



# Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

## DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :  
 Product line : W40 - Open Induction Motors – NEMA Premium Efficiency

Frame : 447/9TS  
 Output : 500 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3570 rpm  
 Slip : 0.83 %  
 Voltage : 460 V  
 Rated current : 536 A  
 Locked rotor current : 3810 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.1  
 No-load current : 120 A  
 Full load torque : 726 lb.ft  
 Locked rotor torque : 190 %  
 Breakdown torque : 250 %  
 Design : A  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 14 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 2139 lb  
 Moment of inertia : 46.911 sq.ft.lb  
 Noise level : 87 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.90	96.2
Regreasing interval	14418 h	14418 h	75%	0.89	96.2
Grease amount	27 g	27 g	50%	0.84	95.8

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #50036OT3G447/9TS-W40

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