

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14285041

Frame	: 444/5TSD	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 200 HP (150 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 187 A	Protection degree	: IP23
L. R. Amperes	: 1236 A	Cooling method	: IC01 - ODP
LRC	: 6.6x(Code G)	Mounting	: F-2
No load current	: 69.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1783 rpm	Noise level ²	: 78.0 dB(A)
Slip	: 0.94 %	Starting method	: Direct On Line
Rated torque	: 589 ft.lb	Approx. weight ³	: 1446 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 46.4 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	95.3	95.4	95.8	95.8	Max. traction : 3202 lb
Power Factor	0.46	0.72	0.80	0.84	Max. compression : 4649 lb

	Drive end	Non drive end
Bearing type	: 6314 C3	6212 Z C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 27 g	13 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	29/03/2024				
				Page	Revision
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