



# Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : W22 High Efficiency

Catalog Number : 00509EP3E254T-W22

List Price : \$2,703

#### Notes:

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# Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

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

Customer :  
Product line : W22 High Efficiency

Frame : 254T  
Output : 5 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 880 rpm  
Slip : 2.22 %  
Voltage : 230/460 V  
Rated current : 15.5/7.76 A  
Locked rotor current : 85.4/42.7 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.5  
No-load current : 10.0/5.00 A  
Full load torque : 29.4 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 260 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 33 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 243 lb  
Moment of inertia : 2.8972 sq.ft.lb  
Noise level : 54 dB(A)

	D.E.	N.D.E.
Bearings	6309 C3	6209 C3
Regreasing interval	20000 h	20000 h
Grease amount	13 g	9 g

Load	Power factor	Efficiency (%)
100%	0.70	85.5
75%	0.61	84.0
50%	0.48	82.5

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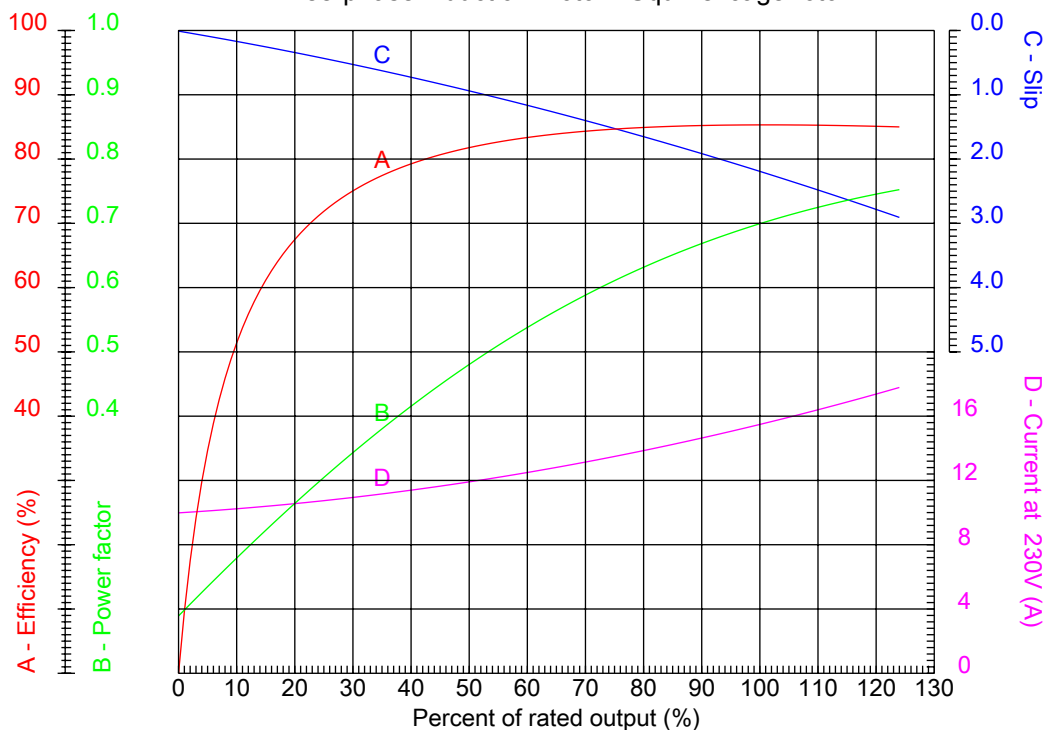
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 High Efficiency

Frame	: 254T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.5
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 880 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 200 %
Rated current	: 15.5/7.76 A	Breakdown torque	: 260 %
Insulation class	: F		

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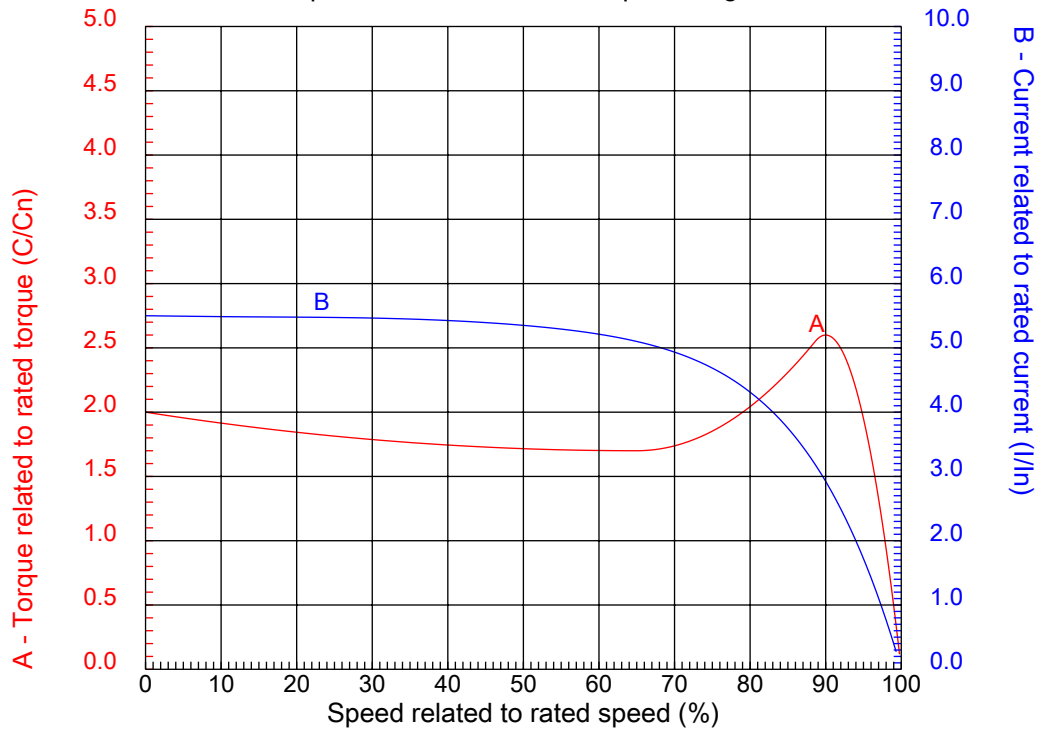
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



