



# 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 : 12512OT3G445T

List Price : \$12,753

#### Notes:

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# Dealers Industrial Equipment

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

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

Frame : 444/5T  
 Output : 125 HP  
 Frequency : 60 Hz  
 Poles : 6  
 Full load speed : 1185 rpm  
 Slip : 1.25 %  
 Voltage : 460 V  
 Rated current : 158 A  
 Locked rotor current : 1060 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.7  
 No-load current : 76.0 A  
 Full load torque : 547 lb.ft  
 Locked rotor torque : 240 %  
 Breakdown torque : 240 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 20 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 1740 lb  
 Moment of inertia : 70.899 sq.ft.lb  
 Noise level : 78 dB(A)

	D.E.	N.D.E.
Bearings	6319 C3	6316 C3
Regreasing interval	20000 h	20000 h
Grease amount	45 g	34 g

Load	Power factor	Efficiency (%)
100%	0.78	95.0
75%	0.72	95.0
50%	0.60	94.5

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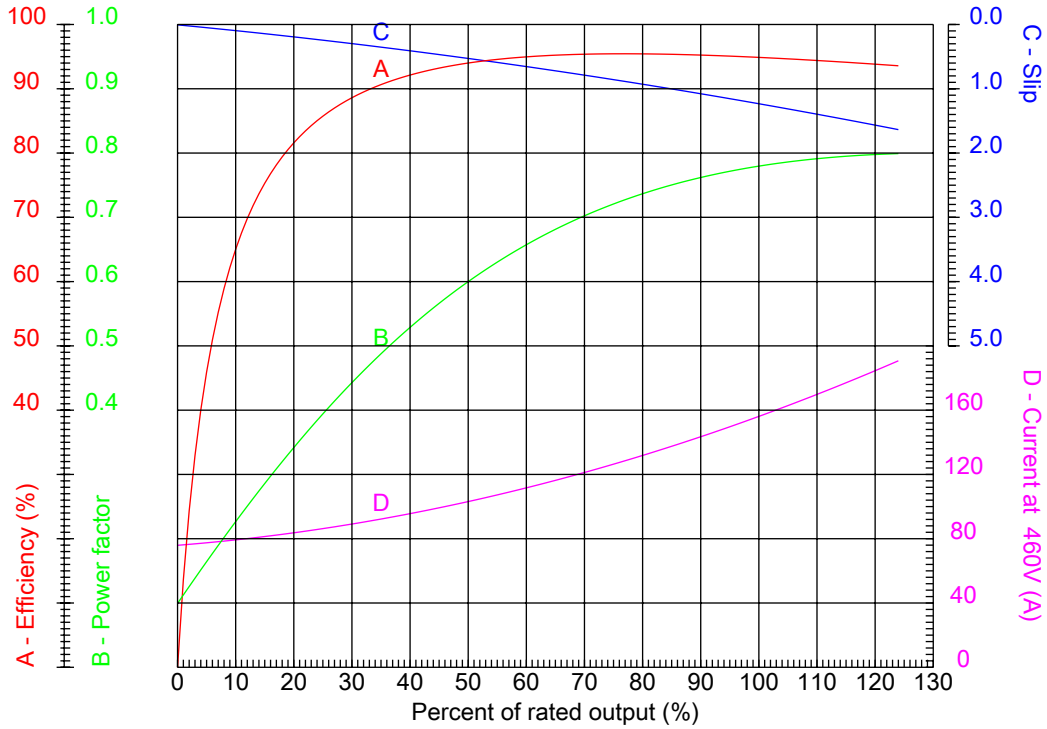
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame : 444/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) : 6.7
Output : 125 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 1185 rpm	Design : B
Voltage : 460 V	Locked rotor torque : 240 %
Rated current : 158 A	Breakdown torque : 240 %
Insulation class : F	

