



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency - Vertical Motors  
Catalog Number : 00158OP3E145JMV  
List Price : \$554

Notes:  
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Generated for Model #00158OP3E145JMV

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

Customer :  
 Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency - Vertical Motors

Frame : E143/5JM  
 Output : 1.5 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1730 rpm  
 Slip : 3.89 %  
 Voltage : 230/460 V  
 Rated current : 4.20/2.10 A  
 Locked rotor current : 32.8/16.4 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.8  
 No-load current : 2.40/1.20 A  
 Full load torque : 4.49 lb.ft  
 Locked rotor torque : 300 %  
 Breakdown torque : 300 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 15 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP21  
 Approximate weight : 42 lb  
 Moment of inertia : 0.14238 sq.ft.lb  
 Noise level : ---

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6206 ZZ | 6204 ZZ |
| Regreasing interval | ---     | ---     |
| Grease amount       | ---     | ---     |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.79         | 84.0           |
| 75%  | 0.70         | 84.0           |
| 50%  | 0.57         | 82.5           |

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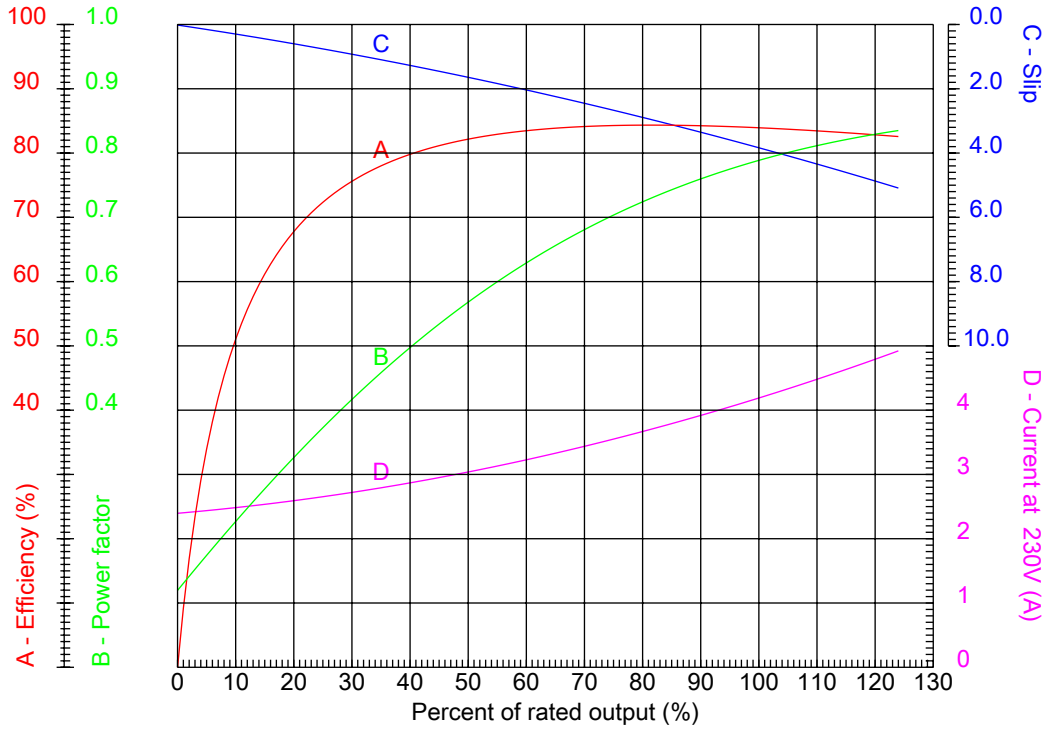
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency - Vertical Motors

|                  |               |  |         |
|------------------|---------------|--|---------|
| Frame            | : E143/5JM    | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.8   |
| Output           | : 1.5 HP      | Duty cycle   | : S1    |
| Frequency        | : 60 Hz       | Service factor   | : 1.15  |
| Full load speed  | : 1730 rpm    | Design   | : B     |
| Voltage          | : 230/460 V   | Locked rotor torque                                    | : 300 % |
| Rated current    | : 4.20/2.10 A | Breakdown torque                                       | : 300 % |
| Insulation class | : F           |  |         |

