



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 : 07518XT3E365T

List Price : \$11,125

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 : 364/5T
 Output : 75 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1780
 Slip : 1.11 %
 Voltage : 208-230/460 V
 Rated current : 184-166/83.2 A
 Locked rotor current : 1160/582 A
 Locked rotor current (I_L/I_n) : 7.0
 No-load current : 62.0/31.0 A
 Full load torque : 218 lb.ft
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 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 : IP54
 Approximate weight : 937 lb
 Moment of inertia : 23.251 sq.ft.lb
 Noise level : 75 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.87	95.4
Regreasing interval	9789 h	9789 h	75%	0.83	95.0
Grease amount	27 g	27 g	50%	0.74	94.5

Notes:

Performed by

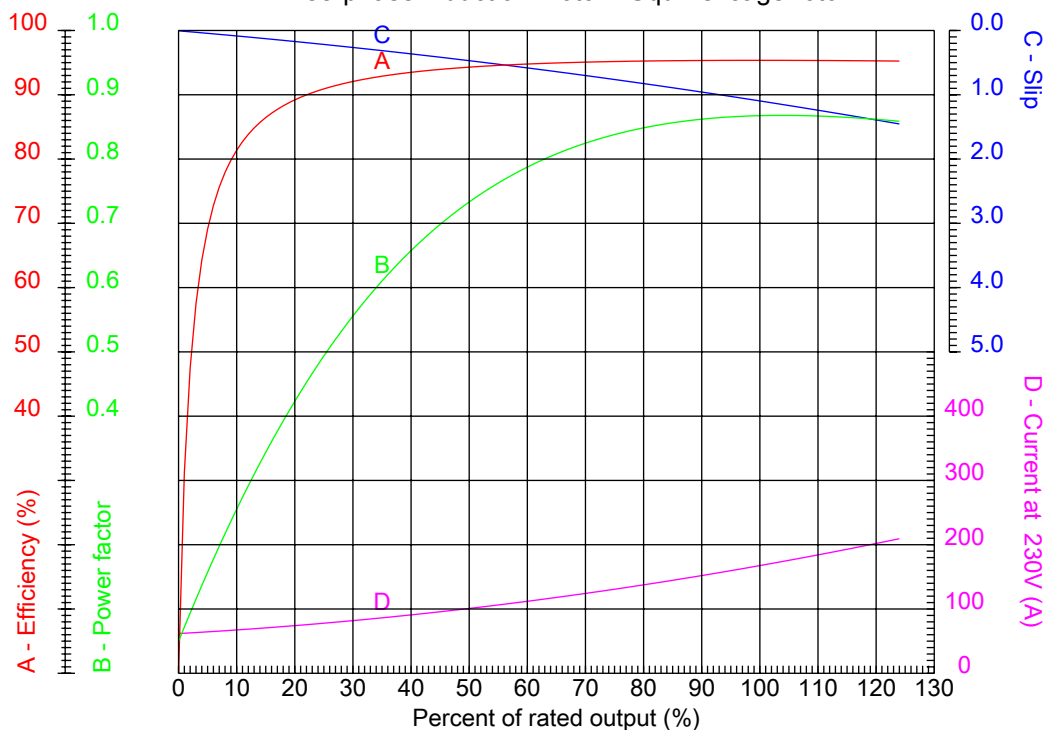
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PERFORMANCE CURVES RELATED TO RATED OUTPUT
Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5T	Locked rotor current (I _l /I _n)	: 7.0
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 270 %
Rated current	: 184-166/83.2 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

