



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 : 50018XT3G586/7

List Price : \$70,086

Notes:

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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 : 500 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1790 rpm
 Slip : 0.56 %
 Voltage : 460 V
 Rated current : 568 A
 Locked rotor current : 3580 A
 Locked rotor current (I_L/I_n) : 6.3
 No-load current : 140 A
 Full load torque : 1447 lb.ft
 Locked rotor torque : 210 %
 Breakdown torque : 230 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 25 s (hot)
 Service factor : 1.00
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 4829 lb
 Moment of inertia : 255.87 sq.ft.lb
 Noise level : 83 dB(A)

	D.E.	N.D.E.
Bearings	6322 C3	6319 C3
Regreasing interval	5138 h	7038 h
Grease amount	60 g	45 g

Load	Power factor	Efficiency (%)
100%	0.85	96.2
75%	0.84	96.2
50%	0.81	95.8

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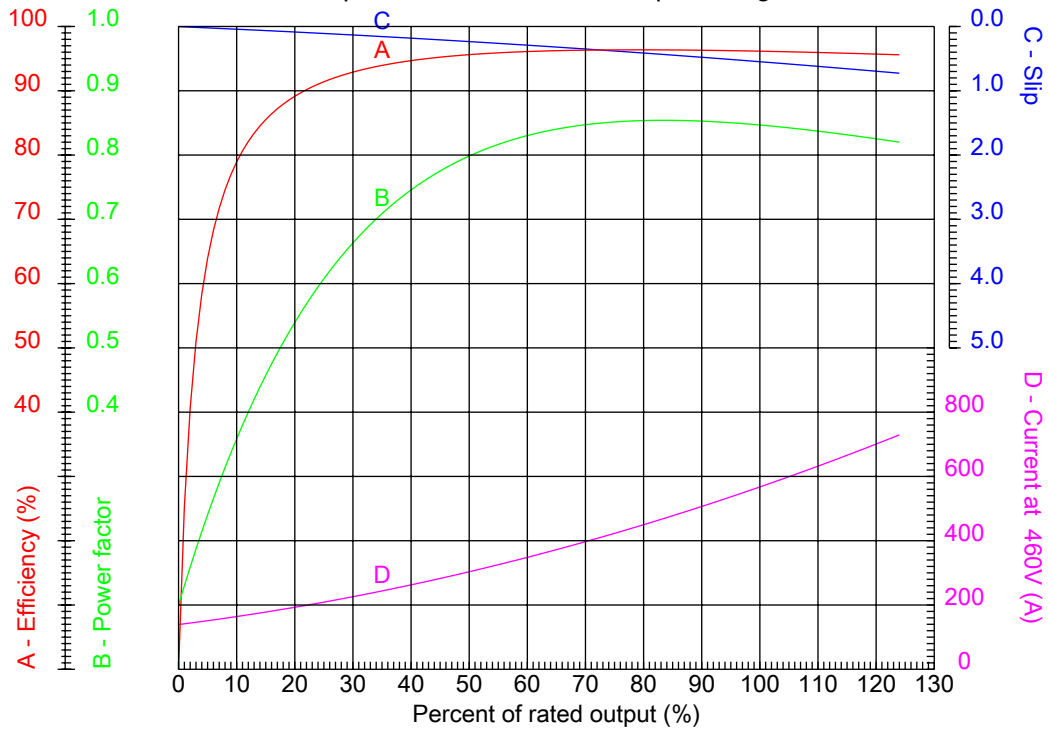
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 586/7T	Locked rotor current (I _l /I _n)	: 6.3
Output	: 500 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.00
Full load speed	: 1790 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 210 %
Rated current	: 568 A	Breakdown torque	: 230 %
Insulation class	: F		

