

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 13186619

Frame	: 254/6T	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	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 8.32 A	Protection degree	: IP55
L. R. Amperes	: 45.8 A	Cooling method	: IC418 - TEAO
LRC	: 5.5x(Code G)	Mounting	: F-1
No load current	: 4.60 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	: 175 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	87.5	89.5	89.5	Max. traction	: 298 lb
Power Factor	0.32	0.55	0.67	0.74	Max. compression	: 473 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		Page Revision 1 / 1		
Checked by				
Date	26/03/2024			

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