



# Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : W22 NEMA Premium - Ball Bearings

Catalog Number : 15018ET3G445TC-W22

List Price : \$18,025

#### Notes:

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# Dealers Industrial Equipment

No.:

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

Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 444/5T  
Output : 150 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1780 rpm  
Slip : 1.11 %  
Voltage : 460 V  
Rated current : 170 A  
Locked rotor current : 1120 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
No-load current : 58.0 A  
Full load torque : 437 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 250 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 27 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 1676 lb  
Moment of inertia : 66.690 sq.ft.lb  
Noise level : 73 dB(A)

	D.E.	N.D.E.
Bearings	6319 C3	6316 C3
Regreasing interval	8000 h	10000 h
Grease amount	45 g	34 g

Load	Power factor	Efficiency (%)
100%	0.85	95.8
75%	0.82	95.8
50%	0.74	95.4

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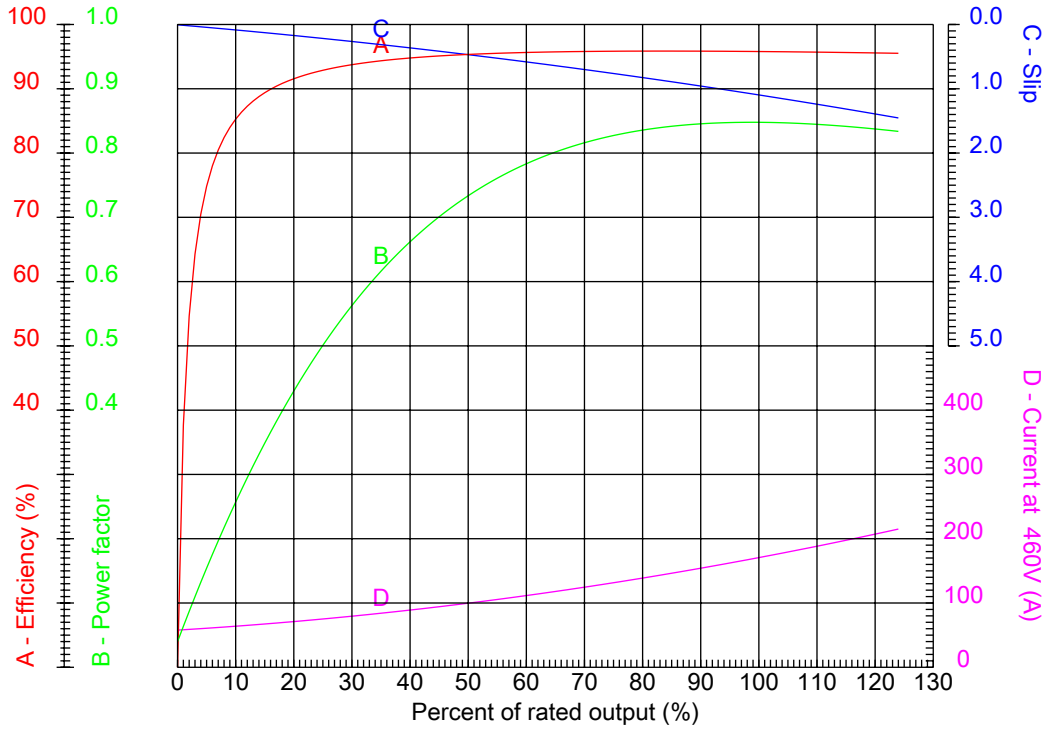
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame : 444/5T	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 : 1780 rpm	Design : B
Voltage : 460 V	Locked rotor torque : 200 %
Rated current : 170 A	Breakdown torque : 250 %
Insulation class : F	

