



# Dealers Industrial Equipment

No.:

Date: 13-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -  
NEMA Premium Efficiency

Catalog Number : 01018ET3H215JM-S

List Price : \$1,792

#### Notes:

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

Customer :  
 Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

Frame : 213/5JM  
 Output : 10 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1760 rpm  
 Slip : 2.22 %  
 Voltage : 575 V  
 Rated current : 9.76 A  
 Locked rotor current : 68.3 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.0  
 No-load current : 4.43 A  
 Full load torque : 29.4 lb.ft  
 Locked rotor torque : 250 %  
 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 : IP55  
 Approximate weight : 130 lb  
 Moment of inertia : 1.0690 sq.ft.lb  
 Noise level : 60 dB(A)

|                     | D.E.    | N.D.E.  | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings            | 6209 ZZ | 6206 ZZ | 100% | 0.84         | 91.7           |
| Regreasing interval | ---     | ---     | 75%  | 0.78         | 91.0           |
| Grease amount       | ---     | ---     | 50%  | 0.67         | 91.0           |

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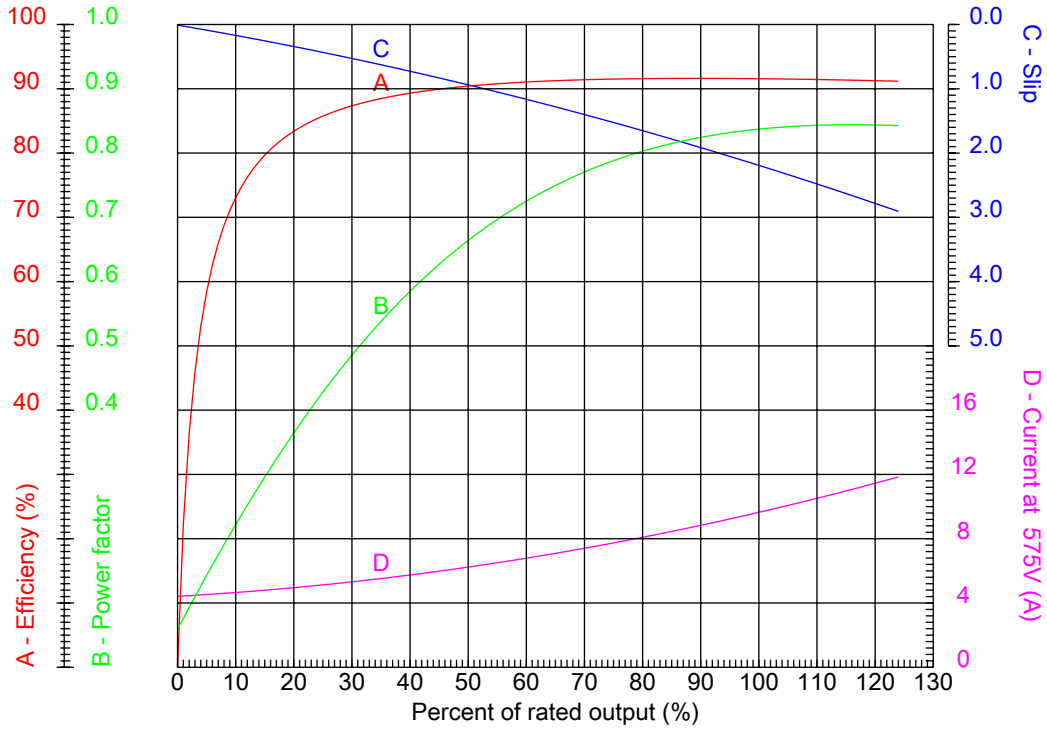
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

|                  |            |  |         |
|------------------|------------|--|---------|
| Frame            | : 213/5JM  | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.0   |
| Output           | : 10 HP    | Duty cycle   | : S1    |
| Frequency        | : 60 Hz    | Service factor   | : 1.15  |
| Full load speed  | : 1760 rpm | Design   | : B     |
| Voltage          | : 575 V    | Locked rotor torque                                    | : 250 % |
| Rated current    | : 9.76 A   | Breakdown torque                                       | : 300 % |
| Insulation class | : F        |  |         |

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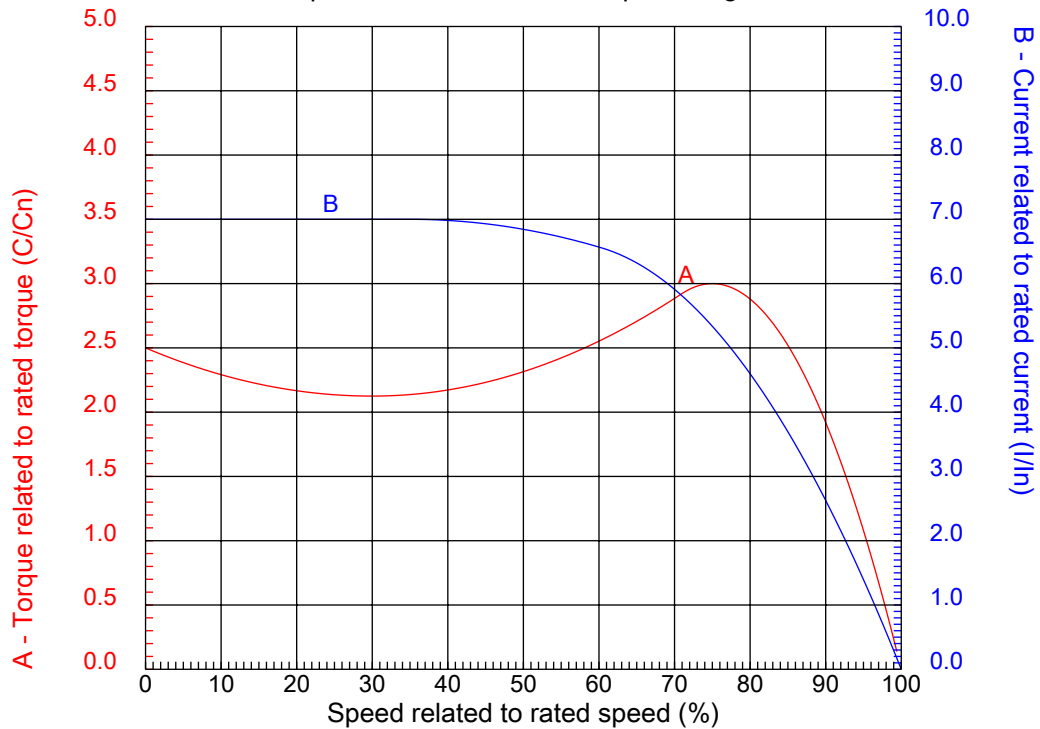
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No.:

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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

|                  |            |  |         |
|------------------|------------|--|---------|
| Frame            | : 213/5JM  | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.0   |
| Output           | : 10 HP    | Duty cycle   | : S1    |
| Frequency        | : 60 Hz    | Service factor   | : 1.15  |
| Full load speed  | : 1760 rpm | Design   | : B     |
| Voltage          | : 575 V    | Locked rotor torque                                    | : 250 % |
| Rated current    | : 9.76 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>20.433 |
| CH<br>1.929       | FC<br>10.630      | 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  |             |

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Customer:

Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -

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

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1 2 3 4 5 6 7 8

A

B

C

D

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

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