



No.:

Date: 11-SEP-2020

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : TEFC - Explosion Proof - 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 - Explosion Proof - NEMA Premium Efficiency

Frame : 586/7T
Output : 350 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1192 rpm
Slip : 0.67 %
Voltage : 208-230/460 V
Rated current : 931-842/421 A
Locked rotor current : 5050/2530 A
Locked rotor current (I_L/I_N) : 6.0
No-load current : 340/170 A
Full load torque : 1521 lb.ft
Locked rotor torque : 190 %
Breakdown torque : 210 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 29 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 4520 lb
Moment of inertia : 327.96 sq.ft.lb
Noise level : 77 dB(A)

	D.E.	N.D.E.
Bearings	6322 C3	6319 C3
Regreasing interval	9212 h	11094 h
Grease amount	60 g	45 g

Load	Power factor	Efficiency (%)
100%	0.81	95.8
75%	0.77	95.8
50%	0.67	95.4

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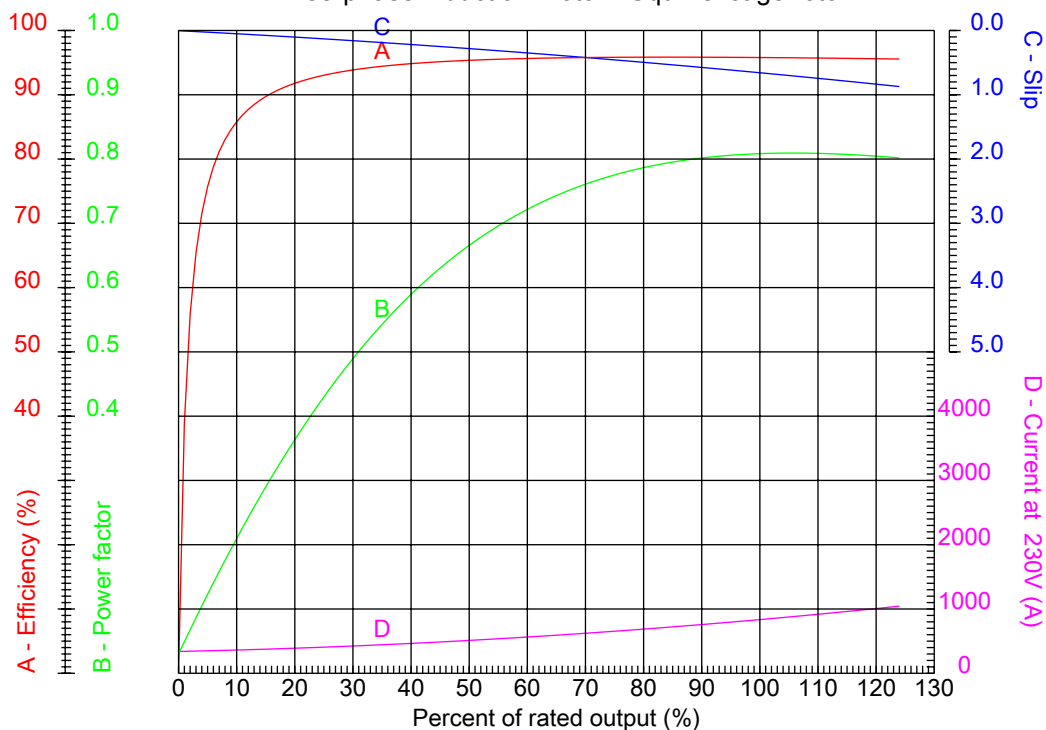


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : TEFC - Explosion Proof - NEMA Premium Efficiency

Frame	: 586/7T	Locked rotor current (I _L /I _n)	: 6.0
Output	: 350 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1192 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 931-842/421 A	Breakdown torque	: 210 %
Insulation class	: F		

Notes:

