approx. weight ³	: 152 lb
Locked rotor torque	: 380 %		
Breakdown torque	: 409 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.2660 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	81.2	82.0	84.0	84.5	Max. traction	: 395 lb
Power Factor	0.34	0.58	0.71	0.78	Max. compression	: 547 lb

		Drive end	Non drive end
Bearing type	:	6308 ZZ	6208 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 Revision		
Checked by				
Date	27/03/2024			