



No.:

Date: 19-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 03036ET3E286TSC-W22

List Price : \$3,659

Notes:

Performed by:

Checked:



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## DATA SHEET

### Three-phase induction motor - Squirrel cage rotor

Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 286TS  
Output : 30 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3535  
Slip : 1.81 %  
Voltage : 208-230/460 V  
Rated current : 74.8-67.6/33.8 A  
Locked rotor current : 426/213 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.3  
No-load current : 17.0/8.50 A  
Full load torque : 44.0 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 250 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 15 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 392 lb  
Moment of inertia : 3.3671 sq.ft.lb  
Noise level : 72 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6311 C3	6211 C3	100%	0.89	91.7
Regreasing interval	14000 h	17000 h	75%	0.87	91.7
Grease amount	18 g	11 g	50%	0.82	91.7

Notes:

Performed by

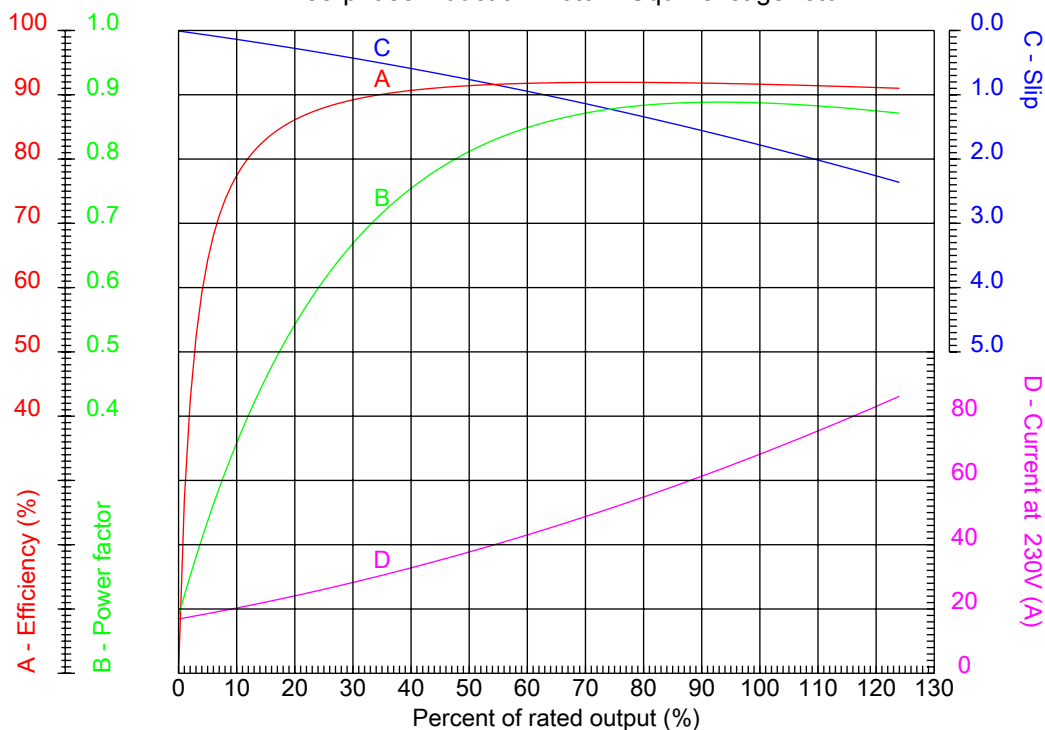
Checked



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### PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 286TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.3
Output : 30 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 3535	Design : B
Voltage : 208-230/460 V	Locked rotor torque : 200 %
Rated current : 74.8-67.6/33.8 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

Performed by

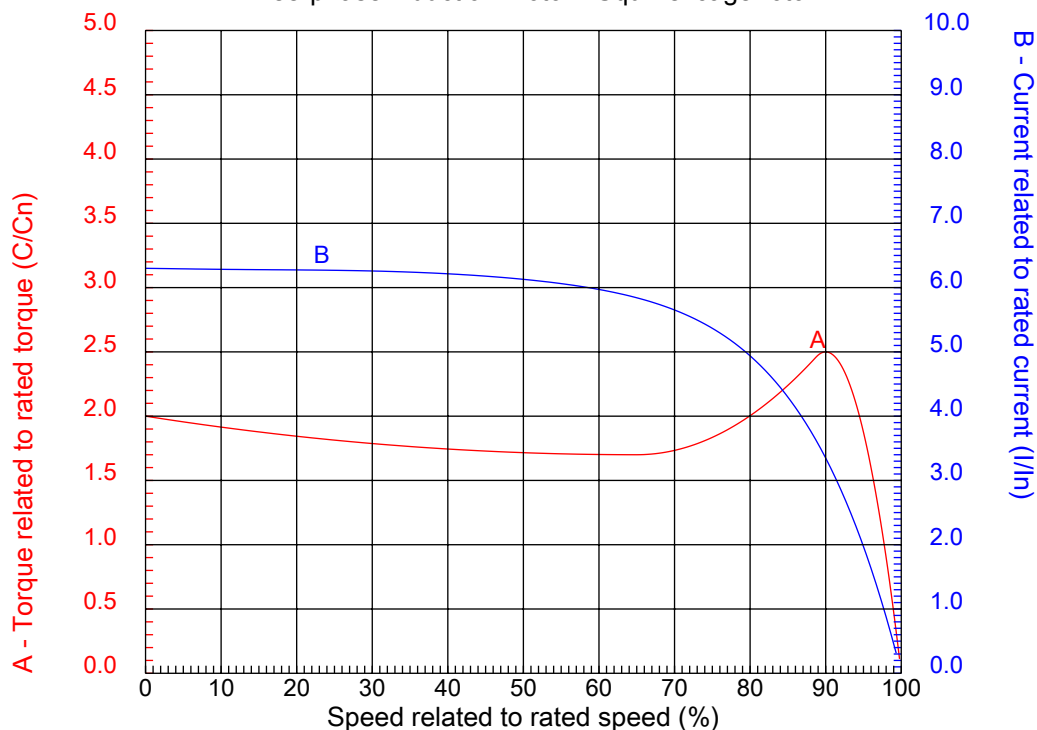
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### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



