



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 : 01512XT3H284T

List Price : \$4,048

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 : 284T  
 Output : 15 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1180  
 Slip : 1.67 %  
 Voltage : 575 V  
 Rated current : 14.0 A  
 Locked rotor current : 101 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.2  
 No-load current : 4.80 A  
 Full load torque : 65.9 lb.ft  
 Locked rotor torque : 250 %  
 Breakdown torque : 260 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 25 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000  
 Degree of Protection : IP54  
 Approximate weight : 463 lb  
 Moment of inertia : 7.0742 sq.ft.lb  
 Noise level : 59 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6311 C3	6211 Z-C3	100%	0.86	91.7
Regreasing interval	20000 h	20000 h	75%	0.83	91.7
Grease amount	18 g	11 g	50%	0.74	91.0

Notes:

Performed by

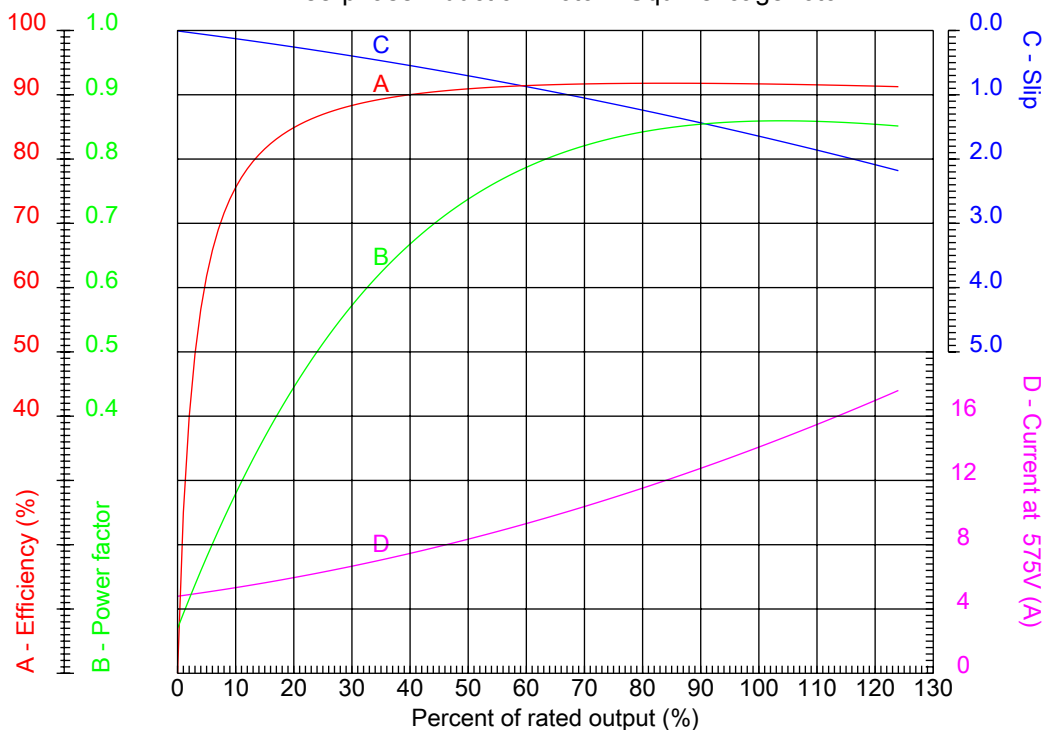
Checked



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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 : 284T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) : 7.2
Output : 15 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1180	Design : B
Voltage : 575 V	Locked rotor torque : 250 %
Rated current : 14.0 A	Breakdown torque : 260 %
Insulation class : F	

Notes:

Performed by

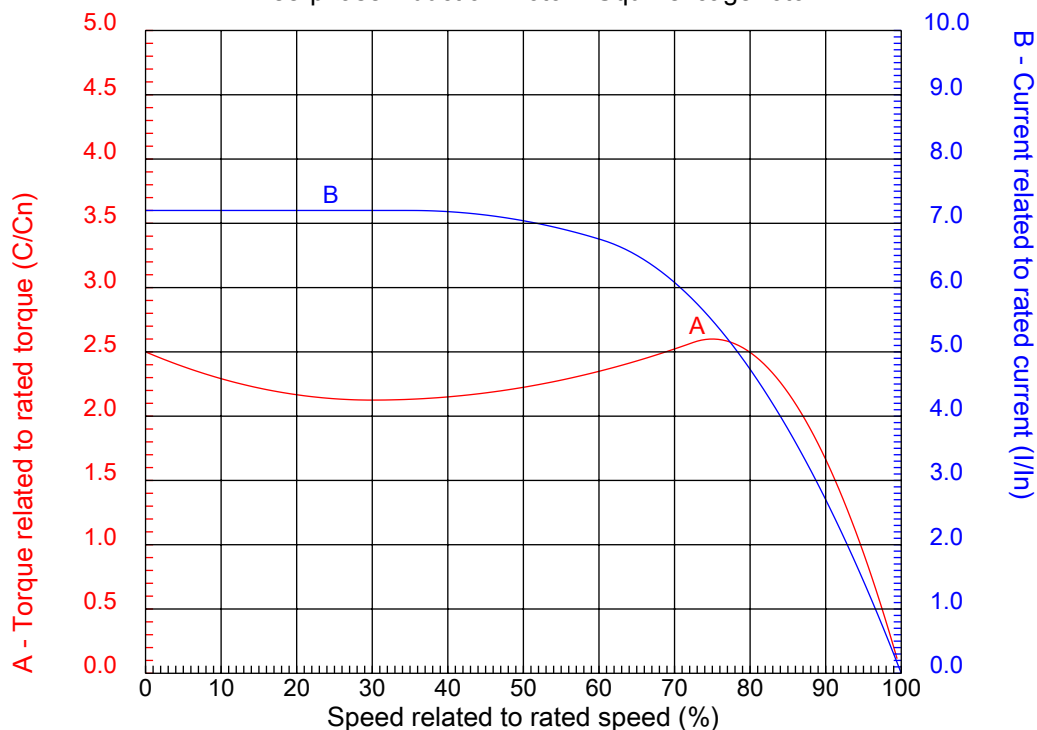
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### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



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

Frame	: 284T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.2
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1180	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 14.0 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

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Checked

1 2 3 4 5 6 7 8

A

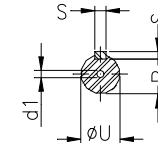
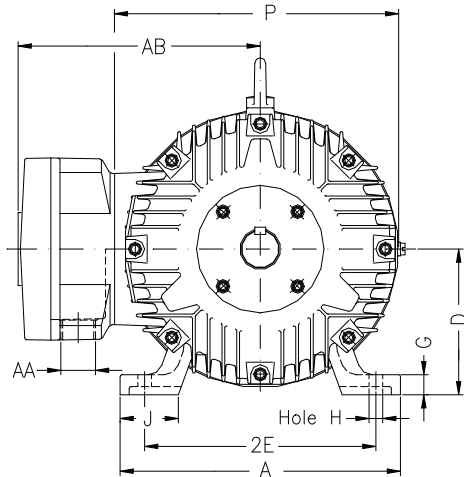
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 284T - IP54

27-DEC-2012



2E 11.000	A 13.780	2F 9.500	B 11.575	BA 4.750
J 3.150	K 2.953	P 14.094	ES 3.149	depth 0.500
S 0.500	N-W 4.622	U 1.875	R 1.594	AB 11.850
D 7.000	G 1.024	O 14.362	HD 16.803	H 0.531
C 26.407	AA NPT 1 1/2"	d1 A 4	d2 A 4	T 2.441
Flange FD-317	AJ 12.500	AK 11.000	BD 14.000	BF 0.828
BB 0.203				