



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:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 364/5T
Output : 50 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1185 rpm
Slip : 1.25 %
Voltage : 575 V
Rated current : 46.5 A
Locked rotor current : 344 A
Locked rotor current (I_L/I_n) : 7.4
No-load current : 19.2 A
Full load torque : 219 lb.ft
Locked rotor torque : 260 %
Breakdown torque : 280 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 20 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 1036 lb
Moment of inertia : 29.389 sq.ft.lb
Noise level : 65 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.85	94.1
Regreasing interval	14267 h	14267 h	75%	0.81	94.1
Grease amount	27 g	27 g	50%	0.71	93.6

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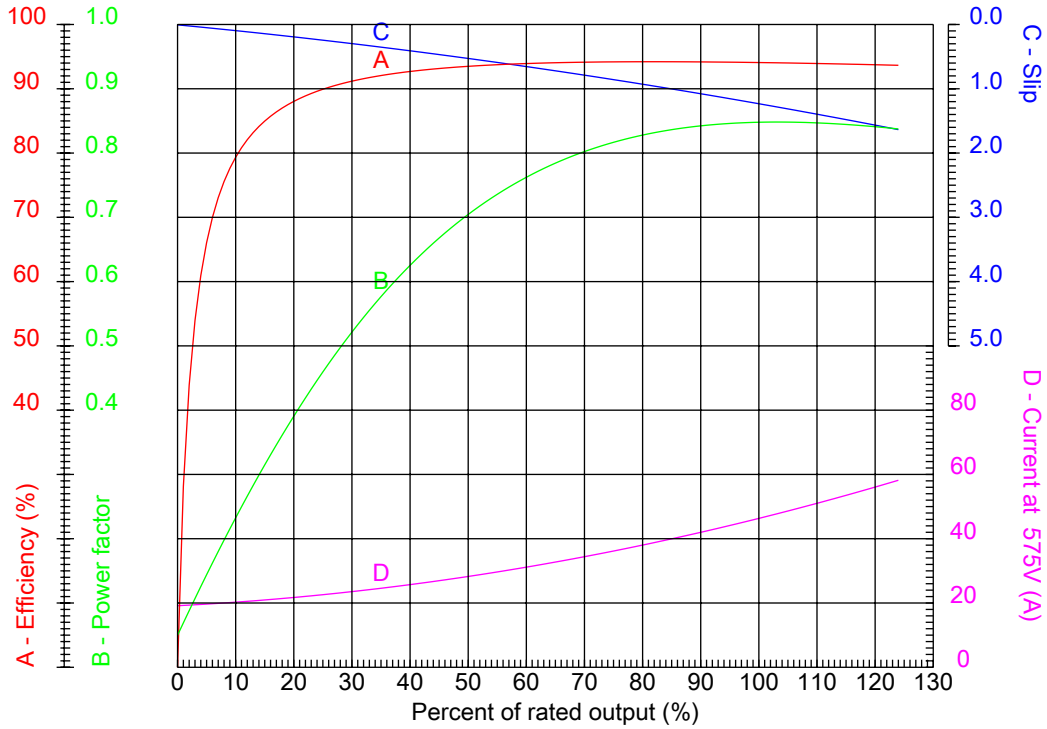


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame : 364/5T	Locked rotor current (I _l /I _n) : 7.4
Output : 50 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1185 rpm	Design : B
Voltage : 575 V	Locked rotor torque : 260 %
Rated current : 46.5 A	Breakdown torque : 280 %
Insulation class : F	

Notes:

