



No.:

Date: 17-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 20018ET3G447TS-W22

List Price : \$21,098

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 445/7TS
Output : 200 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1780
Slip : 1.11 %
Voltage : 460 V
Rated current : 230 A
Locked rotor current : 1470 A
Locked rotor current (I_L/I_n) : 6.4
No-load current : 85.0 A
Full load torque : 582 lb.ft
Locked rotor torque : 240 %
Breakdown torque : 250 %
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
Degree of Protection : IP55
Approximate weight : 1899 lb
Moment of inertia : 76.217 sq.ft.lb
Noise level : 73 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.85	96.2
Regreasing interval	12000 h	12000 h	75%	0.82	96.2
Grease amount	27 g	27 g	50%	0.73	95.4

Notes:

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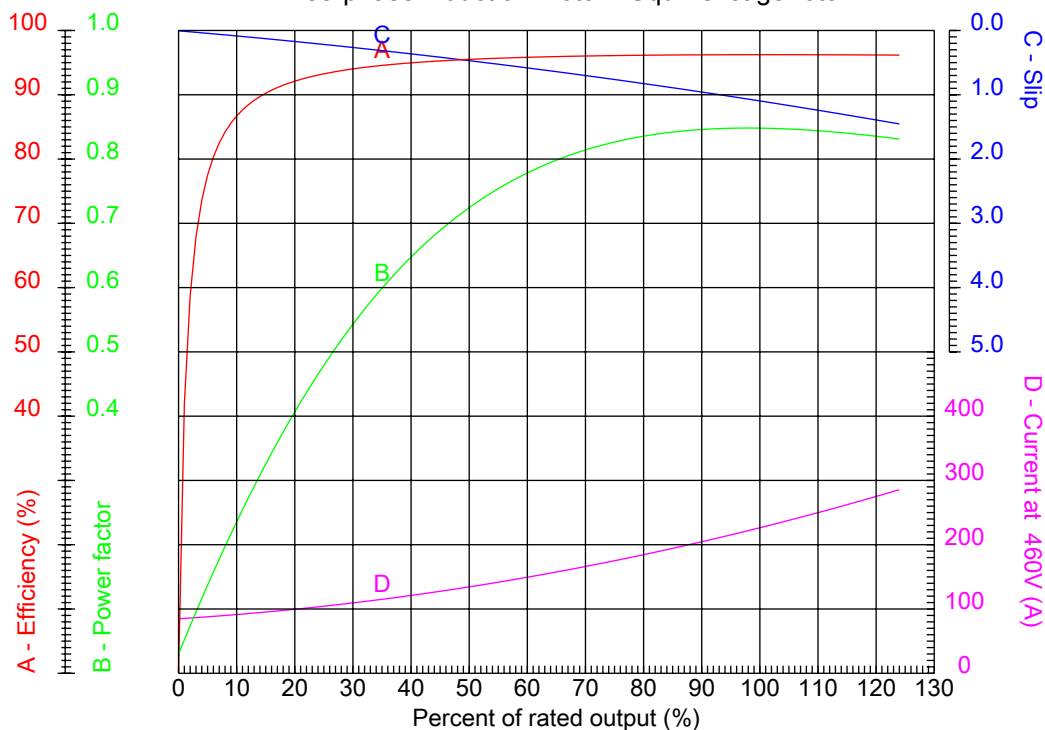
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 445/7TS	Locked rotor current (I _l /I _n) : 6.4
Output : 200 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1780	Design : B
Voltage : 460 V	Locked rotor torque : 240 %
Rated current : 230 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

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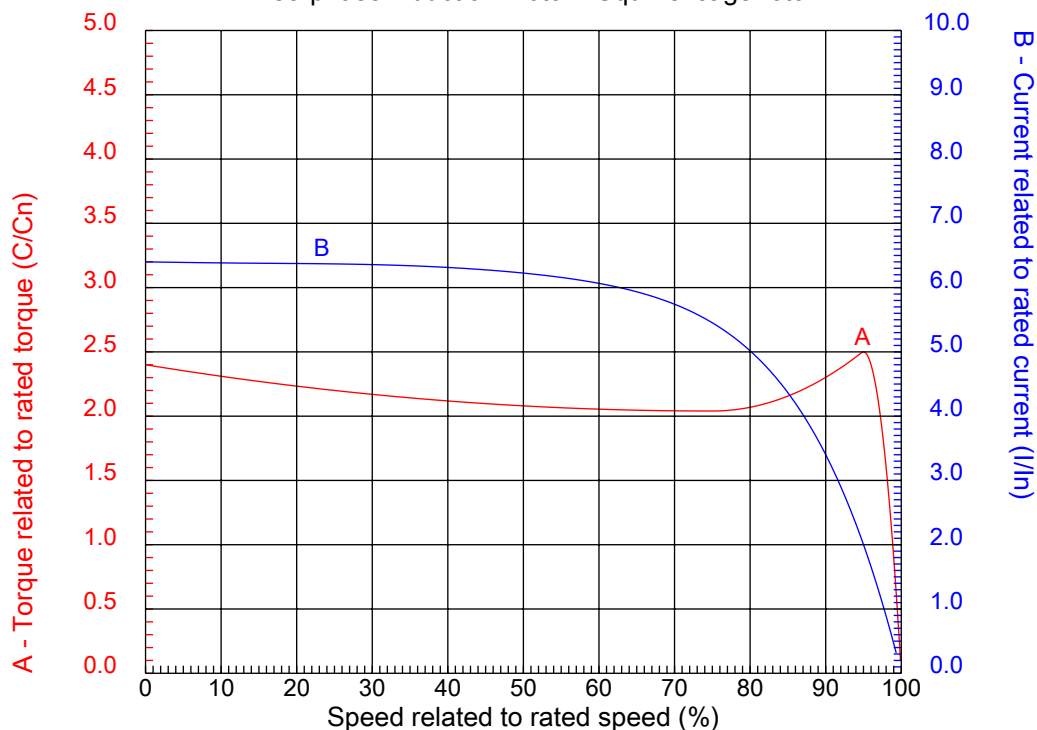


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 445/7TS	Locked rotor current (I _l /I _n)	: 6.4
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 230 A	Breakdown torque	: 250 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

2E	J	A	P	AB
18.000	3.937	21.929	23.583	20.670
2F	K	B	BA	U
16.500/20.000	5.866	23.897	7.500	2.375
N-W	ES	S	R	depth
4.750	3.000	0.625	2.021	0.625
D	G	HB	O	T
11.000	1.654	12.598	22.795	7.378
HF	HG	HH	HK	H
20.724	26.850	11.803	7.087	0.810
C	LL	LM	AA	d1
44.951	14.921	14.980	2XNPT 3"	DUNC 3/4"-10
d2	Flange	AJ	AK	BD
DUNC 3/4"-10	FD-508	20.000	18.000	21.65
BF	BB			
0.828	0.203			

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Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor
Frame 445/7TS - IP55

17-DEC-2012

