



## Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

### TECHNICAL PROPOSAL

## Three-phase induction motor - Squirrel cage rotor

Product line : P-Base Motors : High Efficiency

Catalog Number : 00236EP3E145HP

List Price : \$553

#### Notes:

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## Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

### DATA SHEET

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

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

Frame : 145HP  
Output : 2 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3480 rpm  
Slip : 3.33 %  
Voltage : 230/460 V  
Rated current : 5.20/2.60 A  
Locked rotor current : 48.9/24.4 A  
Locked rotor current (I<sub>L</sub>/I<sub>N</sub>) : 9.4  
No-load current : 2.24/1.12 A  
Full load torque : 2.98 lb.ft  
Locked rotor torque : 280 %  
Breakdown torque : 400 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 12 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 44 lb  
Moment of inertia : 0.04888 sq.ft.lb  
Noise level : 68 dB(A)

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6307 ZZ | 6204 ZZ |
| Regreasing interval | ---     | ---     |
| Grease amount       | ---     | ---     |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.86         | 84.0           |
| 75%  | 0.81         | 82.5           |
| 50%  | 0.70         | 80.0           |

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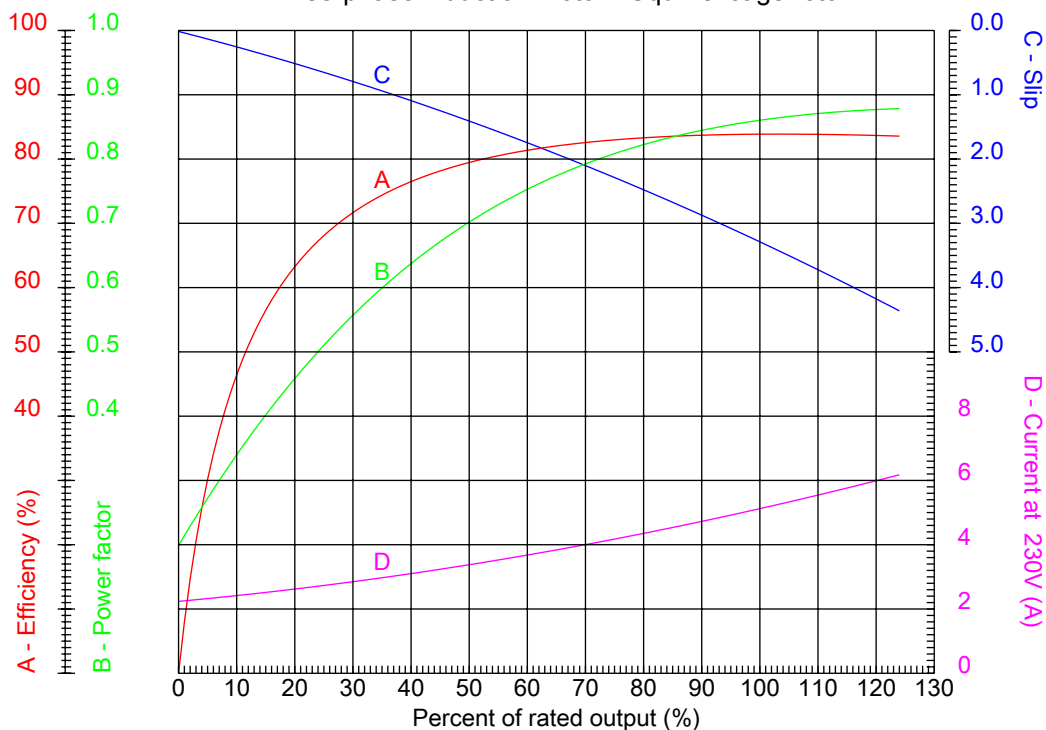
## Dealers Industrial Equipment

