

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14272424

Catalog # : 20036OT3G444TSC-W40

Frame	: 444/5TSC	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 200 HP (150 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 225 A	Protection degree	: IP23
L. R. Amperes	: 1463 A	Cooling method	: IC01 - ODP
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 67.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level ²	: 85.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 294 ft.lb	Approx. weight ³	: 1316 lb
Locked rotor torque	: 140 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 23.8 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	92.4	91.3	93.0	92.8	94.5	93.9	95.0	95.4	Max. traction	: 1321 lb
	91.4	91.5	92.8	92.9	93.9	94.0	95.4	95.4		
Power Factor	0.54	0.57	0.79	0.81	0.86	0.86	0.88	0.88	Max. compression	: 2638 lb
	0.52	0.48	0.77	0.74	0.85	0.83	0.87	0.86		

				<u>Drive end</u>		<u>Non drive end</u>
Bearing type	:			6314 C3		6212 Z C3
Sealing	:			Without Bearing Seal		Without Bearing Seal
Lubrication interval	:			14418 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
			1 / 1	