



# Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

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

Catalog Number : 45036OT3G447/9TS

List Price : \$>(discontinued)</span>

#### 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 : 447/9TS  
 Output : 450 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3565 rpm  
 Slip : 0.97 %  
 Voltage : 460 V  
 Rated current : 478 A  
 Locked rotor current : 3250 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.8  
 No-load current : 105 A  
 Full load torque : 654 lb.ft  
 Locked rotor torque : 180 %  
 Breakdown torque : 250 %  
 Design : A  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 14 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 2073 lb  
 Moment of inertia : 43.560 sq.ft.lb  
 Noise level : 87 dB(A)

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6314 C3	6314 C3	100%	0.90	96.2
Regreasing interval	14418 h	14418 h	75%	0.89	96.2
Grease amount	27 g	27 g	50%	0.84	95.8

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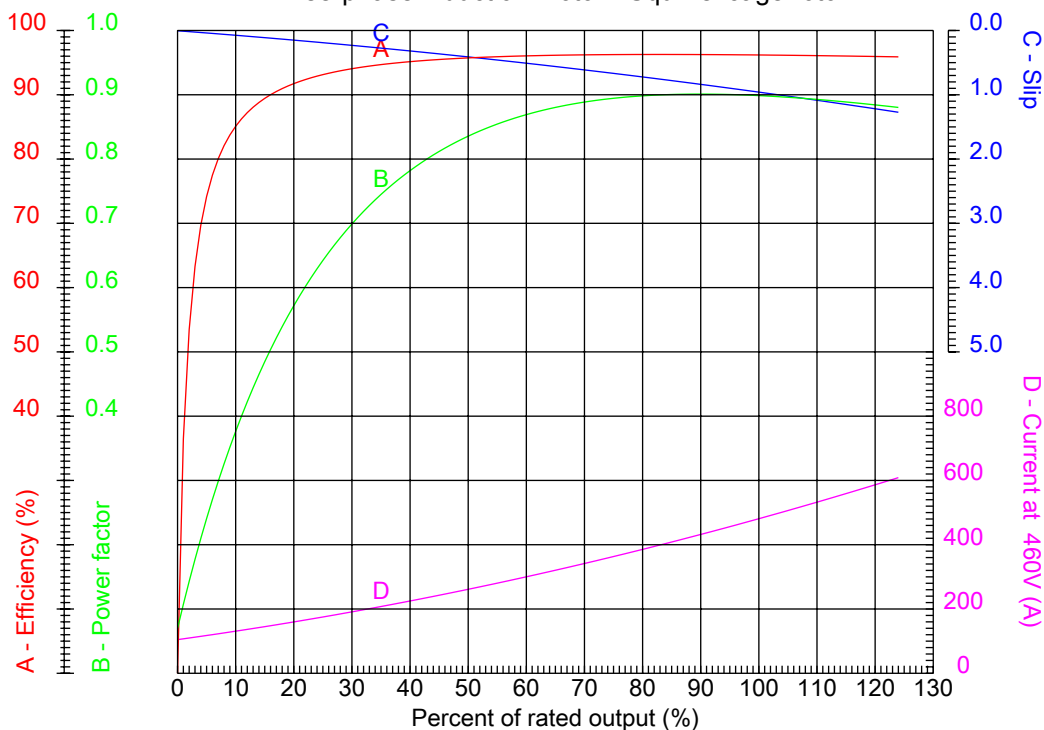
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 447/9TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.8
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3565 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 180 %
Rated current	: 478 A	Breakdown torque	: 250 %
Insulation class	: F		

