



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

### DATA SHEET

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

Customer :  
 Product line : Three-Phase: W22 IE3 IEC Tru-Metric - TEFC (IP55) Cast Iron Frame

Frame : 280S/M  
 Output : 100 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1785 rpm  
 Slip : 0.83 %  
 Voltage : 460 V  
 Rated current : 116 A  
 Locked rotor current : 916 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.9  
 No-load current : 43.9 A  
 Full load torque : 290 lb.ft  
 Locked rotor torque : 270 %  
 Breakdown torque : 340 %  
 Design : ---  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 47 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 1607 lb  
 Moment of inertia : 53.483 sq.ft.lb  
 Noise level : 73 dB(A)

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6316 C3 | 6316 C3 |
| Regreasing interval | 10000 h | 10000 h |
| Grease amount       | 34 g    | 34 g    |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.85         | 95.4           |
| 75%  | 0.81         | 94.5           |
| 50%  | 0.72         | 93.0           |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #07518ET3Y280S/M-W22

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