



# Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

## DATA SHEET

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

Customer :  
 Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame : 444/5T  
 Output : 100 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1185 rpm  
 Slip : 1.25 %  
 Voltage : 460 V  
 Rated current : 121 A  
 Locked rotor current : 714 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.9  
 No-load current : 42.0 A  
 Full load torque : 437 lb.ft  
 Locked rotor torque : 220 %  
 Breakdown torque : 230 %  
 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 : 1577 lb  
 Moment of inertia : 87.260 sq.ft.lb  
 Noise level : 69 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.82	95.0
Regreasing interval	13000 h	16000 h	75%	0.78	95.0
Grease amount	45 g	34 g	50%	0.68	94.5

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #10012ST3QIE444T-W22

Performed by

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