



Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 20012EP3GKD505Z-W22

List Price : \$20,945

Notes:

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Performed by:

Checked:



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No.:

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

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

Frame : 504/5Z  
 Output : 200 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1190 rpm  
 Slip : 0.83 %  
 Voltage : 460 V  
 Rated current : 236 A  
 Locked rotor current : 1420 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.0  
 No-load current : 80.0 A  
 Full load torque : 871 lb.ft  
 Locked rotor torque : 200 %  
 Breakdown torque : 210 %  
 Design : A  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 19 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 2368 lb  
 Moment of inertia : 133.62 sq.ft.lb  
 Noise level : 70 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	NU-322 C3	6316 C3	100%	0.84	95.0
Regreasing interval	7000 h	16000 h	75%	0.81	95.0
Grease amount	60 g	34 g	50%	0.73	95.0

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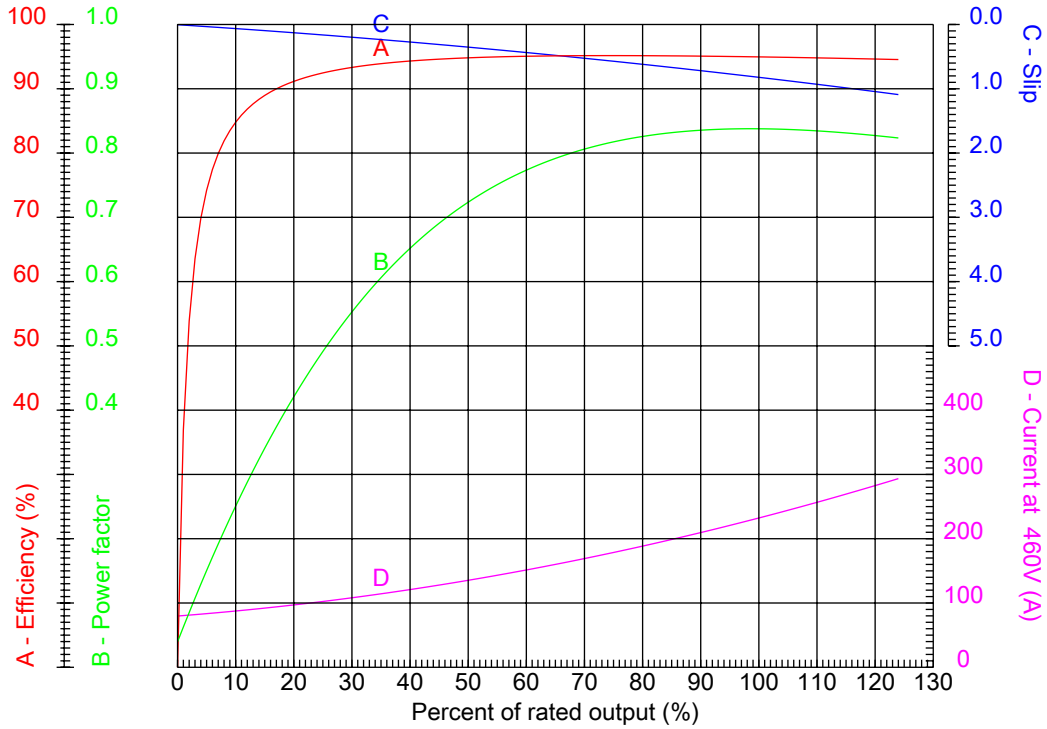
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 504/5Z	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1190 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 236 A	Breakdown torque	: 210 %
Insulation class	: F		

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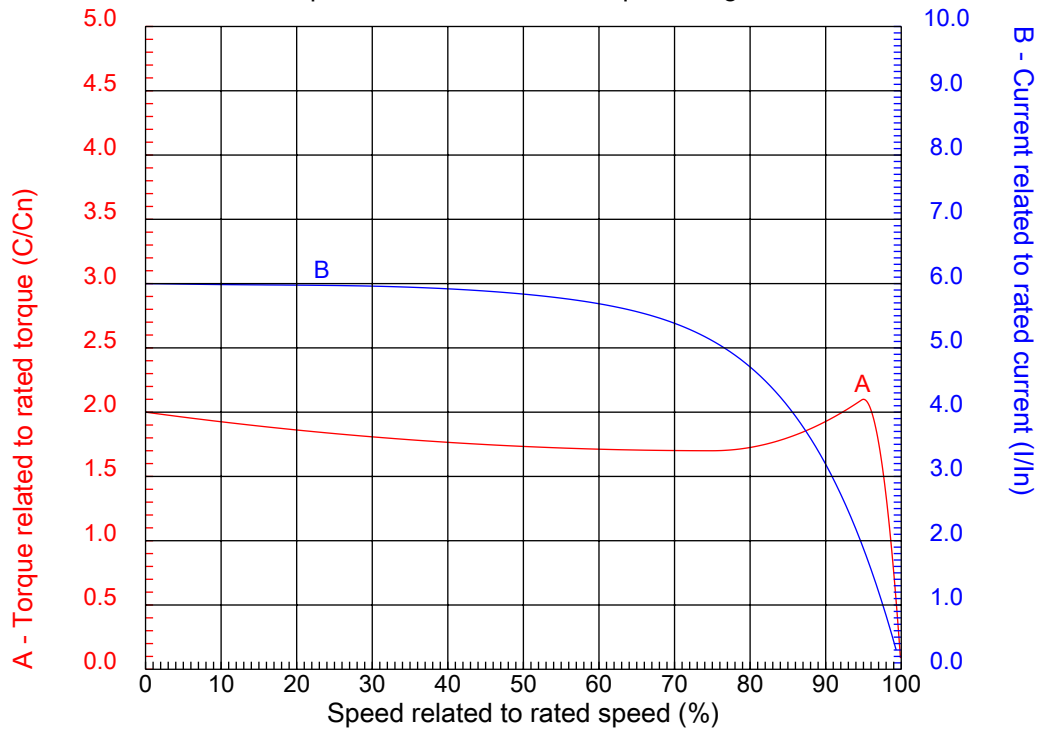
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 504/5Z	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.0
Output	: 200 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1190 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 236 A	Breakdown torque	: 210 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