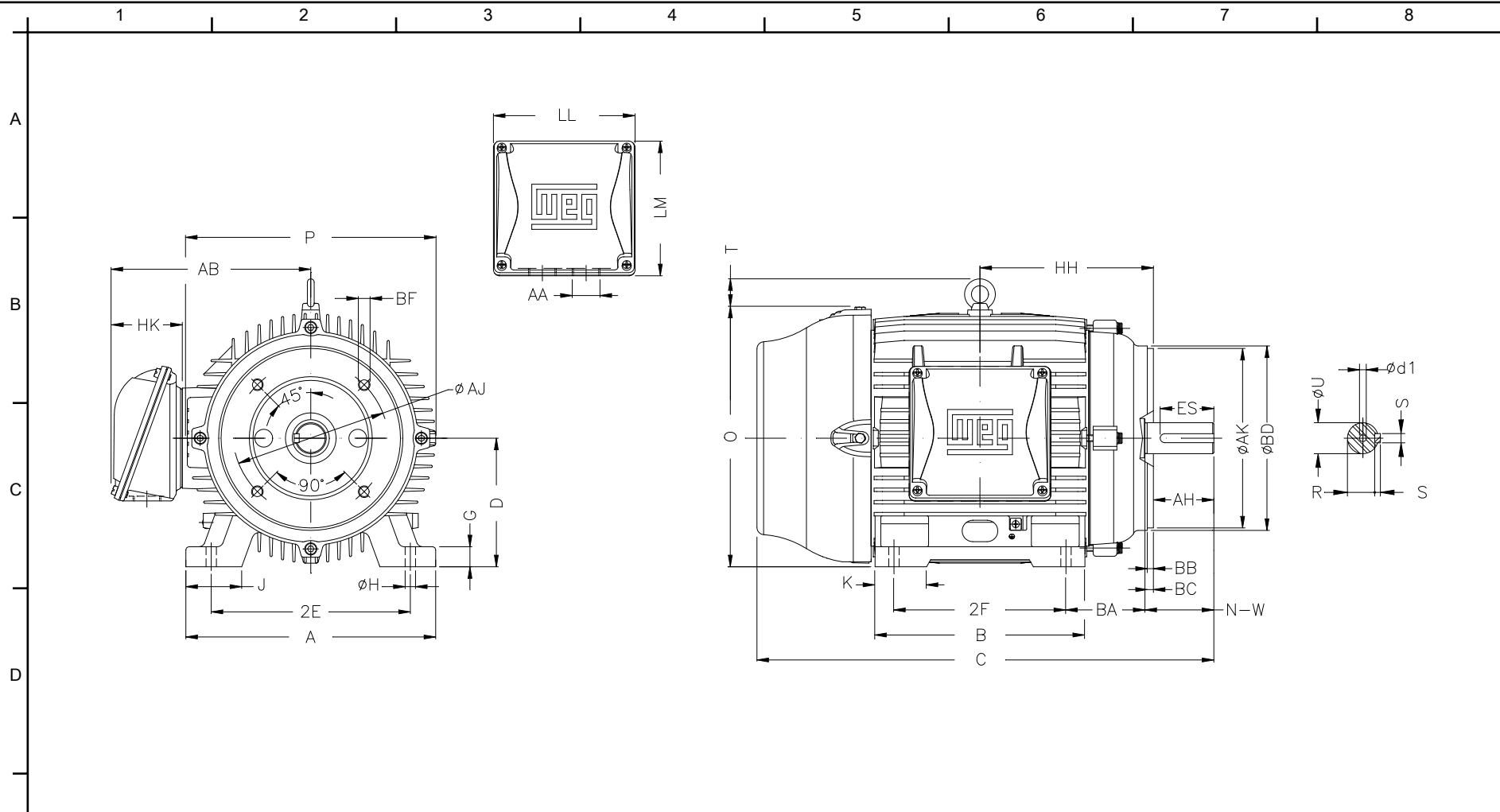
Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 286TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.3
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3535	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 74.8-67.6/33.8 A	Breakdown torque	: 250 %
Insulation class	: F		

Notes:

Performed by

Checked



E	2E 11.000	J 3.110	A 13.780	P 14.173	AB 10.984
	2F 11.000	K 2.874	B 13.071	BA 4.750	U 1.625
	N-W 3.250	ES 2.480	S 0.375	R 1.406	depth 0.375
	D 7.000	G 1.023	HB 3.535	O 14.067	T 2.087
	HD 16.154	HF 7.000	HH 10.250	HK 3.937	H 0.531
F	C 26.557	LL 7.795	LM 7.402	AA NPT 1 1/2"	d1 A 4
	d2 A 4	Flange FC-228	AJ 9.000	AK 10.500	BD 11.03
	BF UNC 1/2"x13	BB 0.250	BC 0.250	AH 3.000	

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Customer:		
W22 NEMA Premium - Ball Bearings		
Three-phase induction motor Frame 286TS - IP55	19-DEC-2012	