



No.:

Date: 26-DEC-2012

Customer :

TECHNICAL PROPOSAL  
Single-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump : Single-Phase - "JP" Type - TEFC - Standard Efficiency

Catalog Number : 00218ES1E145JP

List Price : \$814

Notes:

Performed by:

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## DATA SHEET

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

Customer :  
Product line : Close Coupled Pump : Single-Phase - "JP" Type - TEFC - Standard Efficiency

Frame : 145JP  
Output : 2 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1740  
Slip : 3.33 %  
Voltage : 208-230/460 V  
Rated current : 8.40/4.20 A  
Locked rotor current : 60.5/30.2 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.2  
No-load current : 3.00/1.50 A  
Full load torque : 5.96 lb.ft  
Locked rotor torque : 230 %  
Breakdown torque : 230 %  
Design : ---  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 6 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP55  
Approximate weight : 53 lb  
Moment of inertia : 0.15662 sq.ft.lb  
Noise level : 55 dB(A)

|                     | D.E.    | N.D.E.  | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings            | 6206 ZZ | 6203 ZZ | 100% | 0.95         | 80.0           |
| Regreasing interval | ---     | ---     | 75%  | 0.91         | 78.5           |
| Grease amount       | ---     | ---     | 50%  | 0.88         | 74.0           |

Notes:

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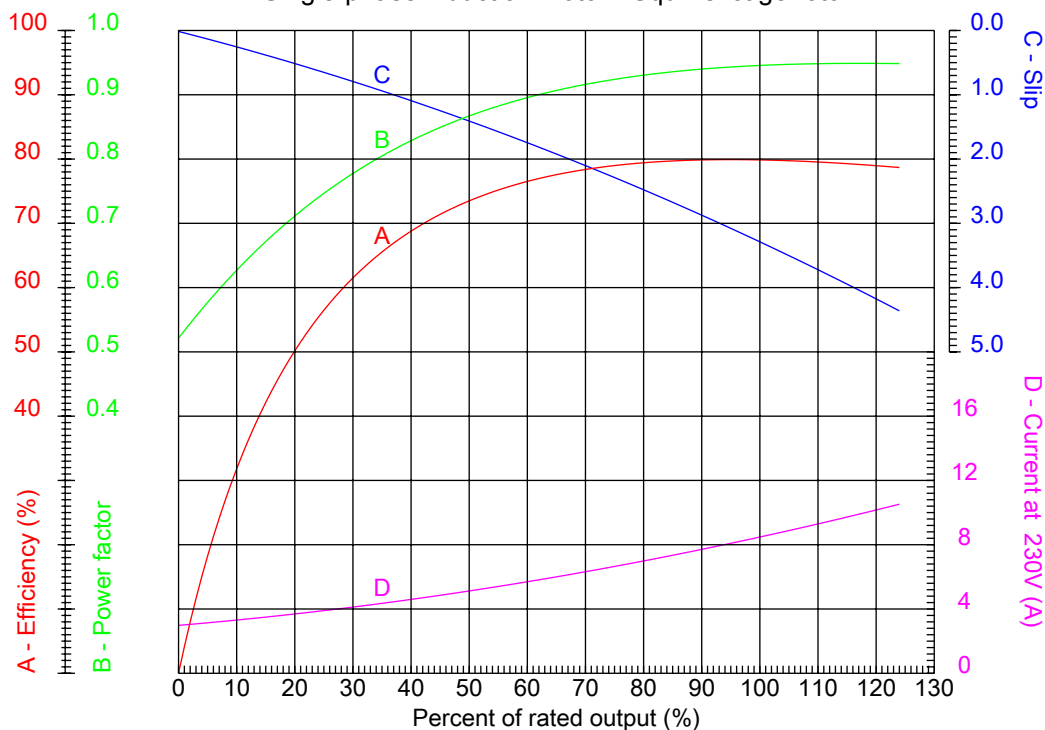
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### PERFORMANCE CURVES RELATED TO RATED OUTPUT Single-phase induction motor - Squirrel cage rotor



