



# Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

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

Customer :  
 Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 444/5T  
 Output : 100 HP  
 Frequency : 60 Hz  
 Poles : 8  
 Full load speed : 890 rpm  
 Slip : 1.11 %  
 Voltage : 460 V  
 Rated current : 125 A  
 Locked rotor current : 763 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.1  
 No-load current : 47.5 A  
 Full load torque : 582 lb.ft  
 Locked rotor torque : 170 %  
 Breakdown torque : 200 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 16 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 2053 lb  
 Moment of inertia : 87.260 sq.ft.lb  
 Noise level : 64 dB(A)

	D.E.	N.D.E.
Bearings	6219 C3	6316 C3
Regreasing interval	15247 h	15904 h
Grease amount	27 g	34 g

Load	Power factor	Efficiency (%)
100%	0.80	94.1
75%	0.77	94.5
50%	0.68	94.1

Notes:  
 Downloaded from <http://dealerselectric.com>  
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