



# 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 : 02536EP3E284HPH

List Price : \$3,454

#### Notes:

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Generated for Model #02536EP3E284HPH

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

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

Frame : 284HPH  
 Output : 25 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3525 rpm  
 Slip : 2.08 %  
 Voltage : 230/460 V  
 Rated current : 58.0/29.0 A  
 Locked rotor current : 360/180 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
 No-load current : 14.8/7.40 A  
 Full load torque : 36.7 lb.ft  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 23 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 304 lb  
 Moment of inertia : 2.2895 sq.ft.lb  
 Noise level : 75 dB(A)

	D.E.	N.D.E.
Bearings	6314 C3	6211 C3
Regreasing interval	3604 h	7113 h
Grease amount	27 g	11 g

Load	Power factor	Efficiency (%)
100%	0.88	91.0
75%	0.87	91.0
50%	0.84	90.2

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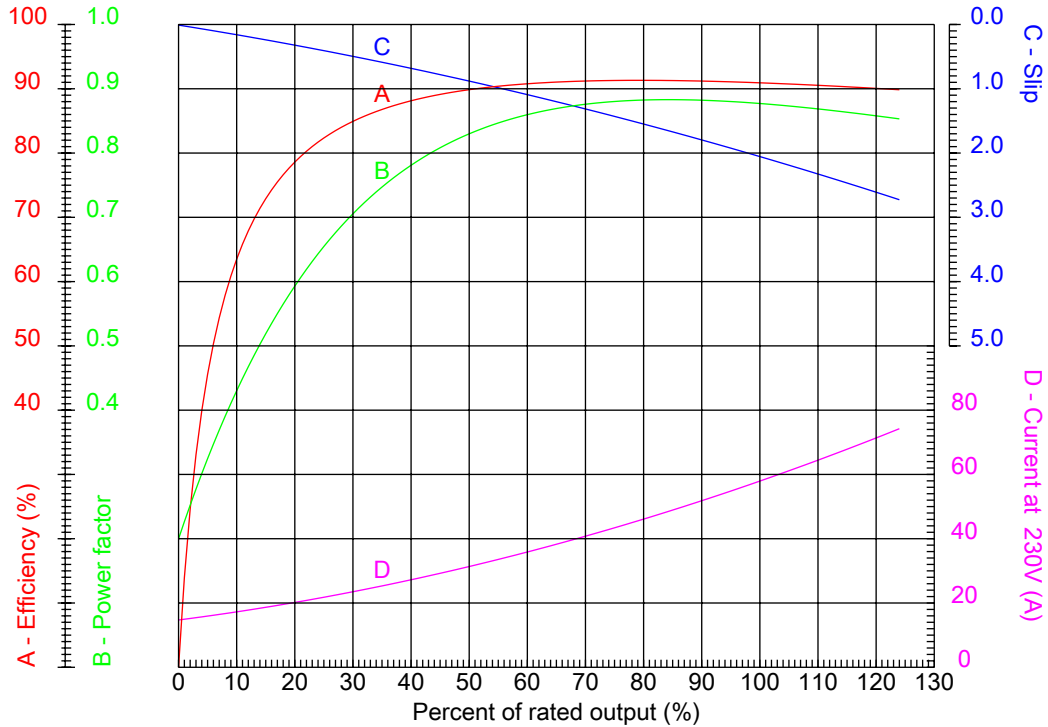
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 284HPH	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3525 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 200 %
Rated current	: 58.0/29.0 A	Breakdown torque	: 250 %
Insulation class	: F		

