



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 02518XT3E284TC

List Price : \$4,262

Notes:

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Generated for Model #02518XT3E284TC

Performed by:

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No.:

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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 : 25 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1775 rpm  
 Slip : 1.39 %  
 Voltage : 208-230/460 V  
 Rated current : 66.1-59.8/29.9 A  
 Locked rotor current : 490/245 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.2  
 No-load current : 27.0/13.5 A  
 Full load torque : 73.0 lb.ft  
 Locked rotor torque : 300 %  
 Breakdown torque : 300 %  
 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 m  
 Degree of Protection : IP55  
 Approximate weight : 472 lb  
 Moment of inertia : 4.5426 sq.ft.lb  
 Noise level : 68 dB(A)

	D.E.	N.D.E.
Bearings	6311 2RS-C3	6211 2RS-C3
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.83	93.6
75%	0.78	93.6
50%	0.67	92.4

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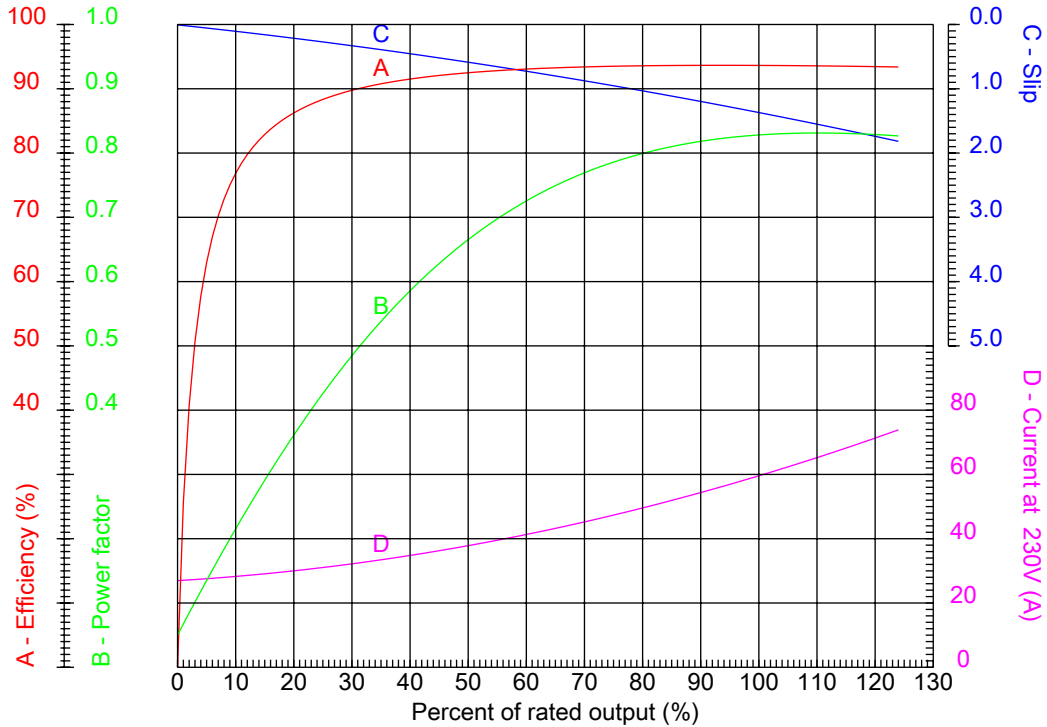
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 284T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> )	: 8.2
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1775 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 300 %
Rated current	: 66.1-59.8/29.9 A	Breakdown torque	: 300 %
Insulation class	: F		

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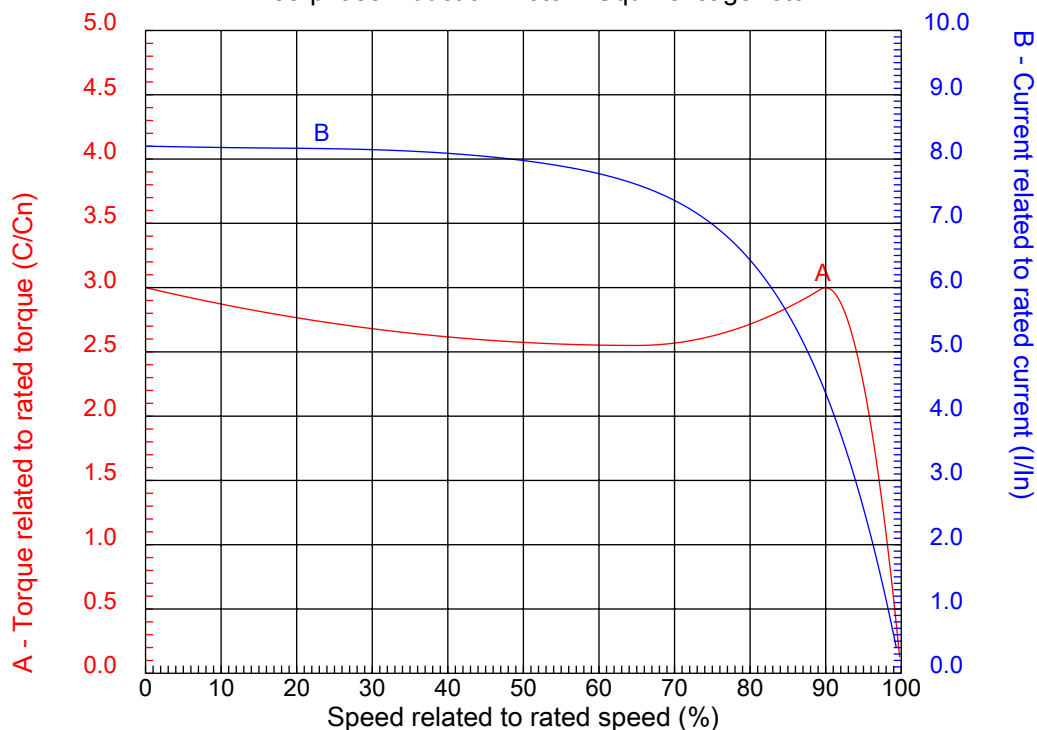
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



