



No.:

Date: 31-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Cooling Tower Motors : High Efficiency - Two Speed

Catalog Number : 10089EP3PCT444V

List Price : \$16,398

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Cooling Tower Motors : High Efficiency - Two Speed

Frame : 444/5T  
Output : 25 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 890  
Slip : 1.11 %  
Voltage : 200 V  
Rated current : 101 A  
Locked rotor current : 405 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 4.0  
No-load current : 62.1 A  
Full load torque : 146 lb.ft  
Locked rotor torque : 180 %  
Breakdown torque : 190 %  
Design : A  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 50 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 1985 lb  
Moment of inertia : 70.504 sq.ft.lb  
Noise level : 64 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.58	91.0
Regreasing interval	7038 h	8569 h	75%	0.50	90.2
Grease amount	45 g	34 g	50%	0.42	87.5

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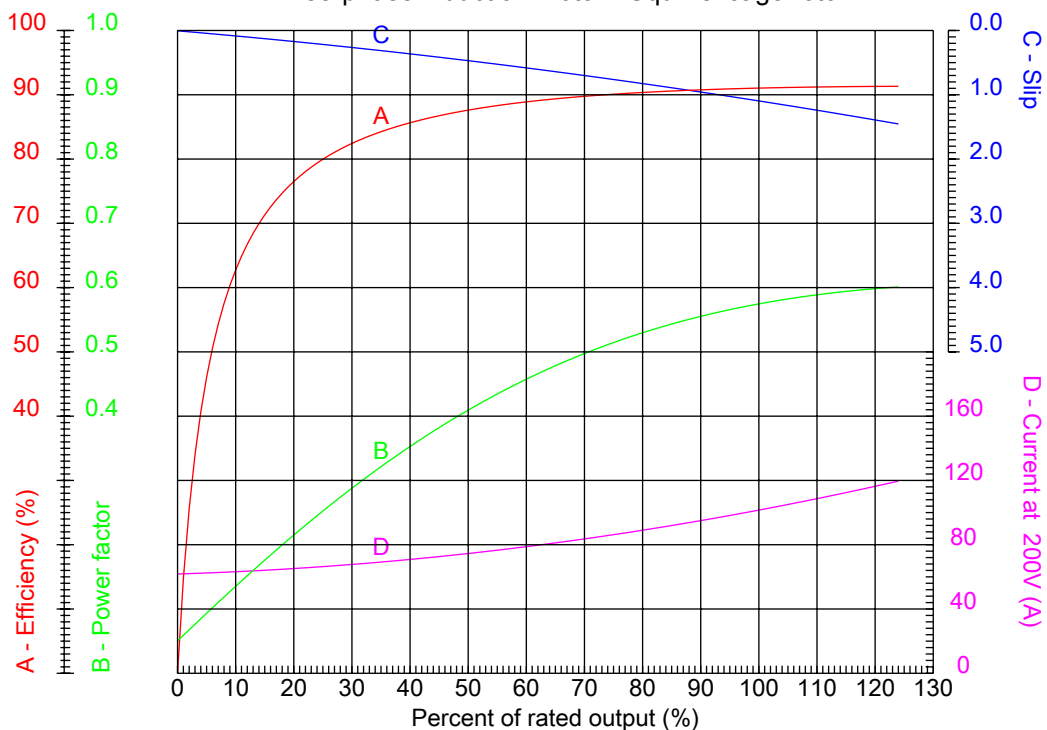


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Cooling Tower Motors : High Efficiency - Two Speed

Frame	: 444/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 4.0
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 890	Design	: A
Voltage	: 200 V	Locked rotor torque	: 180 %
Rated current	: 101 A	Breakdown torque	: 190 %
Insulation class	: F		

Notes:

Performed by

Checked

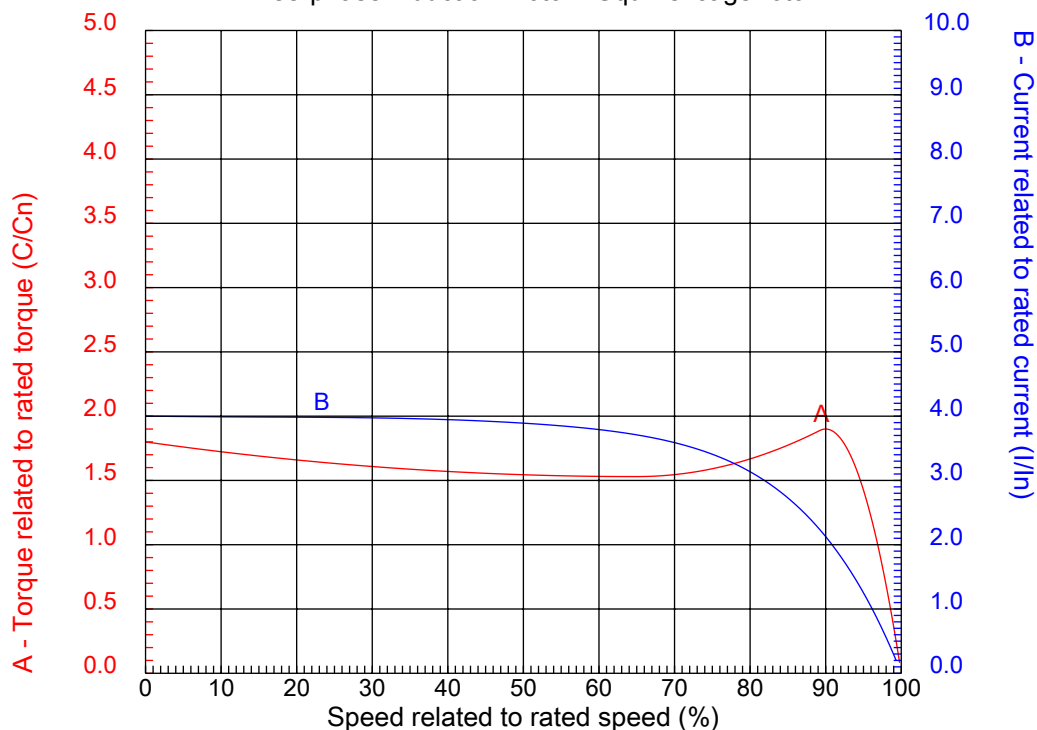


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



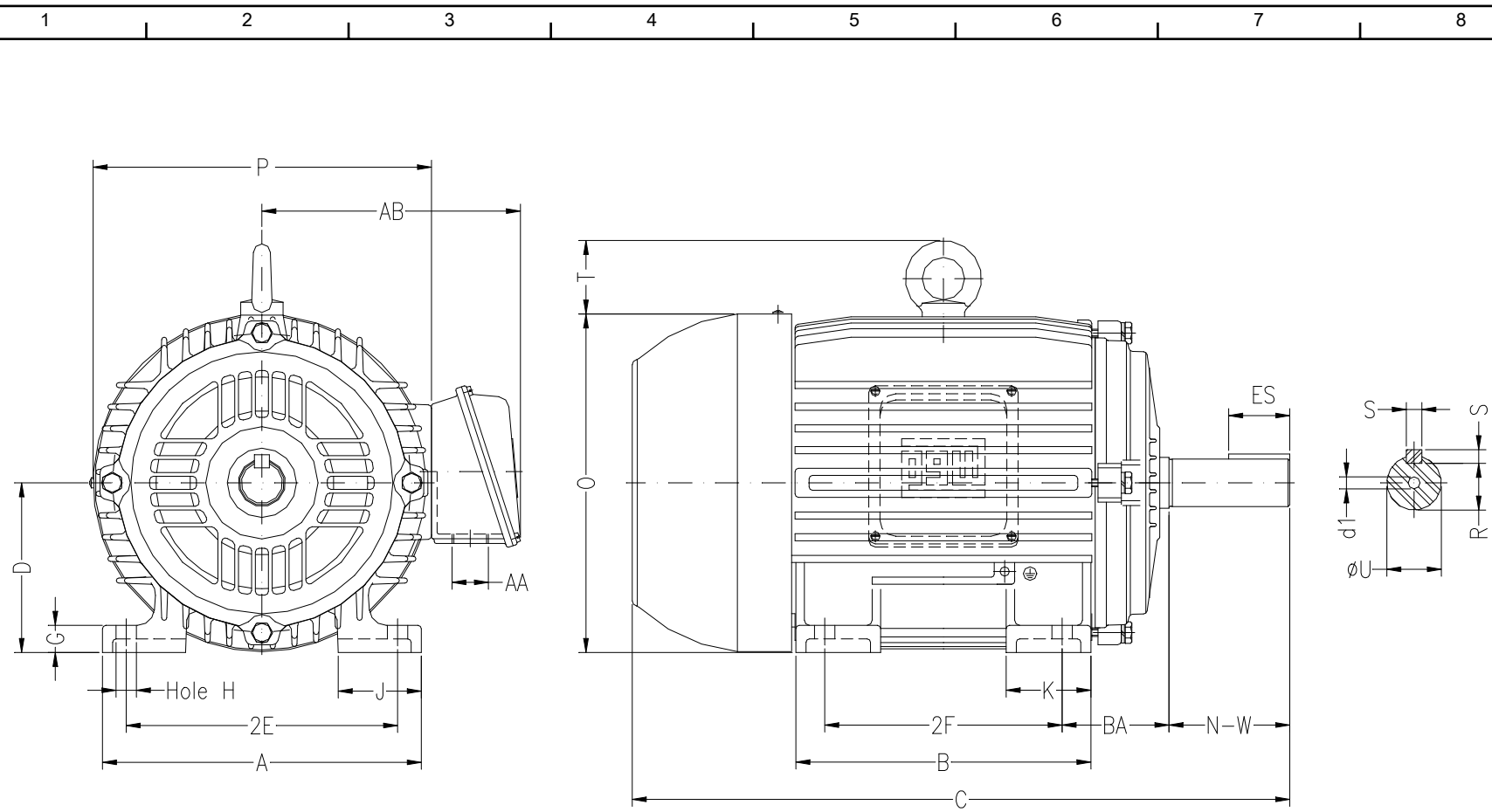
Customer :  
Product line : Cooling Tower Motors : High Efficiency - Two Speed

Frame	: 444/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 4.0
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 890	Design	: A
Voltage	: 200 V	Locked rotor torque	: 180 %
Rated current	: 101 A	Breakdown torque	: 190 %
Insulation class	: F		

Notes:

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Customer:

Cooling Tower Motors : High Efficiency - Two Speed

Three-phase induction motor  
Frame 444/5T - IP55

31-DEC-2012



2E 18.000	2F 14.500/16.500	H 0.807	BA 7.500	A 21.929
B 20.079	C 43.776	D 11.000	G 1.630	J 3.937
K 5.591	O 22.713	P 23.622	ES 7.087	S 0.875
N-W 8.500	U 3.375	R 2.880	AB 19.213	AA 2XNPT 3"
d1 DUNC 3/4"-10	Flange FD-508	AJ 20.000	AK 18.000	BD 21.653
BF 0.828	BB 0.203			