



Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 45012EP3GKD580Z-W22

List Price : \$54,954

Notes:

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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 : 450 HP
 Frequency : 60 Hz
 Poles : 6
 Full load speed : 1195 rpm
 Slip : 0.42 %
 Voltage : 460 V
 Rated current : 540 A
 Locked rotor current : 3460 A
 Locked rotor current (I_L/I_n) : 6.4
 No-load current : 226 A
 Full load torque : 1951 lb.ft
 Locked rotor torque : 230 %
 Breakdown torque : 240 %
 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 m
 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.
Bearings	NU-324 C3	6319 C3
Regreasing interval	6000 h	13000 h
Grease amount	72 g	45 g

Load	Power factor	Efficiency (%)
100%	0.80	95.4
75%	0.75	95.4
50%	0.65	95.0

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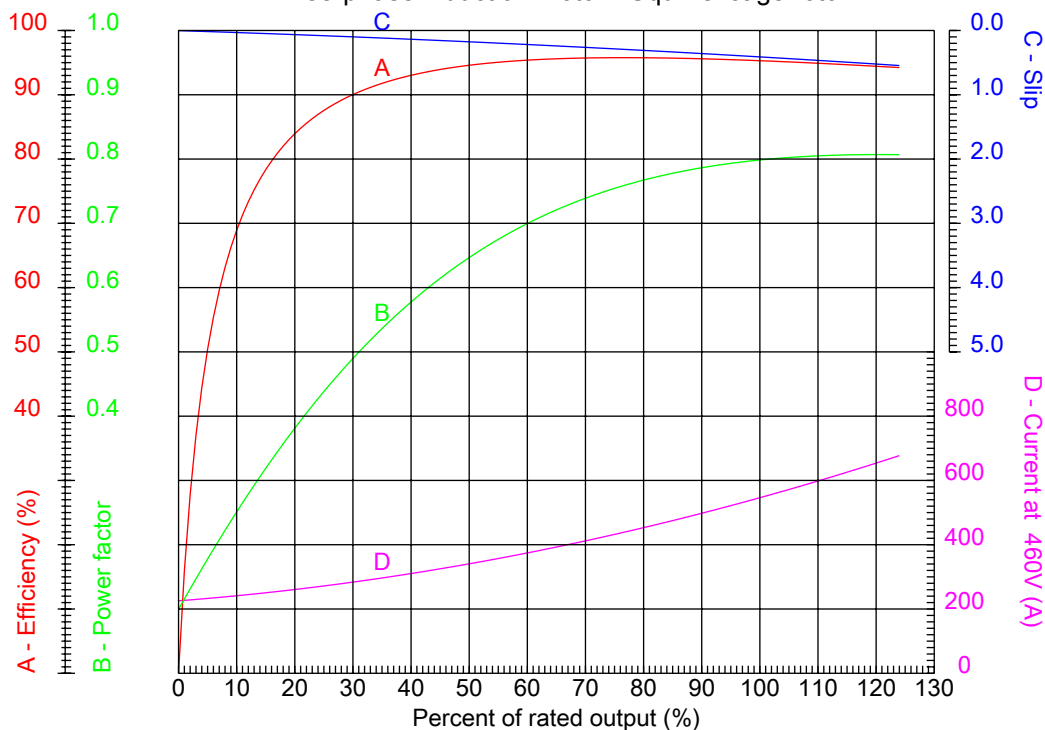
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 586/7Z	Locked rotor current (I _l /I _n)	: 6.4
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1195 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 230 %
Rated current	: 540 A	Breakdown torque	: 240 %
Insulation class	: F		