Performed by

Checked

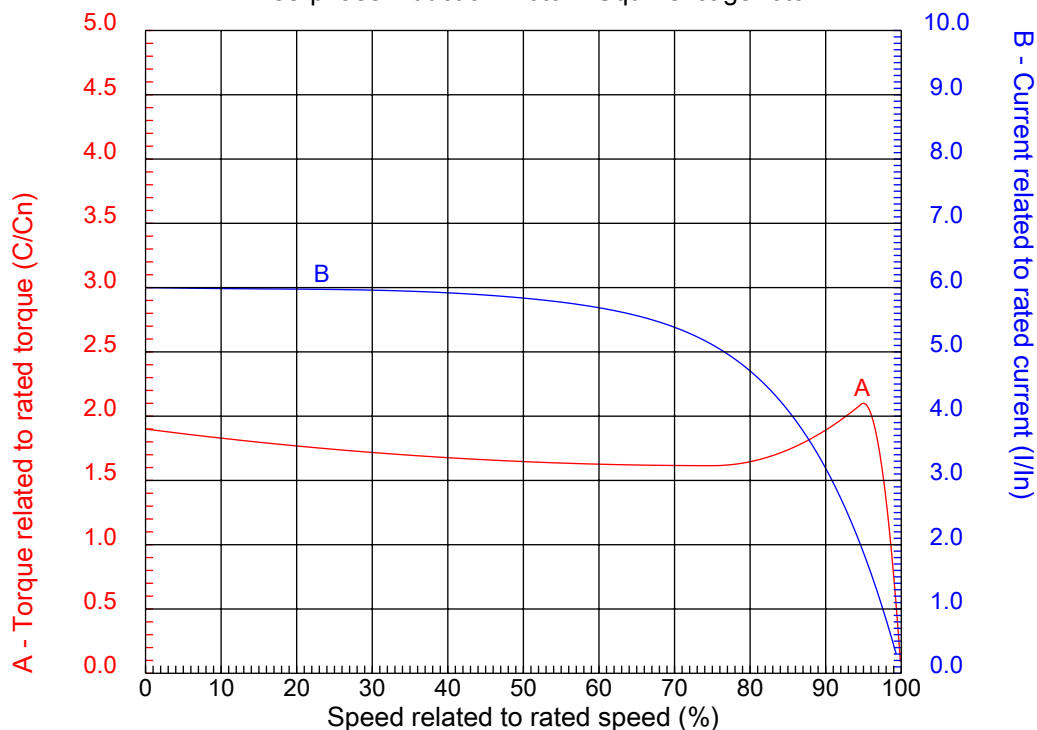


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : TEFC - Explosion Proof - NEMA Premium Efficiency

Frame	: 586/7T	Locked rotor current (I _L /I _n)	: 6.0
Output	: 350 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1192 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 190 %
Rated current	: 931-842/421 A	Breakdown torque	: 210 %
Insulation class	: F		

Notes:

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1 2 3 4 5 6 7 8

A

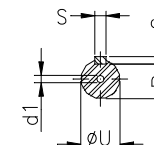
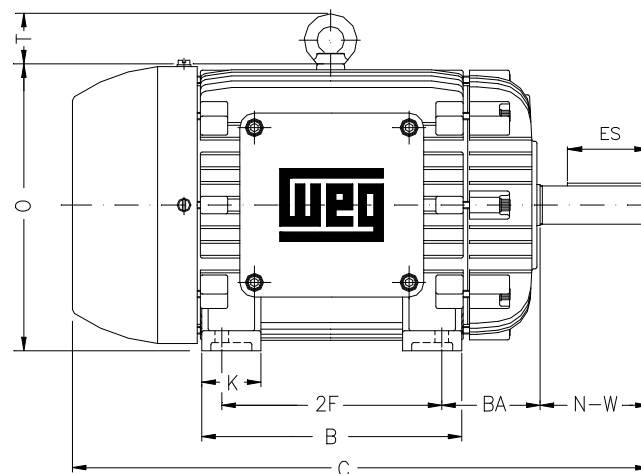
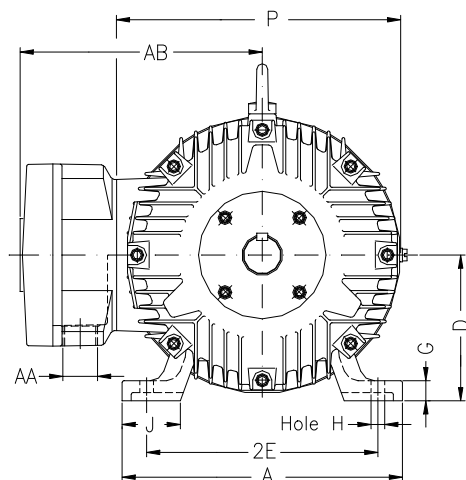
B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

TEFC - Explosion Proof - NEMA Premium Efficiency

Three-phase induction motor

Frame 586/7T - IP55

11-SEP-2020



2E
23.000

A
29.528

2F
22.000/25.000

B
29.921

BA
10.00

J
5.236

K
7.874

P
30.709

ES
8.661

depth
1.000

S
1.000

N-W
11.625

U
3.875

R
3.312

AB
25.787

D
14.500

G
2.492

O
30.428

T
4.291

H
1.181

C
61.378

AA
2xNPT 3"

d1
DUNC 7/8"-9

d2
DUNC 3/4"-10