



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 : 03009XT3E364T

List Price : \$15,505

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 : 364/5T  
Output : 30 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 885  
Slip : 1.67 %  
Voltage : 208-230/460 V  
Rated current : 85.1-77.0/38.5 A  
Locked rotor current : 439/219 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.7  
No-load current : 33.0/16.5 A  
Full load torque : 176 lb.ft  
Locked rotor torque : 220 %  
Breakdown torque : 220 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 14 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP54  
Approximate weight : 911 lb  
Moment of inertia : 23.455 sq.ft.lb  
Noise level : 62 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.77	93.0
Regreasing interval	17353 h	17353 h	75%	0.73	93.0
Grease amount	27 g	27 g	50%	0.64	92.4

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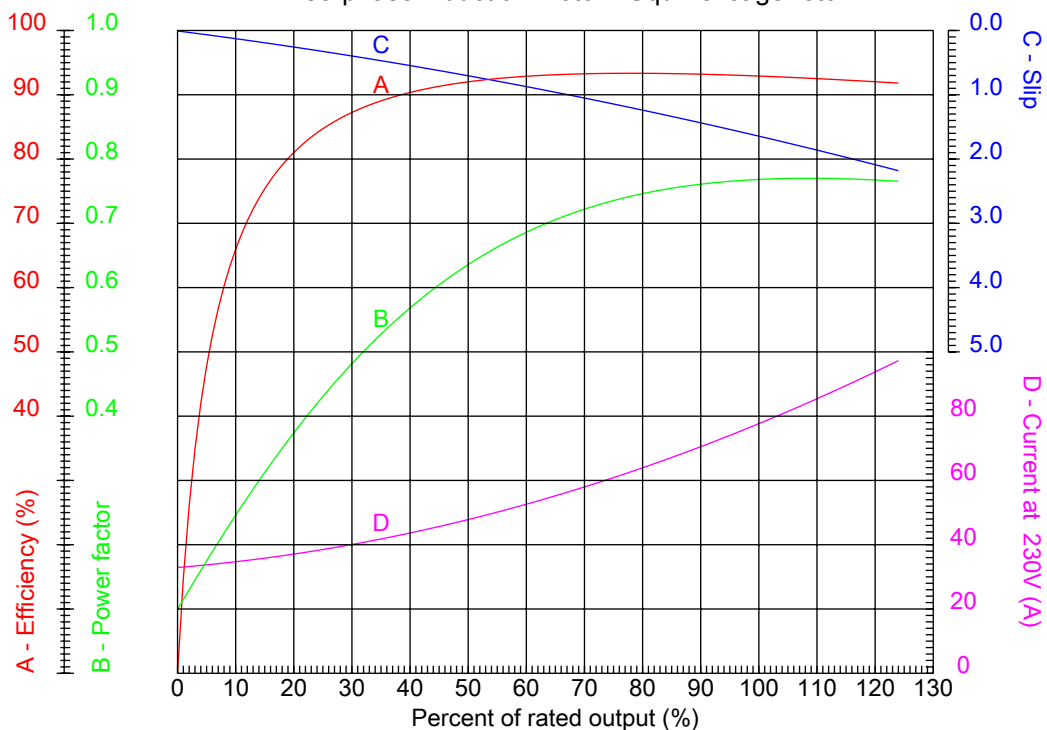


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.7
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 885	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 220 %
Rated current	: 85.1-77.0/38.5 A	Breakdown torque	: 220 %
Insulation class	: F		

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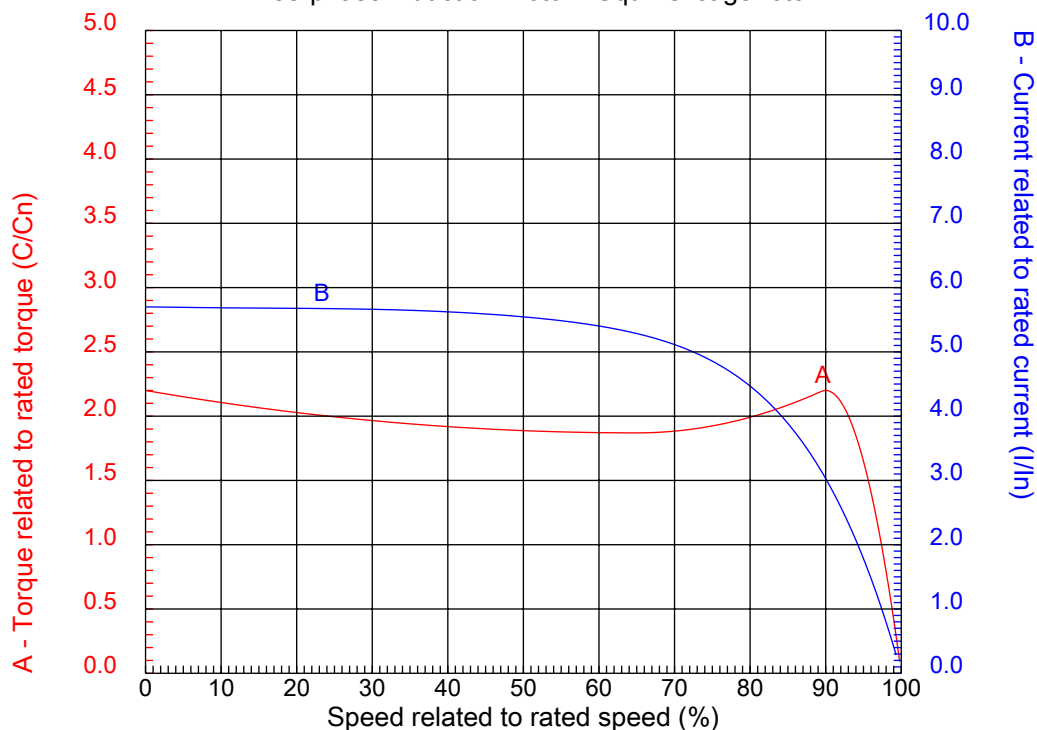


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5T	Locked rotor current (I <sub>l</sub> /I <sub>ln</sub> )	: 5.7
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 885	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 220 %
Rated current	: 85.1-77.0/38.5 A	Breakdown torque	: 220 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

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Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 364/5T - IP54

27-DEC-2012



2E 14.000	A 17.165	2F 11.250/12.250	B 15.394	BA 5.875
J 3.150	K 4.134	P 18.583	ES 4.330	depth 0.625
S 0.625	N-W 5.874	U 2.375	R 2.019	AB 16.654
D 9.000	G 1.480	O 18.898	HD 21.693	H 0.657
C 33.701	AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	T 2.795
Flange FD-406	AJ 16.000	AK 14.000	BD 18.000	BF 0.828
BB 0.203				