



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 15012XT3G447T

List Price : \$32,370

Notes:

Performed by:

Checked:



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## DATA SHEET

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

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

Frame : 447T  
Output : 150 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1185  
Slip : 1.25 %  
Voltage : 460 V  
Rated current : 174 A  
Locked rotor current : 1300 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.5  
No-load current : 70.0 A  
Full load torque : 656 lb.ft  
Locked rotor torque : 260 %  
Breakdown torque : 260 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 42 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP54  
Approximate weight : 2540 lb  
Moment of inertia : 133.62 sq.ft.lb  
Noise level : 73 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.83	95.8
Regreasing interval	11094 h	12823 h	75%	0.78	95.8
Grease amount	45 g	34 g	50%	0.68	95.0

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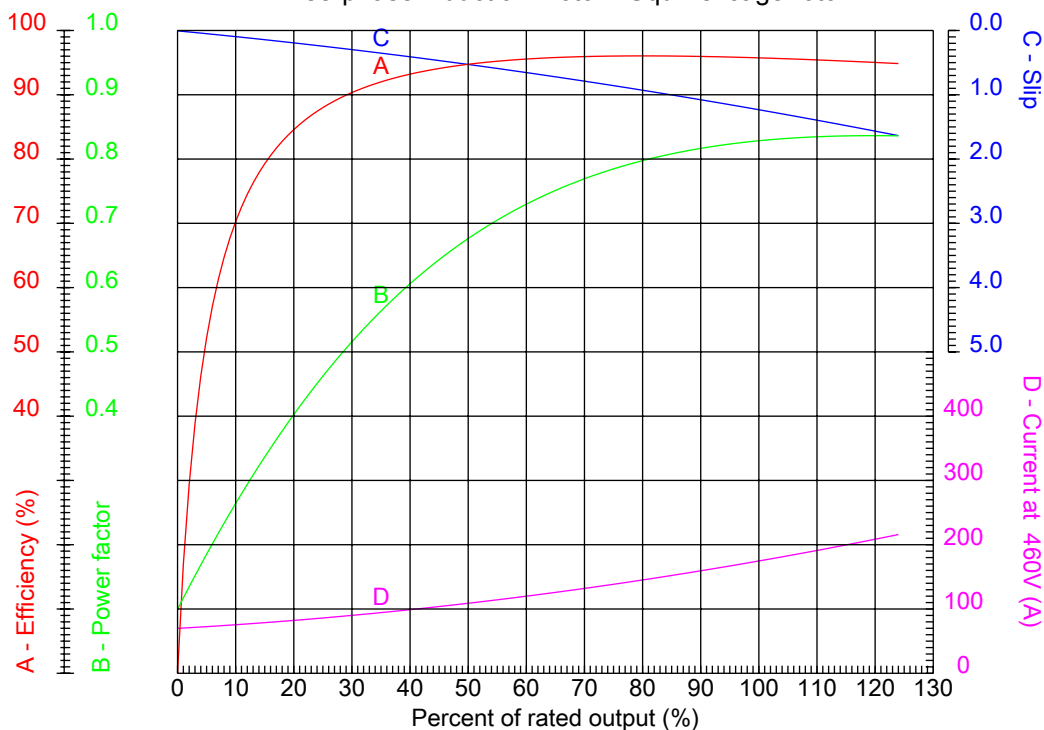


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 447T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.5
Output	: 150 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185	Design	: B
Voltage	: 460 V	Locked rotor torque	: 260 %
Rated current	: 174 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

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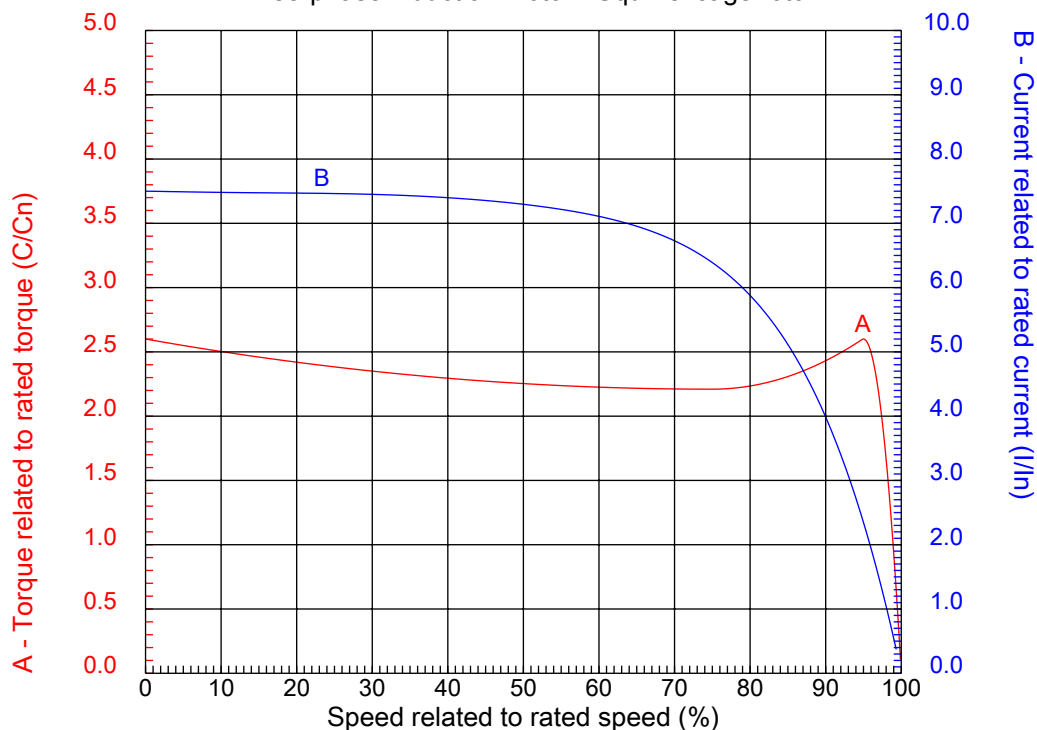


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 447T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.5
Output	: 150 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185	Design	: B
Voltage	: 460 V	Locked rotor torque	: 260 %
Rated current	: 174 A	Breakdown torque	: 260 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 447T - IP54

28-DEC-2012



2E 18.000	A 21.929	2F 20.000	B 23.640	BA 7.500
J 3.937	K 5.591	P 24.016	ES 7.087	depth 0.875
S 0.875	N-W 8.500	U 3.375	R 2.880	AB 20.984
D 11.000	G 1.630	O 23.622	HD 27.165	H 0.807
C 47.339	AA 2XNPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	T 3.543
Flange FD-508	AJ 20.000	AK 18.000	BD 21.656	BF 0.828
BB 0.203				