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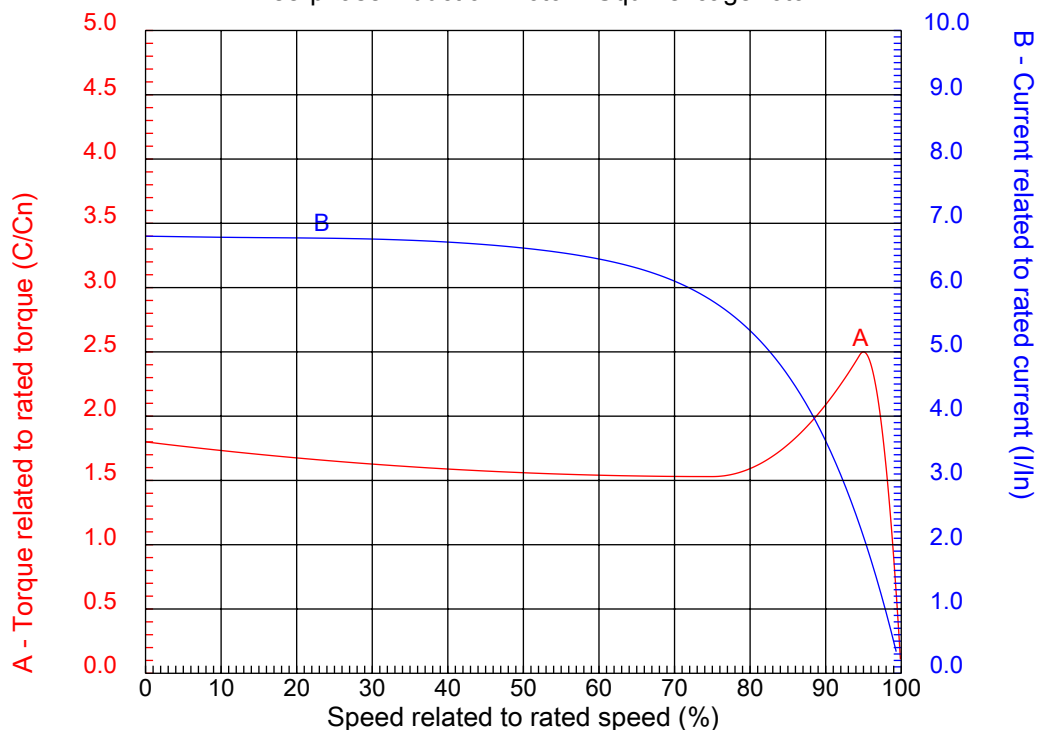
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 447/9TS	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.8
Output	: 450 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3565 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 180 %
Rated current	: 478 A	Breakdown torque	: 250 %
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 22.126	AB 23.464
2F 20.000/25.000	K 10.47	B 28.898	BA 7.500	U 2.375
d1 DUNC 3/4"-10	N-W 4.750	ES 3.000	S 0.625	R 2.019
depth 0.625	D 11.000	G 1.811	O 22.441	T 3.543
H 0.807	C 44.567	AA 2xNPT 3"	DM NPT 3/4"	

Three-phase induction motor  
 Frame 447/9TS - IP23

29-SEP-2016



1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

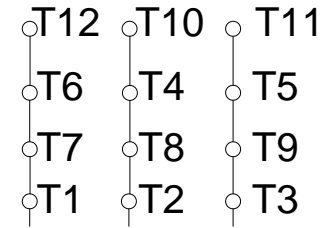
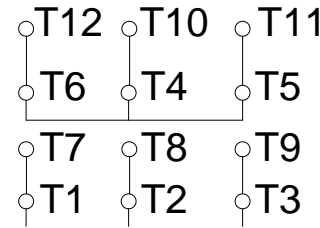
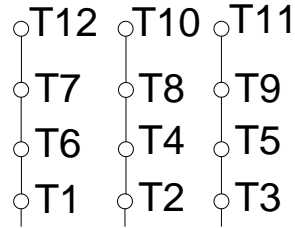
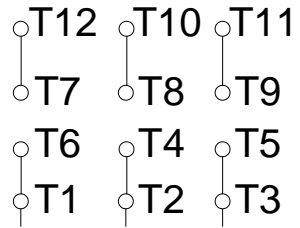
#### START

#### 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 447/9TS - IP23

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