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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

|                  |               |                                                        |         |
|------------------|---------------|--------------------------------------------------------|---------|
| Frame            | : 145HP       | Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) | : 9.4   |
| Output           | : 2 HP        | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz       | Service factor                                         | : 1.25  |
| Full load speed  | : 3480 rpm    | Design                                                 | : B     |
| Voltage          | : 230/460 V   | Locked rotor torque                                    | : 280 % |
| Rated current    | : 5.20/2.60 A | Breakdown torque                                       | : 400 % |
| Insulation class | : F           |                                                        |         |

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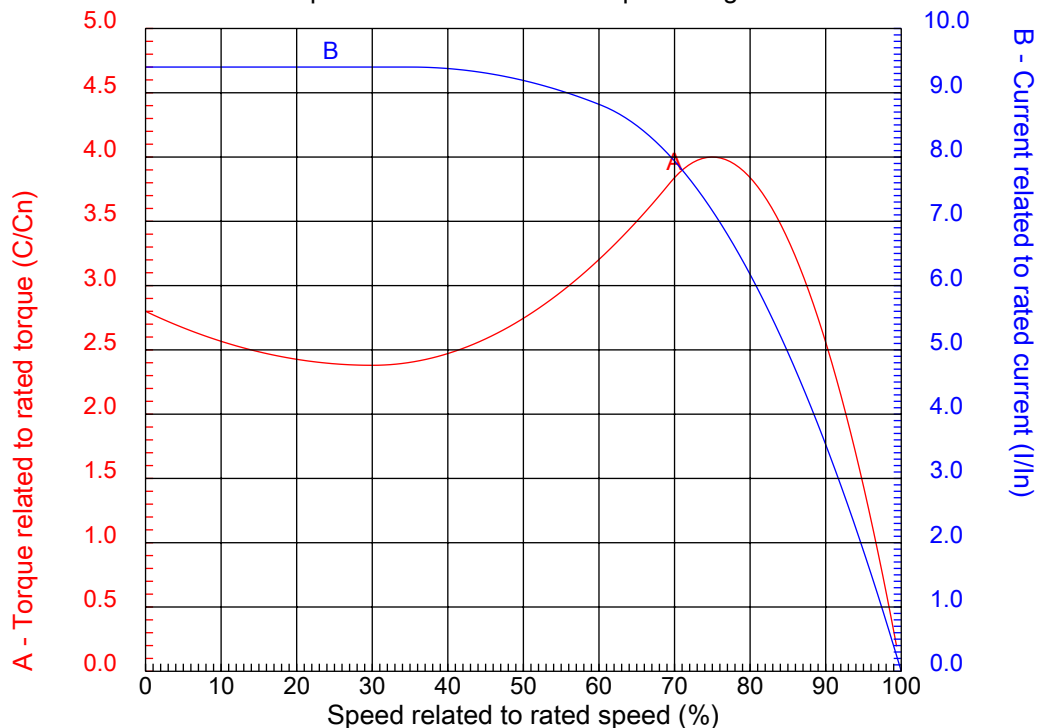
## Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

|                  |               |                                                        |         |
|------------------|---------------|--------------------------------------------------------|---------|
| Frame            | : 145HP       | Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) | : 9.4   |
| Output           | : 2 HP        | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz       | Service factor                                         | : 1.25  |
| Full load speed  | : 3480 rpm    | Design                                                 | : B     |
| Voltage          | : 230/460 V   | Locked rotor torque                                    | : 280 % |
| Rated current    | : 5.20/2.60 A | Breakdown torque                                       | : 400 % |
| Insulation class | : F           |                                                        |         |