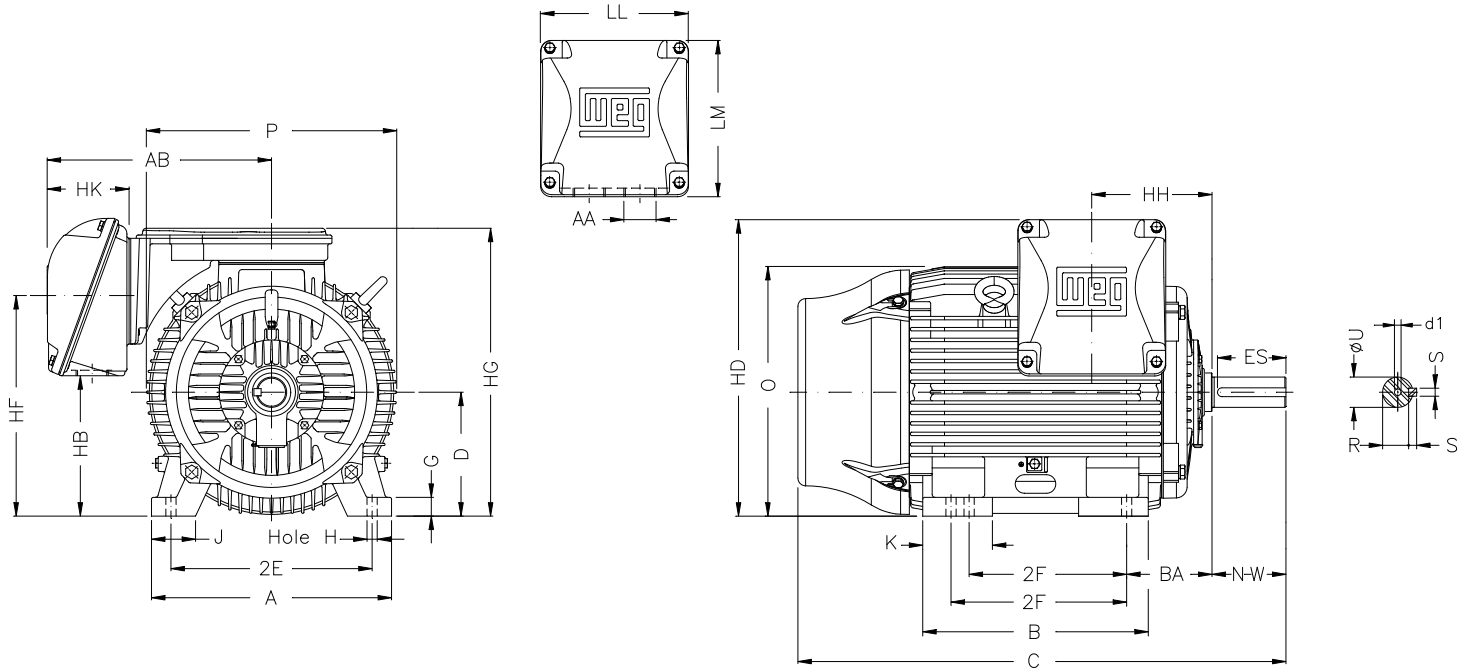
B

C

D

E

F



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2E 20.000	J 4.724	A 24.724	P 25.866	AB 20.599
2F 16.000/18.000	K 7.228	B 24.449	BA 8.500	U 3.875
N-W 11.625	ES 8.661	S 1.000	R 3.309	depth 1.000
D 12.500	G 1.870	HB 15.167	O 25.425	HD 30.206
HF 24.291	HG 29.502	HH 10.374	HK 6.929	H 1.250
C 55.090	LL 14.921	LM 15.039	AA 2xNPT 3"	d1 DUNC 3/4"-10
d2 DUNC 3/4"-10				

Performed by:


Checked:

Customer:

Three-Phase: W22 Crusher Duty TEFC (IP55)

Three-phase induction motor  
Frame 504/5Z - IP55

28-SEP-2016



1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

#### START

#### RUN

#### START

#### RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Three-Phase: W22 Crusher Duty TEFC (IP55)

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