



Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W01 (Rolled Steel) Close Coupled Pump TEFC - JM Type

Catalog Number : 01036ET3E215JM-SG

List Price : \$2,001

Notes:

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

Customer :  
Product line : W01 (Rolled Steel) Close Coupled Pump TEFC - JM Type

Frame : 213/5JM  
Output : 10 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3530 rpm  
Slip : 1.94 %  
Voltage : 208-230/460 V  
Rated current : 25.4-23.0/11.5 A  
Locked rotor current : 173/86.3 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.5  
No-load current : 7.53/3.77 A  
Full load torque : 14.7 lb.ft  
Locked rotor torque : 260 %  
Breakdown torque : 300 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 12 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 161 lb  
Moment of inertia : 0.71878 sq.ft.lb  
Noise level : 70 dB(A)

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6209 ZZ | 6206 ZZ |
| Regreasing interval | ---     | ---     |
| Grease amount       | ---     | ---     |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.91         | 90.2           |
| 75%  | 0.88         | 90.2           |
| 50%  | 0.80         | 89.5           |

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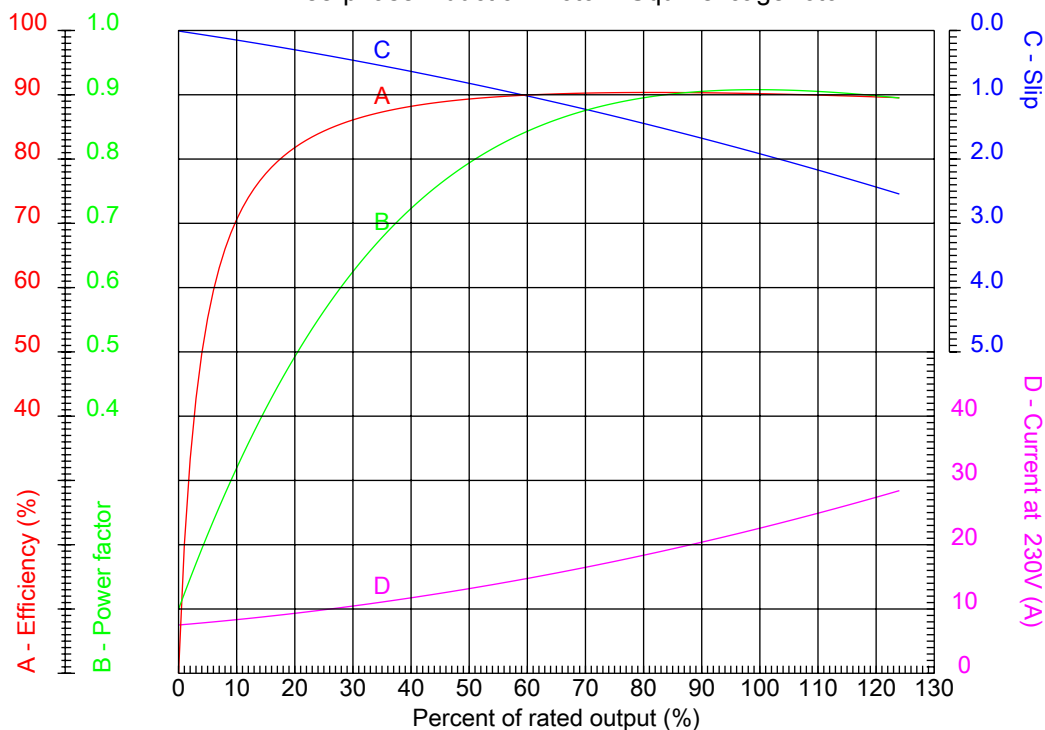
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Date: 13-SEP-2016

## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W01 (Rolled Steel) Close Coupled Pump TEFC - JM Type

|                  |                    |  |         |
|------------------|--------------------|--|---------|
| Frame            | : 213/5JM          | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.5   |
| Output           | : 10 HP            | Duty cycle   | : S1    |
| Frequency        | : 60 Hz            | Service factor   | : 1.15  |
| Full load speed  | : 3530 rpm         | Design   | : B     |
| Voltage          | : 208-230/460 V    | Locked rotor torque                                    | : 260 % |
| Rated current    | : 25.4-23.0/11.5 A | Breakdown torque                                       | : 300 % |
| Insulation class | : F                |  |         |

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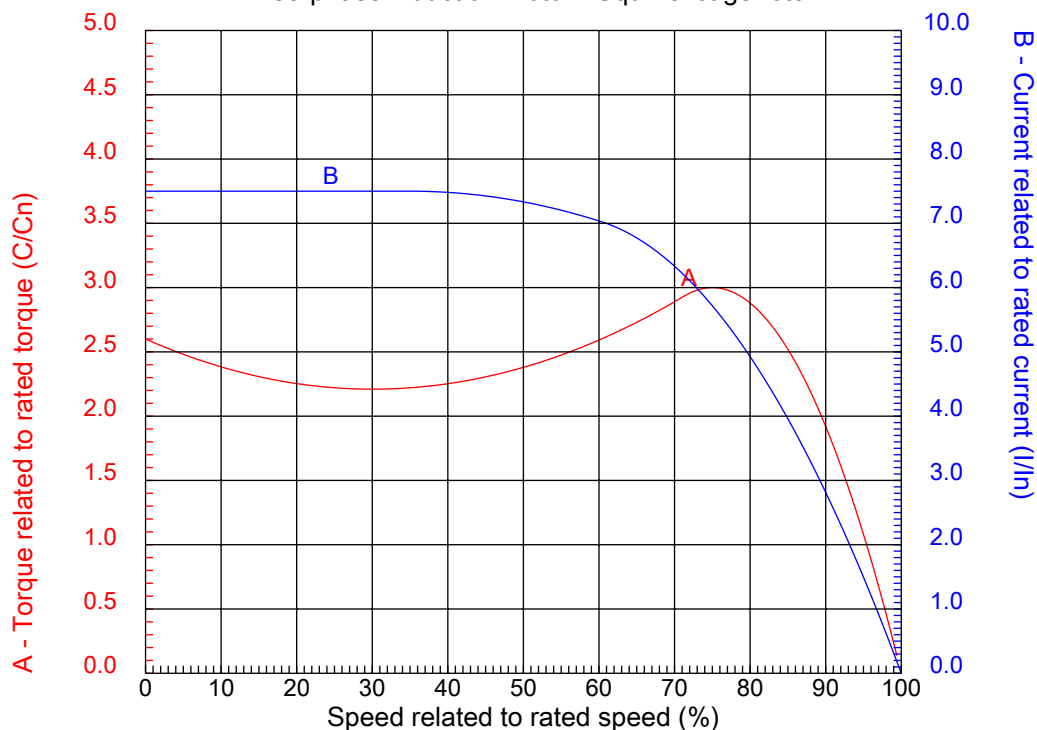
# Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W01 (Rolled Steel) Close Coupled Pump TEFC - JM Type

|                  |                    |  |         |
|------------------|--------------------|--|---------|
| Frame            | : 213/5JM          | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.5   |
| Output           | : 10 HP            | Duty cycle   | : S1    |
| Frequency        | : 60 Hz            | Service factor   | : 1.15  |
| Full load speed  | : 3530 rpm         | Design   | : B     |
| Voltage          | : 208-230/460 V    | Locked rotor torque                                    | : 260 % |
| Rated current    | : 25.4-23.0/11.5 A | Breakdown torque                                       | : 300 % |
| Insulation class | : F                |  |         |