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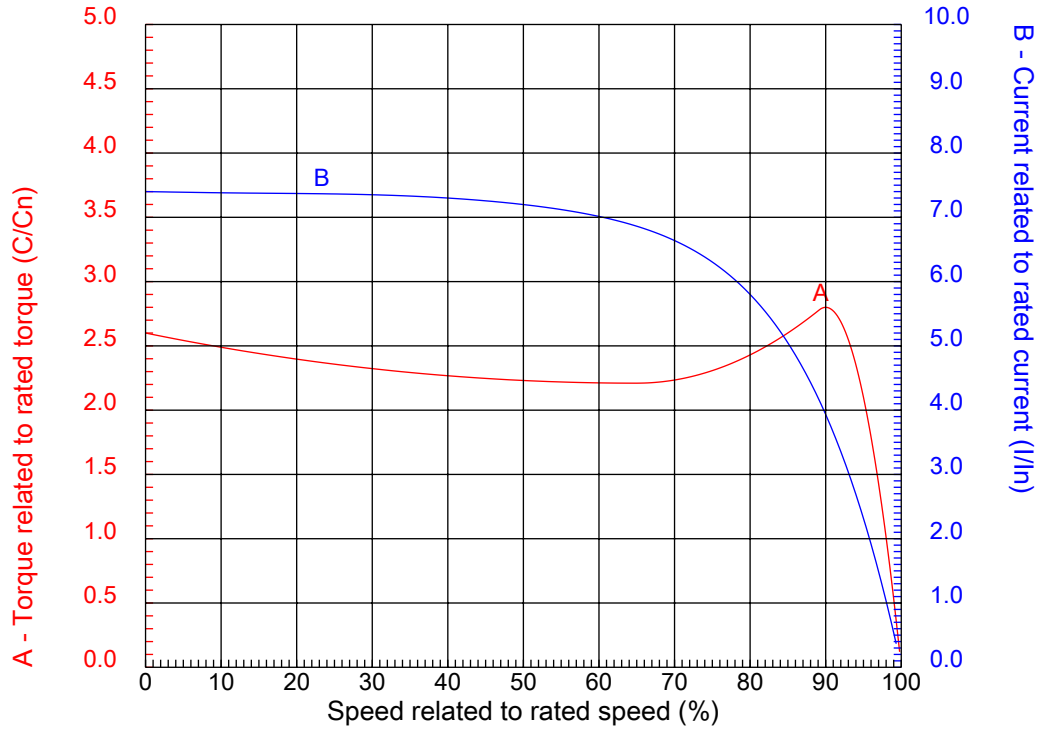


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5T	Locked rotor current (I _l /I _n)	: 7.4
Output	: 50 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 260 %
Rated current	: 46.5 A	Breakdown torque	: 280 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

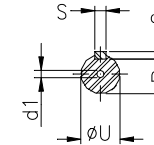
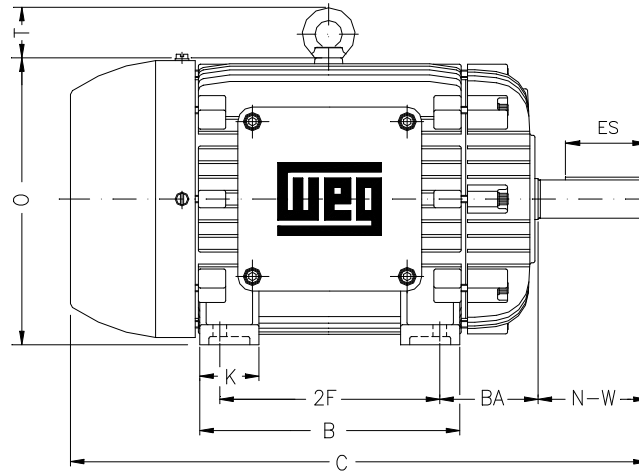
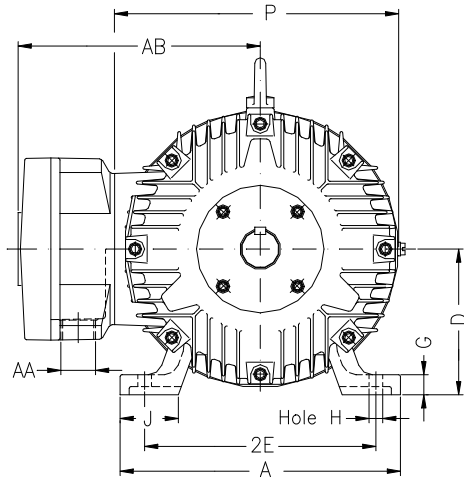
B

C

D

E

F



Notes:

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Customer:

TEFC - Explosion Proof - NEMA Premium Efficiency

Three-phase induction motor

Frame 364/5T - IP55

11-SEP-2020



2E 14.000	A 17.165	2F 11.260/12.244	B 15.394	BA 5.875
J 3.150	K 4.134	P 18.583	ES 4.331	depth 0.625
S 0.625	N-W 5.874	U 2.375	R 2.019	AB 16.654
D 9.000	G 1.480	O 18.898	T 2.795	H 0.657
C 33.701	AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	