



# Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Catalog Number : 00158ET3ECT145TF1-W2

List Price : \$676

#### Notes:

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Generated for Model #00158ET3ECT145TF1-W2

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Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

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

Customer :  
Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Frame : 145T  
Output : 1.5 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1755 rpm  
Slip : 2.50 %  
Voltage : 208-230/460 V  
Rated current : 4.36-4.04/2.02 A  
Locked rotor current : 33.5/16.8 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.3  
No-load current : 2.10/1.05 A  
Full load torque : 4.43 lb.ft  
Locked rotor torque : 250 %  
Breakdown torque : 340 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 14 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 49 lb  
Moment of inertia : 0.14309 sq.ft.lb  
Noise level : 51 dB(A)

	D.E.	N.D.E.
Bearings	6205 ZZ	6204 ZZ
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.79	86.5
75%	0.70	85.5
50%	0.60	82.5

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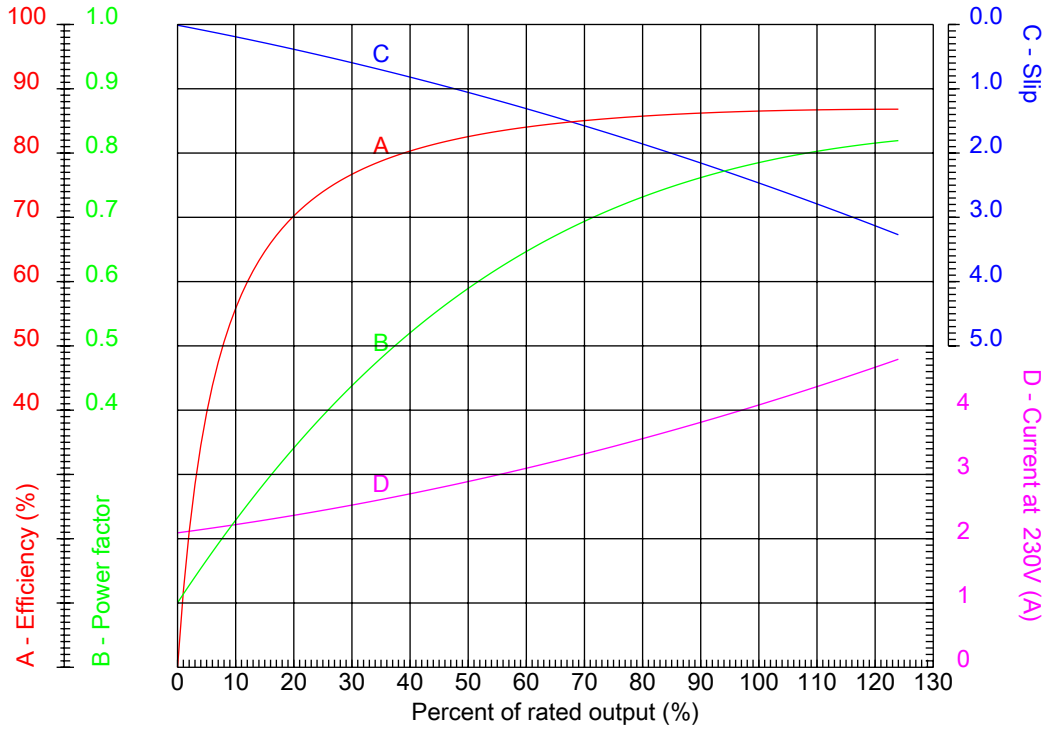
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Frame	: 145T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.3
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1755 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 4.36-4.04/2.02 A	Breakdown torque	: 340 %
Insulation class	: F		

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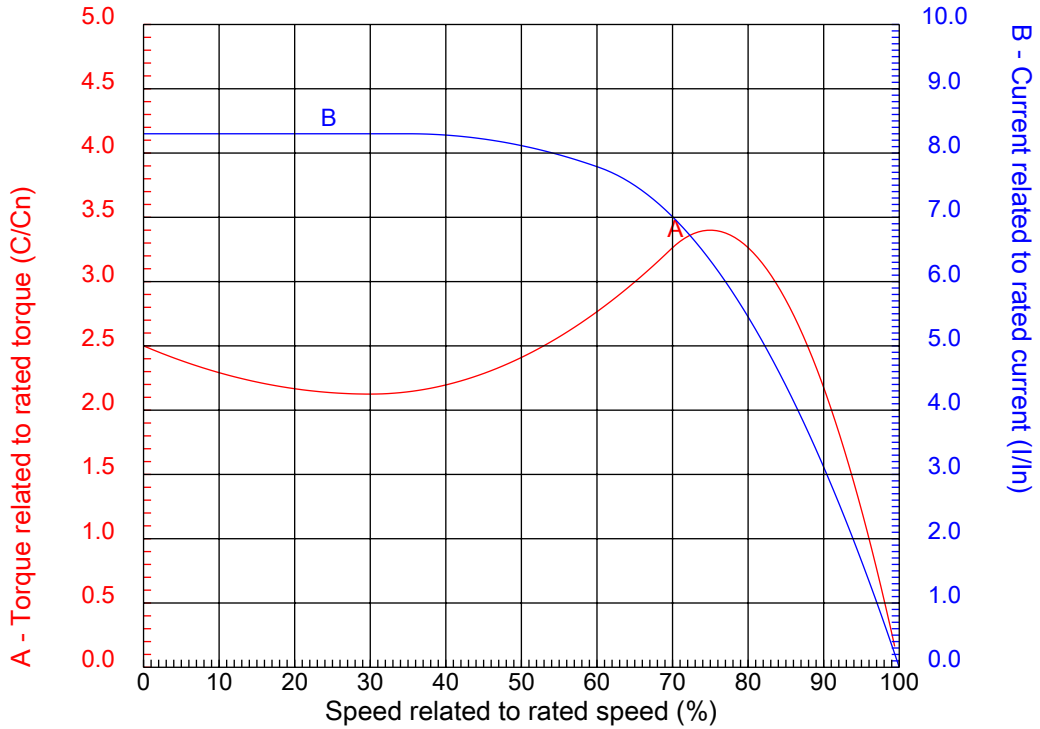
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



