



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : P-Base Motors : High Efficiency

Catalog Number : -

List Price : \$-

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : P-Base Motors : High Efficiency

Frame : 286HPH
Output : 30 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3520
Slip : 2.22 %
Voltage : 208-230/460 V
Rated current : 74.5-67.4/33.7 A
Locked rotor current : 431/216 A
Locked rotor current (I_L/I_n) : 6.4
No-load current : 16.2/8.10 A
Full load torque : 44.2 lb.ft
Locked rotor torque : 190 %
Breakdown torque : 230 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 19 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 364 lb
Moment of inertia : 2.8284 sq.ft.lb
Noise level : 75 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6211 C3	100%	0.90	91.0
Regreasing interval	3604 h	7113 h	75%	0.88	91.0
Grease amount	27 g	11 g	50%	0.84	90.2

Notes:

Performed by

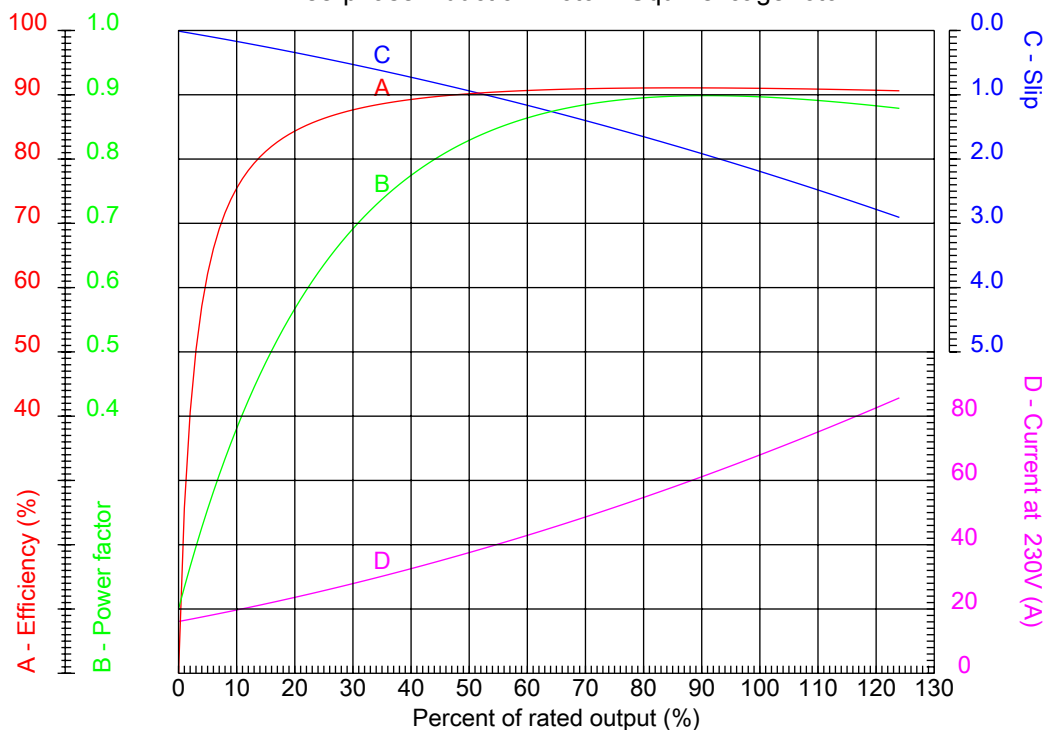
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PERFORMANCE CURVES RELATED TO RATED OUTPUT
Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : P-Base Motors : High Efficiency

Frame	: 286HPH	Locked rotor current (I _l /I _n)	: 6.4
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3520	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 74.5-67.4/33.7 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:

