



No.:

Date: 31-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Cooling Tower Motors : NEMA Premium

Catalog Number : 00118ET3PCT143T

List Price : \$647

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Cooling Tower Motors : NEMA Premium

Frame : 143T  
Output : 1 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1765  
Slip : 1.94 %  
Voltage : 200 V  
Rated current : 3.28 A  
Locked rotor current : 28.8 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.8  
No-load current : 1.96 A  
Full load torque : 2.94 lb.ft  
Locked rotor torque : 290 %  
Breakdown torque : 400 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 20 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 51 lb  
Moment of inertia : 0.11960 sq.ft.lb  
Noise level : 51 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6205 2RS	6204 2RS	100%	0.77	85.5
Regreasing interval	---	---	75%	0.71	84.0
Grease amount	---	---	50%	0.58	80.0

Notes:

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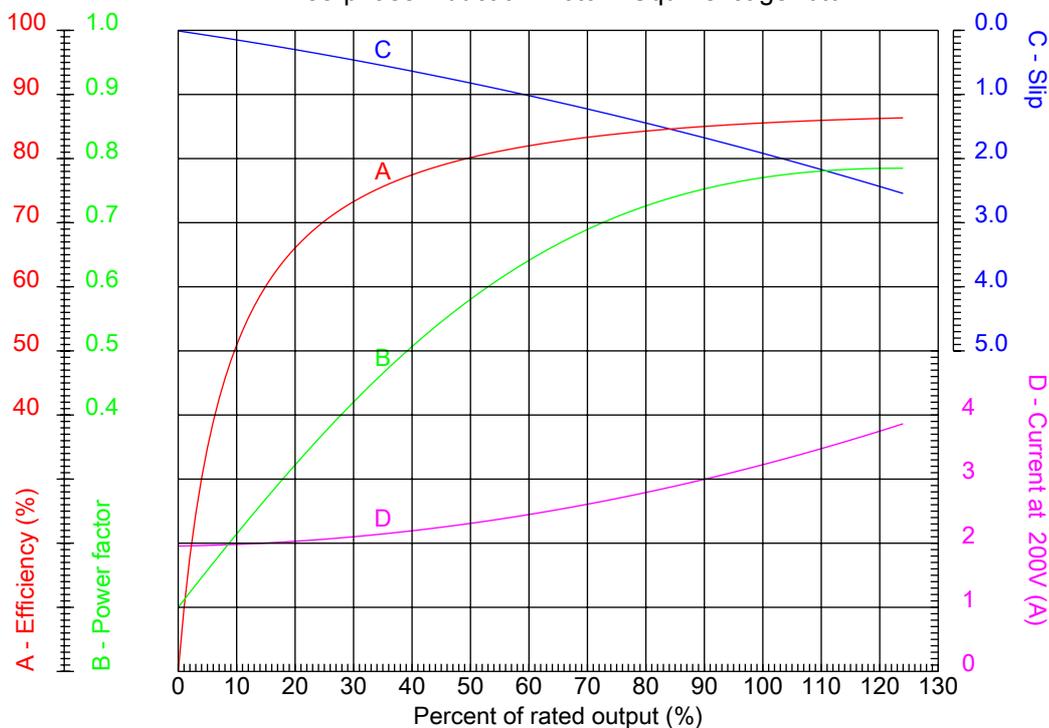


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Cooling Tower Motors : NEMA Premium

Frame	: 143T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.8
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765	Design	: B
Voltage	: 200 V	Locked rotor torque	: 290 %
Rated current	: 3.28 A	Breakdown torque	: 400 %
Insulation class	: F		

Notes:

Performed by

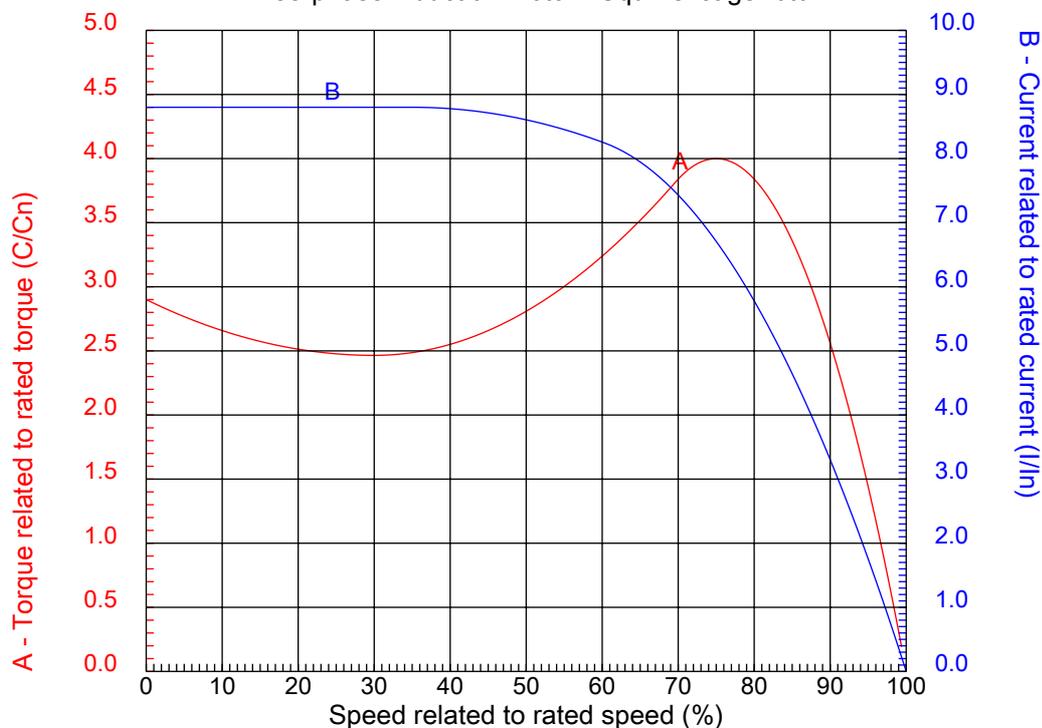
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### CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



