



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 : 12518OT3G405TS

List Price : \$7,981

Notes:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 405TS
 Output : 125 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1780 rpm
 Slip : 1.11 %
 Voltage : 460 V
 Rated current : 136 A
 Locked rotor current : 952 A
 Locked rotor current (I_L/I_n) : 7.0
 No-load current : 41.0 A
 Full load torque : 364 lb.ft
 Locked rotor torque : 240 %
 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 : 1144 lb
 Moment of inertia : 26.573 sq.ft.lb
 Noise level : 69 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6314 C3
Regreasing interval	20000 h	20000 h
Grease amount	27 g	27 g

Load	Power factor	Efficiency (%)
100%	0.87	95.4
75%	0.85	95.4
50%	0.76	95.0

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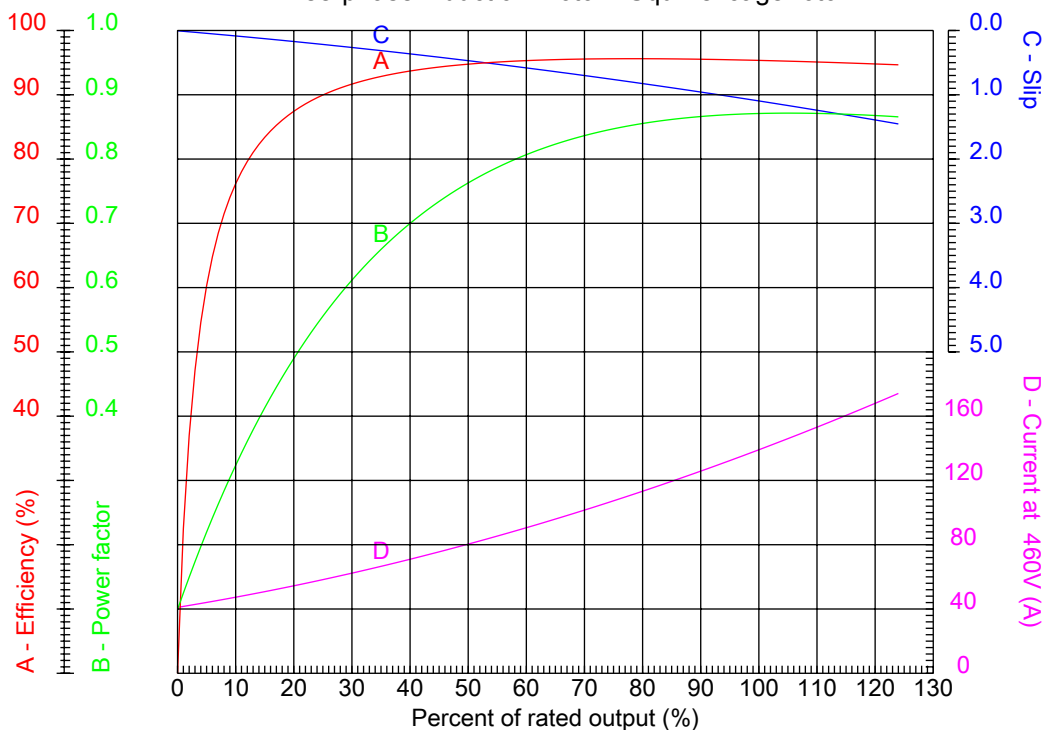
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 405TS	Locked rotor current (I _l /I _n)	: 7.0
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 136 A	Breakdown torque	: 250 %
Insulation class	: F		

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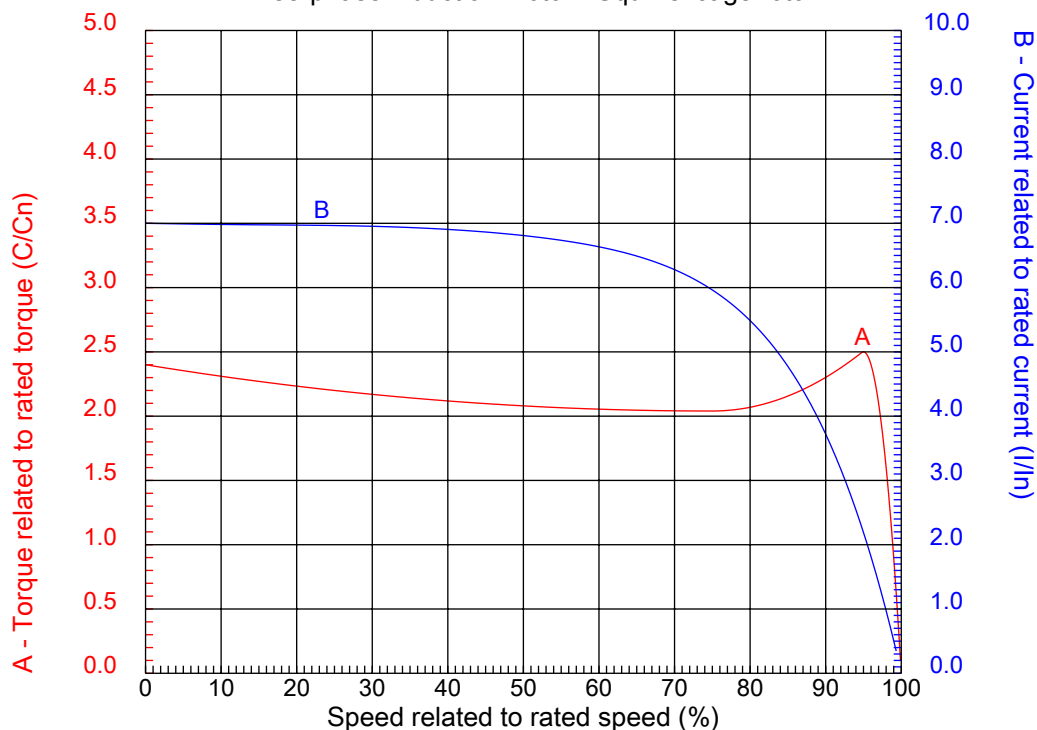
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 405TS	Locked rotor current (I _l /I _n)	: 7.0
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1780 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 136 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

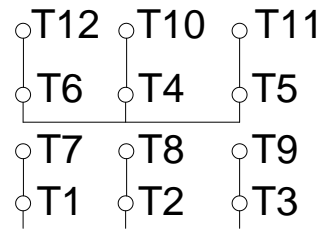
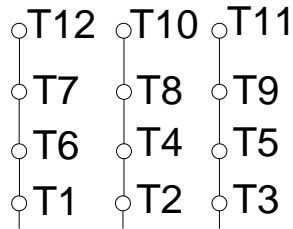
START

RUN

START

RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Customer:

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Three-phase induction motor
 Frame 405TS - IP23

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