Performed by

Checked

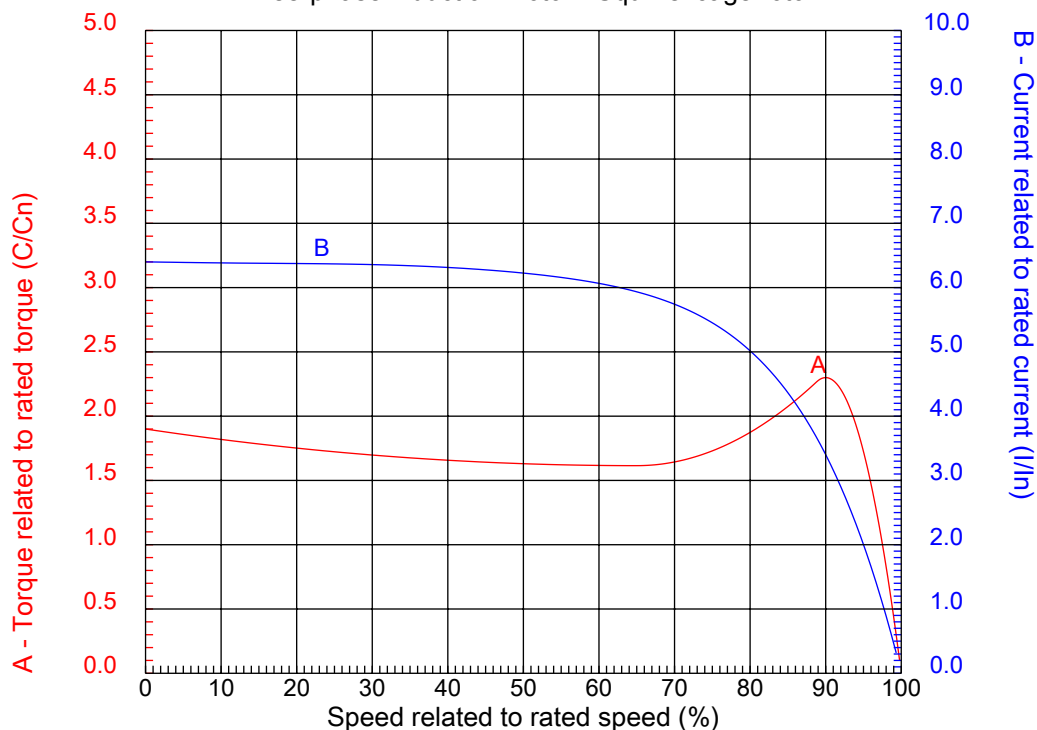


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : P-Base Motors : High Efficiency

Frame	: 286HPH	Locked rotor current (I _l /I _n)	: 6.4
Output	: 30 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3520	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 74.5-67.4/33.7 A	Breakdown torque	: 230 %
Insulation class	: F		

Notes:

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Checked

1 2 3 4 5 6 7 8

A

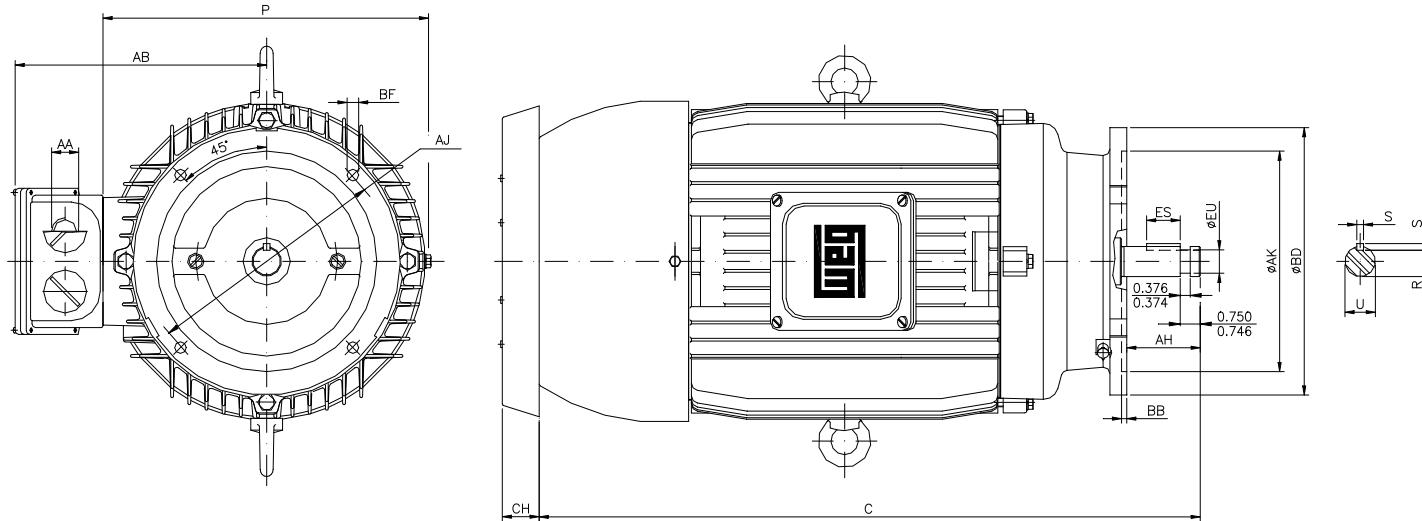
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

P-Base Motors : High Efficiency

Three-phase induction motor
Frame 286HPH - IP55

27-DEC-2012



ES 3.150	S 0.375	EU 1.250	U 1.625	R 1.415
P 14.094	AH 4.500	AB 10.866	C 29.595	CH 2.244
AA NPT 1 1/2"	Flange FD-406	AJ 14.750	AK 13.500	BD 16.500
BF 0.687	BB 0.250			