



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 10009XT3E445T

List Price : \$31,191

Notes:

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Dealers Industrial Equipment

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 444/5T
 Output : 100 HP
 Frequency : 60 Hz
 Poles : 8
 Full load speed : 890 rpm
 Slip : 1.11 %
 Voltage : 208-230/460 V
 Rated current : 276-250/125 A
 Locked rotor current : 1530/763 A
 Locked rotor current (I_L/I_n) : 6.1
 No-load current : 95.0/47.5 A
 Full load torque : 582 lb.ft
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 16 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 2053 lb
 Moment of inertia : 87.260 sq.ft.lb
 Noise level : 64 dB(A)

	D.E.	N.D.E.
Bearings	6219 C3	6316 C3
Regreasing interval	15247 h	15904 h
Grease amount	27 g	34 g

Load	Power factor	Efficiency (%)
100%	0.80	94.1
75%	0.77	94.5
50%	0.68	94.1

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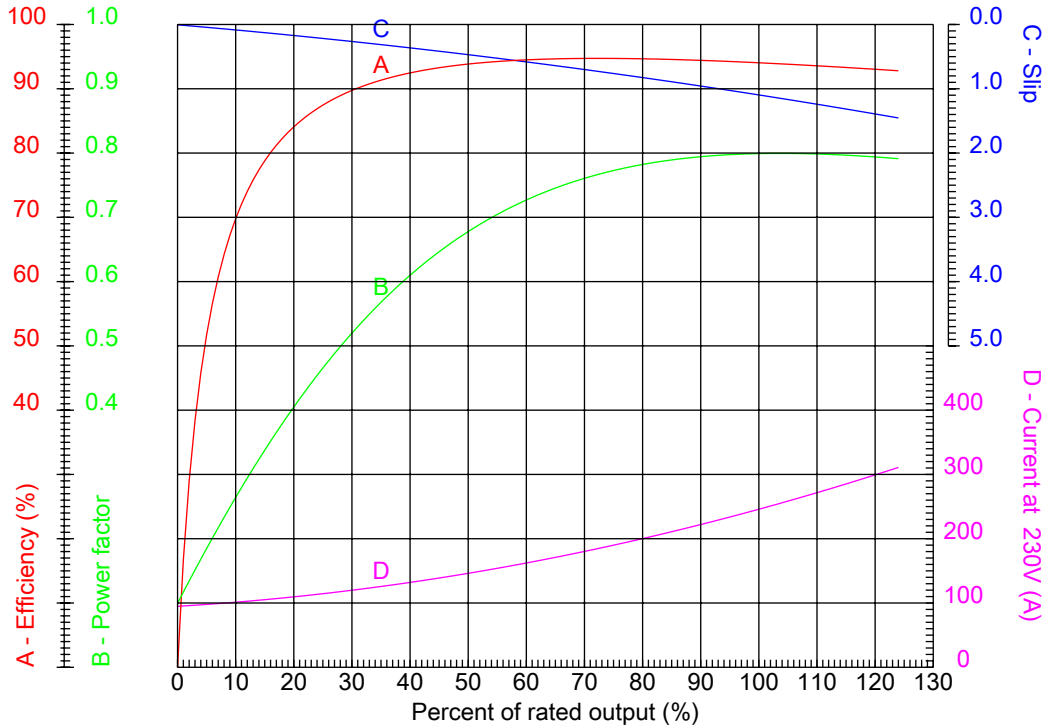
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 444/5T	Locked rotor current (I _l /I _n)	: 6.1
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 890 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 170 %
Rated current	: 276-250/125 A	Breakdown torque	: 200 %
Insulation class	: F		

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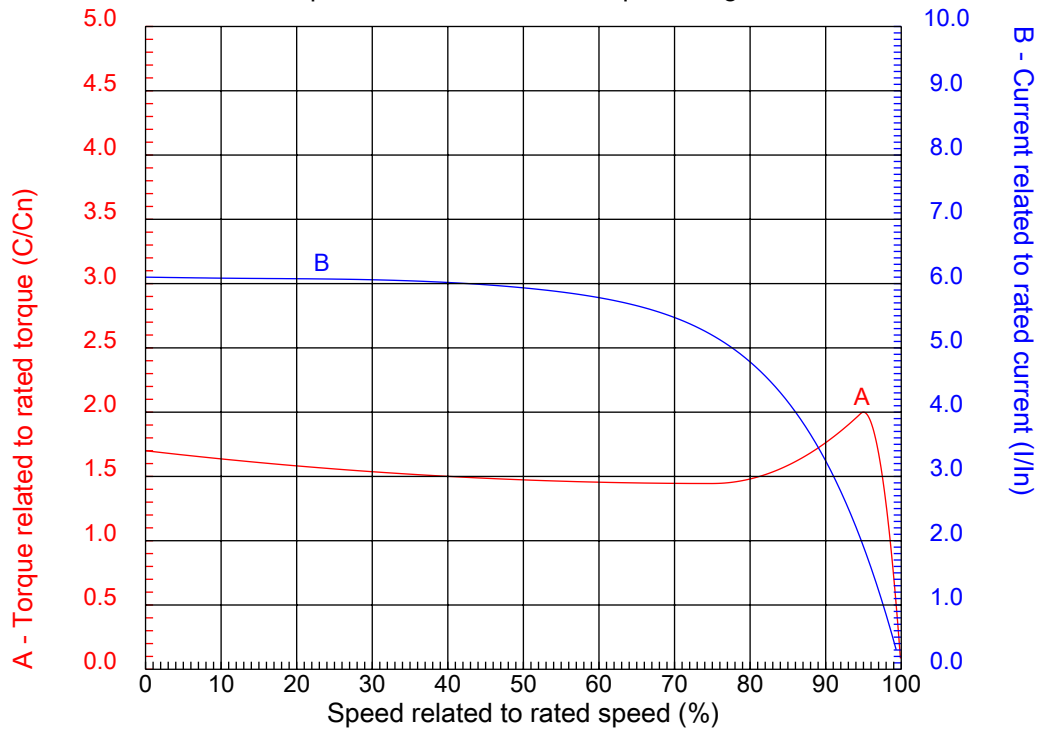
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 444/5T	Locked rotor current (I _l /I _n)	: 6.1
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 890 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 170 %
Rated current	: 276-250/125 A	Breakdown torque	: 200 %
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 444/5T - 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 7.087
depth 0.875	S 0.875	N-W 8.500	U 3.375	R 2.880
AB 21.732	D 11.000	G 1.630	O 23.622	T 3.543
H 0.807	C 43.797	FC 50.143	AA 2xNPT 3"	d1 DUNC 3/4"-10
d2 DUNC 3/4"-10				

1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

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

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