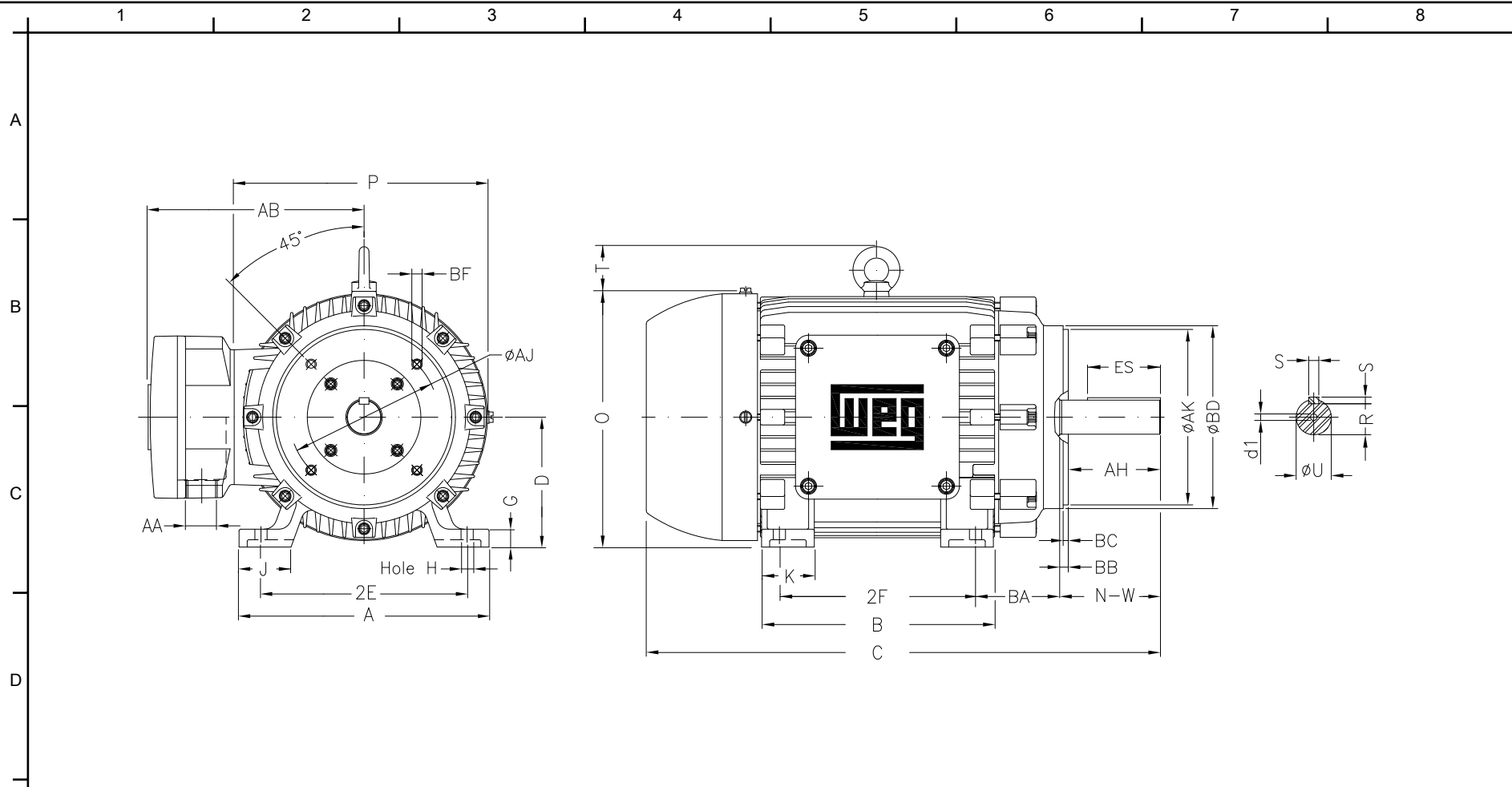
Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame	: 284T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.2
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1775 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 300 %
Rated current	: 66.1-59.8/29.9 A	Breakdown torque	: 300 %
Insulation class	: F		

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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	T 2.441	H 0.531
C 26.407	AA NPT 1 1/2"	d1 A 4	d2 A 4	Flange FC-228
AJ 9.000	AK 10.500	BD 11.031	BF UNC 1/2"x13	BB 0.250
BC 0.250	AH 4.375			

Performed by:  
 Checked:  
 Customer:  
 Three-Phase : Explosion Proof - NEMA Premium  
 Three-phase induction motor  
 Frame 284T - IP55  
 23-SEP-2016  


1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 284T - IP55

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