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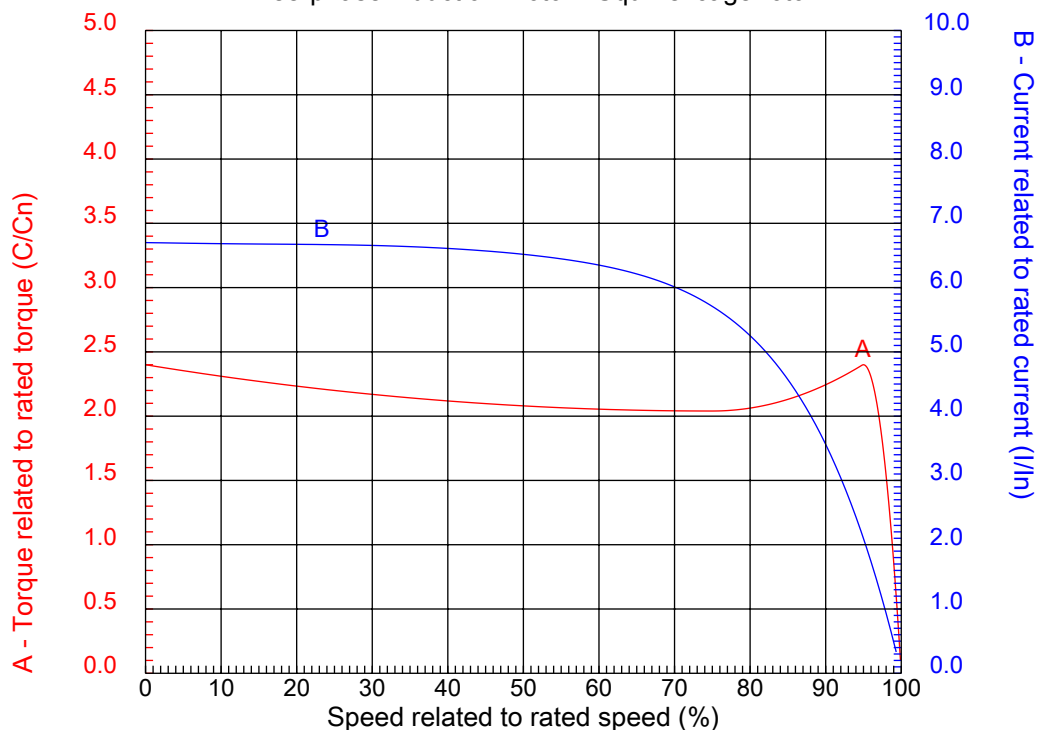
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 444/5T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.7
Output	: 125 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1185 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 240 %
Rated current	: 158 A	Breakdown torque	: 240 %
Insulation class	: F		

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Customer:

ODP – Open Induction Motors – NEMA Premium Efficiency

2E 18.000	J 3.937	A 21.929	P 22.125	AB 20.236
2F 14.500/16.500	K 5.590	B 20.078	BA 7.500	U 3.375
d1 DUNC 3/4"-10	N-W 8.500	ES 7.087	S 0.875	R 2.880
depth 0.875	D 11.000	G 1.811	O 22.440	T 3.544
H 0.807	C 39.803	AA 2xNPT 3"		

Three-phase induction motor  
 Frame 444/5T - IP23

28-SEP-2016



1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

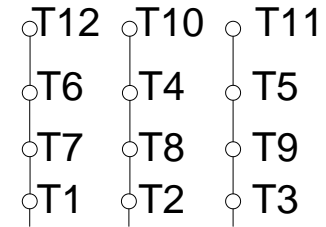
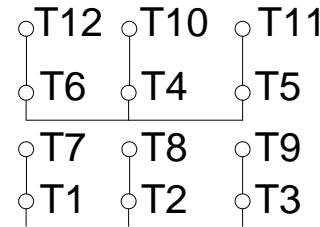
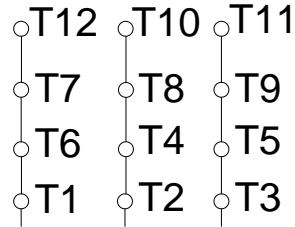
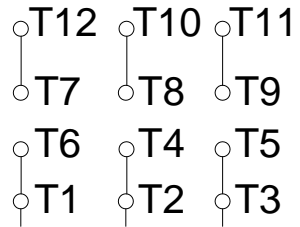
#### START

#### 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 444/5T - IP23

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