



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Explosion Proof - High Efficiency

Catalog Number : 02009XP3E324T

List Price : \$6,984

Notes:

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Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Three-Phase : Explosion Proof - High Efficiency

Frame : 324T
 Output : 20 HP
 Frequency : 60 Hz
 Poles : 8
 Full load speed : 880 rpm
 Slip : 2.22 %
 Voltage : 208-230/460 V
 Rated current : 61.9-56.0/28.0 A
 Locked rotor current : 297/148 A
 Locked rotor current (I_L/I_n) : 5.3
 No-load current : 28.8/14.4 A
 Full load torque : 118 lb.ft
 Locked rotor torque : 220 %
 Breakdown torque : 220 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 34 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP54
 Approximate weight : 604 lb
 Moment of inertia : 9.7905 sq.ft.lb
 Noise level : 56 dB(A)

	D.E.	N.D.E.
Bearings	6312 2RS-C3	6212 2RS-C3
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.75	89.5
75%	0.68	89.5
50%	0.56	87.5

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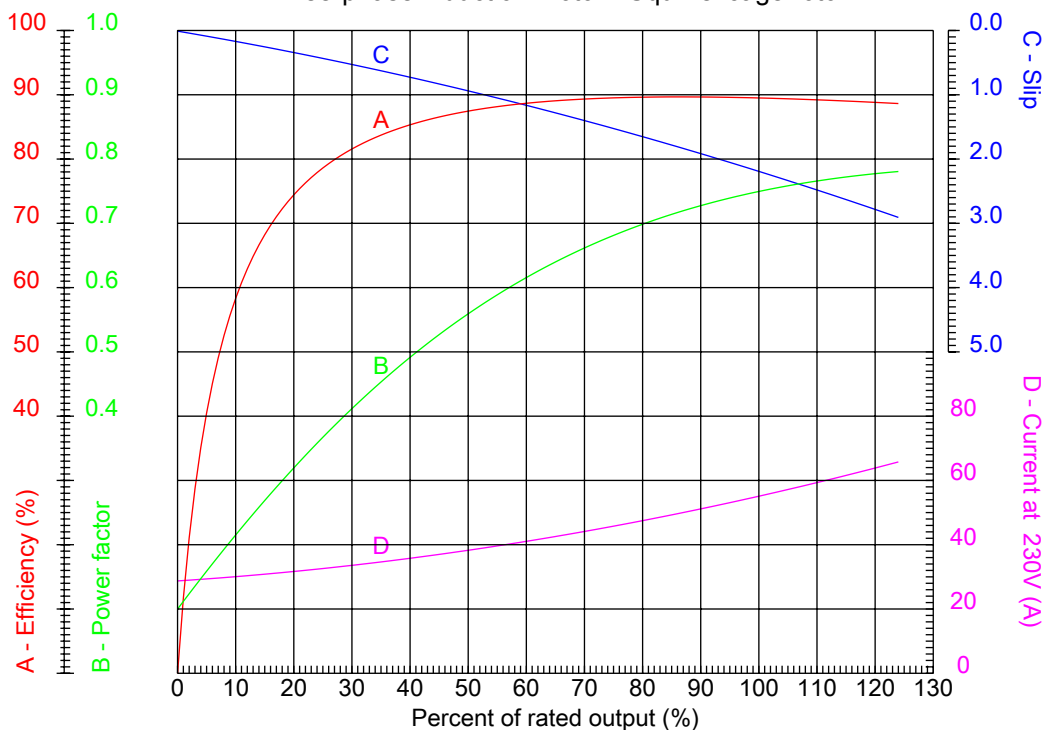
Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : Three-Phase : Explosion Proof - High Efficiency

Frame	: 324T	Locked rotor current (I _L /I _n)	: 5.3
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 880 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 220 %
Rated current	: 61.9-56.0/28.0 A	Breakdown torque	: 220 %
Insulation class	: F		

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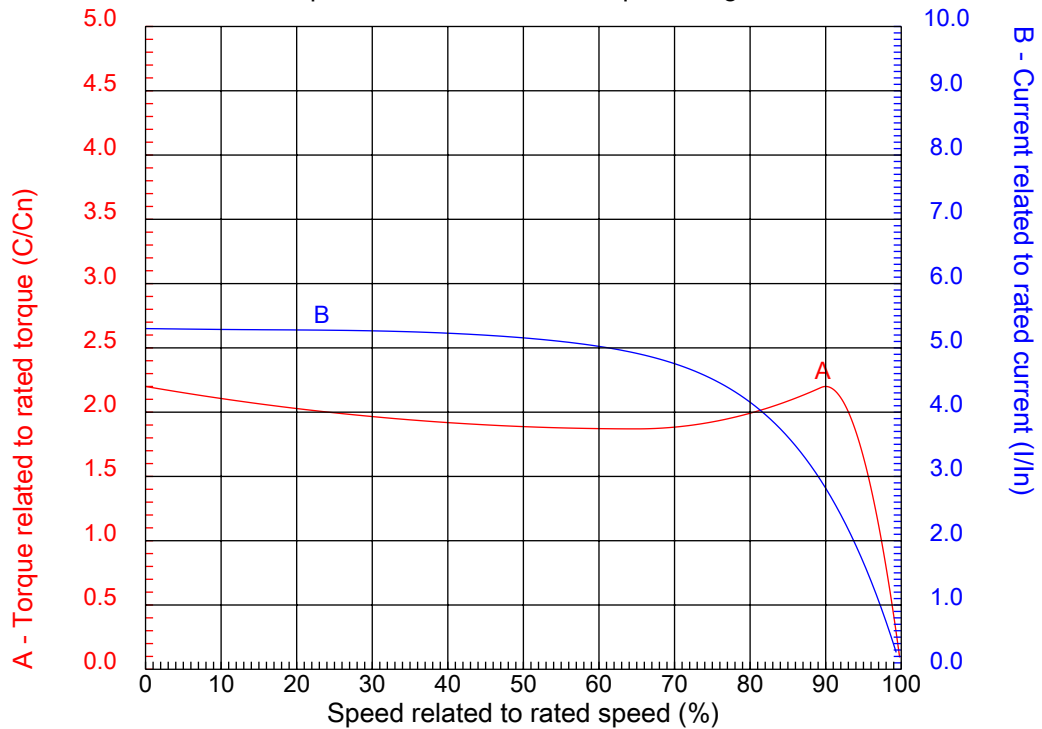
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : Explosion Proof - High Efficiency

Frame	: 324T	Locked rotor current (I _l /I _n)	: 5.3
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 880 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 220 %
Rated current	: 61.9-56.0/28.0 A	Breakdown torque	: 220 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

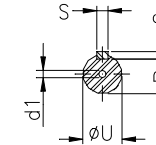
B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - High Efficiency

Three-phase induction motor
Frame 324T - IP54

23-SEP-2016



2E 12.500	A 15.157	2F 10.500	B 13.071	BA 5.250
J 3.228	K 3.346	P 15.697	ES 3.937	depth 0.500
S 0.500	N-W 5.250	U 2.125	R 1.844	AB 12.961
D 8.000	G 1.307	O 15.992	H 0.657	C 29.602
AA NPT 2"	d1 A 4	d2 A 4	T 2.795	

1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

Three-Phase : Explosion Proof - High Efficiency

Three-phase induction motor
Frame 324T - IP54

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