



## Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

### TECHNICAL PROPOSAL

## Single-phase induction motor - Squirrel cage rotor

Product line : Single-Phase: Fractional Explosion Proof Motors

Catalog Number : .3336XS1B56C

List Price : \$737

#### Notes:

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Generated for Model #.3336XS1B56C

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### DATA SHEET

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

Customer :  
Product line : Single-Phase: Fractional Explosion Proof Motors

Frame : 56  
Output : 0.33 HP  
Frequency : 60 Hz  
Poles : 2  
Full load speed : 3450 rpm  
Slip : 4.17 %  
Voltage : 115/208-230 V  
Rated current : 5.20/2.60 A  
Locked rotor current : 27.6/13.8 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 5.3  
No-load current : 4.00/2.00 A  
Full load torque : 0.496 lb.ft  
Locked rotor torque : 210 %  
Breakdown torque : 250 %  
Design : ---  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 9 s (hot)  
Service factor : 1.00  
Duty cycle : S1  
Ambient temperature : -20°C - +50°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 21 lb  
Moment of inertia : 0.00878 sq.ft.lb  
Noise level : ---

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6203 ZZ | 6203 ZZ |
| Regreasing interval | ---     | ---     |
| Grease amount       | ---     | ---     |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.76         | 54.0           |
| 75%  | 0.69         | 48.0           |
| 50%  | 0.61         | 42.0           |

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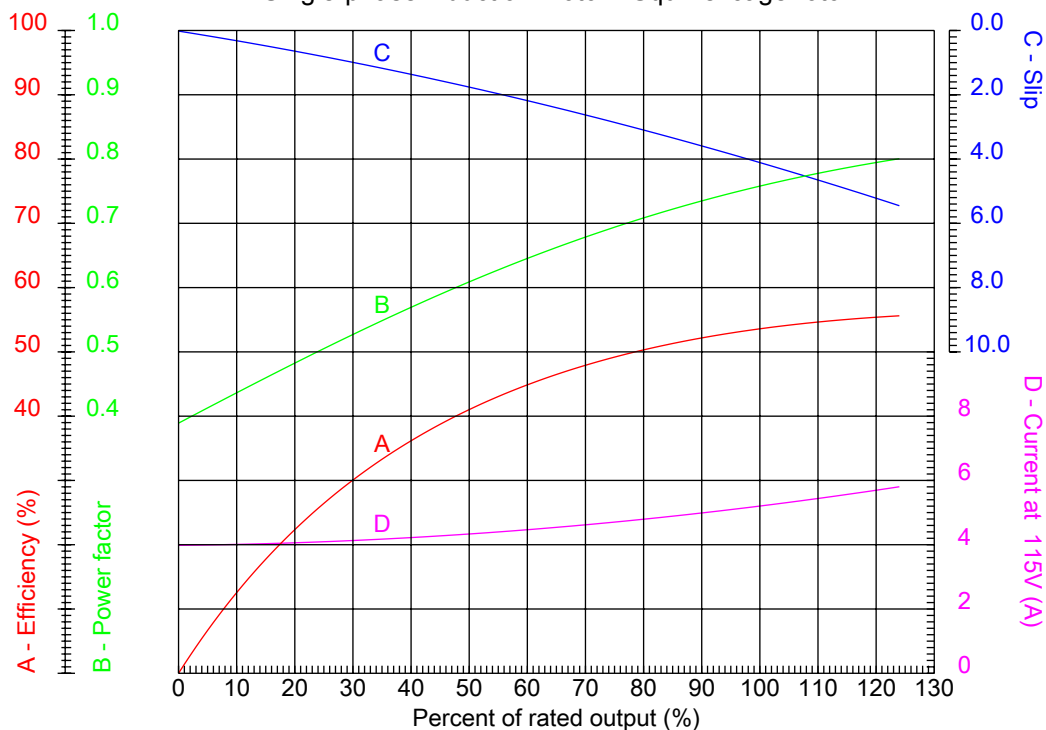
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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Single-phase induction motor - Squirrel cage rotor



