



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 High Efficiency

Catalog Number : 10009EP3E445T-W22

List Price : \$21,909

Notes:

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Dealers Industrial Equipment

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Date: 27-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 High Efficiency

Frame : 444/5T
Output : 100 HP
Frequency : 60 Hz
Poles : 8
Full load speed : 885 rpm
Slip : 1.67 %
Voltage : 230/460 V
Rated current : 254/127 A
Locked rotor current : 1450/724 A
Locked rotor current (I_L/I_n) : 5.7
No-load current : 96.0/48.0 A
Full load torque : 585 lb.ft
Locked rotor torque : 180 %
Breakdown torque : 200 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 18 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 1599 lb
Moment of inertia : 87.260 sq.ft.lb
Noise level : 63 dB(A)

	D.E.	N.D.E.
Bearings	6319 C3	6316 C3
Regreasing interval	17000 h	20000 h
Grease amount	45 g	34 g

Load	Power factor	Efficiency (%)
100%	0.80	93.0
75%	0.76	93.6
50%	0.67	93.0

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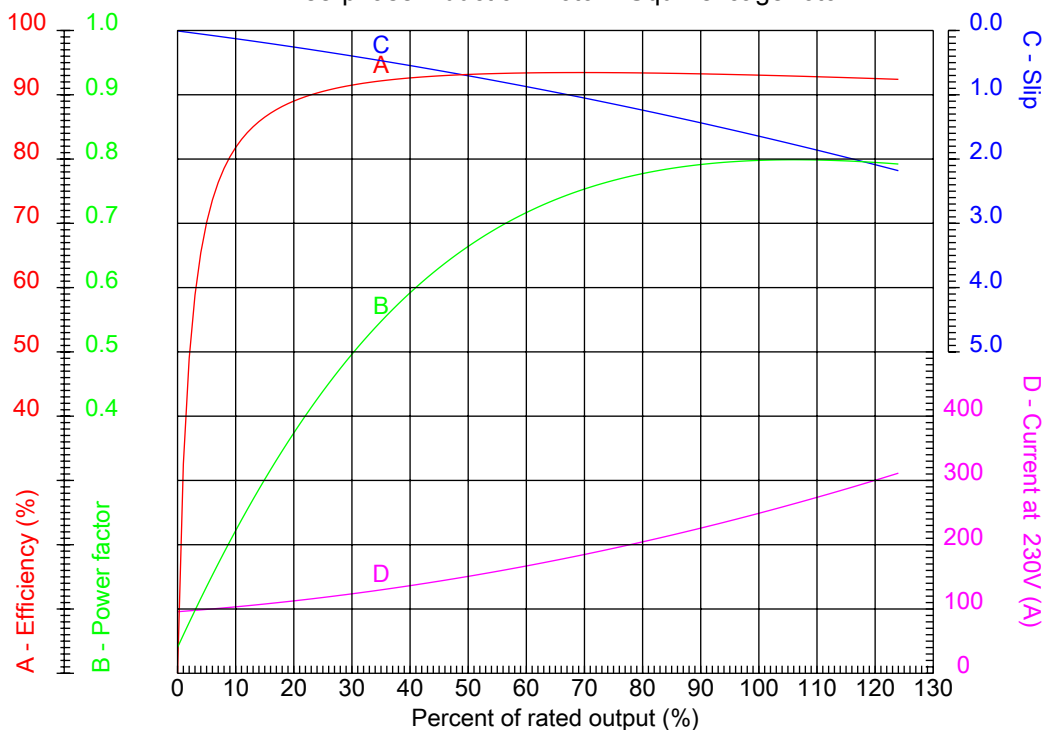
Dealers Industrial Equipment

No.:

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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 High Efficiency

Frame : 444/5T	Locked rotor current (I _l /I _n) : 5.7
Output : 100 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.25
Full load speed : 885 rpm	Design : B
Voltage : 230/460 V	Locked rotor torque : 180 %
Rated current : 254/127 A	Breakdown torque : 200 %
Insulation class : F	

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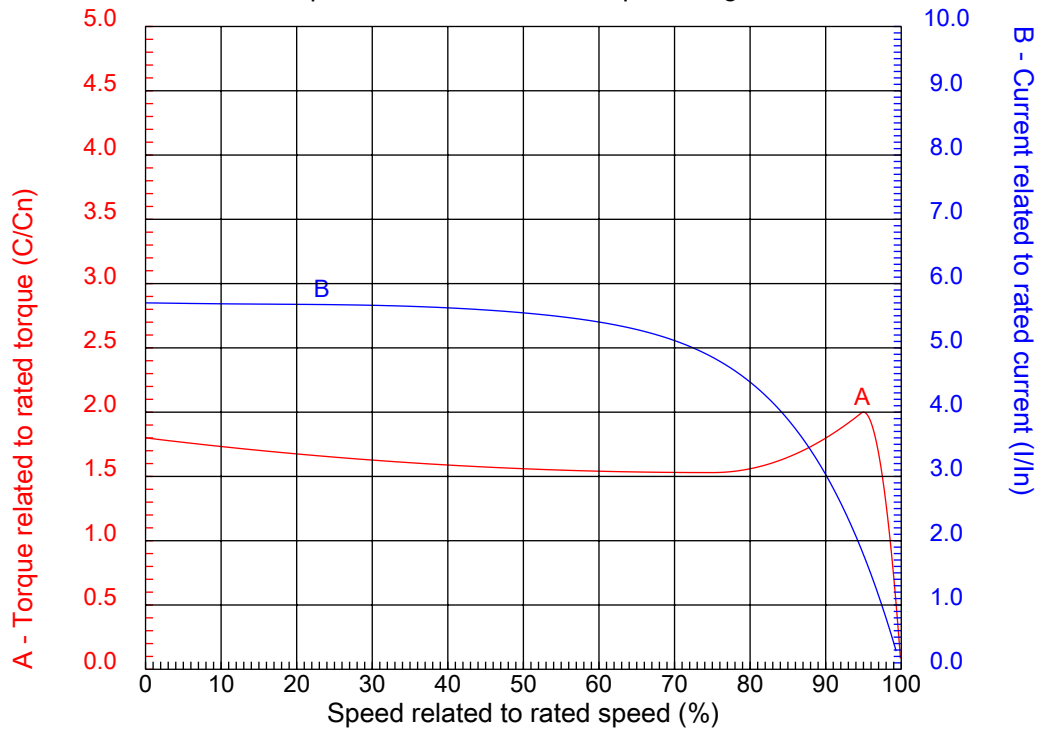
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 High Efficiency

Frame	: 444/5T	Locked rotor current (I _l /I _{ln})	: 5.7
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 885 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 180 %
Rated current	: 254/127 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:

W22 High Efficiency

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

27-SEP-2016



2E 18.000	J 3.937	A 21.929	P 23.583	AB 18.570
2F 14.500/16.500	K 5.866	B 20.315	BA 7.500	U 3.375
N-W 8.500	ES 7.087	S 0.875	R 2.880	depth 0.875
D 11.000	G 1.630	HB 5.687	O 22.795	HH 15.748
HK 5.970	H 0.810	C 45.157	LL 12.362	LM 12.283
AA 2xNPT 3"	d1 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:

W22 High Efficiency

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

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