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|              |         |
|--------------|---------|
| Performed by | Checked |
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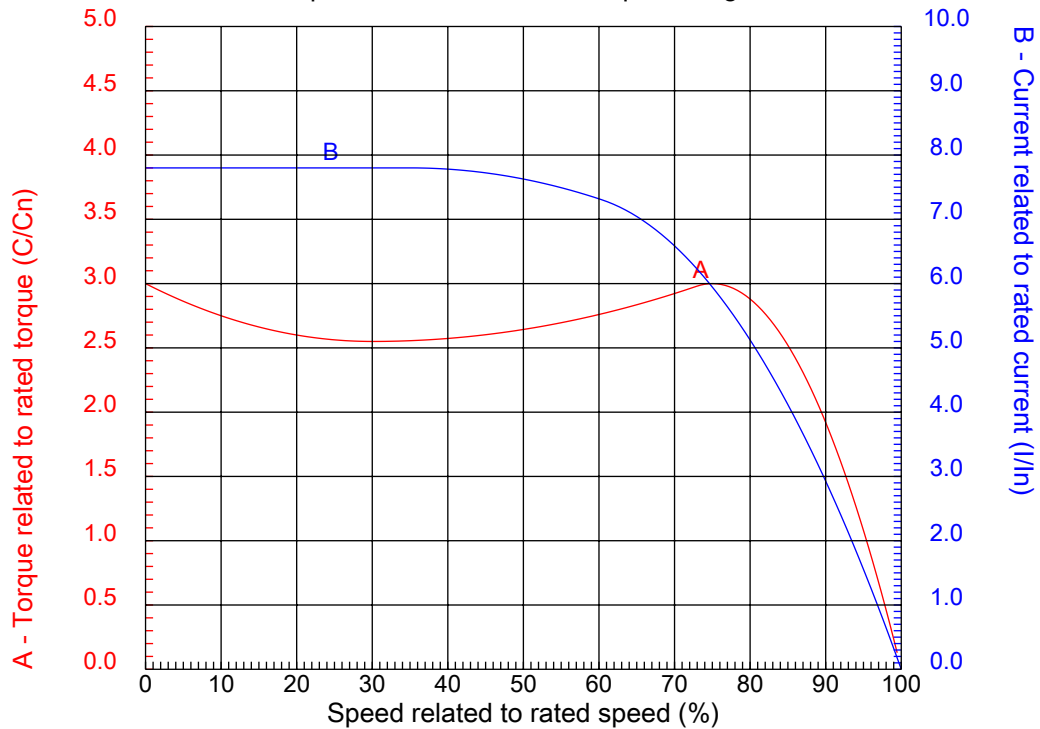
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



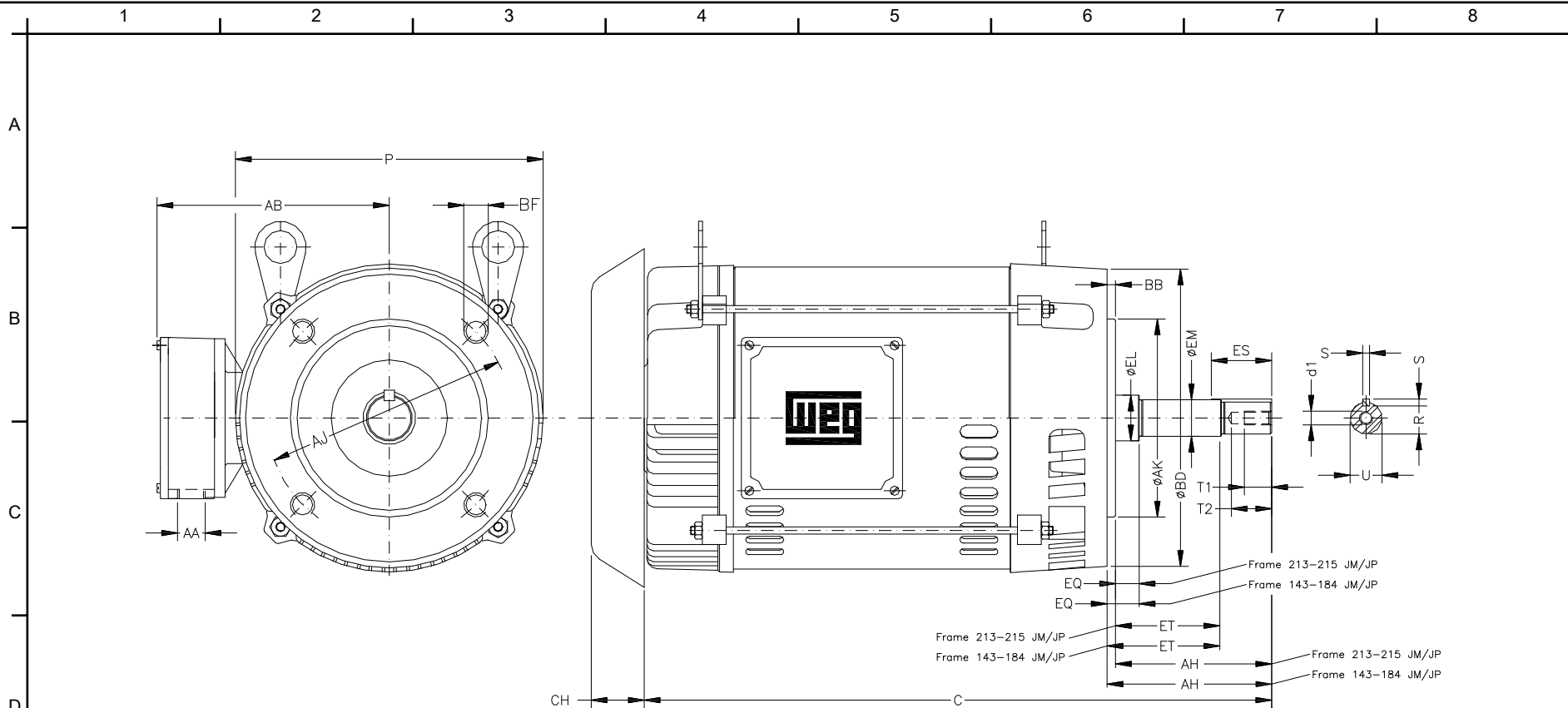
Customer :  
Product line : Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency - Vertical Motors

