

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code : 14272877 Catalog # : 30036OT3G445TS-W40		
Frame	: 444/5TS			Locked rotor time	: 21s (cold) 12s (hot)	
Output	: 300 HP (220 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	: 328 A			Protection degree	: IP23	
L. R. Amperes	: 2129 A			Cooling method	: IC01 - ODP	
LRC	: 6.5x(Code G)			Mounting	: F-1	
No load current	: 85.0 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3563 rpm			Noise level ²	: 85.0 dB(A)	
Slip	: 1.03 %			Starting method	: Direct On Line	
Rated torque	: 442 ft.lb			Approx. weight ³	: 1448 lb	
Locked rotor torque	: 150 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 28.6 sq.ft.lb					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.0 93.9	95.4 94.4	95.8 95.8	Max. traction	: 2457 lb	
	93.9 93.8	94.4 94.5	95.8 95.8			
Power Factor	0.80 0.81	0.86 0.87	0.88 0.88	Max. compression	: 3905 lb	
	0.77 0.75	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
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Checked by					Page	Revision
Date	06/02/2025				1 / 1	