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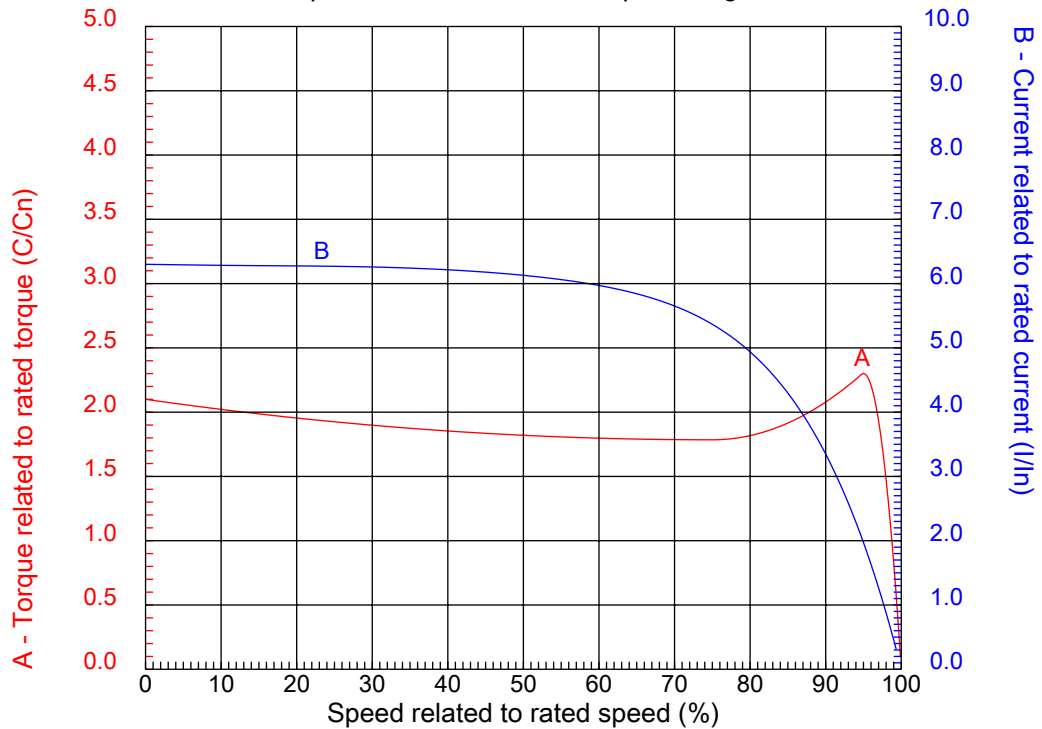
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 586/7T	Locked rotor current (I _l /I _n)	: 6.3
Output	: 500 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.00
Full load speed	: 1790 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 210 %
Rated current	: 568 A	Breakdown torque	: 230 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

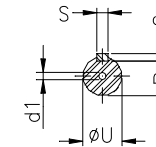
B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 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

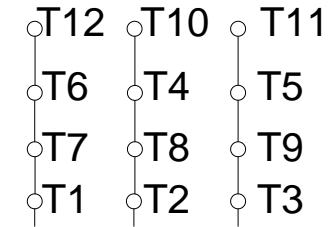
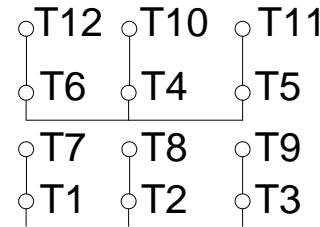
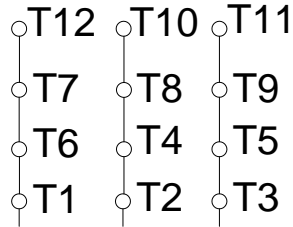
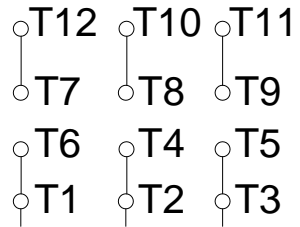
START

RUN

START

RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 586/7T - IP55

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