

# DATA SHEET

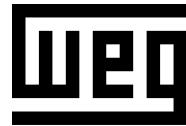
## Three Phase Induction Motor - Squirrel Cage



Customer :									
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code : 13346174					
				Catalog # : 50036OT3G447/9TS-W40					
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>	: 2230 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					
	93.5	93.5	94.2	94.2					
	94.2	94.2	95.0	95.0					
	94.2	95.0	95.0	95.0					
Power Factor	0.62	0.61	0.84	0.82					
	0.57	0.53	0.79	0.77					
	0.65	0.60	0.85	0.82					
	0.57	0.80	0.87	0.88					
Foundation loads									
Max. traction				: 4391 lb					
Max. compression				: 6620 lb					
Drive end									
Bearing type	:	6314 C3	Non drive end						
Sealing	:	Without Bearing Seal	6314 C3						
Lubrication interval	:	14418 h	Without Bearing Seal						
Lubricant amount	:	27 g	14418 h						
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.									
Rev.	Changes Summary			Performed					
				Checked					
Performed by									
Checked by									
Date	28/03/2024								
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Customer :

### Thermal protection

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

Rev.

Changes Summary

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Revision