



# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : P-Base Motors : High Efficiency

Catalog Number : 01536EP3E254HP

List Price : \$2,345

#### Notes:

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Generated for Model #01536EP3E254HP

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# Dealers Industrial Equipment

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

Customer :  
Product line : P-Base Motors : High Efficiency

Frame : 254HP  
Output : 15 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3530 rpm  
Slip : 1.94 %  
Voltage : 230/460 V  
Rated current : 34.0/17.0 A  
Locked rotor current : 221/111 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.5  
No-load current : 9.20/4.60 A  
Full load torque : 22.0 lb.ft  
Locked rotor torque : 200 %  
Breakdown torque : 270 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 28 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 287 lb  
Moment of inertia : 1.0667 sq.ft.lb  
Noise level : 75 dB(A)

	D.E.	N.D.E.
Bearings	6311 C3	6209 C3
Regreasing interval	5758 h	9224 h
Grease amount	18 g	9 g

Load	Power factor	Efficiency (%)
100%	0.90	90.2
75%	0.87	90.2
50%	0.81	88.5

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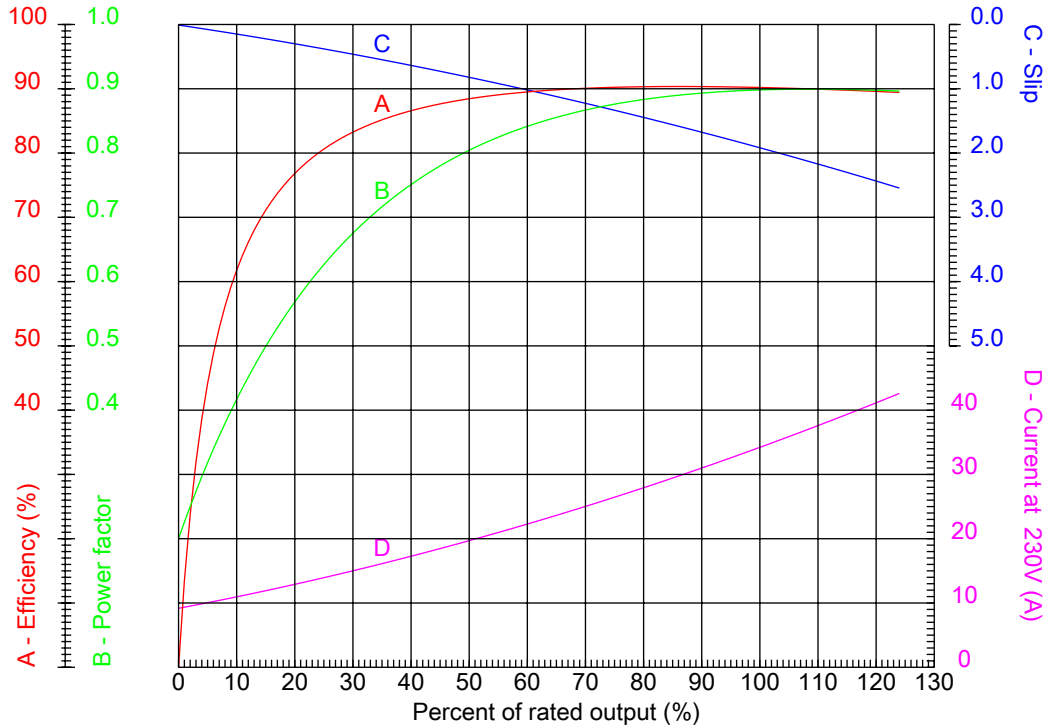
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : P-Base Motors : High Efficiency

Frame	: 254HP	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.5
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3530 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 200 %
Rated current	: 34.0/17.0 A	Breakdown torque	: 270 %
Insulation class	: F		

