



No.:

Date: 26-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 00318XT3H182TC

List Price : \$1,373

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 182T
Output : 3 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1760
Slip : 2.22 %
Voltage : 575 V
Rated current : 3.13 A
Locked rotor current : 25.0 A
Locked rotor current (I_L/I_n) : 8.0
No-load current : 1.68 A
Full load torque : 8.83 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 320 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 28 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP54
Approximate weight : 115 lb
Moment of inertia : 0.27812 sq.ft.lb
Noise level : 56 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6307 ZZ	6206 ZZ	100%	0.79	89.5
Regreasing interval	---	---	75%	0.71	88.5
Grease amount	---	---	50%	0.59	87.5

Notes:

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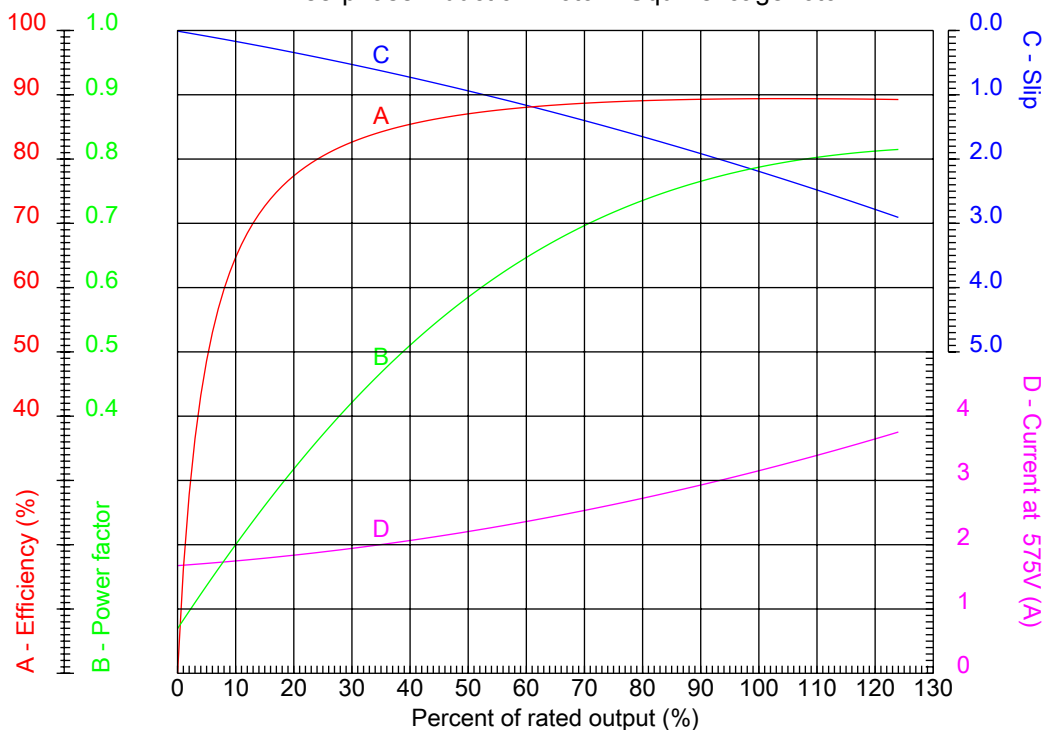


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 182T	Locked rotor current (I _L /I _n)	: 8.0
Output	: 3 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1760	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 3.13 A	Breakdown torque	: 320 %
Insulation class	: F		

Notes:

