



Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 00509XP3E254T

List Price : \$3,237

Notes:

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Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 254T
 Output : 5 HP
 Frequency : 60 Hz
 Poles : 8
 Full load speed : 875 rpm
 Slip : 2.78 %
 Voltage : 208-230/460 V
 Rated current : 17.7-16.0/7.99 A
 Locked rotor current : 84.7/42.3 A
 Locked rotor current (I_L/I_n) : 5.3
 No-load current : 10.5/5.25 A
 Full load torque : 29.6 lb.ft
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 37 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP54
 Approximate weight : 304 lb
 Moment of inertia : 2.8972 sq.ft.lb
 Noise level : 54 dB(A)

	D.E.	N.D.E.
Bearings	6309 2RS-C3	6209 2RS-C3
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.68	85.5
75%	0.60	85.0
50%	0.47	82.1

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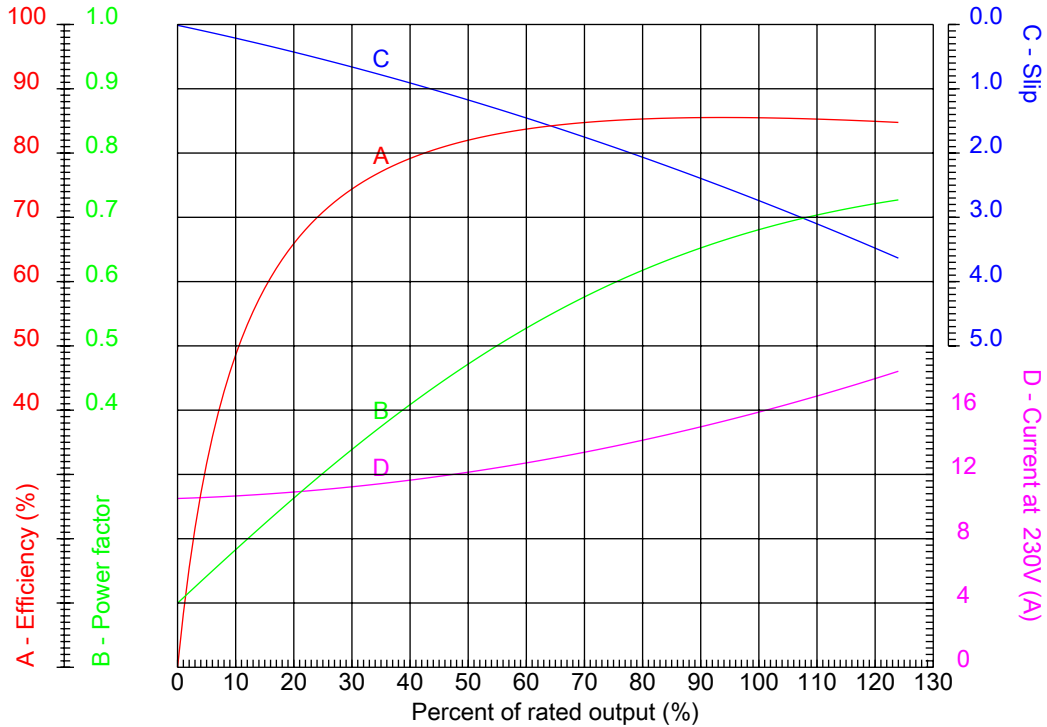
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254T	Locked rotor current (I _l /I _n)	: 5.3
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 875 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 17.7-16.0/7.99 A	Breakdown torque	: 280 %
Insulation class	: F		

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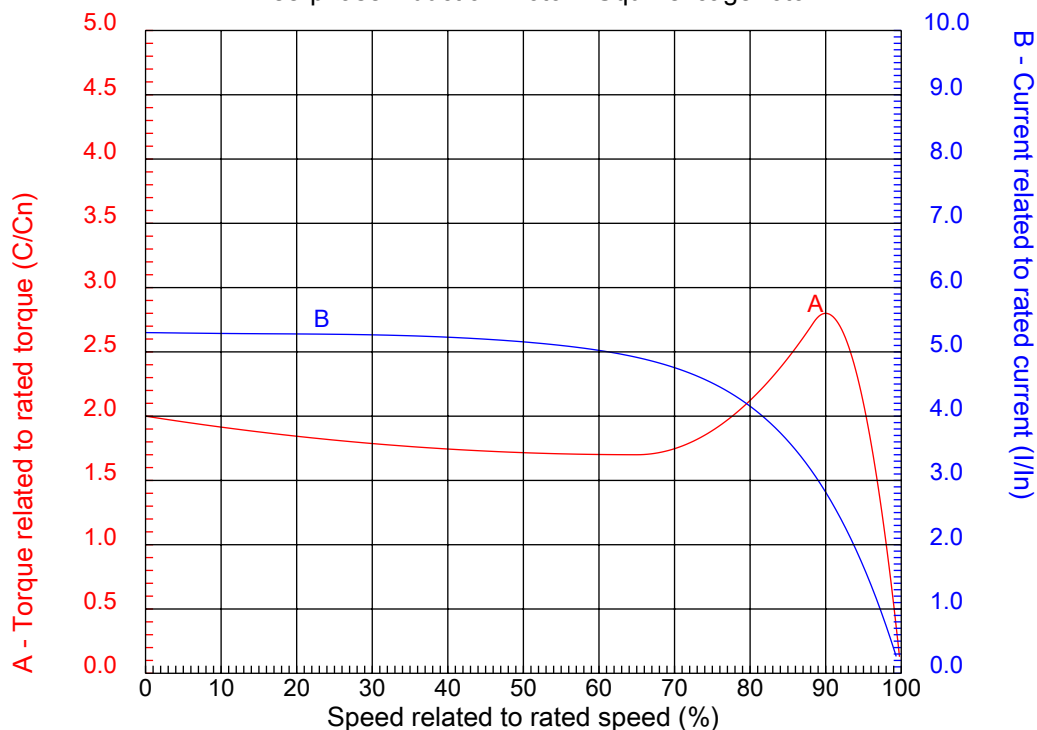
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 254T	Locked rotor current (I _l /I _n)	: 5.3
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 875 rpm	Design	: B
Voltage	: 208-230/460 V	Locked rotor torque	: 200 %
Rated current	: 17.7-16.0/7.99 A	Breakdown torque	: 280 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

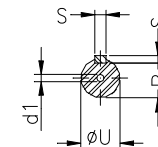
B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - High Efficiency

Three-phase induction motor
Frame 254T - IP54

13-SEP-2016



2E 10.000	A 12.126	2F 8.252	B 10.000	BA 4.250
J 2.520	K 2.559	P 12.224	ES 2.756	depth 0.375
S 0.375	N-W 4.000	U 1.625	R 1.416	AB 11.063
D 6.250	G 0.817	O 12.352	H 0.531	C 23.175
AA NPT 1 1/2"	d1 A 4	d2 A 4	T 2.087	

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 254T - IP54

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