



Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 30036XT3G449TS

List Price : \$48,747

Notes:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 449TS
 Output : 300 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3575 rpm
 Slip : 0.69 %
 Voltage : 460 V
 Rated current : 320 A
 Locked rotor current : 2690 A
 Locked rotor current (I_L/I_n) : 8.4
 No-load current : 81.3 A
 Full load torque : 435 lb.ft
 Locked rotor torque : 280 %
 Breakdown torque : 340 %
 Design : A
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 15 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 3308 lb
 Moment of inertia : 58.080 sq.ft.lb
 Noise level : 84 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%	0.90	95.8
75%	0.88	95.4
50%	0.82	94.5

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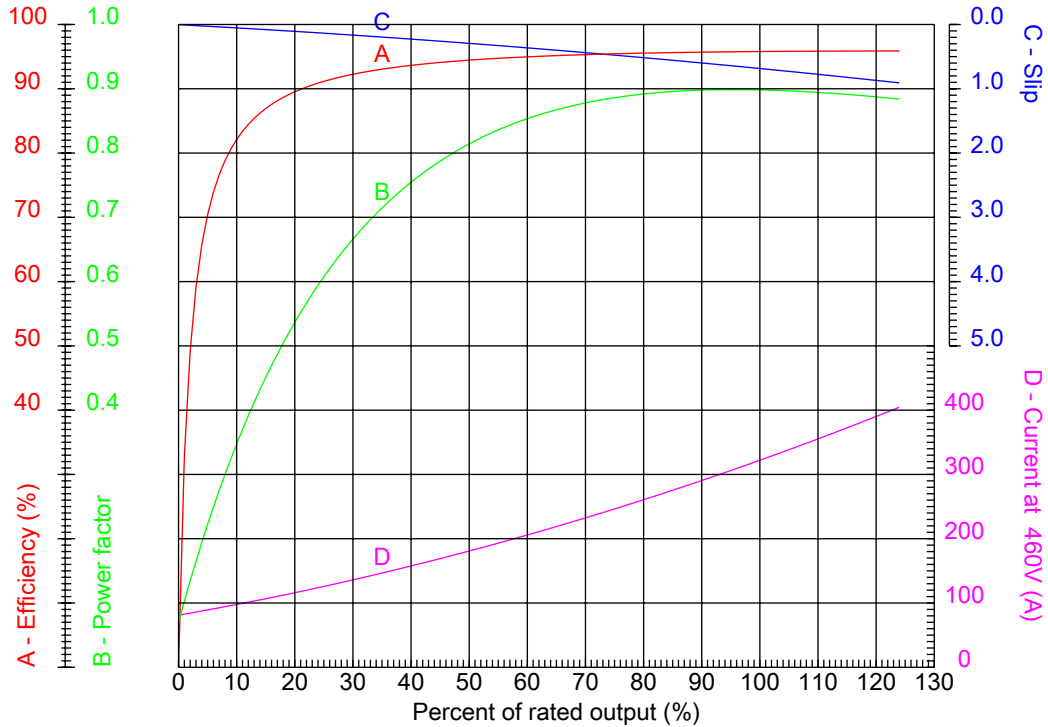
Dealers Industrial Equipment

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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 : 449TS	Locked rotor current (I _L /I _n) : 8.4
Output : 300 HP	Duty cycle : S1
Frequency : 60 Hz	Service factor : 1.15
Full load speed : 3575 rpm	Design : A
Voltage : 460 V	Locked rotor torque : 280 %
Rated current : 320 A	Breakdown torque : 340 %
Insulation class : F	

