



# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

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

Customer :  
 Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Frame : 286T  
 Output : 30 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1765 rpm  
 Slip : 1.94 %  
 Voltage : 208-230/460 V  
 Rated current : 77.6-70.2/35.1 A  
 Locked rotor current : 428/214 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.1  
 No-load current : 22.0/11.0 A  
 Full load torque : 88.1 lb.ft  
 Locked rotor torque : 240 %  
 Breakdown torque : 240 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 20 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 437 lb  
 Moment of inertia : 5.8532 sq.ft.lb  
 Noise level : 64 dB(A)

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6311 C3 | 6211 C3 |
| Regreasing interval | 20000 h | 20000 h |
| Grease amount       | 18 g    | 11 g    |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.84         | 93.6           |
| 75%  | 0.80         | 93.0           |
| 50%  | 0.70         | 93.0           |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #03018ET3ECT286T-W22

Performed by

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