



No.:

Date: 27-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 : 20018ST3HIE447T-W22

List Price : \$23,696

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 : 445/7T  
Output : 200 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1780  
Slip : 1.11 %  
Voltage : 575 V  
Rated current : 184 A  
Locked rotor current : 1180 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.4  
No-load current : 68.0 A  
Full load torque : 582 lb.ft  
Locked rotor torque : 240 %  
Breakdown torque : 250 %  
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 : IP55  
Approximate weight : 1899 lb  
Moment of inertia : 76.217 sq.ft.lb  
Noise level : 73 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6319 C3	6316 C3	100%	0.85	96.2
Regreasing interval	8000 h	10000 h	75%	0.82	96.2
Grease amount	45 g	34 g	50%	0.73	95.4

Notes:

Performed by

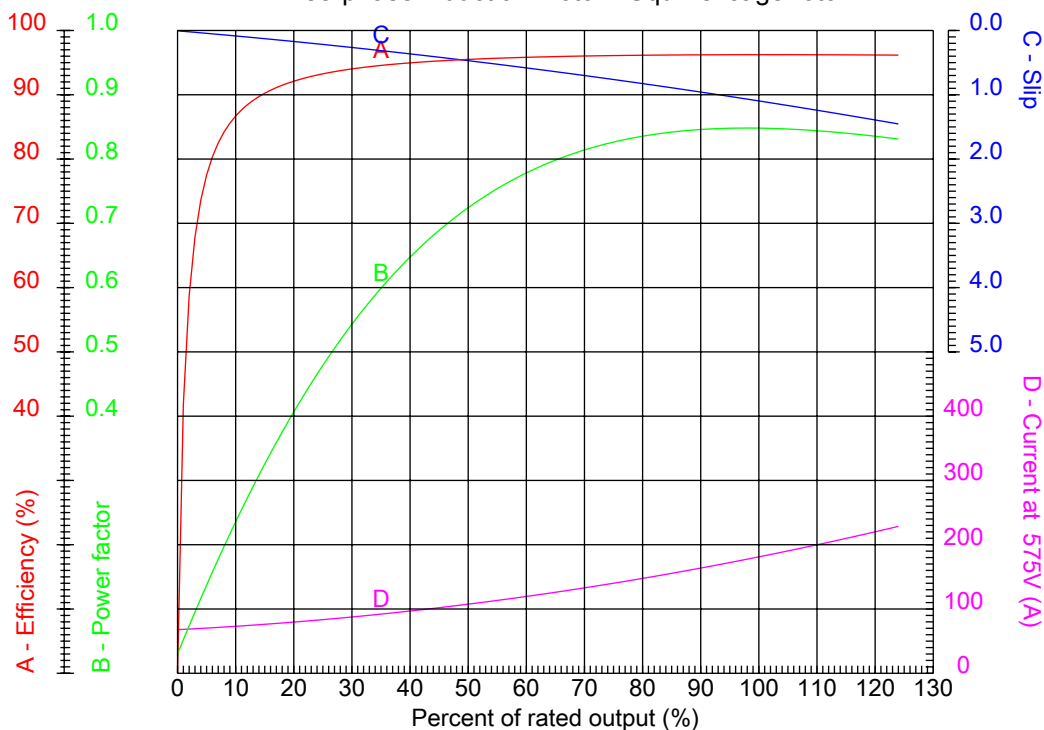
Checked



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Date: 27-DEC-2012

### 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 : 445/7T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.4
Output : 200 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1780	Design : B
Voltage : 575 V	Locked rotor torque : 240 %
Rated current : 184 A	Breakdown torque : 250 %
Insulation class : F	

Notes:

Performed by

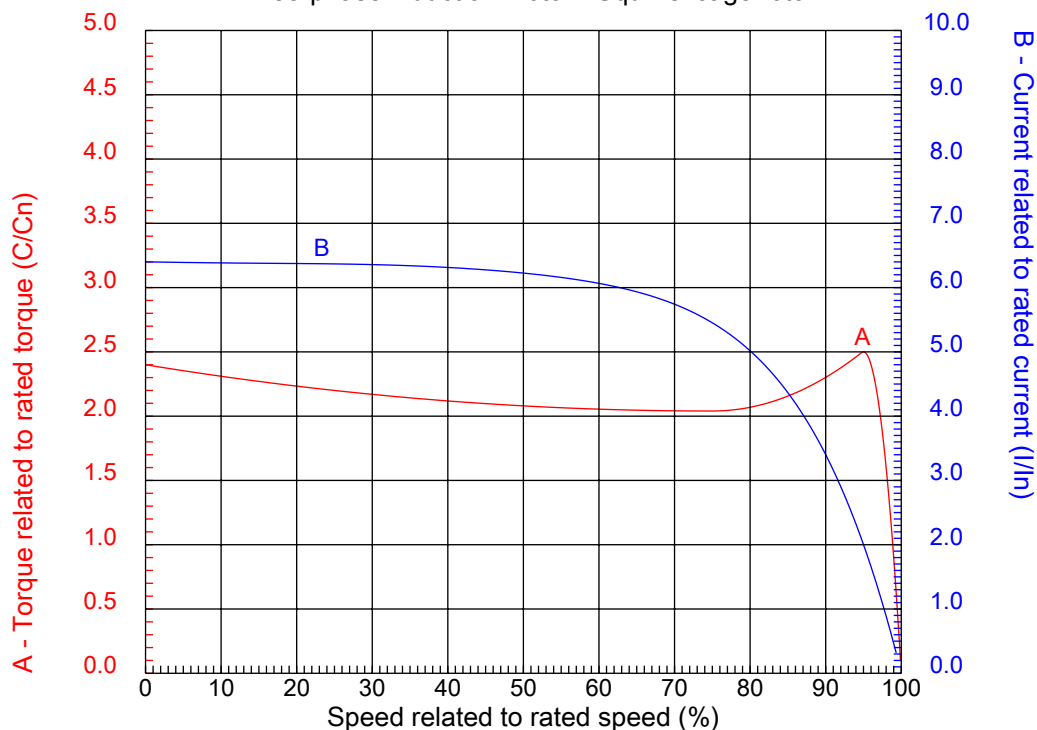
Checked



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



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

Frame	: 445/7T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.4
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780	Design	: B
Voltage	: 575 V	Locked rotor torque	: 240 %
Rated current	: 184 A	Breakdown torque	: 250 %
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 445/7T - IP55	27-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 3.375
N-W 8.500	ES 7.087	S 0.875	R 2.880	depth 0.875
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 48.701	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		