



No.:

Date: 28-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : W22 Crusher Duty TEFC (IP55)

Catalog Number : 50012EP3GKD580Z-W22

List Price : \$58,329

Notes:

Performed by:

Checked:



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## DATA SHEET

### Three-phase induction motor - Squirrel cage rotor

Customer :  
Product line : Three-Phase : W22 Crusher Duty TEFC (IP55)

Frame : 586/7Z  
Output : 500 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1190  
Slip : 0.83 %  
Voltage : 460 V  
Rated current : 598 A  
Locked rotor current : 3290 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.5  
No-load current : 225 A  
Full load torque : 2177 lb.ft  
Locked rotor torque : 190 %  
Breakdown torque : 200 %  
Design : A  
Insulation class : F  
Temperature rise : 105 K  
Locked rotor time : 12 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 4223 lb  
Moment of inertia : 367.54 sq.ft.lb  
Noise level : 77 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	NU-324 C3	6319 C3	100%	0.81	95.8
Regreasing interval	6000 h	13000 h	75%	0.78	95.4
Grease amount	72 g	45 g	50%	0.69	95.0

Notes:

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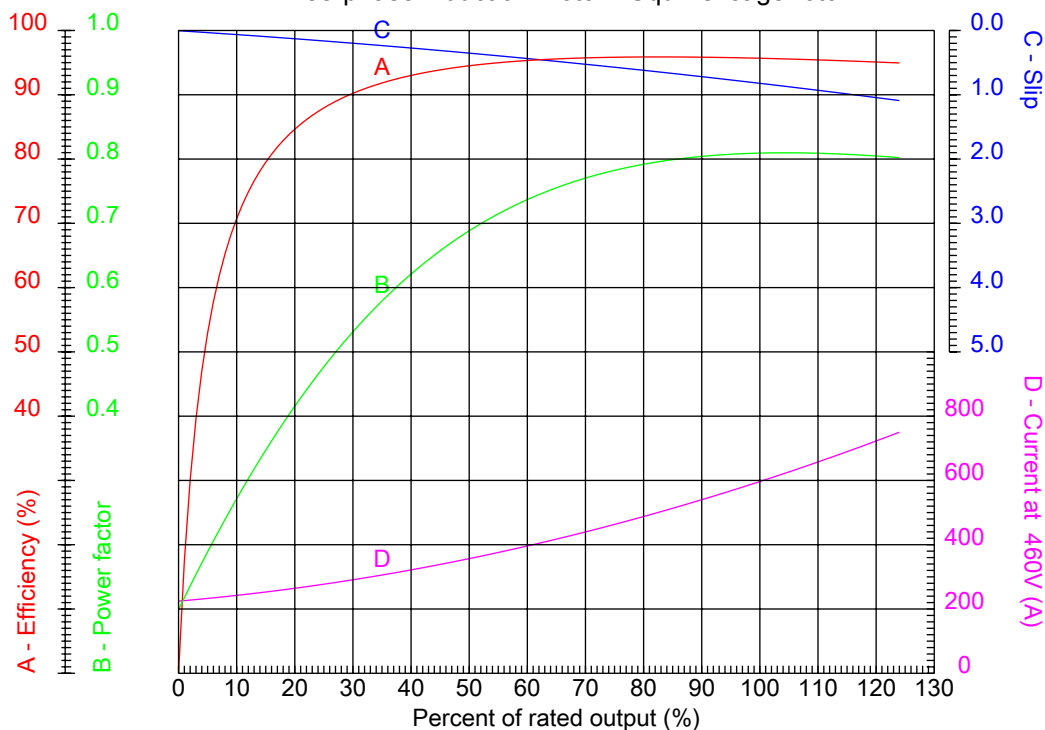


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : W22 Crusher Duty TEFC (IP55)

Frame : 586/7Z	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 5.5
Output : 500 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1190	Design : A
Voltage : 460 V	Locked rotor torque : 190 %
Rated current : 598 A	Breakdown torque : 200 %
Insulation class : F	

Notes:

Performed by

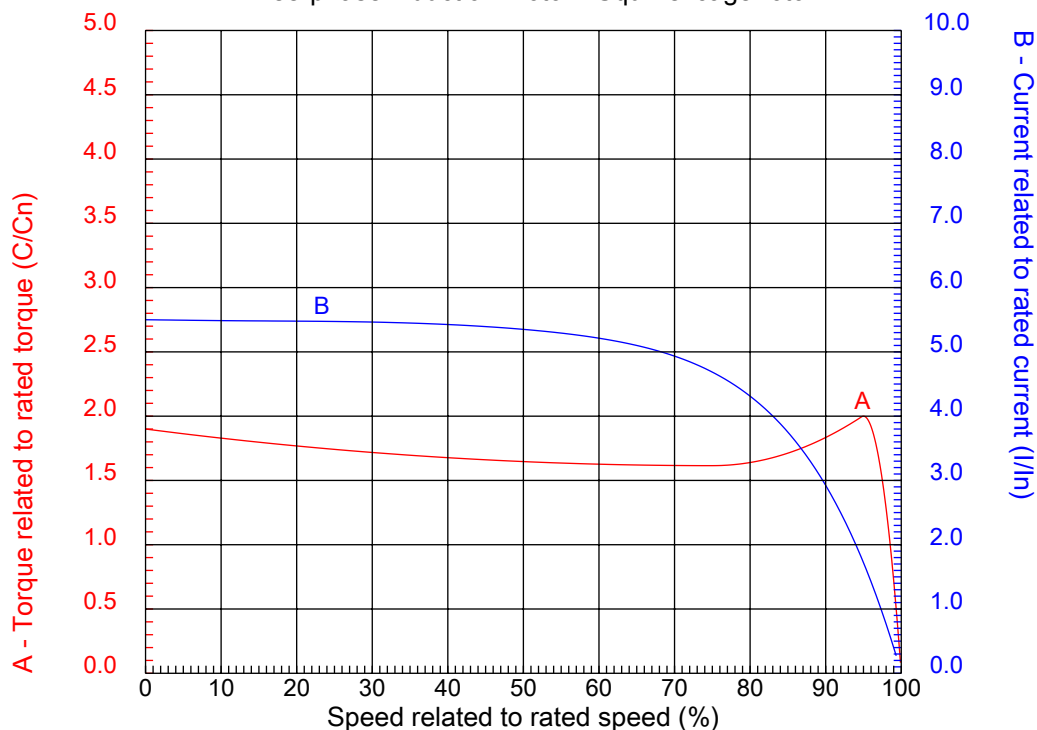
Checked



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



Customer :  
Product line : Three-Phase : W22 Crusher Duty TEFC (IP55)

Frame	: 586/7Z	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.5
Output	: 500 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1190	Design	: A
Voltage	: 460 V	Locked rotor torque	: 190 %
Rated current	: 598 A	Breakdown torque	: 200 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

2E 23.000	J 5.512	A 29.528	P 28.977	AB 23.977
2F 22.000/25.000	K 9.055	B 29.921	BA 10.000	U 4.375
N-W 11.625	ES 8.661	S 1.000	R 3.816	depth 1.000
D 14.500	G 2.492	HB 17.322	O 28.985	T 5.552
HD 34.537	HF 26.732	HG 33.346	HH 13.386	HK 8.464
H 1.181	C 61.902	LL 15.906	LM 17.244	AA 2XNPT 3"
d1 DUNC 7/8"-9	d2 DUNC 3/4"-10			

Performed by:

Checked:

Customer:

Three-Phase : W22 Crusher Duty TEFC (IP55)

Three-phase induction motor  
Frame 586/7Z - IP55

28-DEC-2012

