

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code : 13575098		
				Catalog # : 50036OT3G449TS-RFW40		
Frame	: 447/9TS		Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 500 HP (370 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	: 536 A		Protection degree	: IP23		
L. R. Amperes	: 3806 A		Cooling method	: IC01 - ODP		
LRC	: 7.1x(Code G)		Mounting	: F-1		
No load current	: 120 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3570 rpm		Noise level <sup>2</sup>	: 87.0 dB(A)		
Slip	: 0.83 %		Starting method	: Direct On Line		
Rated torque	: 735 ft.lb		Approx. weight <sup>3</sup>	: 2252 lb		
Locked rotor torque	: 190 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 46.9 sq.ft.lb					
Design	: A					
Output	25%	50%	75%	100%		
Efficiency (%)	95.7	93.6	95.8	94.3		
	96.2	95.2	96.2	95.8		
	93.5	93.5	94.2	94.2		
	95.2	95.2	95.8	95.8		
	94.2	94.2	95.0	95.0		
	95.0	95.0	95.0	95.8		
	95.8	95.8	95.8	95.8		
	94.2	95.0	95.0	95.8		
Power Factor	0.62	0.61	0.84	0.82		
	0.89	0.89	0.90	0.90		
	0.57	0.53	0.79	0.77		
	0.87	0.86	0.89	0.88		
	0.65	0.60	0.85	0.82		
	0.89	0.88	0.90	0.89		
	0.57	0.80	0.87	0.88		
Foundation loads						
Max. traction	: 4380 lb					
Max. compression	: 6631 lb					
Bearing type	: <u>Drive end</u> 6314 C4		: <u>Non drive end</u> 6314 C4			
Sealing	: Without Bearing Seal		: Without Bearing Seal			
Lubrication interval	: 14418 h		: 14418 h			
Lubricant amount	: 27 g		: 27 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.			
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### Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

### Space heater information

Voltage: 110-127/200-240 V

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