



# Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

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

Catalog Number : 40012XT3G586/7

List Price : \$75,473

#### Notes:

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Generated for Model #40012XT3G586/7

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# Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

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

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

Frame : 586/7T  
Output : 400 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1190 rpm  
Slip : 0.83 %  
Voltage : 460 V  
Rated current : 479 A  
Locked rotor current : 2880 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
No-load current : 145 A  
Full load torque : 1741 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 200 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 71 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 4983 lb  
Moment of inertia : 367.54 sq.ft.lb  
Noise level : 77 dB(A)

	D.E.	N.D.E.
Bearings	6322 C3	6319 C3
Regreasing interval	9212 h	11094 h
Grease amount	60 g	45 g

Load	Power factor	Efficiency (%)
100%	0.82	95.8
75%	0.78	95.0
50%	0.70	93.6

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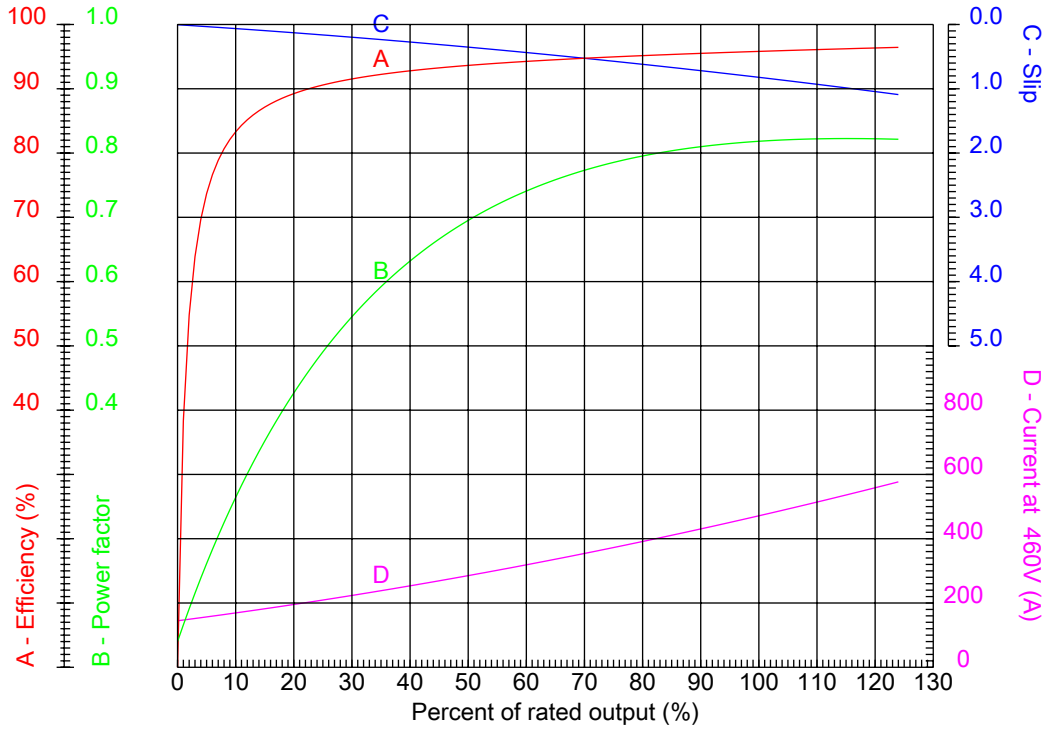
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame : 586/7T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) : 6.0
Output : 400 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1190 rpm	Design : B
Voltage : 460 V	Locked rotor torque : 200 %
Rated current : 479 A	Breakdown torque : 200 %
Insulation class : F	

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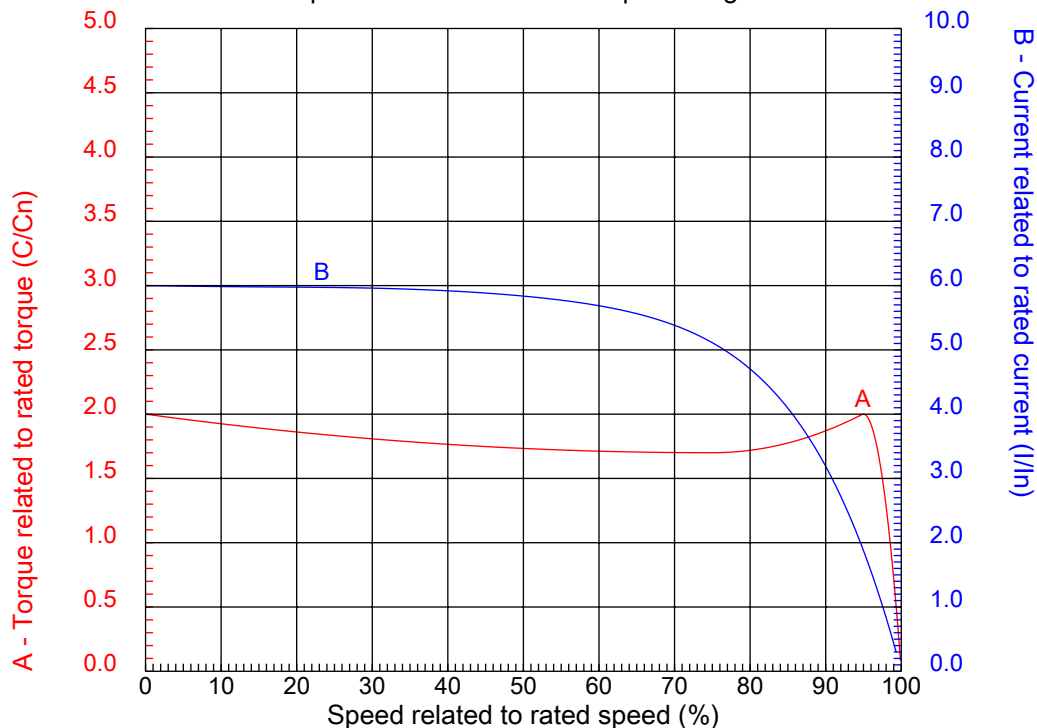
# Dealers Industrial Equipment

No.:

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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	: 586/7T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 400 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1190 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 479 A	Breakdown torque	: 200 %
Insulation class	: F		

Notes:  
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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 586/7T - IP55

29-SEP-2016



2E 23.000	A 29.528	2F 22.000/25.000	B 29.921	BA 10.00
J 5.236	K 7.874	P 30.709	ES 8.661	depth 1.000
S 1.000	N-W 11.625	U 3.875	R 3.312	AB 25.787
D 14.500	G 2.492	O 30.428	T 4.291	H 1.181
C 61.389	AA 2xNPT 3"	d1 DUNC 7/8"-9	d2 DUNC 3/4"-10	

1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

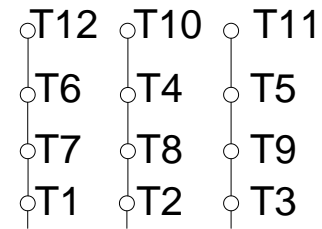
#### START

#### RUN

#### START

#### RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Performed by:		
Checked:		
Customer:		
Three-Phase : Explosion Proof - NEMA Premium		
Three-phase induction motor Frame 586/7T - IP55	29-SEP-2016	