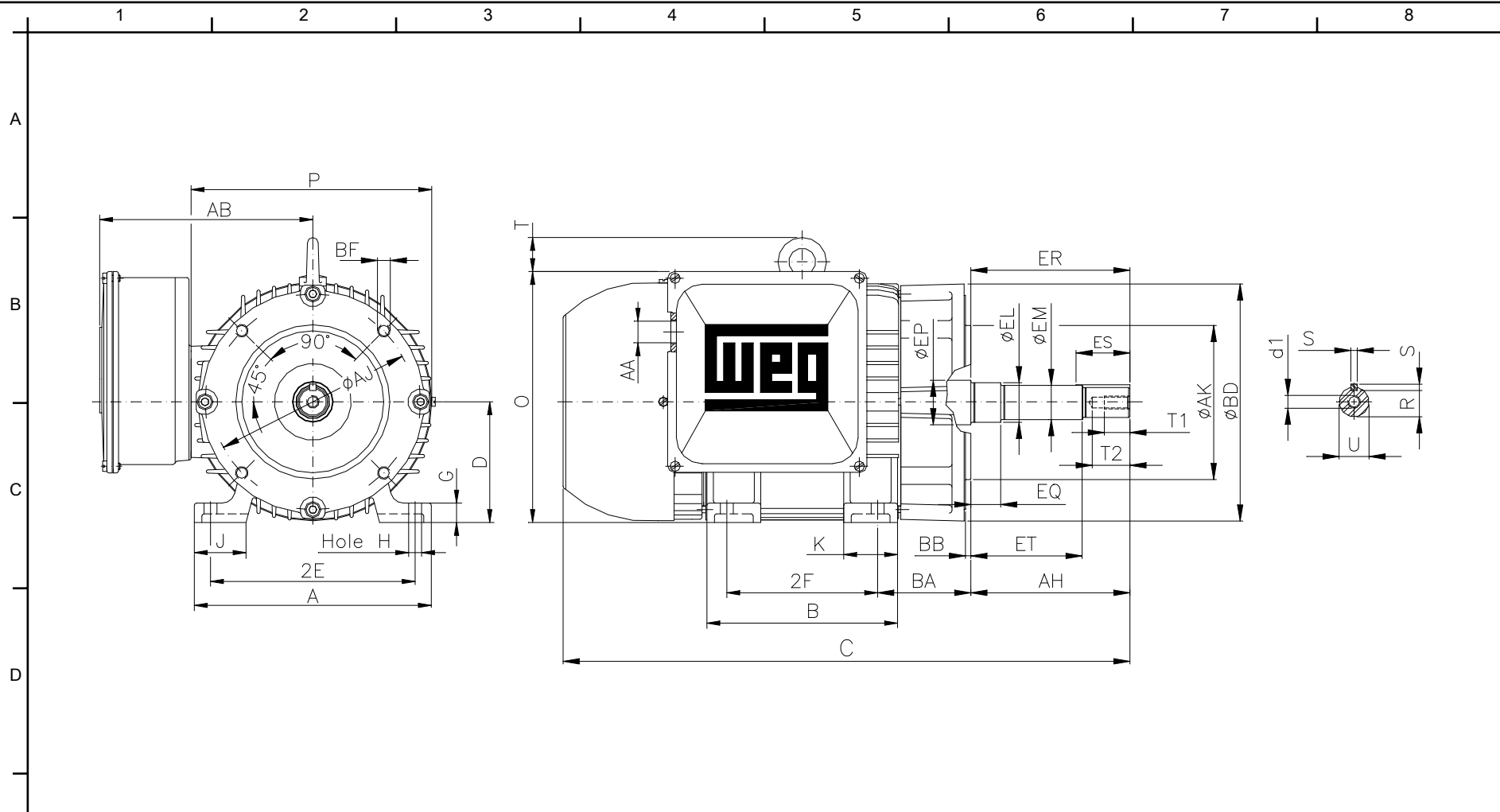
Customer :  
Product line : Close Coupled Pump : Single-Phase - "JP" Type - TEFC - Standard Efficiency

|                  |                 |  |         |
|------------------|-----------------|--|---------|
| Frame            | : 145JP         | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.2   |
| Output           | : 2 HP          | Duty cycle   | : S1    |
| Frequency        | : 60 Hz         | Service factor   | : 1.15  |
| Full load speed  | : 1740          | Design   | : ---   |
| Voltage          | : 208-230/460 V | Locked rotor torque                                    | : 230 % |
| Rated current    | : 8.40/4.20 A   | Breakdown torque                                       | : 230 % |
| Insulation class | : F             |  |         |

Notes:

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|   |             |             |                   |                  |                   |
|---|-------------|-------------|-------------------|------------------|-------------------|
| E | 2E<br>5.500 | 2F<br>5.000 | H<br>0.344        | BA<br>2.560      | A<br>6.457        |
|   | B<br>6.142  | D<br>3.500  | G<br>0.547        | J<br>1.496       | K<br>1.654        |
|   | O<br>7.000  | P<br>7.047  | AB<br>6.968       | AA<br>NPT 3/4    | ER<br>7.319       |
|   | EQ<br>1.563 | ET<br>5.941 | U<br>0.874        | EM<br>1.000      | EL<br>1.156       |
|   | EP<br>1.179 | S<br>0.187  | R<br>0.768        | ES<br>1.575      | d1<br>EUNC 3/8-16 |
| F | t1<br>0.748 | t2<br>1.102 | C<br>19.519       | Flange<br>FC-149 | AJ<br>5.874       |
|   | AK<br>4.500 | BD<br>6.496 | BF<br>UNC 3/8"x16 | BB<br>0.157      | BC                |
|   | AH          |             |                   |                  |                   |

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Close Coupled Pump : Single-Phase - "JP" Type - TEFC - Standard Efficiency

Single-phase induction motor  
Frame 145JP - IP55

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