



# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

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

Customer :  
 Product line : Three Phase: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency

Frame : 254/6T  
 Output : 20 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3515 rpm  
 Slip : 2.36 %  
 Voltage : 208-230/460 V  
 Rated current : 50.2-45.4/22.7 A  
 Locked rotor current : 300/150 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
 No-load current : 13.8/6.88 A  
 Full load torque : 29.5 lb.ft  
 Locked rotor torque : 200 %  
 Breakdown torque : 290 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 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 : 211 lb  
 Moment of inertia : 1.2207 sq.ft.lb  
 Noise level : 75 dB(A)

|                     | D.E.      | N.D.E.    |
|---------------------|-----------|-----------|
| Bearings            | 6309 Z-C3 | 6208 Z-C3 |
| Regreasing interval | 15797 h   | 20000 h   |
| Grease amount       | 13 g      | 8 g       |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.91         | 91.0           |
| 75%  | 0.88         | 91.0           |
| 50%  | 0.81         | 90.0           |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #02036ET3E256T-S

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