

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium Efficiency
Three-Phase Product code : 13186495

Frame	: 254/6TC	Locked rotor time	: 54s (cold) 30s (hot)
Output	: 10 HP (7.5 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	: 27.6/13.8 A	Protection degree	: IP55
L. R. Amperes	: 149/74.5 A	Cooling method	: IC411 - TEFC
LRC	: 5.4x(Code G)	Mounting	: F-1
No load current	: 14.2/7.12 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	: 44.7 ft.lb	Approx. weight ³	: 255 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.83 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	90.0	90.2	91.0	91.0	Max. traction : 365 lb
Power Factor	0.33	0.57	0.69	0.75	Max. compression : 620 lb

	Drive end	Non drive end
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:

USABLE @208V 30.5A SF 1.00 SFA 30.5A

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
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