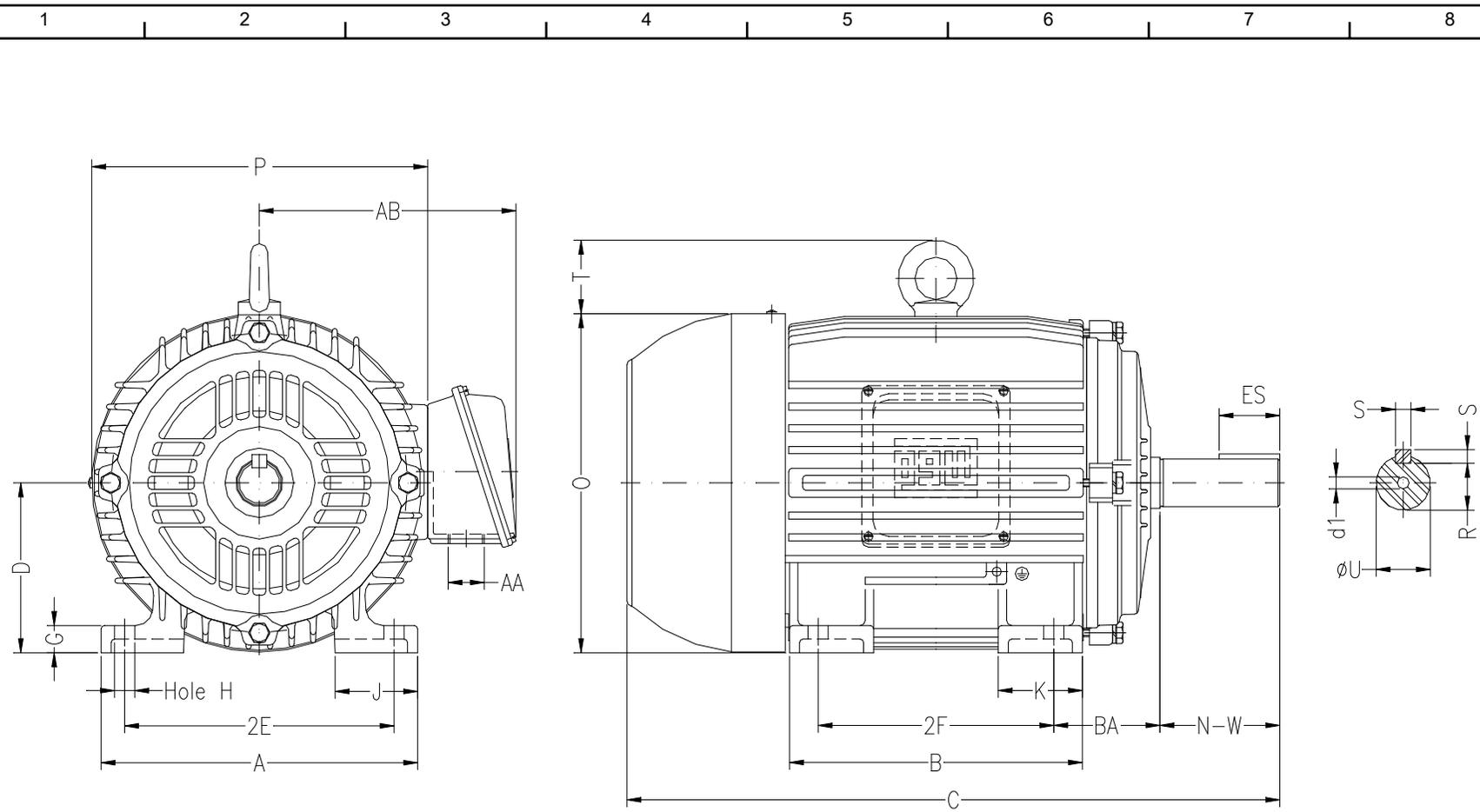
Customer :  
Product line : Cooling Tower Motors : NEMA Premium

Frame	: 143T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 8.8
Output	: 1 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 1765	Design	: B
Voltage	: 200 V	Locked rotor torque	: 290 %
Rated current	: 3.28 A	Breakdown torque	: 400 %
Insulation class	: F		

Notes:

Performed by

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Customer:

Cooling Tower Motors : NEMA Premium

2E	2F	H	BA	A
5.500	4.000	0.344	2.250	6.457
B	C	D	G	J
5.157	12.346	3.500	0.547	1.496
K	O	P	ES	S
1.654	7.000	7.047	1.575	0.187
N-W	U	R	AB	AA
2.250	0.875	0.765	6.102	NPT 3/4"
d1	Flange	AJ	AK	BD
A 4	FD-254	10.000	9.000	11.000
BF	BB			
0.562	0.203			

Three-phase induction motor  
Frame 143T - IP55

31-DEC-2012