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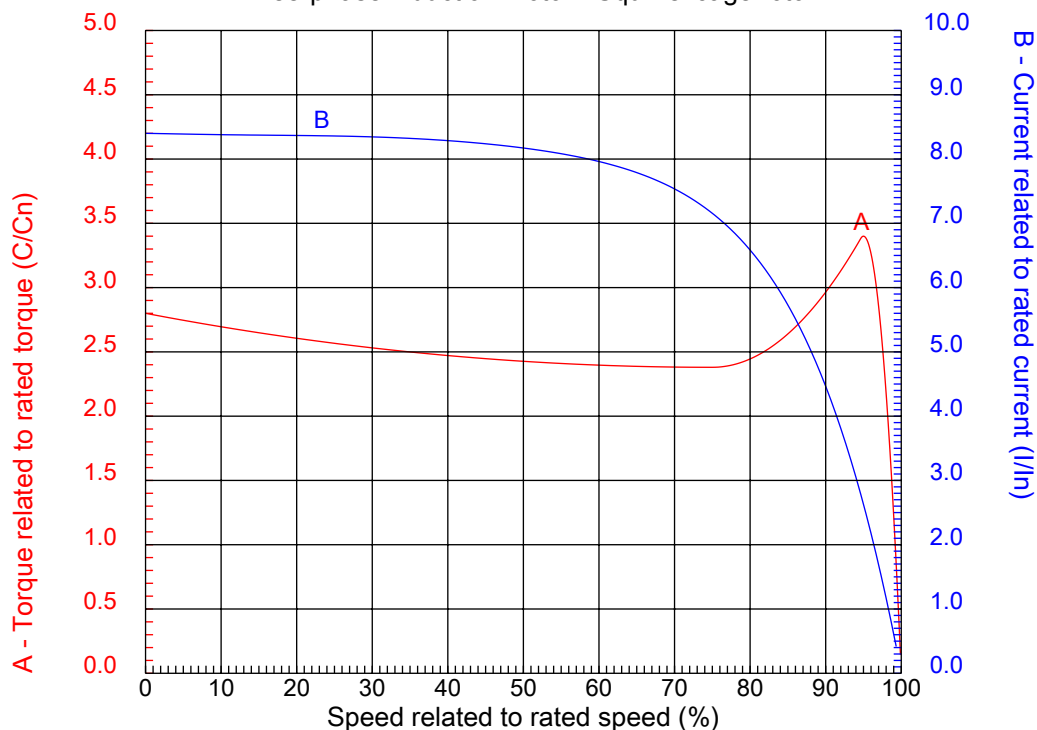
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 449TS	Locked rotor current (I _l /I _n)	: 8.4
Output	: 300 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 3575 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 280 %
Rated current	: 320 A	Breakdown torque	: 340 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

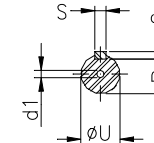
B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 449TS - IP55

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2E 18.000	A 21.929	2F 25.000	B 32.126	BA 7.500
J 3.937	K 7.104	P 24.016	ES 3.000	depth 0.625
S 0.625	N-W 4.750	U 2.375	R 2.021	AB 20.984
D 11.000	G 1.630	O 23.622	T 3.543	H 0.807
C 51.246	AA 2xNPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10	

1 2 3 4 5 6 7 8

A

PART-WINDING

WYE-DELTA

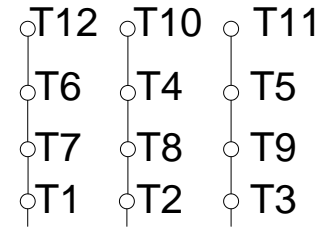
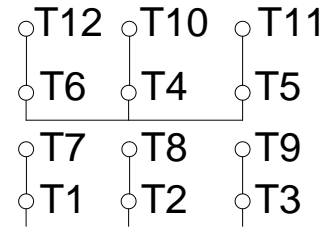
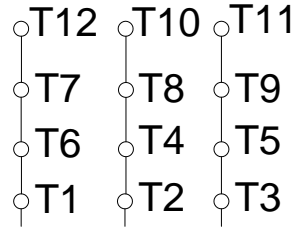
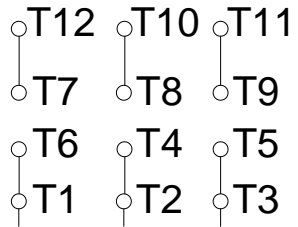
START

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:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
 Frame 449TS - IP55

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