



# Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

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

Customer :  
 Product line : Three-Phase: W22 Crusher Duty TEFC (IP55)

Frame : 586/7Z  
 Output : 500 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1190 rpm  
 Slip : 0.83 %  
 Voltage : 460 V  
 Rated current : 598 A  
 Locked rotor current : 3290 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.5  
 No-load current : 225 A  
 Full load torque : 2177 lb.ft  
 Locked rotor torque : 190 %  
 Breakdown torque : 200 %  
 Design : A  
 Insulation class : F  
 Temperature rise : 105 K  
 Locked rotor time : 12 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 4223 lb  
 Moment of inertia : 367.54 sq.ft.lb  
 Noise level : 77 dB(A)

|                     | D.E.      | N.D.E.  |
|---------------------|-----------|---------|
| Bearings            | NU-324 C3 | 6319 C3 |
| Regreasing interval | 6000 h    | 13000 h |
| Grease amount       | 72 g      | 45 g    |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.81         | 95.8           |
| 75%  | 0.78         | 95.4           |
| 50%  | 0.69         | 95.0           |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #50012EP3GKD580Z-W22

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