



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Catalog Number : 20036ST3HIE447TS-W22

List Price : \$28,568

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame : 445/7TS
Output : 200 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3570
Slip : 0.83 %
Voltage : 575 V
Rated current : 175 A
Locked rotor current : 1190 A
Locked rotor current (I_L/I_n) : 6.8
No-load current : 36.0 A
Full load torque : 290 lb.ft
Locked rotor torque : 240 %
Breakdown torque : 240 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 14 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 1914 lb
Moment of inertia : 44.677 sq.ft.lb
Noise level : 81 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.90	95.4
Regreasing interval	4000 h	4000 h	75%	0.89	95.4
Grease amount	27 g	27 g	50%	0.86	95.0

Notes:

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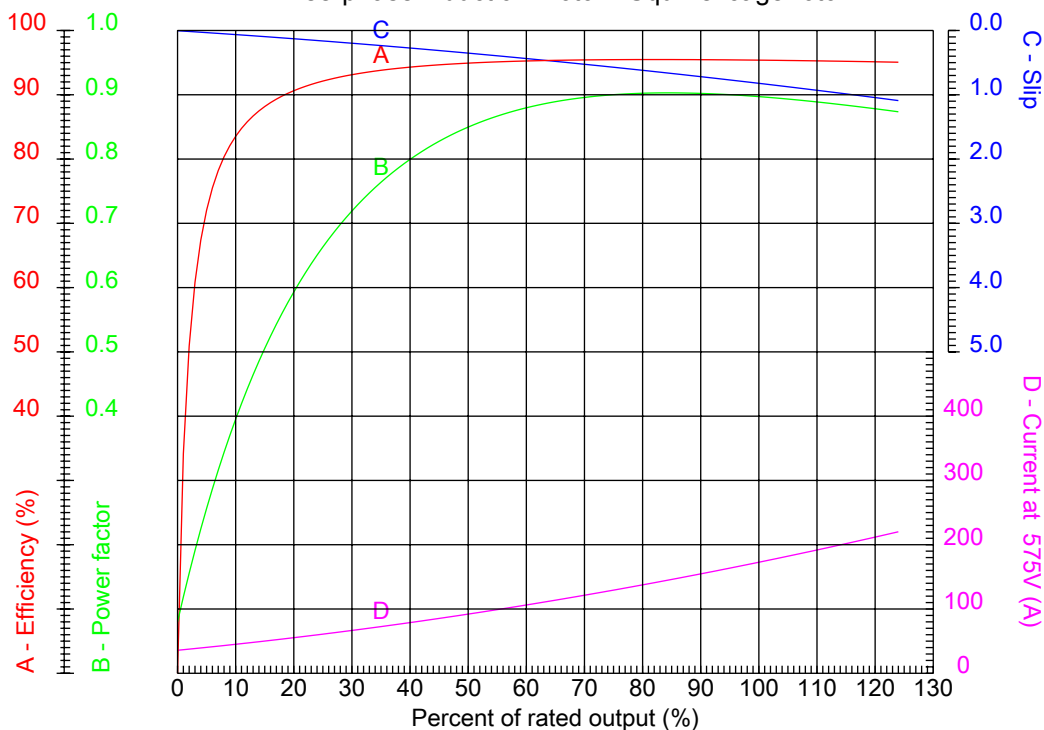


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 445/7TS	Locked rotor current (I _l /I _n)	: 6.8
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570	Design	: B
Voltage	: 575 V	Locked rotor torque	: 240 %
Rated current	: 175 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

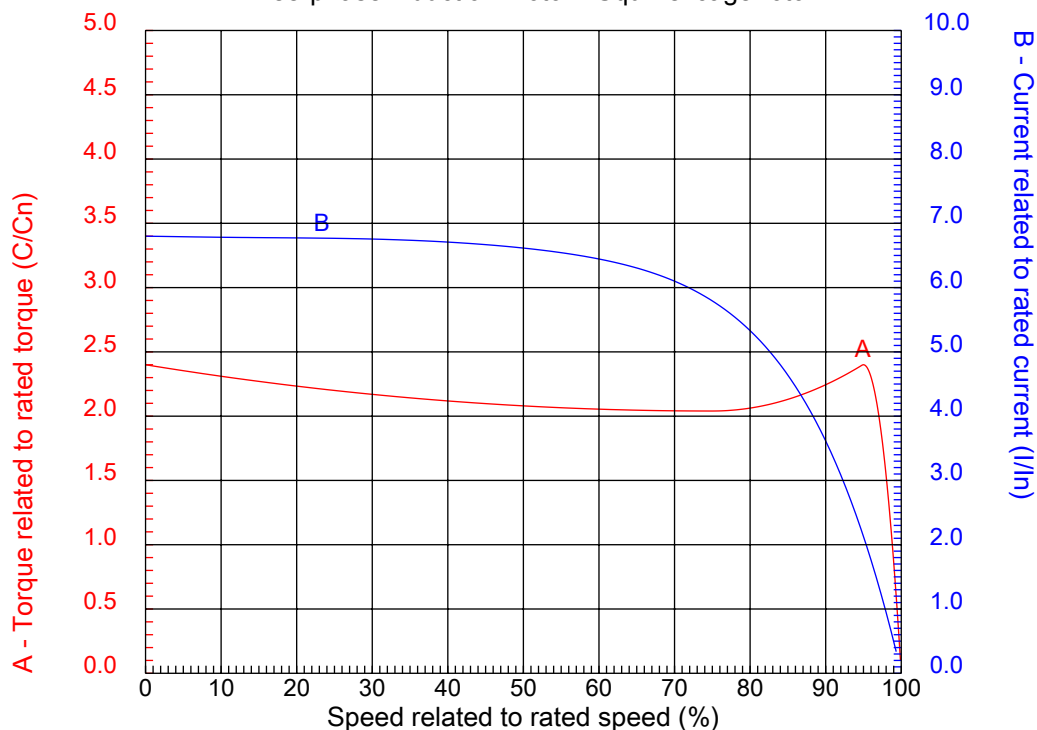
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Date: 28-DEC-2012

CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame	: 445/7TS	Locked rotor current (I _l /I _n)	: 6.8
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3570	Design	: B
Voltage	: 575 V	Locked rotor torque	: 240 %
Rated current	: 175 A	Breakdown torque	: 240 %
Insulation class	: F		

Notes:

Performed by

Checked

1 2 3 4 5 6 7 8

A

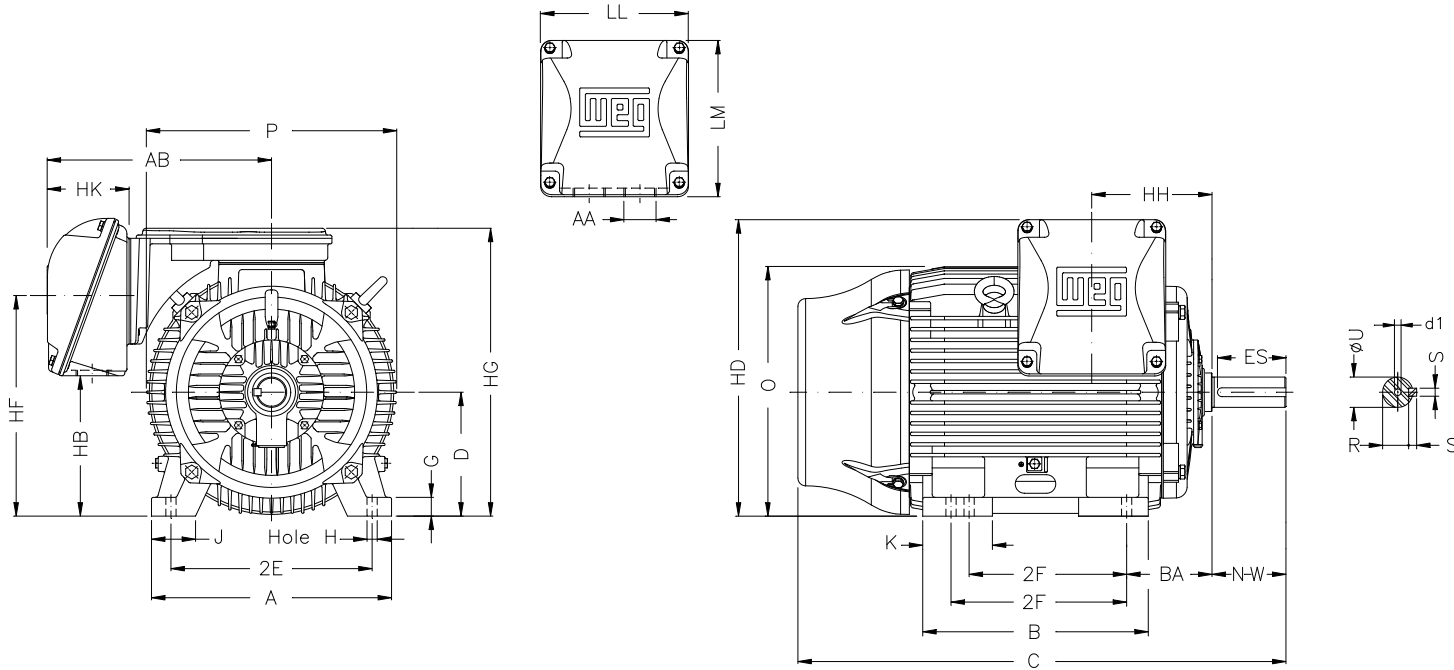
B

C

D

E

F



Notes:	
Performed by:	
Checked:	
Customer:	
Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency	
Three-phase induction motor Frame 445/7TS - IP55	28-DEC-2012

2E 18.000	J 3.937	A 21.929	P 23.583	AB 18.622
2F 16.500/20.000	K 5.866	B 23.897	BA 7.500	U 2.375
N-W 4.750	ES 3.000	S 0.625	R 2.021	depth 0.625
D 11.000	G 1.654	HB 12.598	O 22.795	T 7.378
HD 30.173	HF 20.724	HG 26.850	HH 11.803	HK 6.023
H 0.810	C 44.951	LL 12.362	LM 12.244	AA 2XNPT 3"
d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	Flange FD-508	AJ 20.000	AK 18.000
BD 21.65	BF 0.828	BB 0.203		