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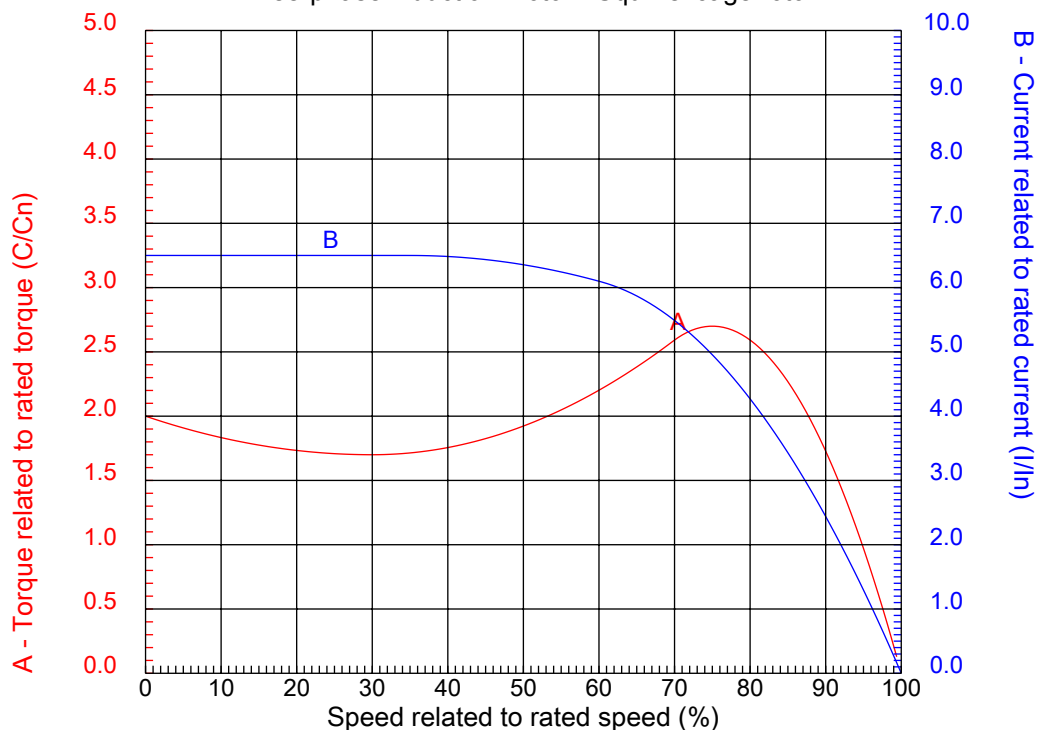
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : P-Base Motors : High Efficiency

Frame	: 254HP	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.5
Output	: 15 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3530 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 200 %
Rated current	: 34.0/17.0 A	Breakdown torque	: 270 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

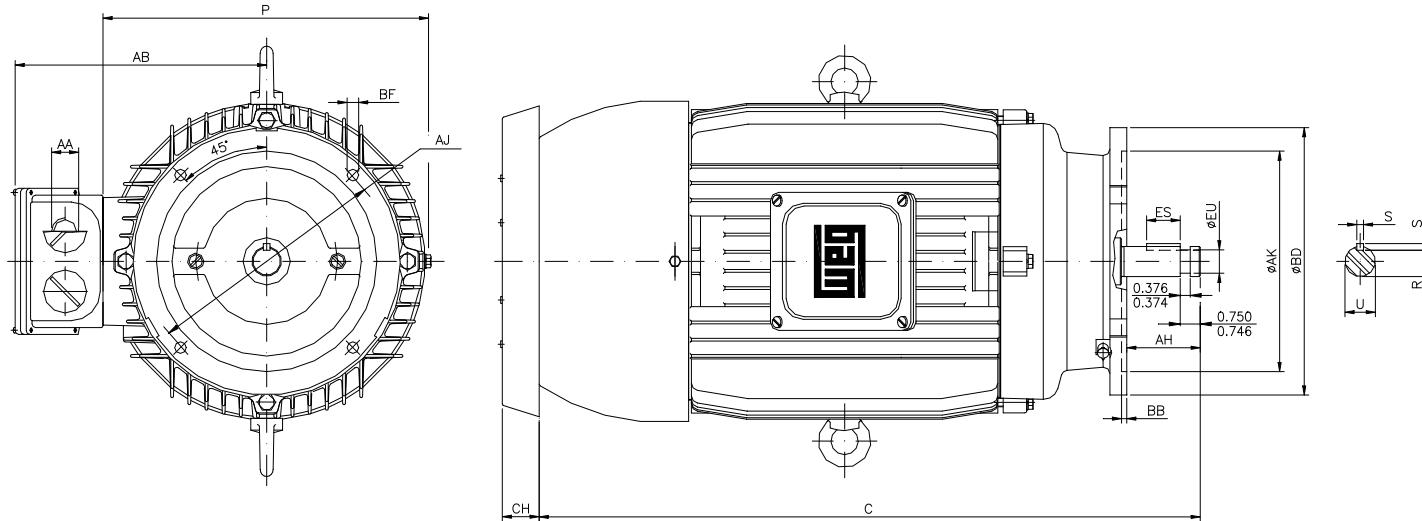
B

C

D

E

F



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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor  
Frame 254HP - IP55

23-SEP-2016



ES 1.250	S 0.250	EU 0.875	U 1.125	R 0.984
P 12.283	AH 2.750	AB 10.079	C 23.723	CH 1.850
AA NPT 1 1/2"	Flange D-254	AJ 9.125	AK 8.250	BD 10.000
BF 0.433	BB 0.196			

1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor  
Frame 254HP - IP55

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