|                  |               |  |         |
|------------------|---------------|--|---------|
| Frame            | : E143/5JM    | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.8   |
| Output           | : 1.5 HP      | Duty cycle   | : S1    |
| Frequency        | : 60 Hz       | Service factor   | : 1.15  |
| Full load speed  | : 1730 rpm    | Design   | : B     |
| Voltage          | : 230/460 V   | Locked rotor torque                                    | : 300 % |
| Rated current    | : 4.20/2.10 A | Breakdown torque                                       | : 300 % |
| Insulation class | : F           |  |         |

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Customer:

Close Coupled Pump : Three-Phase - "JM" Type - ODP - High Efficiency -

|        |              |            |       |             |
|--------|--------------|------------|-------|-------------|
| P      | AB           | AA         | EQ    | ET          |
| 6.535  | 5.433        | 2xNPT 1/2" | 0.630 | 2.880       |
| U      | EM           | EL         | S     | R           |
| 0.8744 | 1.000        | 1.156      | 0.187 | 0.768       |
| ES     | d1           | t1         | t2    | C           |
| 1.653  | DUNC 3/8"-16 | 0.748      | 1.102 | 14.055      |
| Flange | AJ           | AK         | BD    | BF          |
| FC-149 | 5.874        | 4.500      | 6.535 | UNC 3/8"x16 |
| BB     | AH           |            |       |             |
| 0.157  | 4.258        |            |       |             |

Three-phase induction motor  
 Frame E143/5JM - IP21

12-SEP-2016



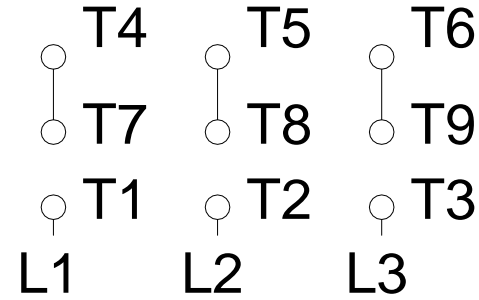
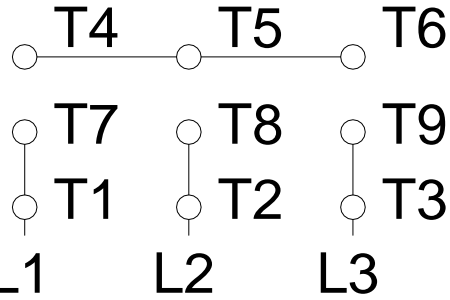
1 2 3 4 5 6 7 8

A

### LOW VOLTAGE

### HIGH VOLTAGE

B



C

D

E

F

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 Frame E143/5JM - IP21

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