



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 : 05018XT3H326T

List Price : \$6,545

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 : 326T  
Output : 50 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1780  
Slip : 1.11 %  
Voltage : 575 V  
Rated current : 48.5 A  
Locked rotor current : 354 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.3  
No-load current : 22.0 A  
Full load torque : 146 lb.ft  
Locked rotor torque : 260 %  
Breakdown torque : 280 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 20 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP54  
Approximate weight : 706 lb  
Moment of inertia : 9.1624 sq.ft.lb  
Noise level : 71 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6312 C3	6212 Z-C3	100%	0.81	94.5
Regreasing interval	20000 h	20000 h	75%	0.76	94.5
Grease amount	21 g	13 g	50%	0.65	93.6

Notes:

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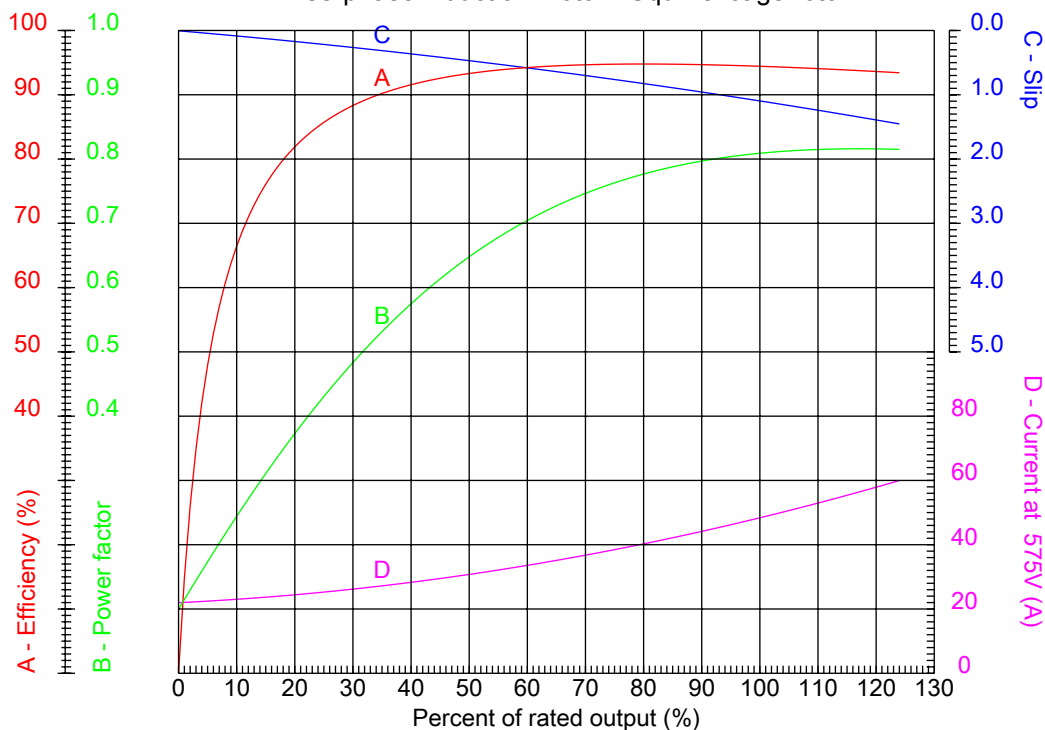
Checked



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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	: 326T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.3
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 575 V	Locked rotor torque	: 260 %
Rated current	: 48.5 A	Breakdown torque	: 280 %
Insulation class	: F		

Notes:

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Checked

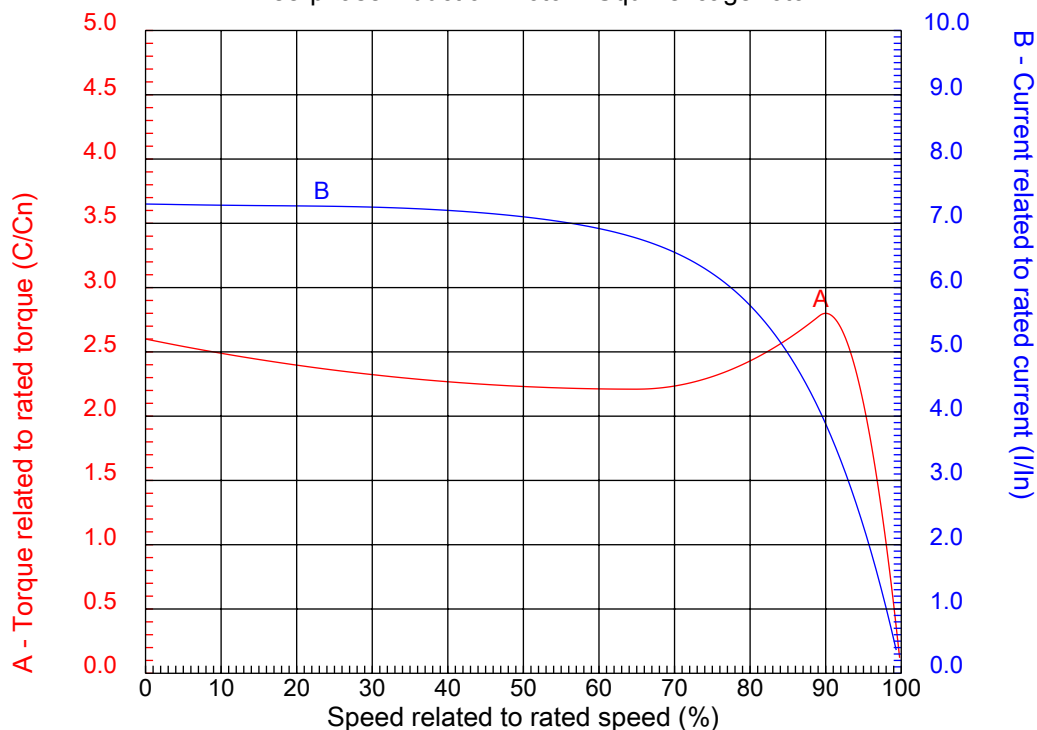


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 326T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.3
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 575 V	Locked rotor torque	: 260 %
Rated current	: 48.5 A	Breakdown torque	: 280 %
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 326T - IP54

27-DEC-2012



2E 12.500	A 15.157	2F 12.000	B 14.567	BA 5.250
J 3.228	K 3.346	P 15.697	ES 3.937	depth 0.500
S 0.500	N-W 5.250	U 2.125	R 1.844	AB 12.961
D 8.000	G 1.307	O 15.992	HD 18.787	H 0.657
C 31.106	AA NPT 2"	d1 A 4	d2 A 4	T 2.795
Flange FD-406	AJ 16.000	AK 14.000	BD 18.000	BF 0.828
BB 0.203				