Performed by

Checked

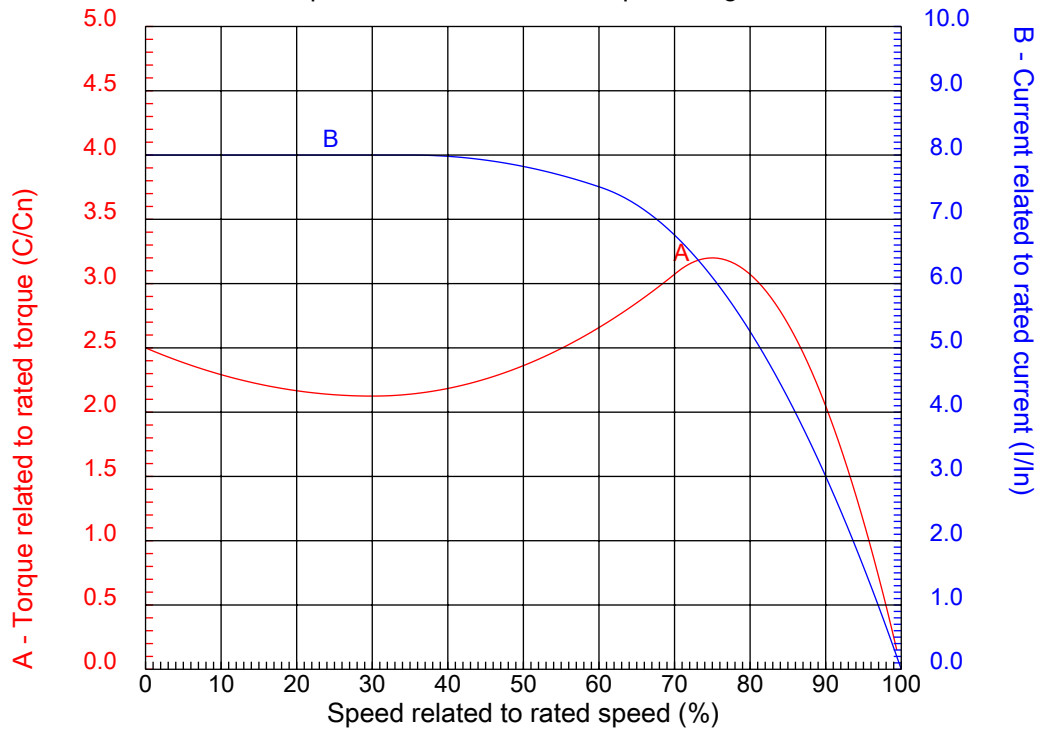


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 182T	Locked rotor current (I _l /I _n)	: 8.0
Output	: 3 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1760	Design	: B
Voltage	: 575 V	Locked rotor torque	: 250 %
Rated current	: 3.13 A	Breakdown torque	: 320 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

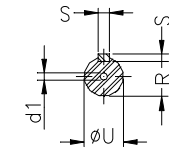
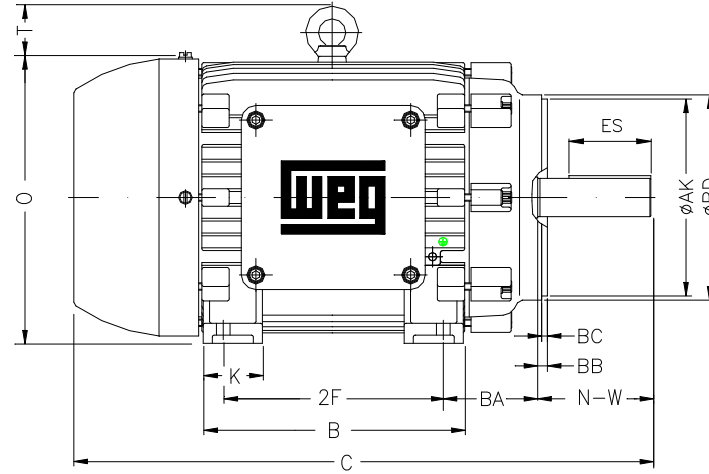
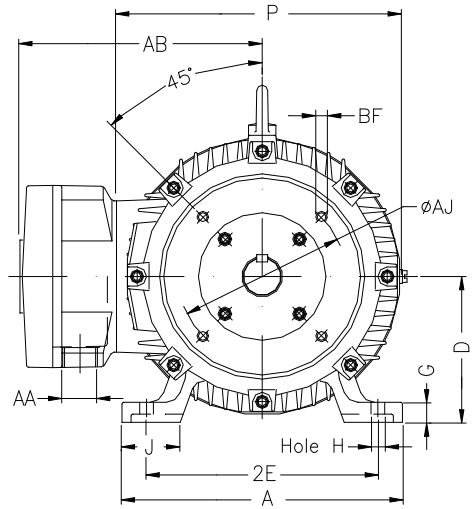
B

C

D

E

F



Notes:

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Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 182T - IP54

26-DEC-2012



2E 7.500	A 8.661	2F 4.500	B 5.945	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 14.862	AA NPT 3/4"	d1 A 4	d2 A 4	T 1.772
Flange FC-184	AJ 7.250	AK 8.500	BD 8.875	BF UNC 1/2"x13
BB 0.250	BC 0.125	AH 2.625		