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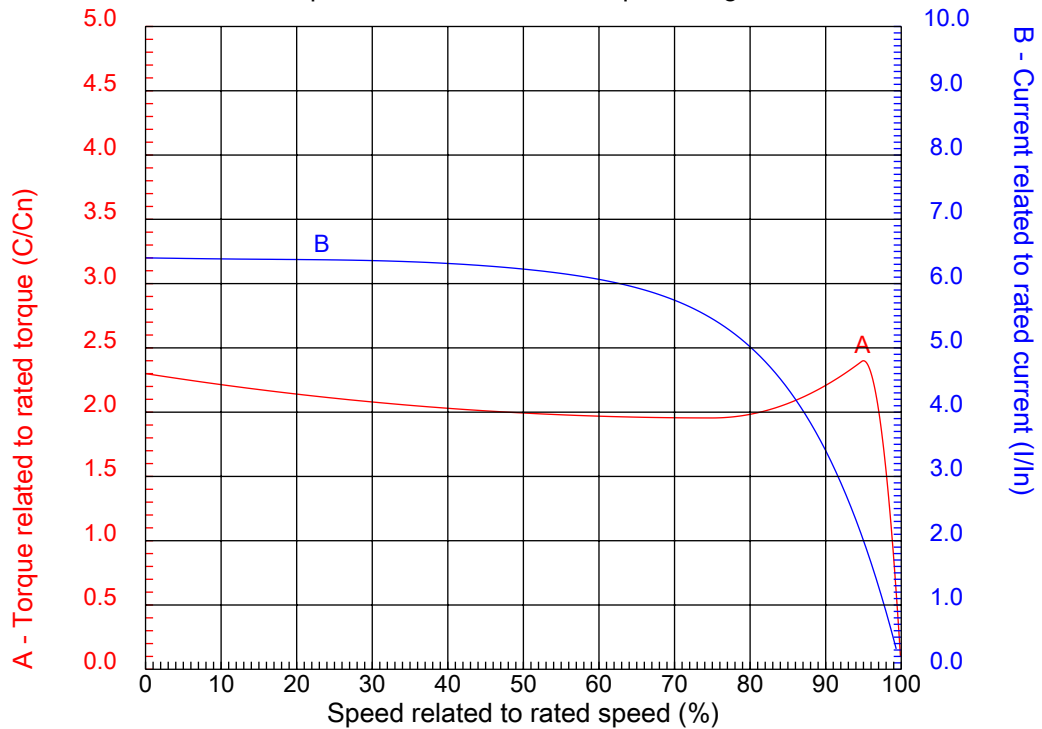
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 586/7Z	Locked rotor current (I _l /I _n)	: 6.4
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1195 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 230 %
Rated current	: 540 A	Breakdown torque	: 240 %
Insulation class	: F		