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1 2 3 4 5 6 7 8

A

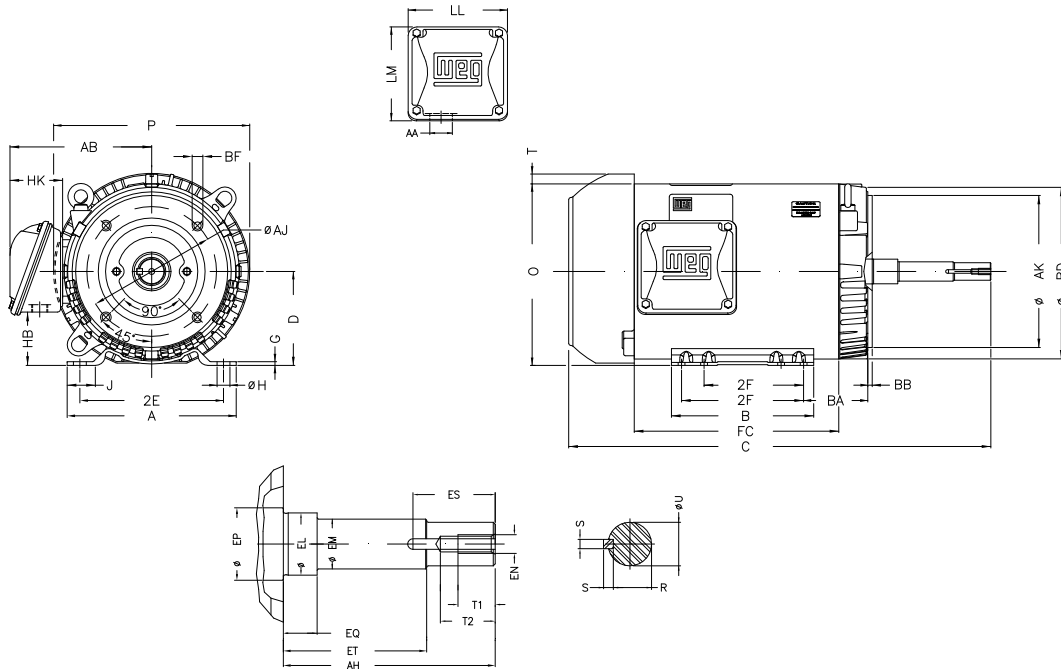
B

C

D

E

F



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|                   |                   |                  |              |             |
|-------------------|-------------------|------------------|--------------|-------------|
| 2E<br>8.500       | J<br>1.575        | A<br>9.449       | P<br>10.965  | AB<br>7.973 |
| 2F<br>5.500/7.000 | B<br>7.953        | BA<br>4.250      | D<br>5.250   | G<br>0.167  |
| O<br>10.144       | T<br>0.761        | H<br>0.406       | AA<br>1.377" | ER<br>4.258 |
| EQ<br>0.630       | ET<br>2.880       | U<br>0.8745      | EM<br>1.000  | EL<br>1.250 |
| EP<br>1.769       | ES<br>1.575       | t1<br>0.748      | t2<br>1.102  | C<br>22.795 |
| CH<br>1.929       | FC<br>12.992      | Flange<br>FC-184 | AJ<br>7.250  | AK<br>8.500 |
| BD<br>9.401       | BF<br>UNC 1/2"x13 | BB<br>0.250      | AH<br>4.258  |             |

Performed by:


Checked:

Customer:

W01 (Rolled Steel) Close Coupled Pump TEFC - JM Type

Three-phase induction motor  
Frame 213/5JM - IP55

13-SEP-2016



1 2 3 4 5 6 7 8

# LOW VOLTAGE

# HIGH VOLTAGE

A  
B  
C  
D  
E  
F



|  |             |  |
|--|-------------|--|
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| Checked:   |             |  |
| Customer:  |             |  |
| W01 (Rolled Steel) Close Coupled Pump TEFC - JM Type   |             |  |
| Three-phase induction motor<br>Frame 213/5JM - IP55  | 13-SEP-2016 |  |