

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14018042

Catalog # : 25036OT3G445TS-W40

Frame	: 444/5TS	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 250 HP (185 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	: 278 A	Protection degree	: IP23
L. R. Amperes	: 1863 A	Cooling method	: IC01 - ODP
LRC	: 6.7x(Code G)	Mounting	: F-1
No load current	: 72.0 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	: 368 ft.lb	Approx. weight ³	: 1380 lb
Locked rotor torque	: 150 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 26.9 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	93.0	91.6	93.6	93.1	94.5	94.0	95.0	95.6	Max. traction	: 1902 lb
	91.5	91.3	93.0	92.9	94.0	93.9	95.6	95.6		
Power Factor	0.56	0.59	0.79	0.80	0.85	0.86	0.88	0.88	Max. compression	: 3282 lb
	0.54	0.49	0.76	0.73	0.84	0.82	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			

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Revision