



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 : 20036XT3G447TS

List Price : \$29,446

Notes:

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Generated for Model #20036XT3G447TS

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# Dealers Industrial Equipment

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Date: 28-SEP-2016

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

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

Frame : 447TS  
 Output : 200 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3570 rpm  
 Slip : 0.83 %  
 Voltage : 460 V  
 Rated current : 221 A  
 Locked rotor current : 1620 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.3  
 No-load current : 50.0 A  
 Full load torque : 290 lb.ft  
 Locked rotor torque : 220 %  
 Breakdown torque : 260 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 37 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 2492 lb  
 Moment of inertia : 44.677 sq.ft.lb  
 Noise level : 87 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	3604 h	3604 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.89	95.8
75%	0.88	95.4
50%	0.84	94.1

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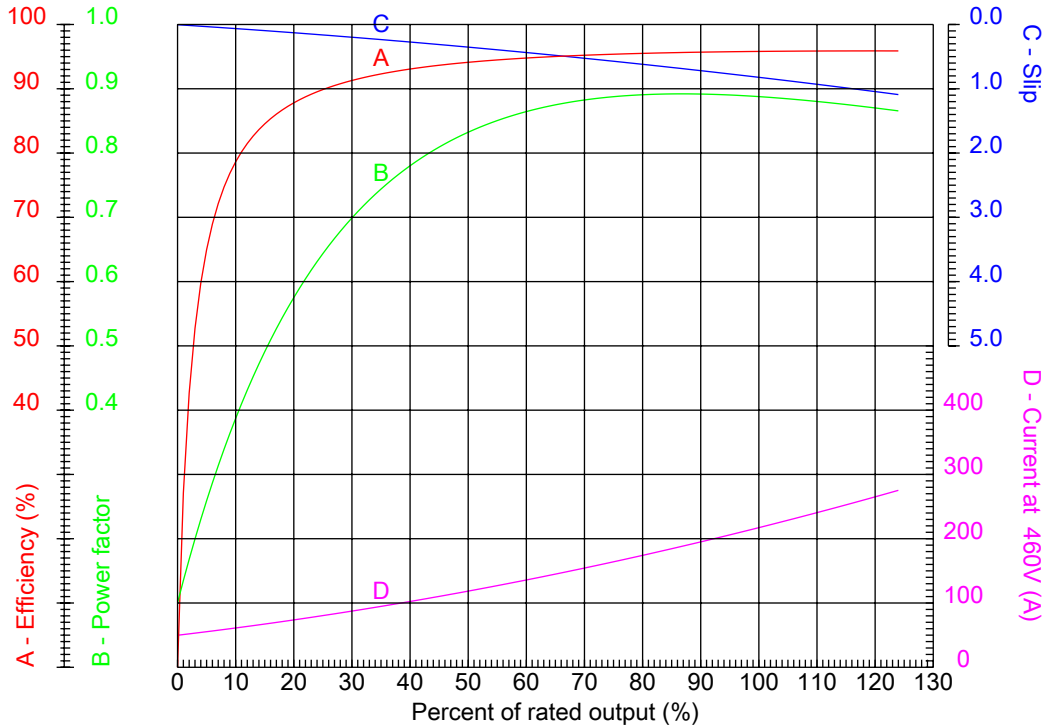
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 447TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.3
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 221 A	Breakdown torque	: 260 %
Insulation class	: F		

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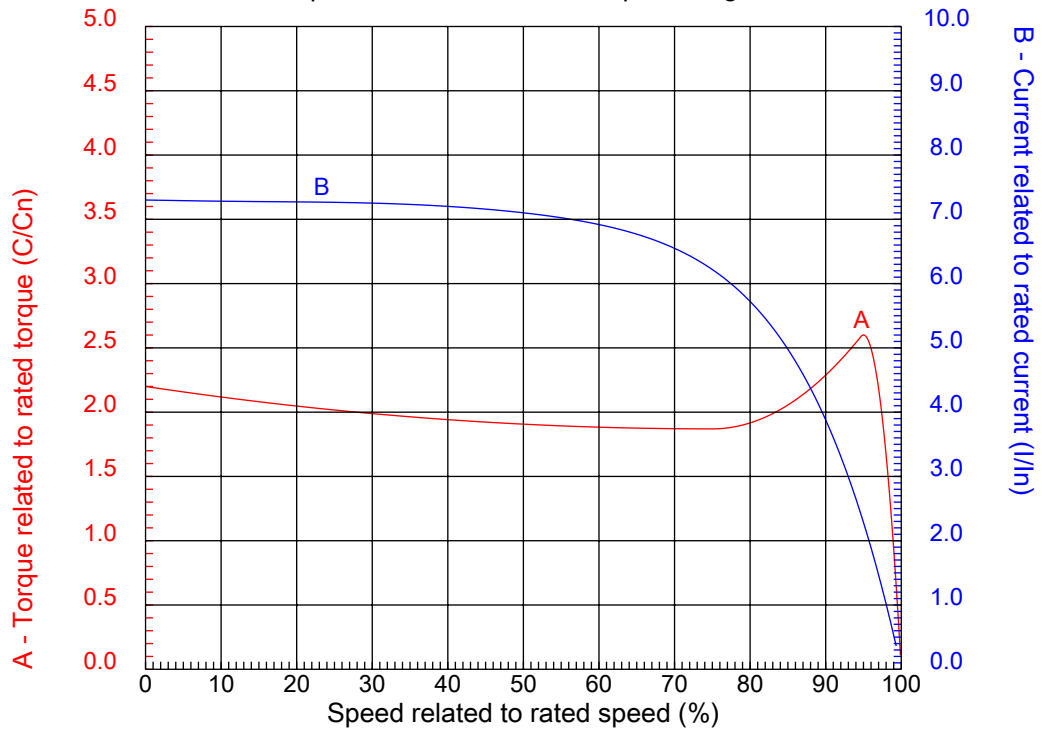
# Dealers Industrial Equipment

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Date: 28-SEP-2016

## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 447TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.3
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 220 %
Rated current	: 221 A	Breakdown torque	: 260 %
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 447TS - IP55

28-SEP-2016



2E 18.000	A 21.929	2F 20.000	B 23.640	BA 7.500
J 3.937	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 20.984
D 11.000	G 1.630	O 23.622	T 3.543	H 0.807
C 43.589	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

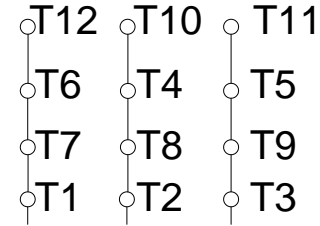
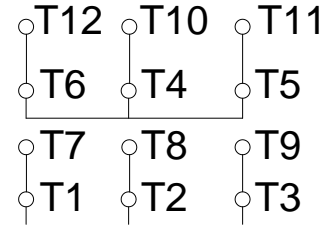
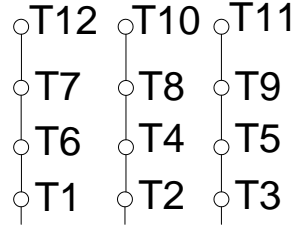
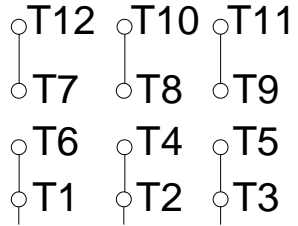
#### START

#### 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 447TS - IP55	28-SEP-2016	