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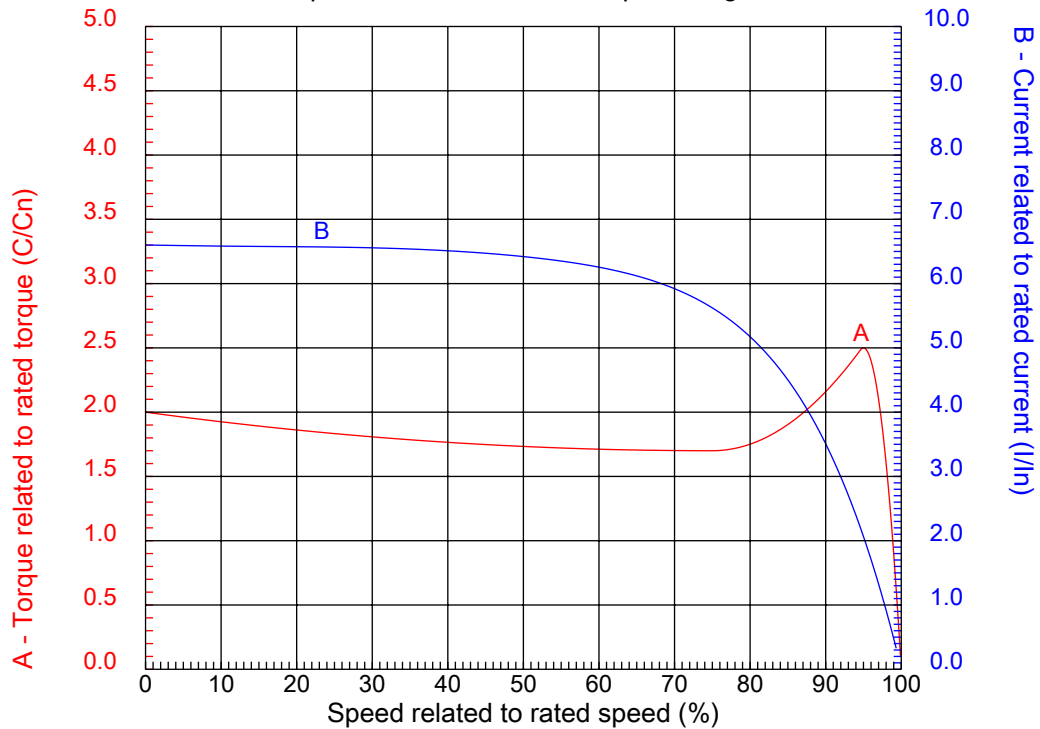
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