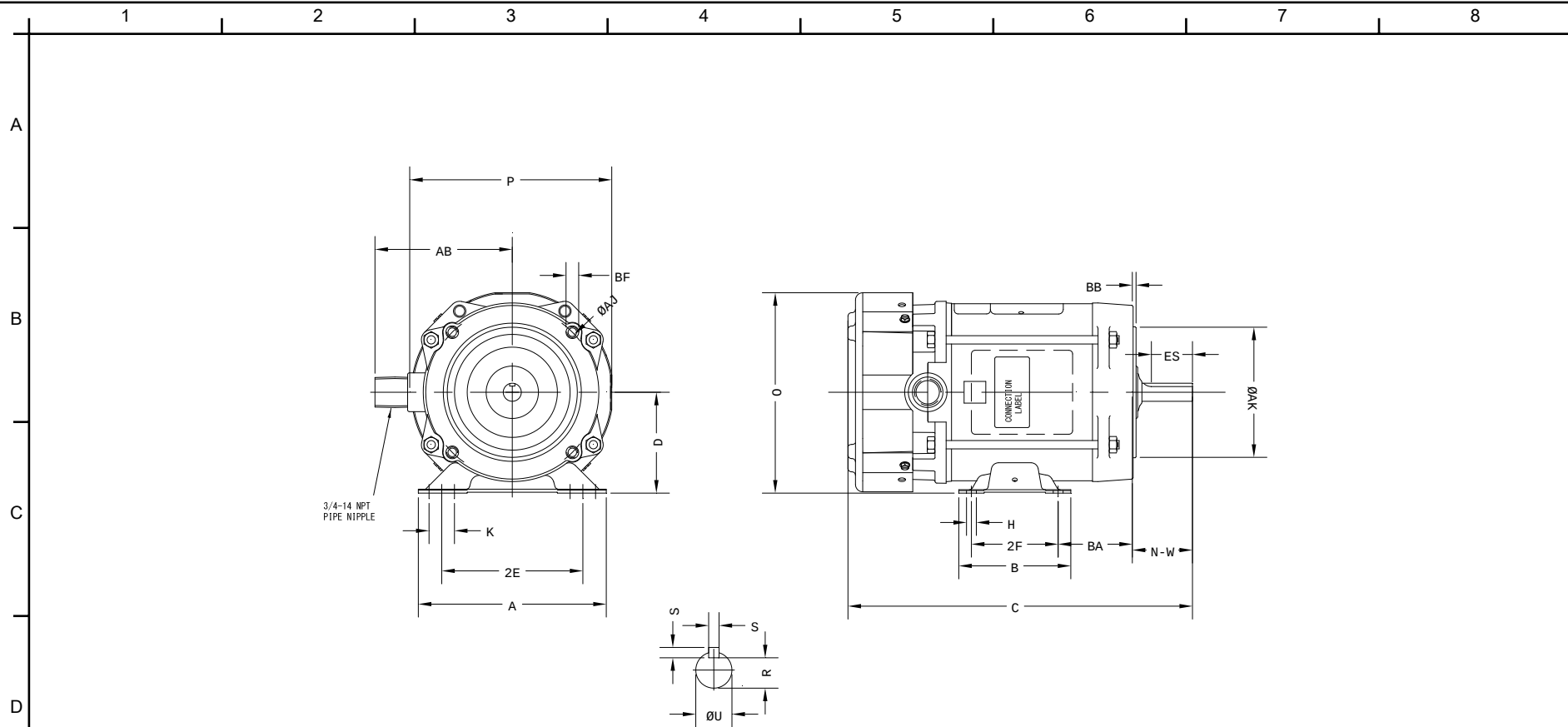
Customer :  
Product line : Single-Phase: Fractional Explosion Proof Motors

|                  |                 |                                                        |         |
|------------------|-----------------|--------------------------------------------------------|---------|
| Frame            | : 56            | Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) | : 5.3   |
| Output           | : 0.33 HP       | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz         | Service factor                                         | : 1.00  |
| Full load speed  | : 3450 rpm      | Design                                                 | : ---   |
| Voltage          | : 115/208-230 V | Locked rotor torque                                    | : 210 % |
| Rated current    | : 5.20/2.60 A   | Breakdown torque                                       | : 250 % |
| Insulation class | : F             |                                                        |         |

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Customer:

Single-Phase: Fractional Explosion Proof Motors

Single-phase induction motor  
Frame 56 - IP55

12-SEP-2016



|                      |                  |              |             |             |
|----------------------|------------------|--------------|-------------|-------------|
| 2E<br>4.880          | A<br>6.500       | P<br>6.980   | AB<br>4.500 | B<br>3.880  |
| BA<br>2.750          | U<br>0.6250      | N-W<br>1.880 | ES<br>1.380 | S<br>0.190  |
| R<br>0.517           | D<br>3.500       | O<br>6.920   | H<br>0.340  | C<br>11.790 |
| d1<br>SEM            | Flange<br>FC-149 | AJ<br>5.880  | AK<br>4.500 | BD<br>6.000 |
| BF<br>UNC 3/8"x16-2B | BB<br>0.160      | AH<br>2.060  |             |             |