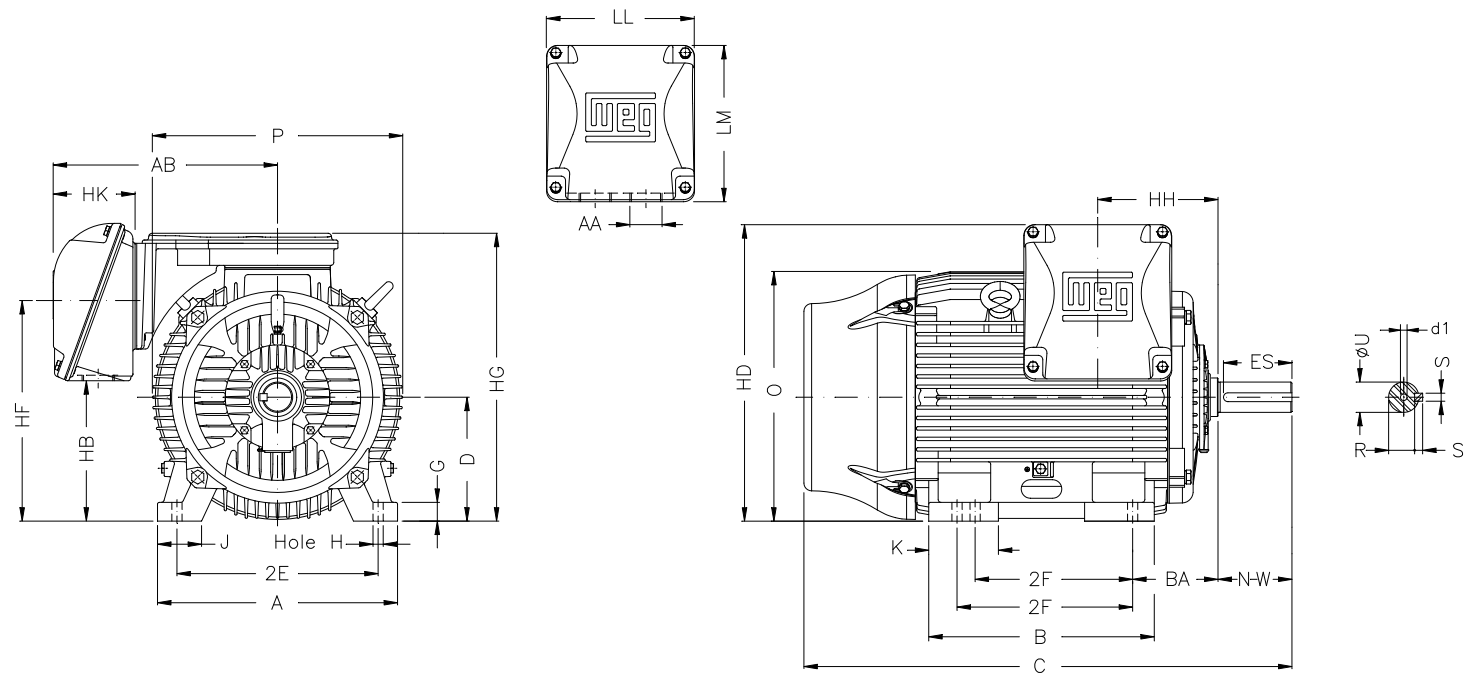
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Checked

1 2 3 4 5 6 7 8

A
B
C
D
E
F



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2E 23.000	J 5.512	A 29.528	P 28.977	AB 23.189
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 18.575	O 28.985	HD 35.740
HF 26.732	HG 35.236	HH 13.346	HK 8.661	H 1.181
C 61.902	LL 15.906	LM 17.165	AA 2xNPT 3"	d1 DUNC 7/8"-9
d2 DUNC 3/4"-10				

Performed by:	
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Customer:	
Three-Phase: W22 Crusher Duty TEFC (IP55)	
Three-phase induction motor Frame 586/7Z - IP55	29-SEP-2016



1 2 3 4 5 6 7 8

A

PART-WINDING

WYE-DELTA

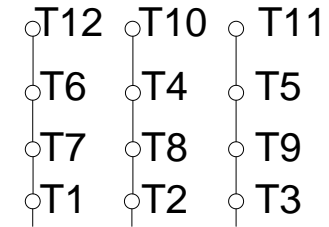
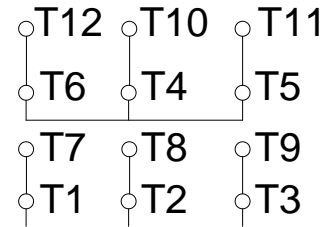
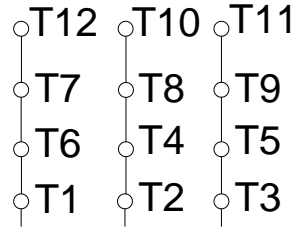
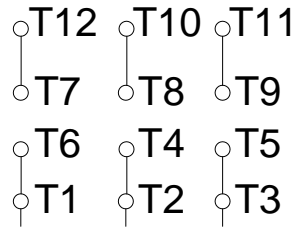
START

RUN

START

RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Customer:

Three-Phase: W22 Crusher Duty TEFC (IP55)

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

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