



# Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

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

Catalog Number : 12536XT3G444TS

List Price : \$20,874

#### Notes:

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Generated for Model #12536XT3G444TS

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

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

Frame : 444/5TS  
Output : 125 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3570 rpm  
Slip : 0.83 %  
Voltage : 460 V  
Rated current : 132 A  
Locked rotor current : 871 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
No-load current : 32.5 A  
Full load torque : 181 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 250 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 22 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 1940 lb  
Moment of inertia : 31.178 sq.ft.lb  
Noise level : 86 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.90	95.0
Regreasing interval	3604 h	3604 h	75%	0.89	94.5
Grease amount	27 g	27 g	50%	0.83	93.0

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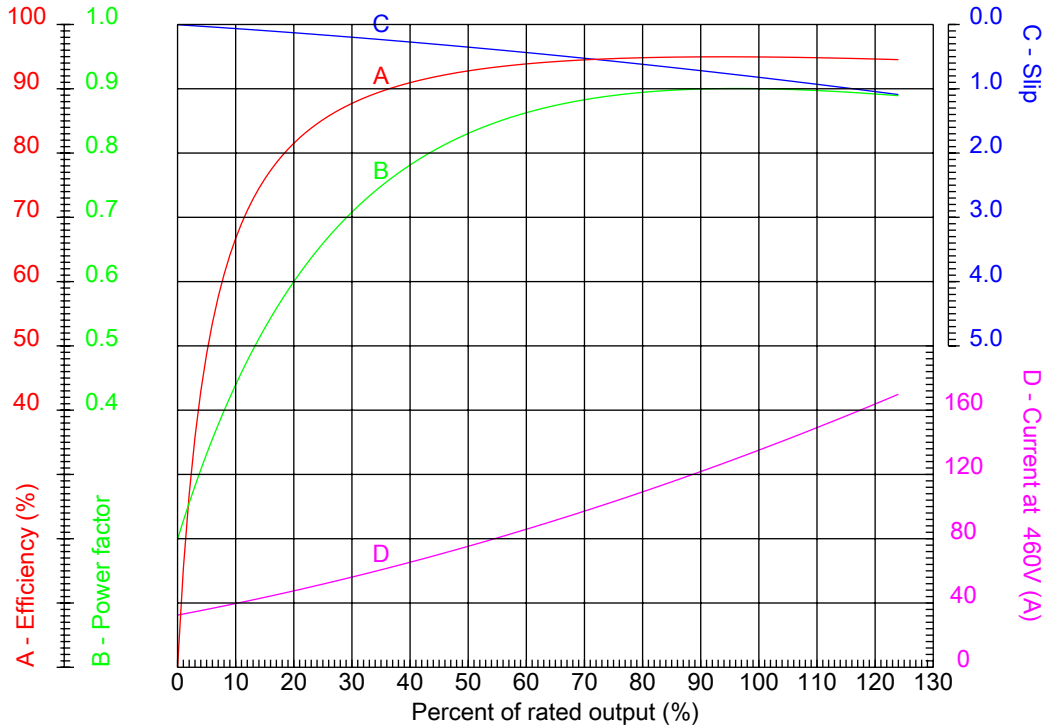
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 444/5TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.6
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 132 A	Breakdown torque	: 250 %
Insulation class	: F		

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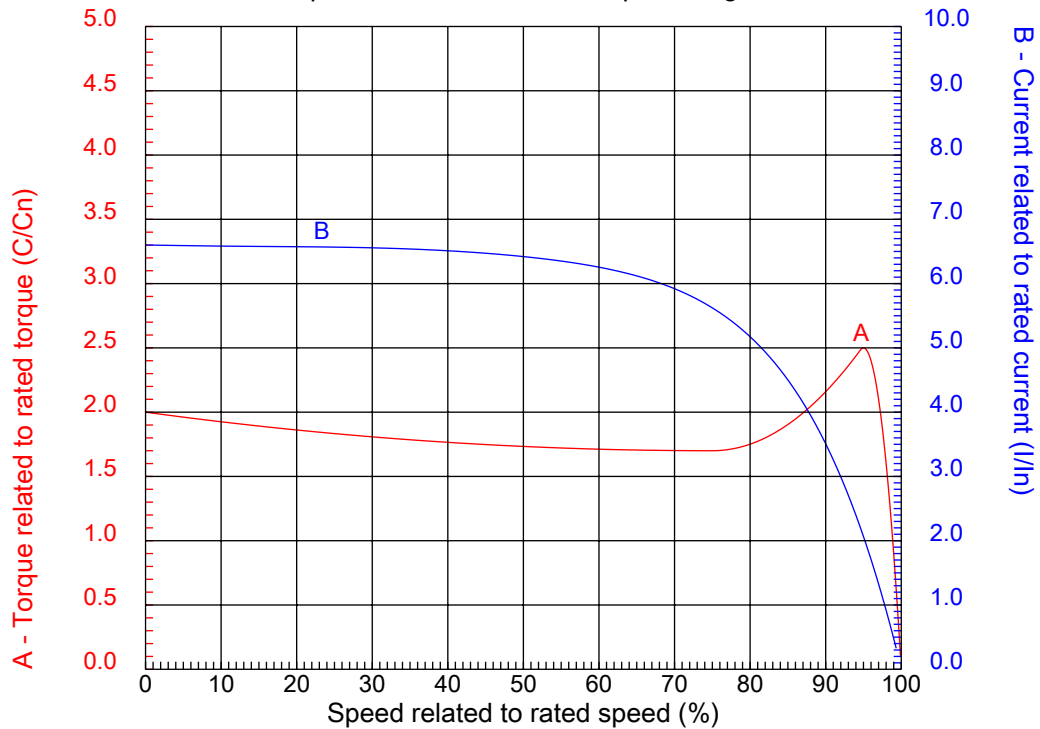
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 444/5TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.6
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 132 A	Breakdown torque	: 250 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

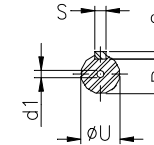
B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

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

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2E 18.000	A 21.929	2F 14.500/16.500	B 20.079	BA 7.500
J 3.937	FBA 11.769/13.769	K 5.591	P 24.016	ES 3.000
depth 0.625	S 0.625	N-W 4.750	U 2.375	R 2.021
AB 21.732	D 11.000	G 1.630	O 23.622	T 3.543
H 0.807	C 40.047	AA 2xNPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10

1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

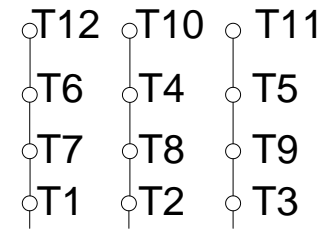
#### START

#### RUN

#### START

#### RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Customer:

Three-Phase : Explosion Proof - NEMA Premium

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

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