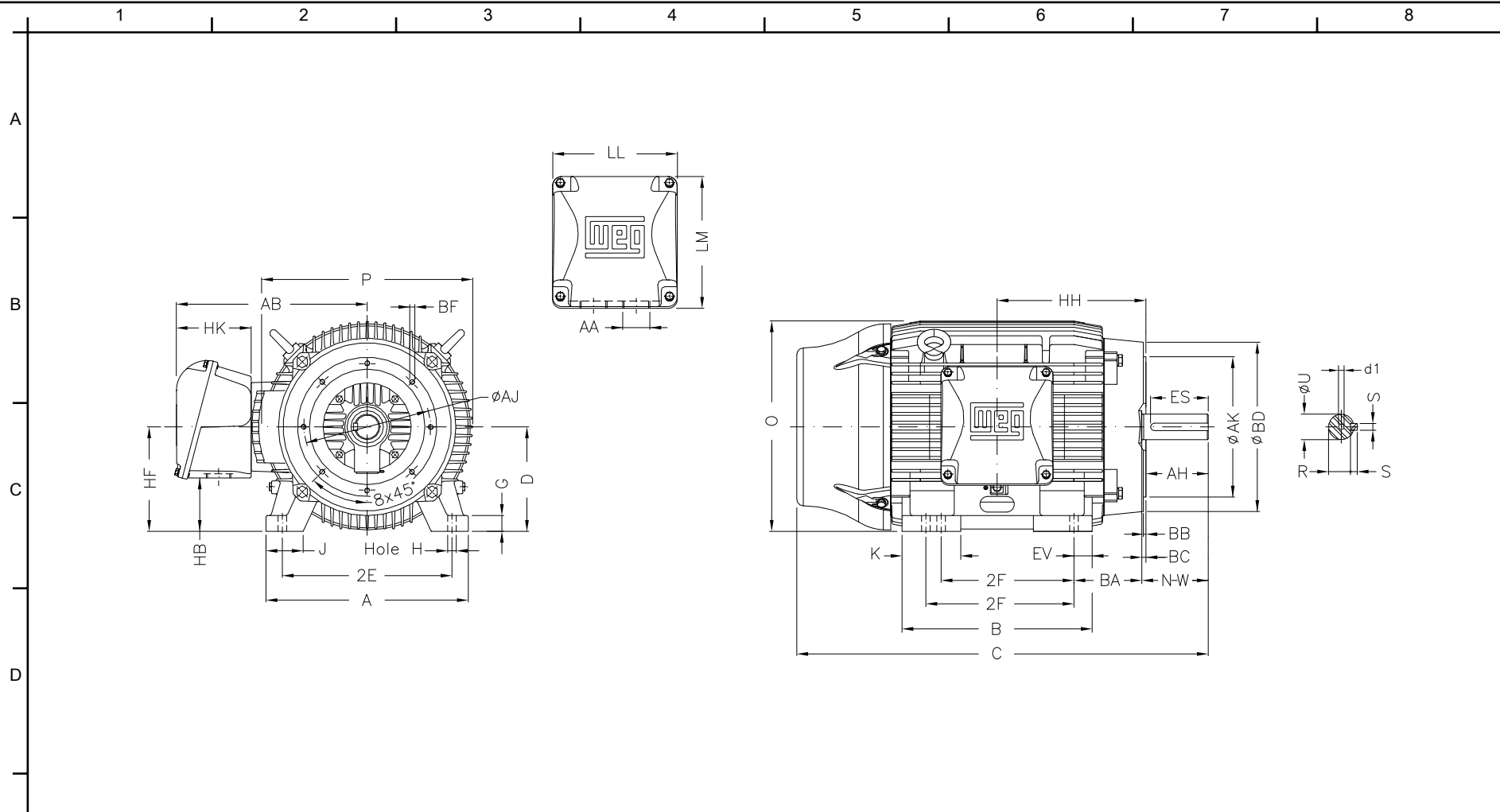
Customer :  
Product line : W22 NEMA Premium - Ball Bearings

Frame	: 444/5T	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	: 1780 rpm	Design	: B
Voltage	: 460 V	Locked rotor torque	: 200 %
Rated current	: 170 A	Breakdown torque	: 250 %
Insulation class	: F		

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E	2E 18.000	J 3.937	A 21.929	P 23.583	AB 18.570
	2F 14.500/16.500	K 5.866	B 20.315	BA 7.500	U 3.375
	N-W 8.500	ES 7.087	S 0.875	R 2.880	depth 0.875
	D 11.000	G 1.630	HB 5.687	O 22.795	HH 15.748
	HK 5.970	EV 1.929	H 0.810	C 45.157	LL 12.362
F	LM 12.283	AA 2xNPT 3"	d1 DUNC 3/4"-10	Flange FC-355	AJ 14.000
	AK 16.000	BD 17.913	BF UNC 5/8"x11	BB 0.250	BC 0.250
	AH 8.250				

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Customer:

W22 NEMA Premium - Ball Bearings

Three-phase induction motor  
 Frame 444/5T - IP55

28-SEP-2016



1 2 3 4 5 6 7 8

A

### PART-WINDING

### WYE-DELTA

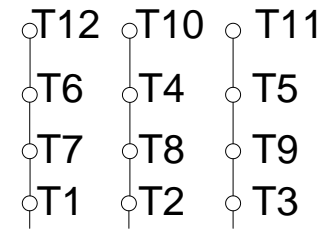
#### START

#### 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 444/5T - IP55

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