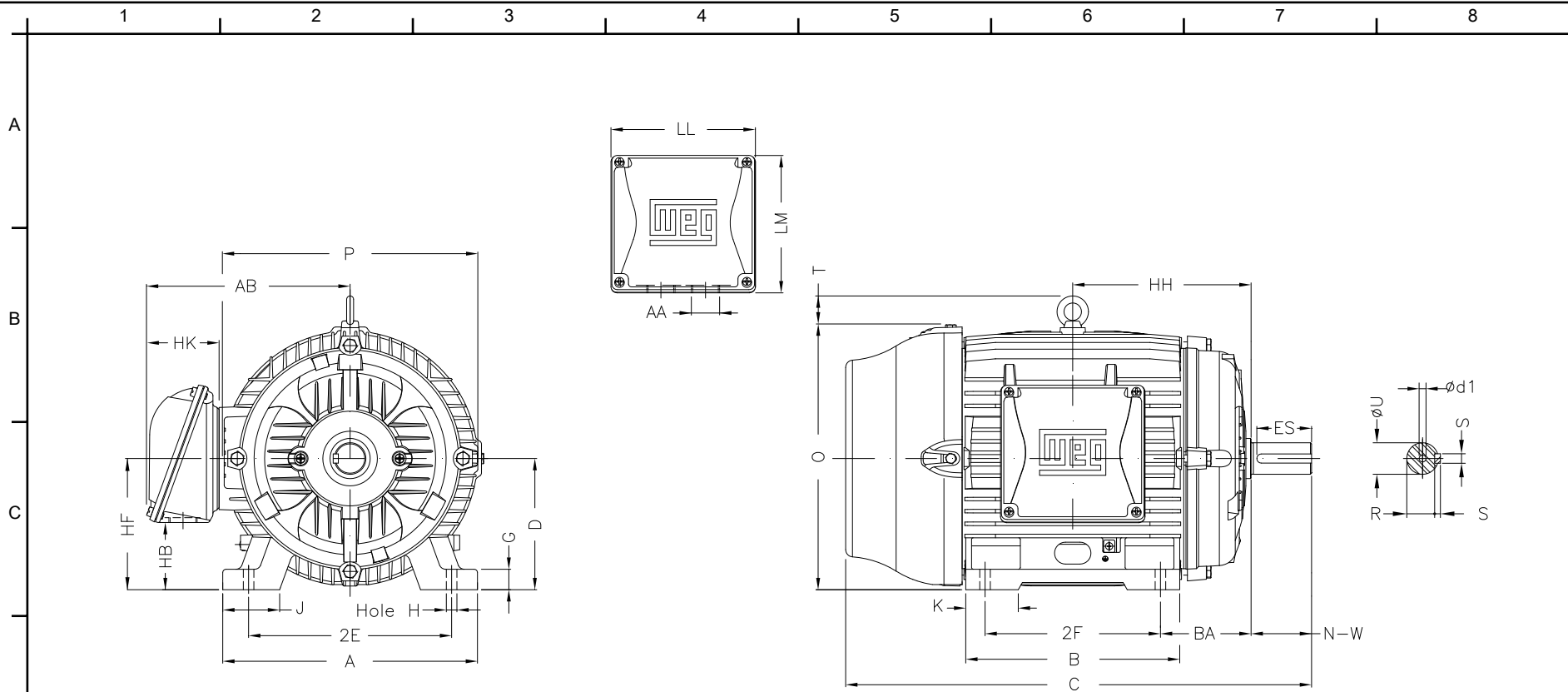
Customer :  
Product line : W22 High Efficiency

Frame	: 254T	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 5.5
Output	: 5 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 880 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 200 %
Rated current	: 15.5/7.76 A	Breakdown torque	: 260 %
Insulation class	: F		

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Customer:

W22 High Efficiency

Three-phase induction motor  
 Frame 254T - IP55

13-SEP-2016



	2E 10.000	J 2.539	A 12.126	P 12.953	AB 10.483
	2F 8.252	K 2.559	B 10.000	BA 4.250	FBA 6.852
	U 1.625	N-W 4.000	ES 2.756	S 0.375	R 1.416
F	depth 0.375	D 6.250	G 0.827	HB 3.061	O 12.598
	T 2.087	HF 6.565	HH 8.376	HK 3.976	H 0.531
	C 23.213	LL 7.815	LM 7.480	AA NPT 1 1/2"	d1 A 4

1 2 3 4 5 6 7 8

A

LOW VOLTAGE

HIGH VOLTAGE

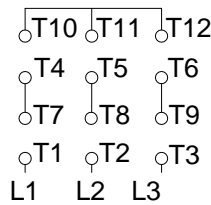
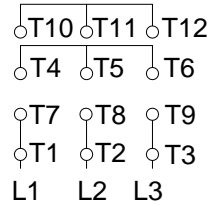


B

CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



C

D

E

F

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W22 High Efficiency

Three-phase induction motor  
Frame 254T - IP55

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