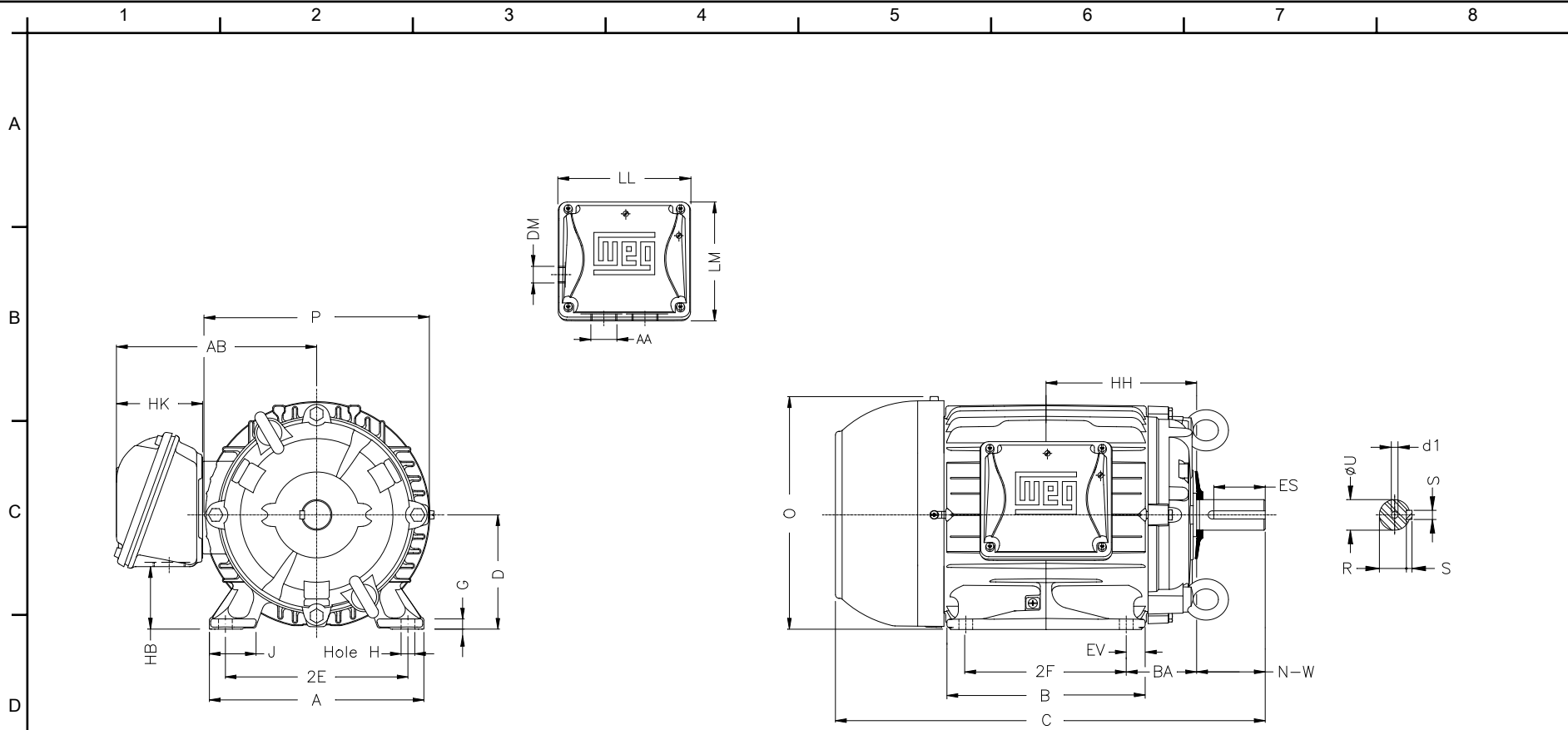
Customer :  
Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Frame	: 145T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.3
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1755 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 4.36-4.04/2.02 A	Breakdown torque	: 340 %
Insulation class	: F		

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Customer:

W22 Cooling Tower Motors: NEMA Premium - TEFC

Three-phase induction motor  
 Frame 145T - IP55

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	2E 5.500	J 1.437	A 6.457	P 6.850	AB 6.260
	2F 5.000	B 6.142	BA 2.250	U 0.875	N-W 2.250
	ES 1.575	S 0.187	R 0.765	depth 0.187	D 3.500
F	G 0.354	HB 1.788	O 7.122	HF 3.500	HH 4.750
	HK 2.717	H 0.344	C 13.346	LL 4.527	LM 4.094
	AA NPT 3/4"	d1 A 4	d2 A 4		

1 2 3 4 5 6 7 8

A

### LOW VOLTAGE

### HIGH VOLTAGE

B



C



D

E

F

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Customer:

W22 Cooling Tower Motors: NEMA Premium - TEFC

Three-phase induction motor  
 Frame 145T - IP55

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