



# Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

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

Customer :  
 Product line : Three-Phase : Explosion Proof - High Efficiency

Frame : 586/7T  
 Output : 450 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1790 rpm  
 Slip : 0.56 %  
 Voltage : 460 V  
 Rated current : 505 A  
 Locked rotor current : 3280 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.5  
 No-load current : 135 A  
 Full load torque : 1302 lb.ft  
 Locked rotor torque : 180 %  
 Breakdown torque : 200 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 105 K  
 Locked rotor time : 32 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP54  
 Approximate weight : 4366 lb  
 Moment of inertia : 213.23 sq.ft.lb  
 Noise level : 83 dB(A)

	D.E.	N.D.E.
Bearings	6322 C3	6319 C3
Regreasing interval	5138 h	7038 h
Grease amount	60 g	45 g

Load	Power factor	Efficiency (%)
100%	0.86	95.4
75%	0.85	95.4
50%	0.80	95.0

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #45018XP3G586/7

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