



# Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

Catalog Number : 05036OP3V324JP

List Price : \$3,971

#### Notes:

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No.:

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

Customer :  
 Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

Frame : 324JP  
 Output : 50 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3560 rpm  
 Slip : 1.11 %  
 Voltage : 200/400 V  
 Rated current : 134/67.2 A  
 Locked rotor current : 833/416 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
 No-load current : 44.8/22.4 A  
 Full load torque : 72.8 lb.ft  
 Locked rotor torque : 220 %  
 Breakdown torque : 240 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 28 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP23  
 Approximate weight : 478 lb  
 Moment of inertia : 3.2985 sq.ft.lb  
 Noise level : 74 dB(A)

|                     | D.E.      | N.D.E.    |
|---------------------|-----------|-----------|
| Bearings            | 6312 Z-C3 | 6212 Z-C3 |
| Regreasing interval | 19658 h   | 20000 h   |
| Grease amount       | 21 g      | 13 g      |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.86         | 92.4           |
| 75%  | 0.83         | 92.4           |
| 50%  | 0.75         | 91.0           |

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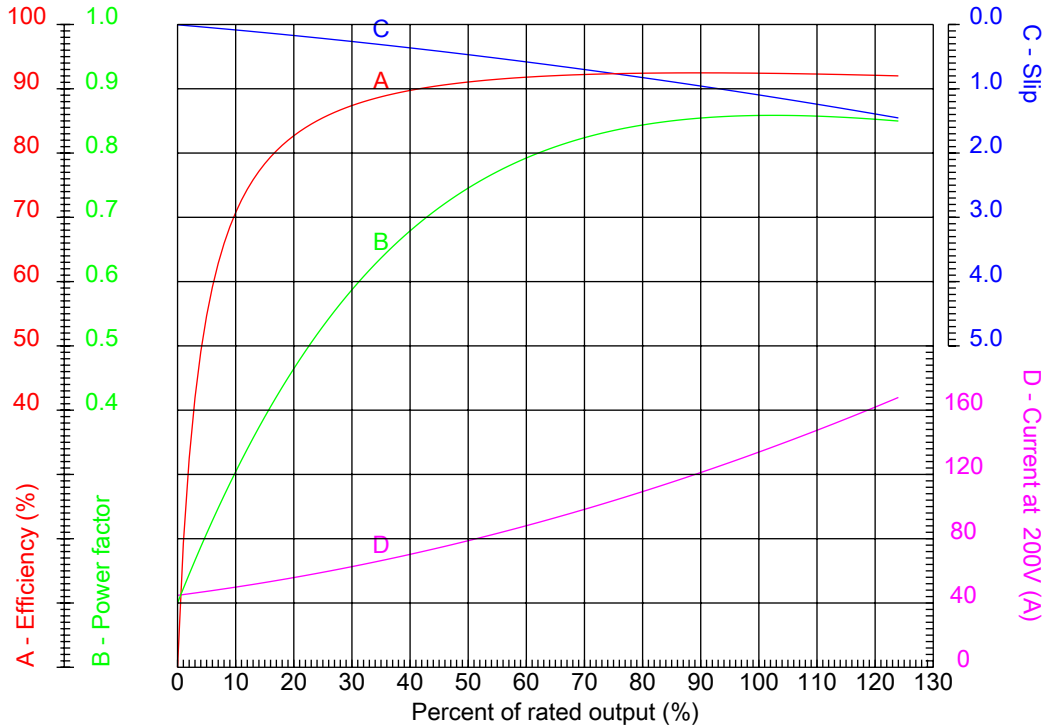
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## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

|                  |              |  |         |
|------------------|--------------|--|---------|
| Frame            | : 324JP      | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 6.2   |
| Output           | : 50 HP      | Duty cycle   | : S1    |
| Frequency        | : 60 Hz      | Service factor   | : 1.15  |
| Full load speed  | : 3560 rpm   | Design   | : B     |
| Voltage          | : 200/400 V  | Locked rotor torque                                    | : 220 % |
| Rated current    | : 134/67.2 A | Breakdown torque                                       | : 240 % |
| Insulation class | : F          |  |         |

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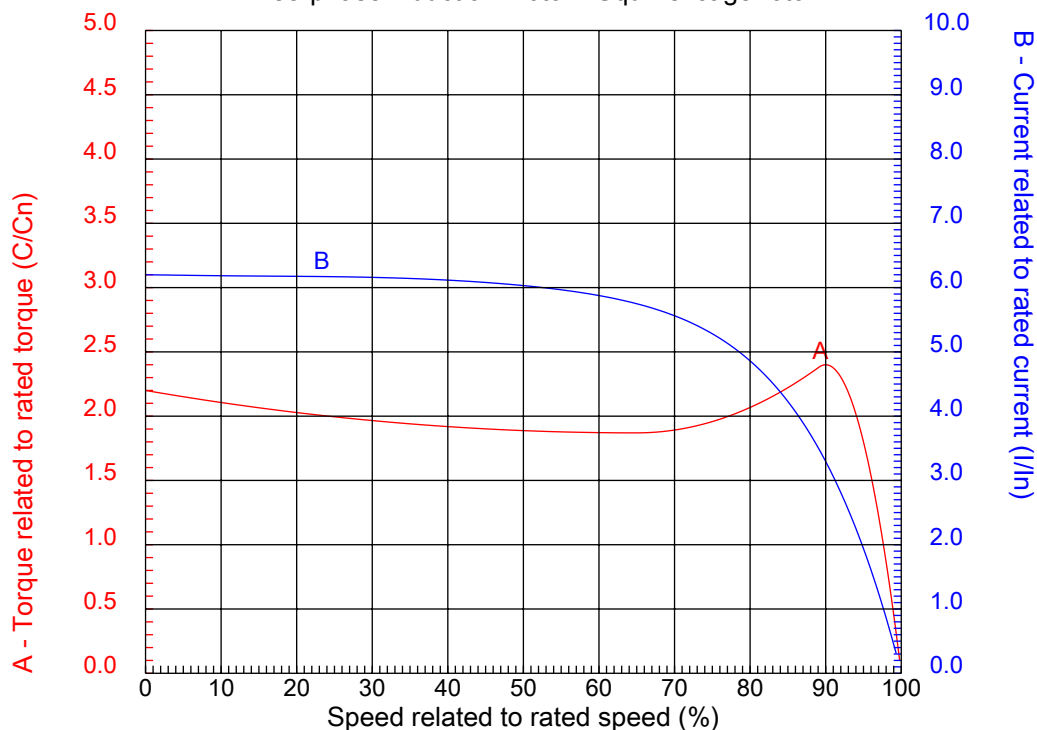
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Date: 27-SEP-2016

## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Close Coupled Pump : Three-Phase - "JP" Type - ODP - High Efficiency

|                  |              |  |         |
|------------------|--------------|--|---------|
| Frame            | : 324JP      | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 6.2   |
| Output           | : 50 HP      | Duty cycle   | : S1    |
| Frequency        | : 60 Hz      | Service factor   | : 1.15  |
| Full load speed  | : 3560 rpm   | Design   | : B     |
| Voltage          | : 200/400 V  | Locked rotor torque                                    | : 220 % |
| Rated current    | : 134/67.2 A | Breakdown torque                                       | : 240 % |
| Insulation class | : F          |  |         |

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1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

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

Three-phase induction motor  
Frame 324JP - IP23

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