



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 10036XT3E405TS

List Price : \$12,999

Notes:

Performed by:

Checked:



No.:

Date: 27-DEC-2012

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 404/5TS
Output : 100 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3550
Slip : 1.39 %
Voltage : 208-230/460 V
Rated current : 244-220/110 A
Locked rotor current : 1390/694 A
Locked rotor current (I_L/I_n) : 6.3
No-load current : 50.0/25.0 A
Full load torque : 146 lb.ft
Locked rotor torque : 200 %
Breakdown torque : 260 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 21 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP54
Approximate weight : 1206 lb
Moment of inertia : 13.196 sq.ft.lb
Noise level : 85 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.90	95.0
Regreasing interval	3604 h	3604 h	75%	0.89	95.0
Grease amount	27 g	27 g	50%	0.85	93.6

Notes:

Performed by

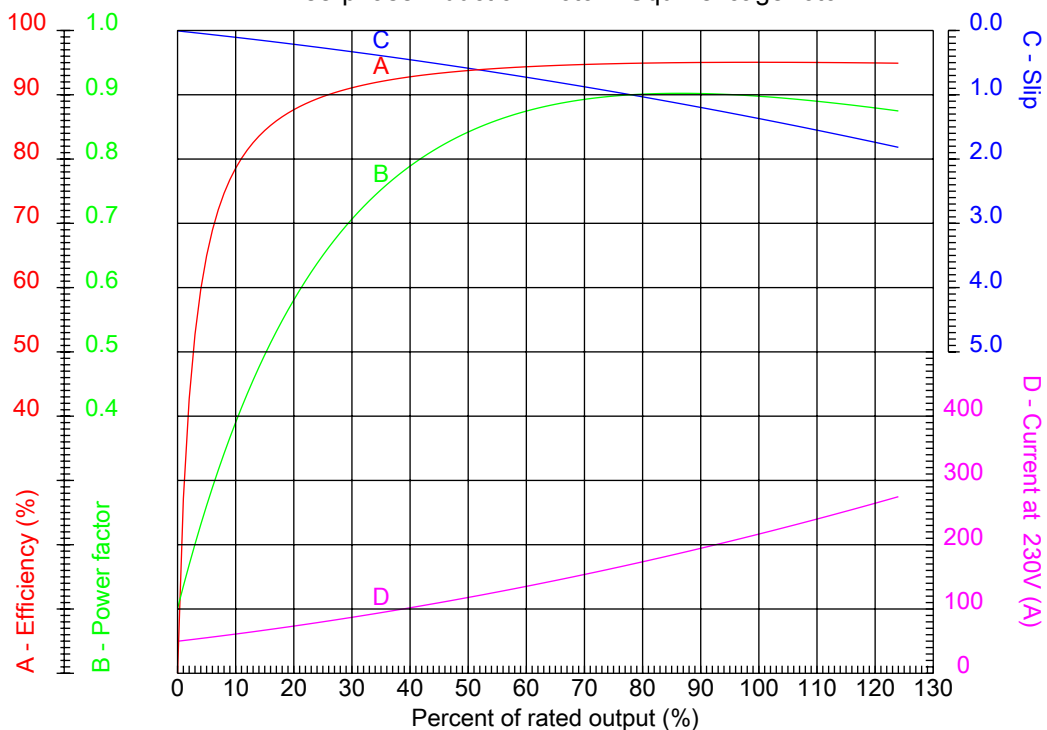
Checked



No.:

Date: 27-DEC-2012

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



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

Frame	: 404/5TS	Locked rotor current (I _l /I _n)	: 6.3
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3550	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 244-220/110 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

Checked

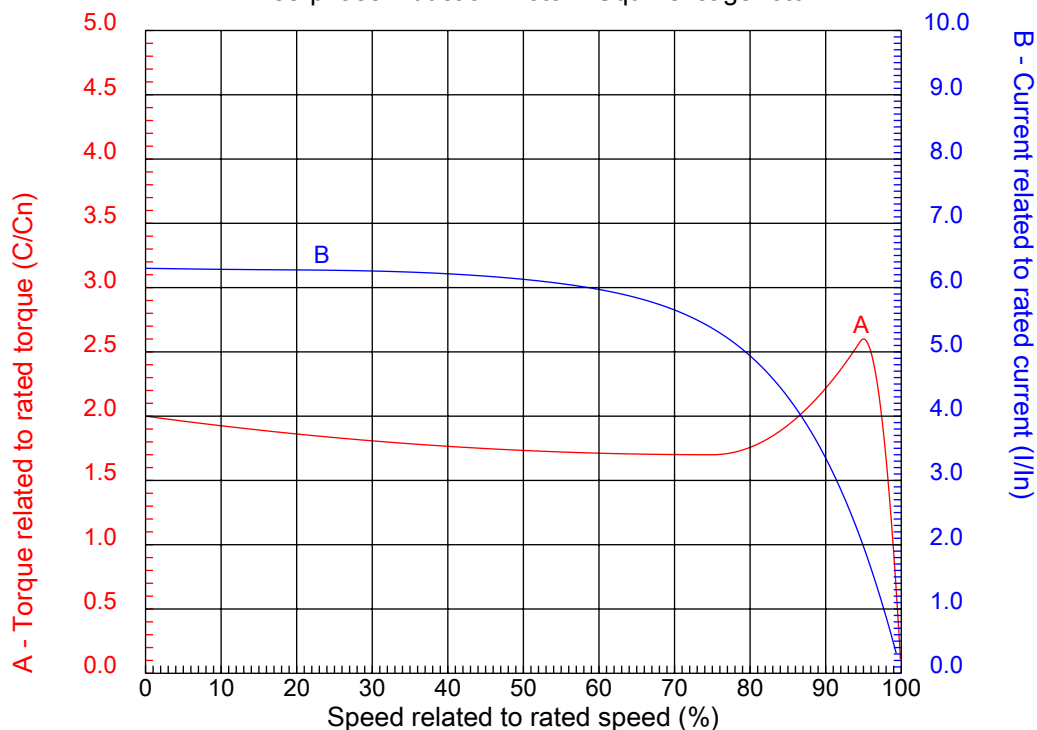


No.:

Date: 27-DEC-2012

CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 404/5TS	Locked rotor current (I _l /I _n)	: 6.3
Output	: 100 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3550	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 244-220/110 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

Checked

1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 404/5TS - IP54

27-DEC-2012



2E 16.000	A 19.921	2F 12.250/13.752	B 17.520	BA 6.625
J 3.937	K 5.433	P 18.583	ES 2.756	depth 0.500
S 0.500	N-W 4.250	U 2.125	R 1.842	AB 16.654
D 10.000	G 1.812	O 19.843	HD 22.638	H 0.807
C 35.074	AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	T 2.795
Flange FD-508	AJ 20.000	AK 18.000	BD 21.656	BF 0.828
BB 0.203				