Performed by

Checked

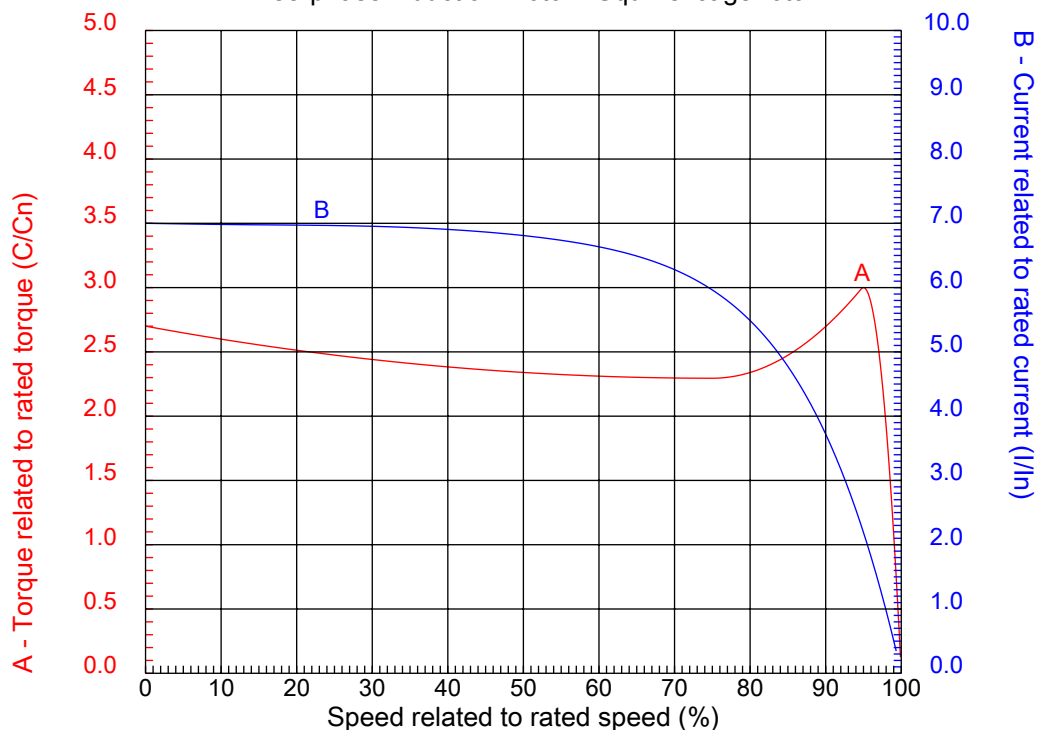


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5T	Locked rotor current (I _l /I _n)	: 7.0
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 270 %
Rated current	: 184-166/83.2 A	Breakdown torque	: 300 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

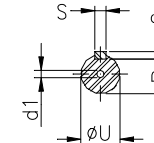
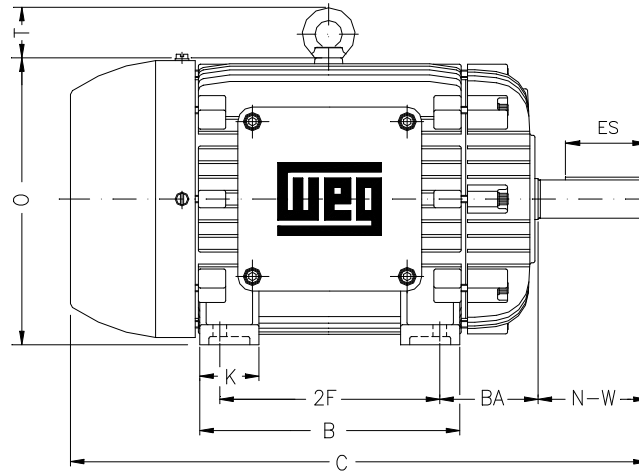
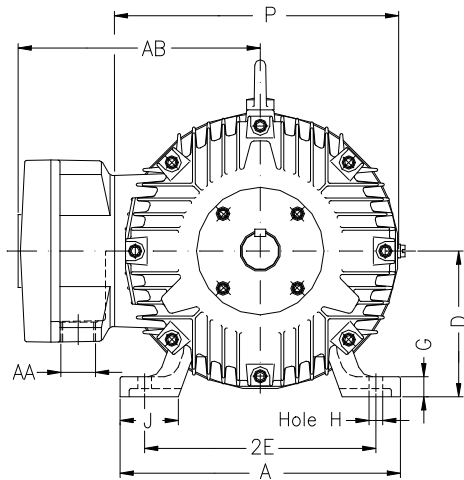
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 364/5T - IP54

27-DEC-2012



2E 14.000	A 17.165	2F 11.250/12.250	B 15.394	BA 5.875
J 3.150	K 4.134	P 18.583	ES 4.330	depth 0.625
S 0.625	N-W 5.874	U 2.375	R 2.019	AB 16.654
D 9.000	G 1.480	O 18.898	HD 21.693	H 0.657
C 33.701	AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	T 2.795
Flange FD-406	AJ 16.000	AK 14.000	BD 18.000	BF 0.828
BB 0.203				