



No.:

Date: 31-AUG-2020

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : TEFC - W22 NEMA Premium Efficiency

Catalog Number :

List Price : \$

Notes:

Performed by:

Checked:



No.:

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## DATA SHEET

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

Customer :  
Product line : TEFC - W22 NEMA Premium Efficiency

Frame : 586/7T  
Output : 250 HP  
Frequency : 60 Hz  
Poles : 6  
Full load speed : 1190 rpm  
Slip : 0.83 %  
Voltage : 208-230/460 V  
Rated current : 661-598/299 A  
Locked rotor current : 3650/1820 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.1  
No-load current : 240/120 A  
Full load torque : 1088 lb.ft  
Locked rotor torque : 190 %  
Breakdown torque : 210 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 30 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 3206 lb  
Moment of inertia : 226.18 sq.ft.lb  
Noise level : 77 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6322 C3	6319 C3	100%	0.81	95.8
Regreasing interval	11000 h	13000 h	75%	0.77	95.4
Grease amount	60 g	45 g	50%	0.68	95.0

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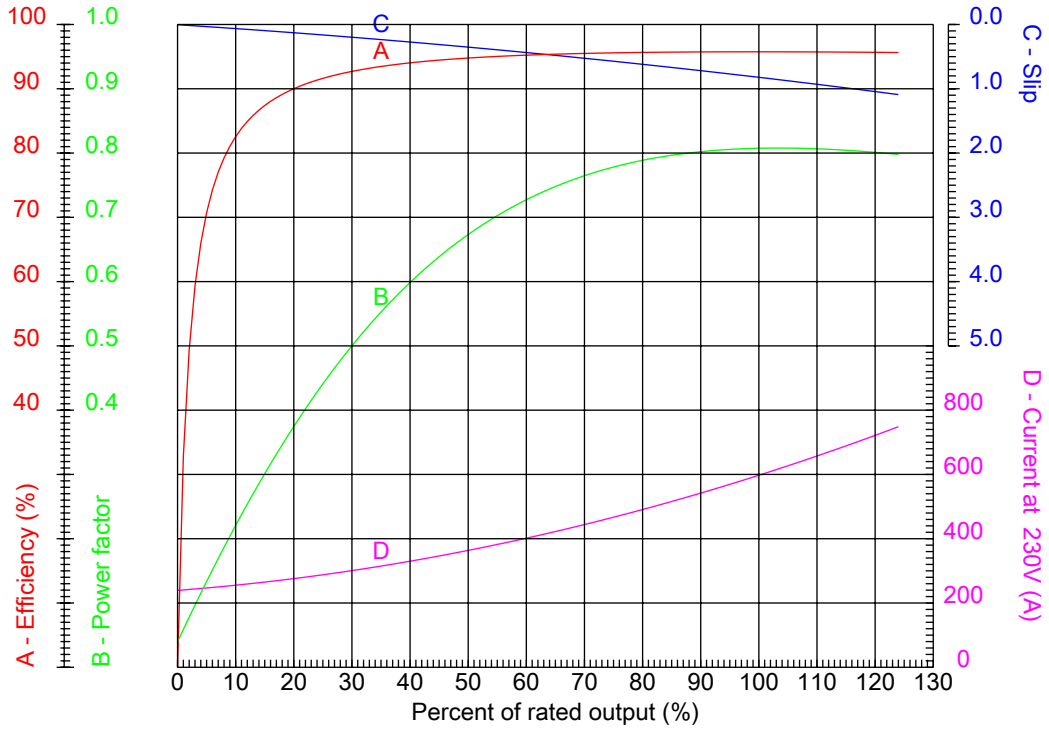


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : TEFC - W22 NEMA Premium Efficiency

Frame	: 586/7T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.1
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1190 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 661-598/299 A	Breakdown torque	: 210 %
Insulation class	: F		

Notes:

