



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 07536XT3H365TS

List Price : \$11,285

Notes:

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

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

Frame : 364/5TS  
 Output : 75 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3560 rpm  
 Slip : 1.11 %  
 Voltage : 575 V  
 Rated current : 65.9 A  
 Locked rotor current : 461 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.0  
 No-load current : 17.6 A  
 Full load torque : 109 lb.ft  
 Locked rotor torque : 230 %  
 Breakdown torque : 260 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 18 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 1025 lb  
 Moment of inertia : 9.9623 sq.ft.lb  
 Noise level : 85 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	3604 h	3604 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.89	94.1
75%	0.87	94.1
50%	0.81	93.0

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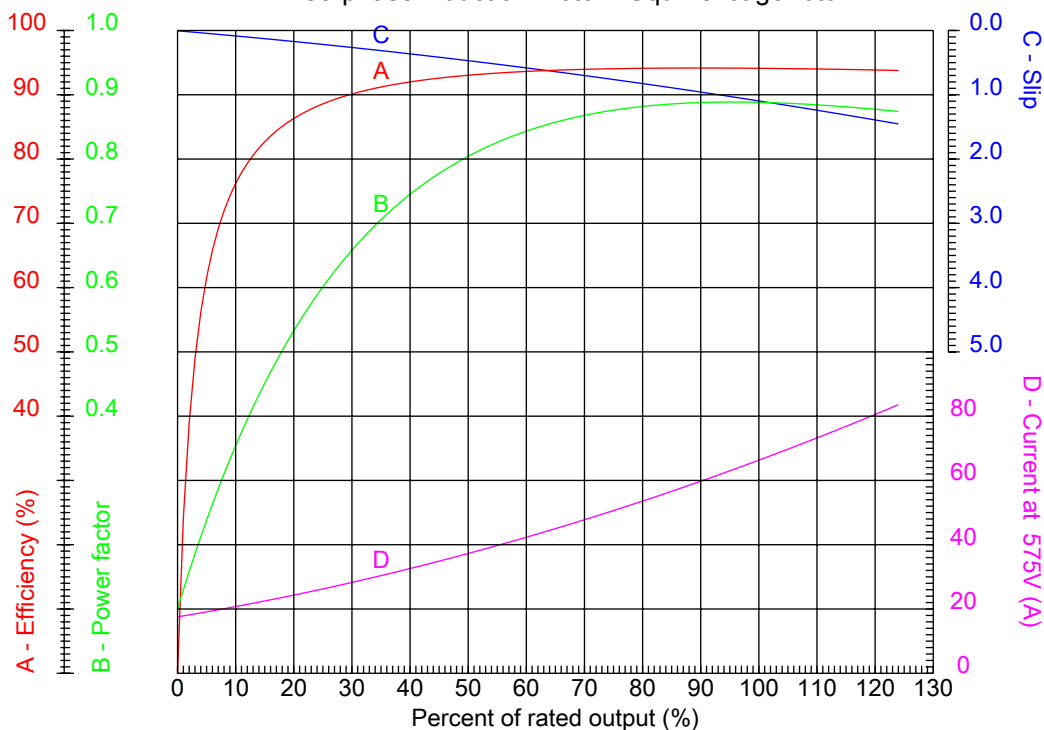
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.0
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3560 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 230 %
Rated current	: 65.9 A	Breakdown torque	: 260 %
Insulation class	: F		

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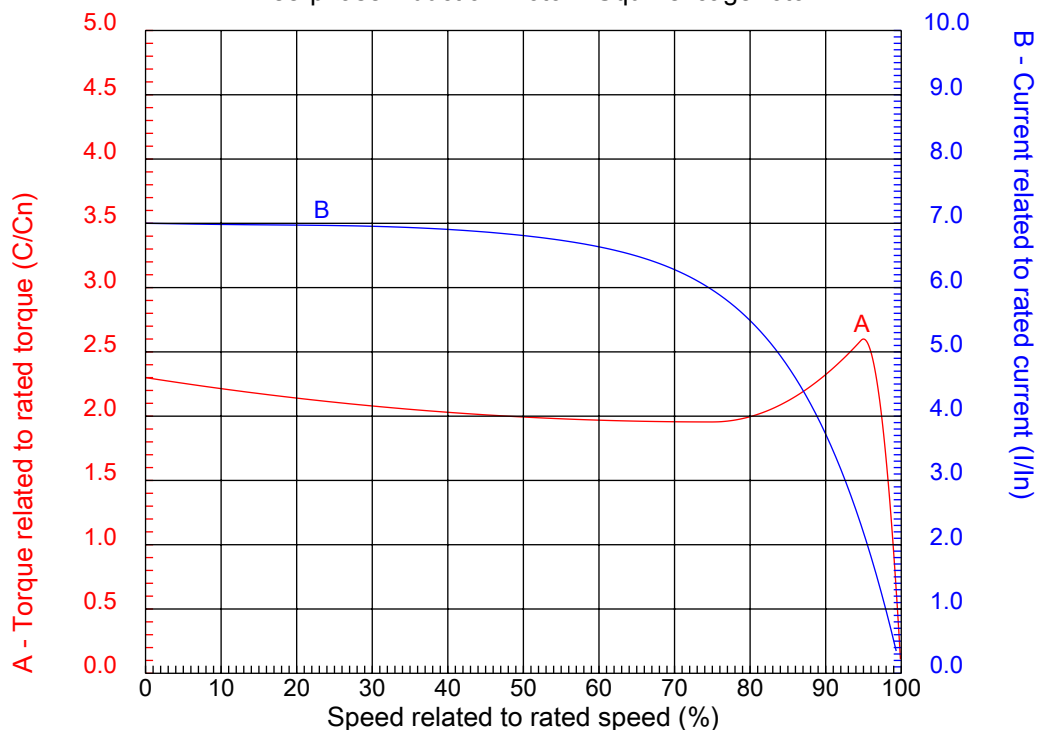
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 364/5TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 7.0
Output	: 75 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3560 rpm	Design	: B
Voltage	: 575 V	Locked rotor torque	: 230 %
Rated current	: 65.9 A	Breakdown torque	: 260 %
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 364/5TS - IP55

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2E 14.000	A 17.165	2F 11.250/12.250	B 15.394	BA 5.875
J 3.150	K 4.134	P 18.583	ES 1.968	depth 0.500
S 0.500	N-W 3.748	U 1.875	R 1.591	AB 16.654
D 9.000	G 1.480	O 18.898	T 2.795	H 0.657
C 31.575	AA NPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	

1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 364/5TS - IP55

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