



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Explosion Proof - High Efficiency

Catalog Number : 00159XP3E184T

List Price : \$1,548

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase : Explosion Proof - High Efficiency

Frame : 184T
Output : 1.5 HP
Frequency : 60 Hz
Poles : 8
Full load speed : 860
Slip : 4.44 %
Voltage : 208-230/460 V
Rated current : 6.00-5.43/2.71 A
Locked rotor current : 29.8/14.9 A
Locked rotor current (I_L/I_n) : 5.5
No-load current : 3.63/1.81 A
Full load torque : 9.04 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 260 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 32 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP54
Approximate weight : 122 lb
Moment of inertia : 0.44375 sq.ft.lb
Noise level : 50 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6307 ZZ	6206 ZZ	100%	0.66	77.0
Regreasing interval	---	---	75%	0.58	75.5
Grease amount	---	---	50%	0.47	74.0

Notes:

Performed by

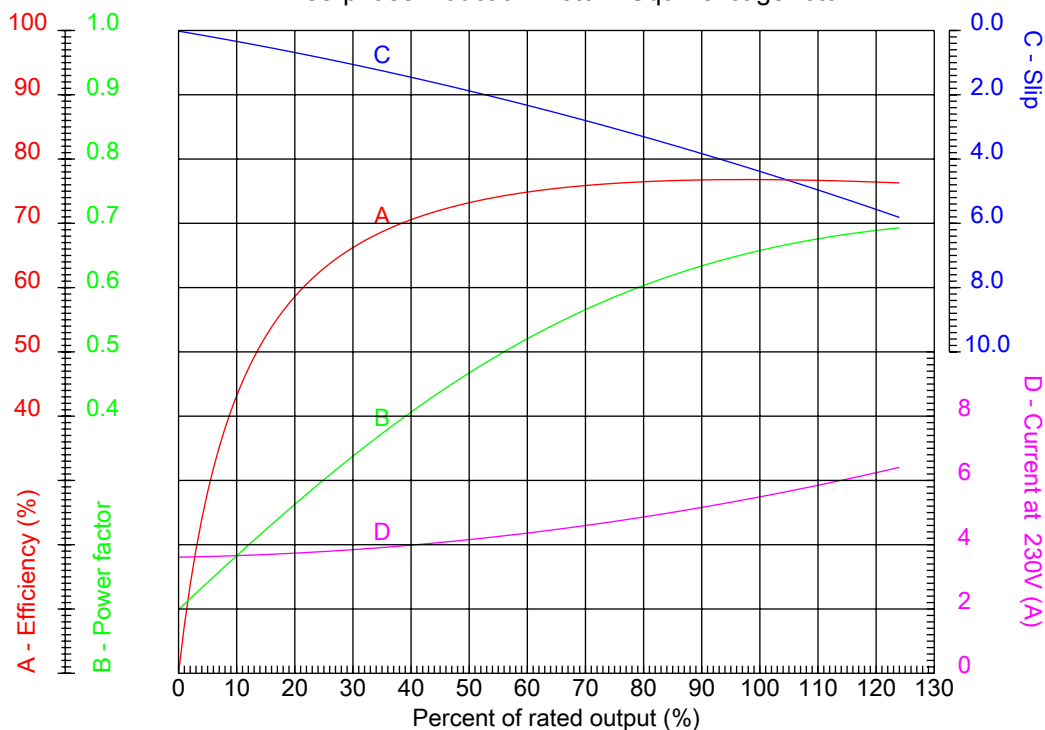
Checked



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



Customer :
Product line : Three-Phase : Explosion Proof - High Efficiency

Frame	: 184T	Locked rotor current (I _l /I _n)	: 5.5
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 860	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 6.00-5.43/2.71 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

Performed by

Checked

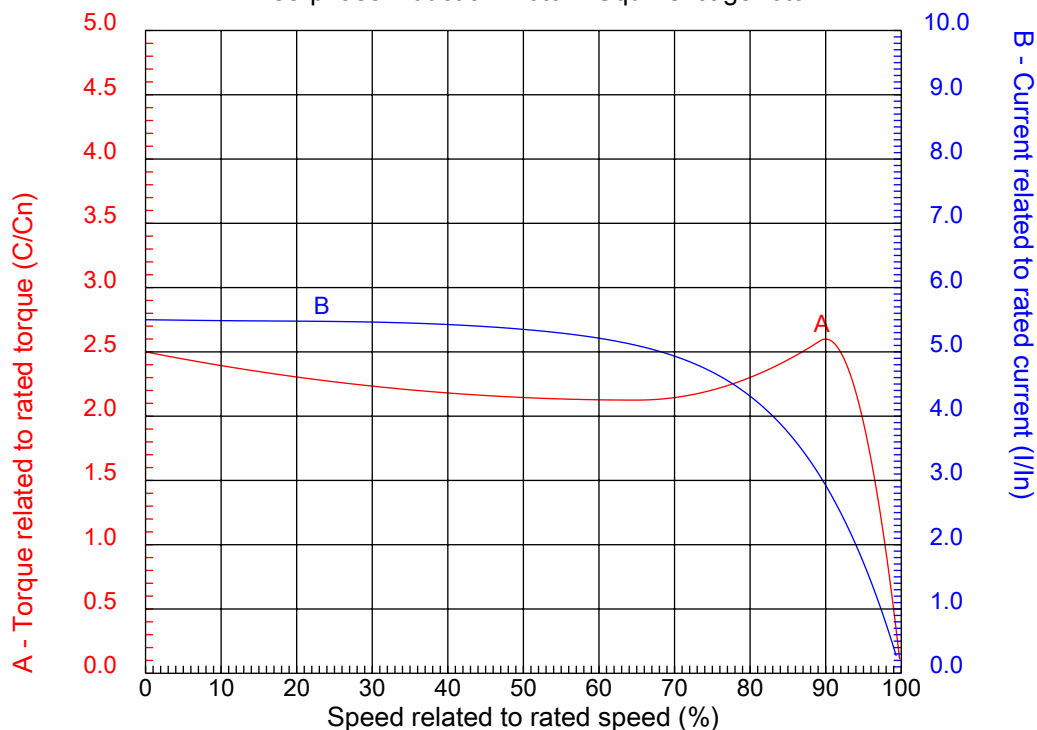


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : Explosion Proof - High Efficiency

Frame	: 184T	Locked rotor current (I _l /I _n)	: 5.5
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 860	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 250 %
Rated current	: 6.00-5.43/2.71 A	Breakdown torque	: 260 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

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Checked:

Customer:

Three-Phase : Explosion Proof - High Efficiency

Three-phase induction motor
Frame 184T - IP54

27-DEC-2012



2E 7.500	A 8.661	2F 5.500	B 6.969	BA 2.750
J 1.890	K 1.969	P 8.909	ES 1.969	depth 0.250
S 0.250	N-W 2.750	U 1.125	R 0.984	AB 8.240
D 4.500	G 0.787	O 9.421	HD 11.193	H 0.406
C 15.862	AA NPT 3/4"	d1 A 4	d2 A 4	T 1.772
Flange FD-254	AJ 10.000	AK 9.000	BD 11.000	BF 0.562
BB 0.203				