

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14285014

Catalog # : 20018OT3G445TS-W40

Frame	: 444/5TS	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	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 234 A	Protection degree	: IP23
L. R. Amperes	: 1544 A	Cooling method	: IC01 - ODP
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 86.5 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	: 1357 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	95.1	95.4	95.2	95.8	95.6	95.8	95.6	Max. traction	: 3776 lb
	95.3	95.1	95.4	95.2	95.6	95.6	95.6	95.6		
Power Factor	0.46	0.48	0.72	0.74	0.80	0.82	0.84	0.85	Max. compression	: 5133 lb
	0.44	0.41	0.70	0.67	0.80	0.77	0.84	0.82		

					<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	:				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
			1 / 1	