



# 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 : 324T  
 Output : 40 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1775 rpm  
 Slip : 1.39 %  
 Voltage : 575 V  
 Rated current : 37.7 A  
 Locked rotor current : 230 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.1  
 No-load current : 12.8 A  
 Full load torque : 117 lb.ft  
 Locked rotor torque : 220 %  
 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 : 492 lb  
 Moment of inertia : 9.1624 sq.ft.lb  
 Noise level : 66 dB(A)

|                     | D.E.        | N.D.E.      |
|---------------------|-------------|-------------|
| Bearings            | 6312 2RS-C3 | 6212 2RS-C3 |
| Regreasing interval | ---         | ---         |
| Grease amount       | ---         | ---         |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.85         | 94.1           |
| 75%  | 0.80         | 94.1           |
| 50%  | 0.72         | 93.6           |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #04018ET3HCT324TF1-W2

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