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1 2 3 4 5 6 7 8

A

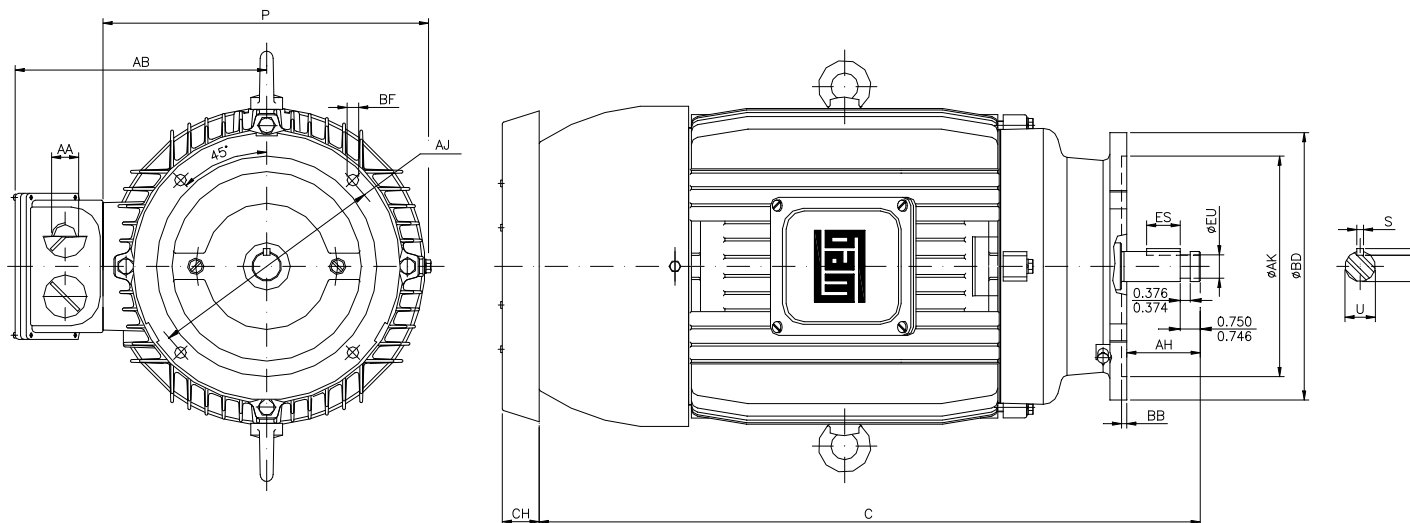
B

C

D

E

F



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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor  
Frame 145HP - IP55

12-SEP-2016



|                |                 |             |             |              |
|----------------|-----------------|-------------|-------------|--------------|
| ES<br>1.250    | S<br>0.187      | EU<br>0.687 | U<br>0.875  | R<br>0.771   |
| P<br>7.047     | AH<br>2.750     | AB<br>6.102 | C<br>14.397 | CH<br>0.708  |
| AA<br>NPT 3/4" | Flange<br>D-254 | AJ<br>9.125 | AK<br>8.250 | BD<br>10.000 |
| BF<br>0.433    | BB<br>0.196     |             |             |              |

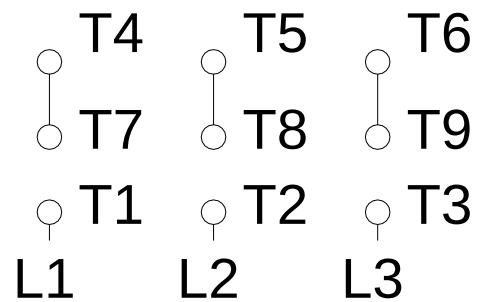
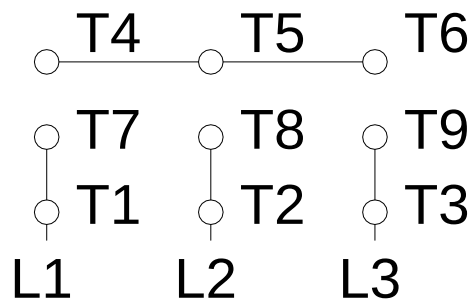
1 2 3 4 5 6 7 8

A

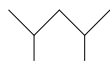
## LOW VOLTAGE

## HIGH VOLTAGE

B



C



D

E

F

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Customer:

P-Base Motors : High Efficiency

Three-phase induction motor  
Frame 145HP - IP55

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