



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Explosion Proof - NEMA Premium

Catalog Number : 00152XT3H182T

List Price : \$1,105

Notes:

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Generated for Model #00152XT3H182T

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No.:

Date: 12-SEP-2016

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

Customer :  
 Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 182T  
 Output : 1.5 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1165 rpm  
 Slip : 2.92 %  
 Voltage : 575 V  
 Rated current : 1.86 A  
 Locked rotor current : 13.4 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.2  
 No-load current : 1.12 A  
 Full load torque : 6.67 lb.ft  
 Locked rotor torque : 260 %  
 Breakdown torque : 330 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 35 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 118 lb  
 Moment of inertia : 0.42121 sq.ft.lb  
 Noise level : 52 dB(A)

	D.E.	N.D.E.
Bearings	6307 2RS	6206 2RS
Regreasing interval	---	---
Grease amount	---	---

Load	Power factor	Efficiency (%)
100%	0.68	87.5
75%	0.59	86.5
50%	0.47	84.5

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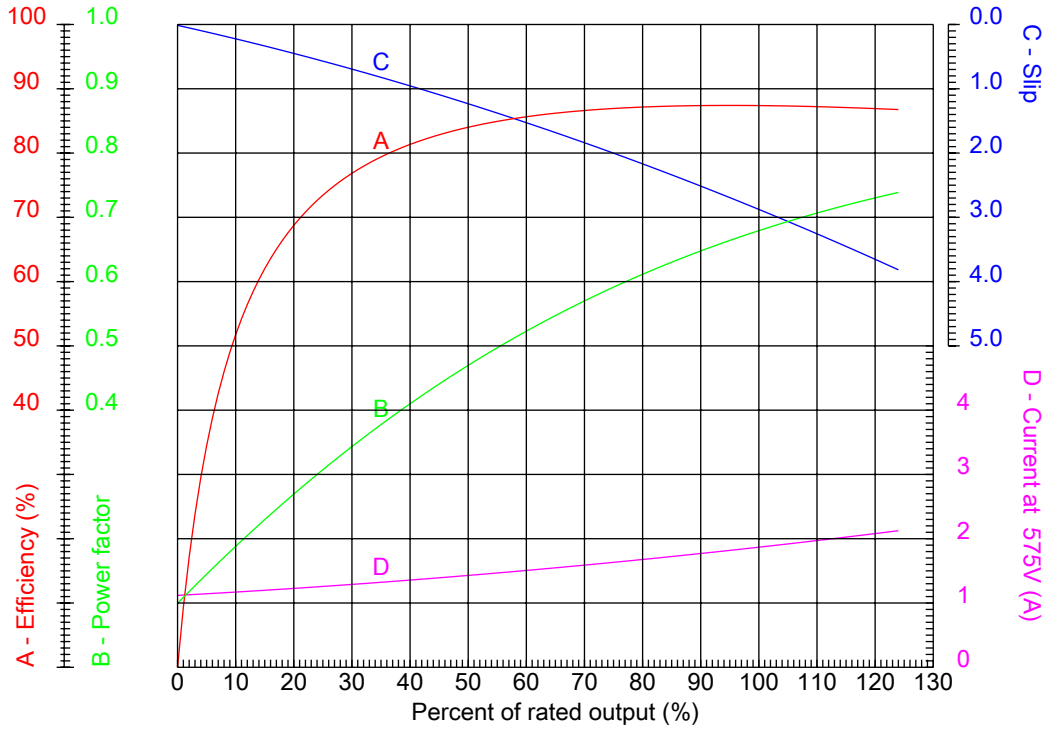
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 182T	Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) : 7.2
Output : 1.5 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1165 rpm	Design : B
Voltage : 575 V	Locked rotor torque : 260 %
Rated current : 1.86 A	Breakdown torque : 330 %
Insulation class : F	

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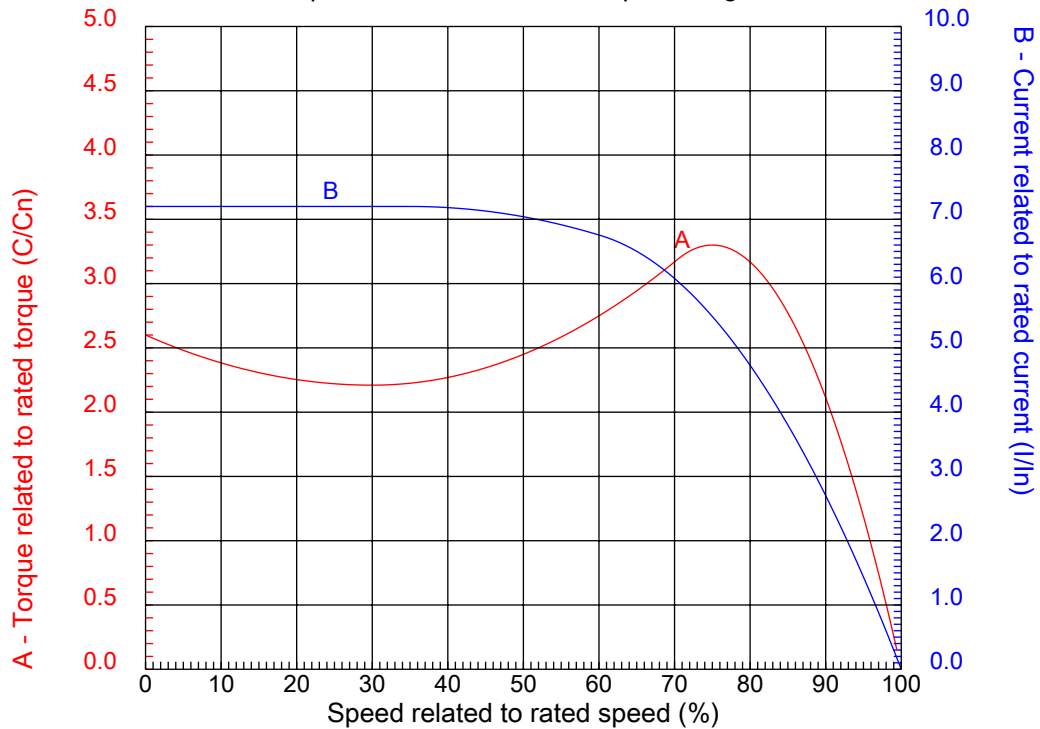
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame	: 182T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.2
Output	: 1.5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1165 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 260 %
Rated current	: 1.86 A	Breakdown torque	: 330 %
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 - NEMA Premium

Three-phase induction motor  
Frame 182T - IP55

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2E 7.500	A 8.661	2F 4.500	B 5.945	BA 2.750
J 1.890	K 1.969	P 8.909	ES 1.969	depth 0.250
S 0.250	N-W 2.750	U 1.125	R 0.984	AB 8.240
D 4.500	G 0.787	O 9.421	T 1.772	H 0.406
C 14.862	AA NPT 3/4"	d1 A 4	d2 A 4	

1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 182T - IP55

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