Performed by

Checked

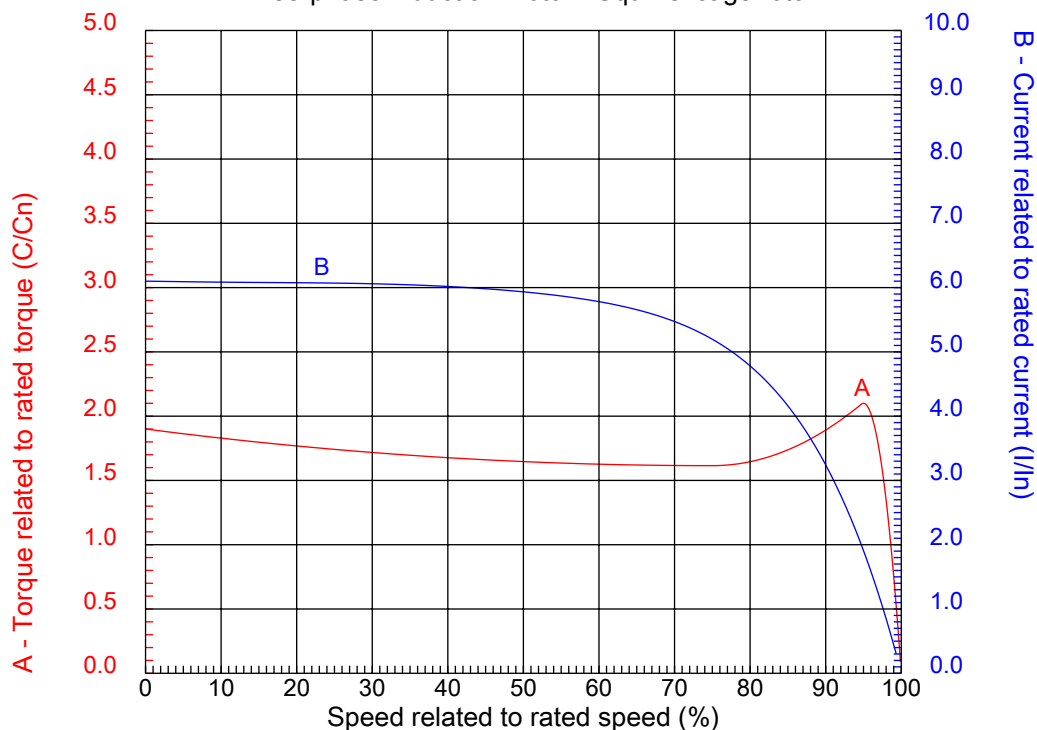


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : TEFC - W22 NEMA Premium Efficiency

Frame	: 586/7T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.1
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1190 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 661-598/299 A	Breakdown torque	: 210 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

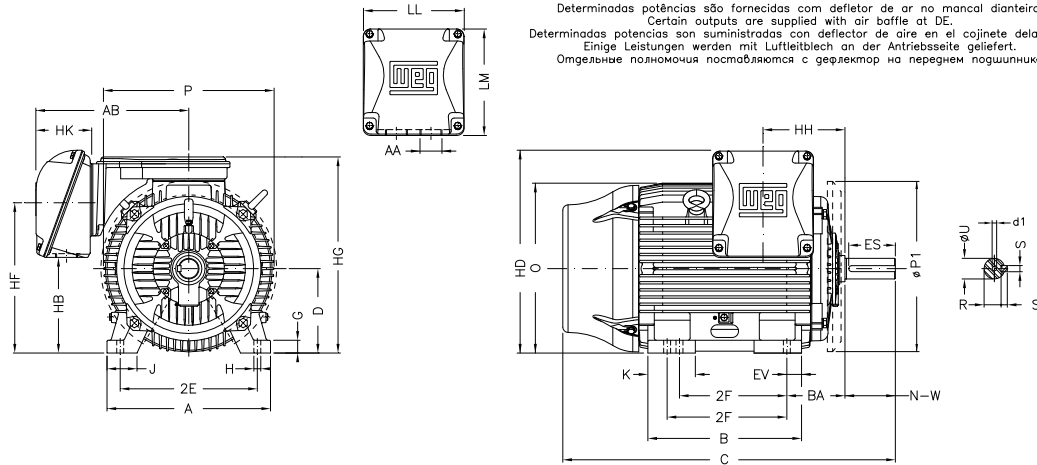
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

TEFC - W22 NEMA Premium Efficiency

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

31-AUG-2020



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 3.875
N-W 11.625	ES 8.661	S 1.000	R 3.312	depth 1.000
D 14.500	G 2.492	HB 18.583	O 28.985	T 6.755
HF 26.732	HG 35.236	HH 13.346	HK 8.661	EV 2.559
H 1.181	C 61.890	LL 15.905	LM 17.165	AA 2xNPT 3"
d1 DUNC 7/8"-9				