

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 13097190

Frame	: 254/6TC	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 20.8/10.4 A	Protection degree	: IP55
L. R. Amperes	: 114/57.2 A	Cooling method	: IC411 - TEFC
LRC	: 5.5x(Code G)	Mounting	: F-1
No load current	: 11.5/5.75 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 33.5 ft.lb	Approx. weight ³	: 193 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.84 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	87.2	89.7	87.5	88.4	89.5	86.7
	87.1	86.9	88.1	87.5		
Power Factor	0.32	0.37	0.55	0.62	0.67	0.78
	0.31	0.54	0.67	0.74		
					Max. traction	: 351 lb
					Max. compression	: 544 lb

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6309 Z C3	6208 Z C3
Sealing	:				V'Ring	Without Bearing Seal
Lubrication interval	:				20000 h	20000 h
Lubricant amount	:				13 g	8 g
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	26/03/2024			
			Page	Revision
			1 / 1	