



Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Catalog Number : 15036OT3G405TS

List Price : \$11,416

Notes:

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Date: 28-SEP-2016

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

Customer :  
 Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Frame : 405TS  
 Output : 150 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3555 rpm  
 Slip : 1.25 %  
 Voltage : 460 V  
 Rated current : 162 A  
 Locked rotor current : 1070 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
 No-load current : 32.0 A  
 Full load torque : 219 lb.ft  
 Locked rotor torque : 190 %  
 Breakdown torque : 250 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 10 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 1246 lb  
 Moment of inertia : 11.919 sq.ft.lb  
 Noise level : 84 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	14418 h	14418 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.90	94.5
75%	0.89	94.5
50%	0.86	94.5

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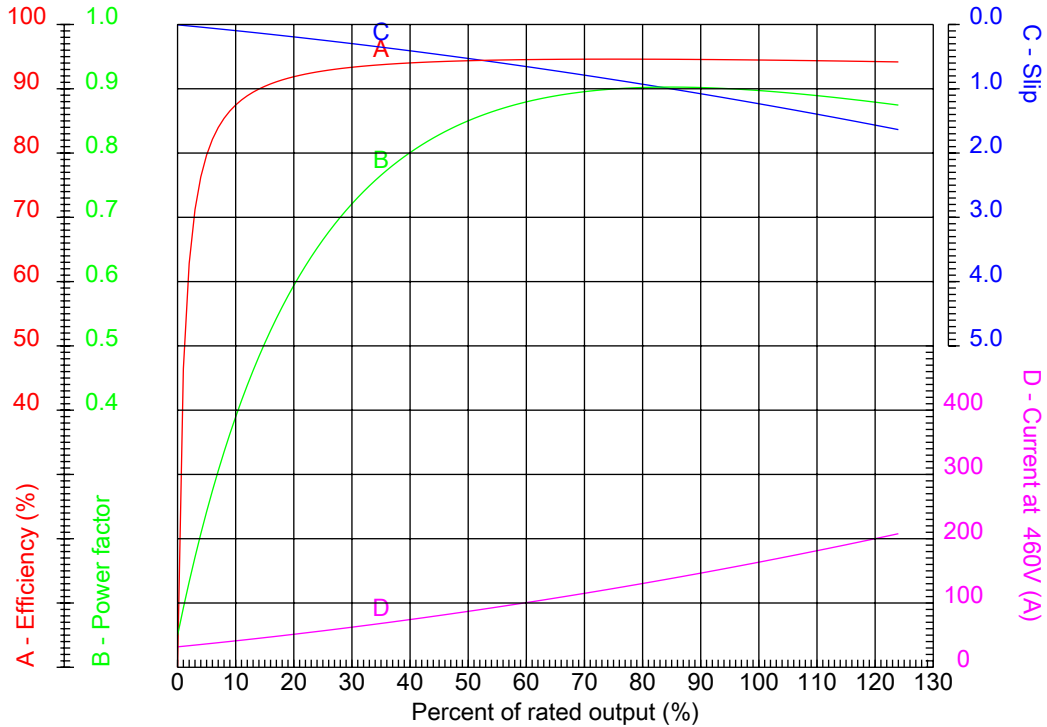
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Frame : 405TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.6
Output : 150 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 3555 rpm	Design : B
Voltage : 460 V	Locked rotor torque : 190 %
Rated current : 162 A	Breakdown torque : 250 %
Insulation class : F	

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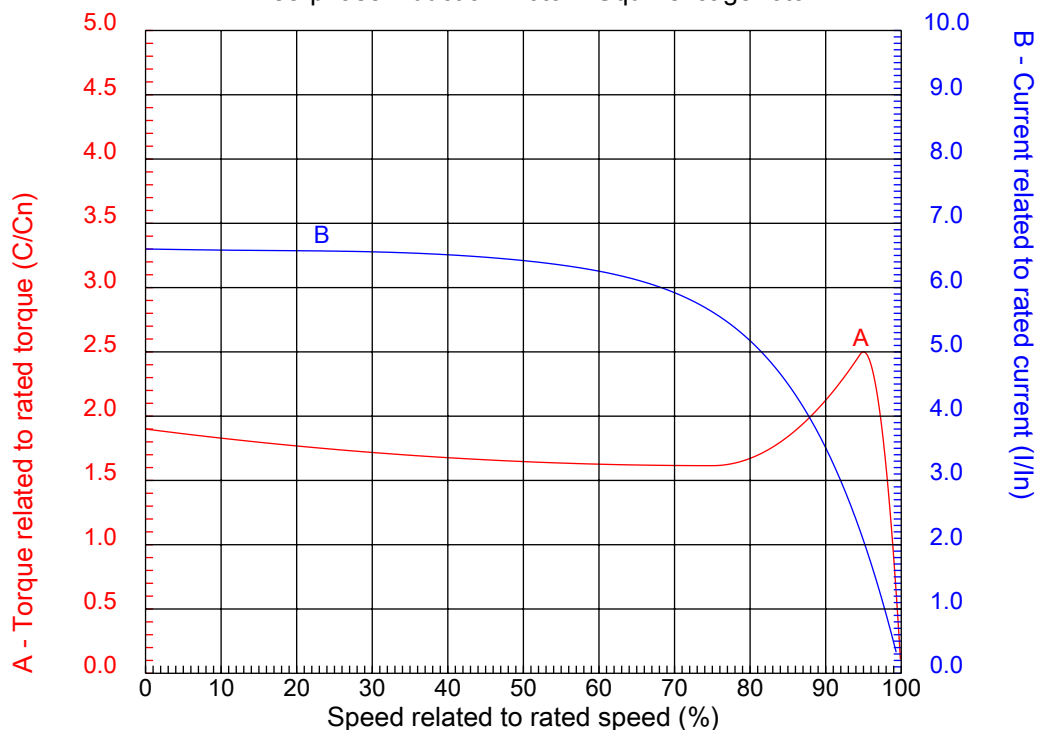
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : ODP – Open Induction Motors – NEMA Premium Efficiency

Frame	: 405TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.6
Output	: 150 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3555 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 190 %
Rated current	: 162 A	Breakdown torque	: 250 %
Insulation class	: F		

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Customer:

ODP – Open Induction Motors – NEMA Premium Efficiency

2E 16.000	J 3.950	A 19.950	P 17.874	AB 16.378
2F 12.250/13.750	K 5.440	B 17.700	BA 6.625	U 2.125
d1 DUNC 3/4"-10	N-W 4.250	ES 2.756	S 0.500	R 1.842
depth 0.500	D 10.000	G 1.968	O 19.409	T 2.800
H 0.810	C 31.141	AA NPT 3"		

Three-phase induction motor  
Frame 405TS - IP23

28-SEP-2016



1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

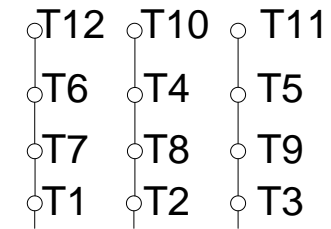
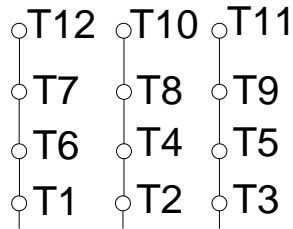
#### START

#### RUN

#### START

#### RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Three-phase induction motor  
 Frame 405TS - IP23

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