



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 00309XT3E215T

List Price : \$2,805

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 : 215T  
Output : 3 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 865  
Slip : 3.89 %  
Voltage : 208-230/460 V  
Rated current : 9.82-8.88/4.44 A  
Locked rotor current : 63.0/31.5 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.1  
No-load current : 5.20/2.60 A  
Full load torque : 18.0 lb.ft  
Locked rotor torque : 260 %  
Breakdown torque : 260 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 32 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP54  
Approximate weight : 201 lb  
Moment of inertia : 1.7864 sq.ft.lb  
Noise level : 52 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6308 ZZ	6207 ZZ	100%	0.74	84.0
Regreasing interval	---	---	75%	0.66	85.5
Grease amount	---	---	50%	0.54	84.0

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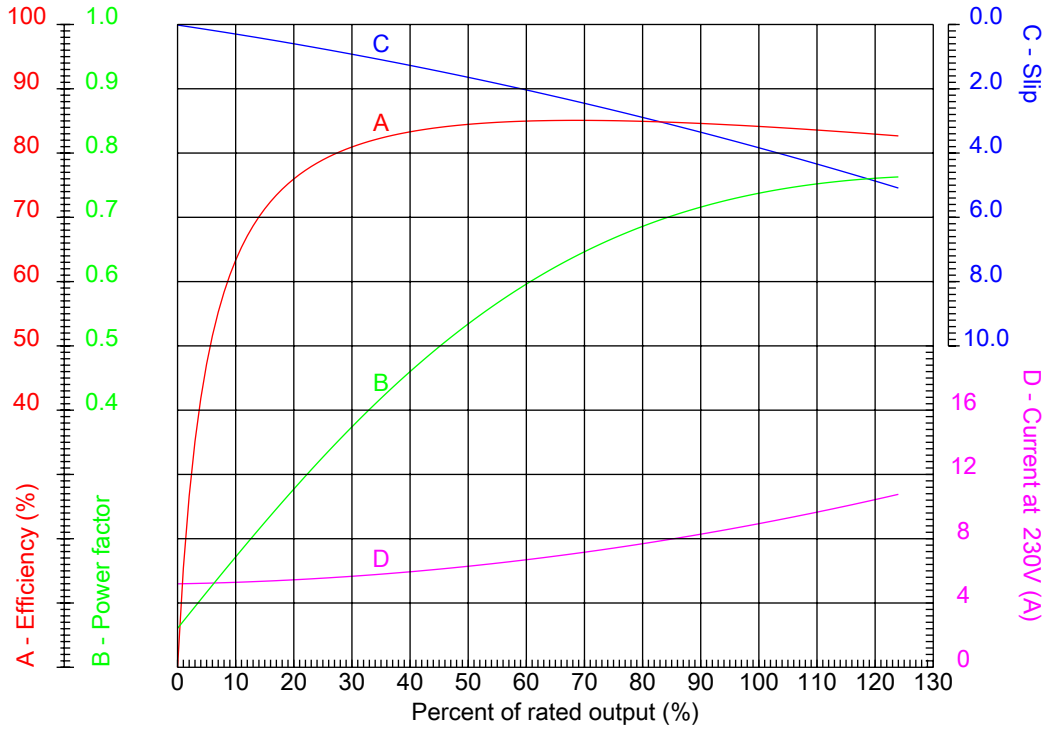


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 215T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.1
Output	: 3 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 865	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 260 %
Rated current	: 9.82-8.88/4.44 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

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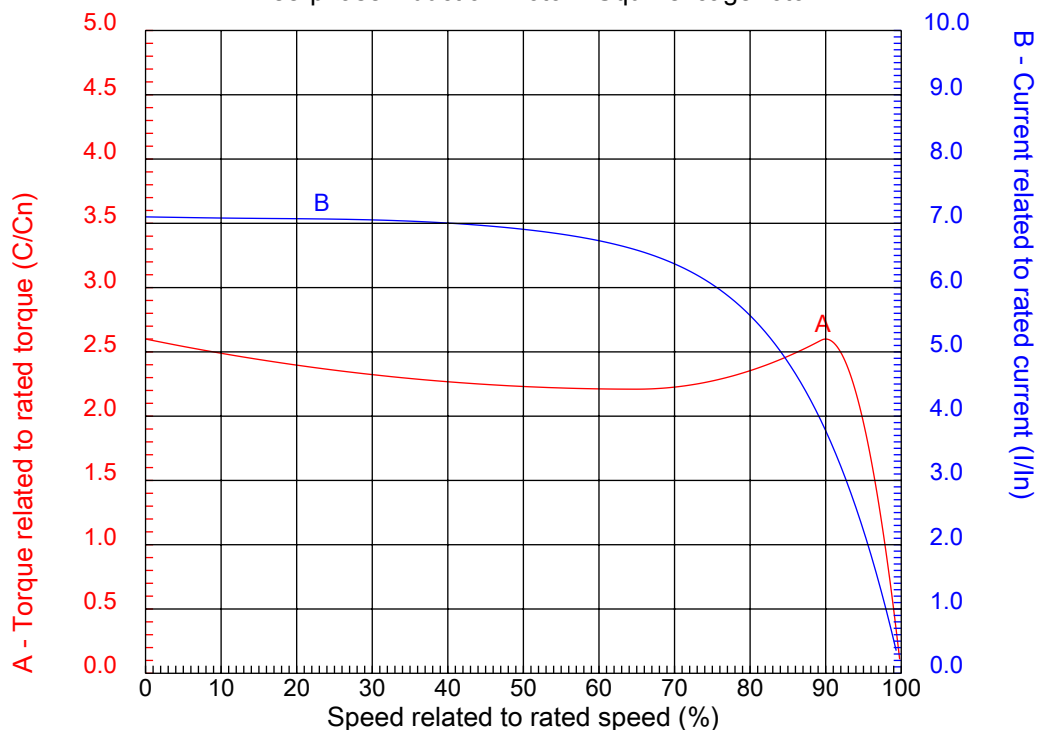


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 215T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.1
Output	: 3 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 865	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 260 %
Rated current	: 9.82-8.88/4.44 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 215T - IP54

27-DEC-2012



2E 8.500	A 9.764	2F 7.000	B 8.898	BA 3.500
J 2.008	K 2.165	P 10.709	ES 2.480	depth 0.313
S 0.313	N-W 3.375	U 1.375	R 1.203	AB 9.252
D 5.250	G 0.827	O 11.156	HD 12.928	H 0.406
C 19.450	AA NPT 1"	d1 A 4	d2 A 4	T 1.772
Flange FD-254	AJ 10.000	AK 9.000	BD 11.000	BF 0.562
BB 0.203				