



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 : 25012EP3GKD580Z-W22

List Price : \$36,377

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 : 250 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1190  
Slip : 0.83 %  
Voltage : 460 V  
Rated current : 304 A  
Locked rotor current : 1820 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
No-load current : 125 A  
Full load torque : 1088 lb.ft  
Locked rotor torque : 190 %  
Breakdown torque : 220 %  
Design : A  
Insulation class : F  
Temperature rise : 80 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 : 3263 lb  
Moment of inertia : 226.18 sq.ft.lb  
Noise level : 77 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	NU-324 C3	6319 C3	100%	0.80	95.4
Regreasing interval	6000 h	13000 h	75%	0.76	95.4
Grease amount	72 g	45 g	50%	0.66	94.5

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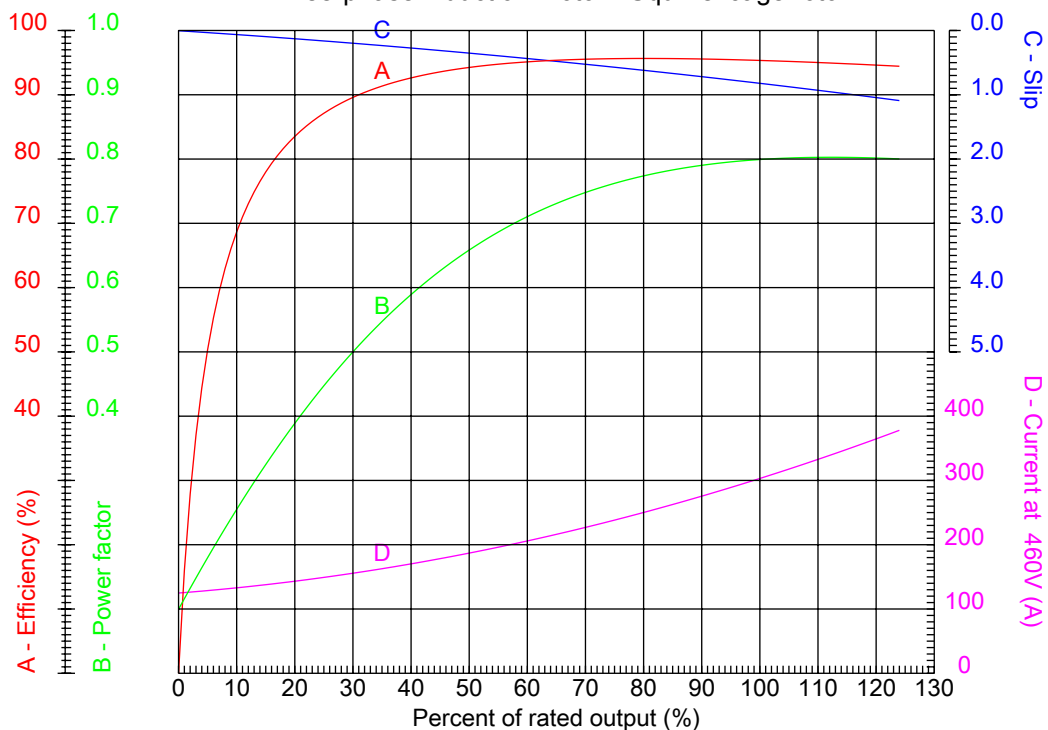


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

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> ) : 6.0
Output : 250 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 : 304 A	Breakdown torque : 220 %
Insulation class : F	

Notes:

Performed by

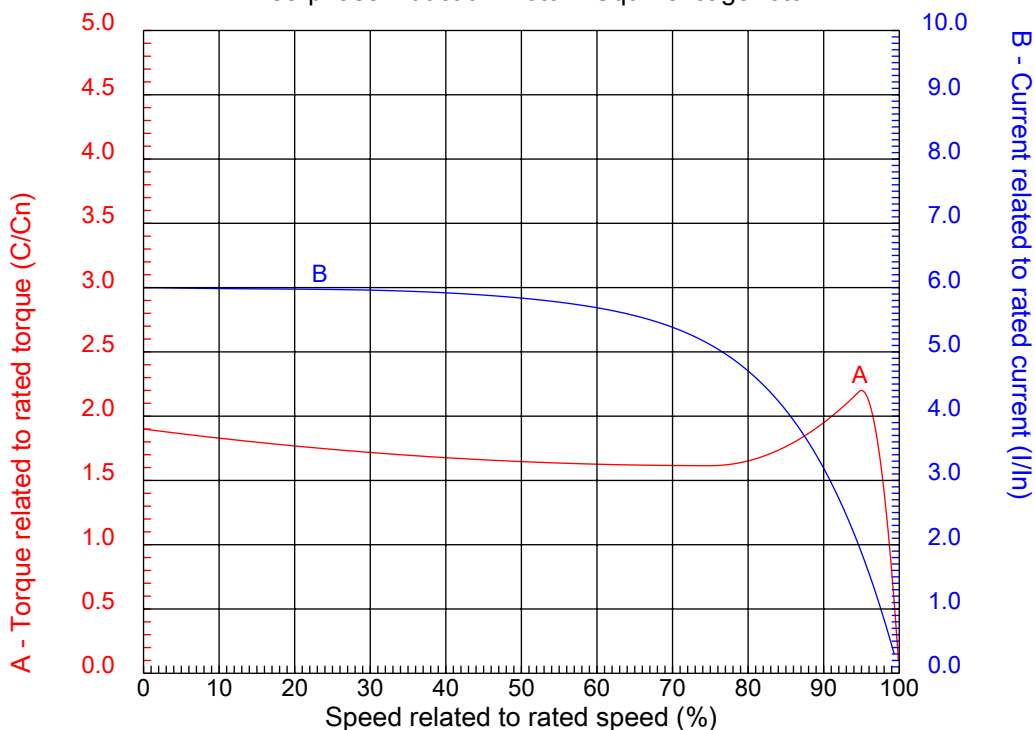
Checked



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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> )	: 6.0
Output	: 250 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	: 304 A	Breakdown torque	: 220 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

2E	J	A	P	AB
23.000	5.512	29.528	28.977	23.977
2F	K	B	BA	U
22.000/25.000	9.055	29.921	10.000	4.375
N-W	ES	S	R	depth
11.625	8.661	1.000	3.816	1.000
D	G	HB	O	T
14.500	2.492	17.322	28.985	5.552
HD	HF	HG	HH	HK
34.537	26.732	33.346	13.386	8.464
H	C	LL	LM	AA
1.181	61.902	15.906	17.244	2XNPT 3"
d1	d2	Flange	AJ	AK
DUNC 7/8"-9	DUNC 3/4"-10	FD-762	30.000	28.000
BD	BF	BB		
32.00	0.828	0.250		

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Customer:

Three-Phase : W22 Crusher Duty TEFC (IP55)

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

28-DEC-2012