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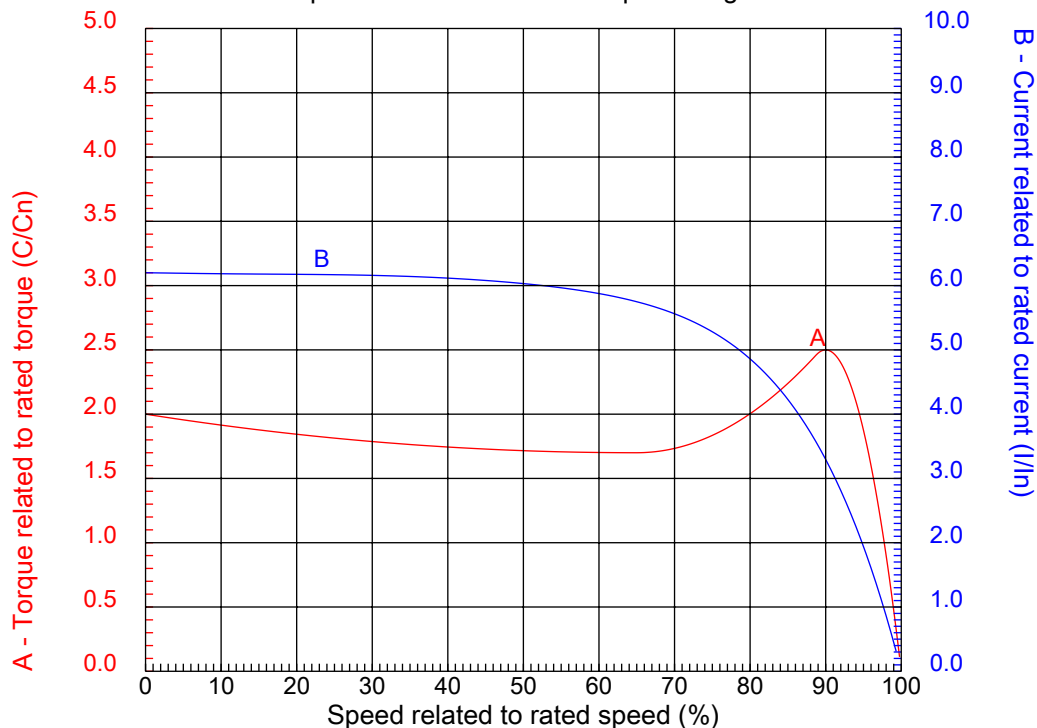
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

Frame	: 284HPH	Locked rotor current (I <sub>l</sub> /I <sub>n</sub> )	: 6.2
Output	: 25 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.25
Full load speed	: 3525 rpm	Design	: B
Voltage	: 230/460 V	Locked rotor torque	: 200 %
Rated current	: 58.0/29.0 A	Breakdown torque	: 250 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

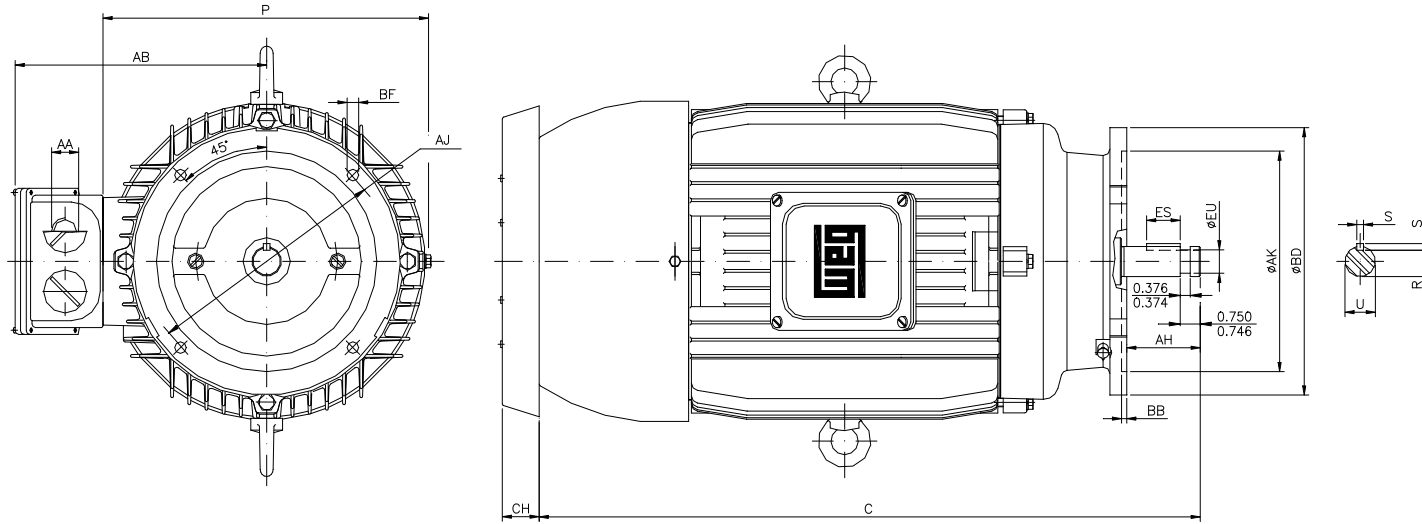
B

C

D

E

F



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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor  
Frame 284HPH - IP55

23-SEP-2016



ES 3.150	S 0.375	EU 1.250	U 1.625	R 1.415
P 14.094	AH 4.500	AB 10.866	C 28.100	CH 2.244
AA NPT 1 1/2"	Flange D-406	AJ 14.750	AK 13.500	BD 16.500
BF 0.687	BB 0.250			

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 284HPH - IP55

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