



# Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

## TECHNICAL PROPOSAL

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

Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Catalog Number : .7518OT3E56C-S

List Price : \$358

#### Notes:

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

Customer :  
 Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Frame : 56  
 Output : 0.75 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1760 rpm  
 Slip : 2.22 %  
 Voltage : 208-230/460 V  
 Rated current : 2.54-2.30/1.15 A  
 Locked rotor current : 16.8/8.39 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 7.3  
 No-load current : 1.60/0.800 A  
 Full load torque : 2.21 lb.ft  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Design : A  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 21 s (hot)  
 Service factor : 1.25  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : ODP  
 Approximate weight : 23 lb  
 Moment of inertia : 0.07119 sq.ft.lb  
 Noise level : 52 dB(A)

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6203 ZZ | 6202 ZZ |
| Regreasing interval | ---     | ---     |
| Grease amount       | ---     | ---     |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.74         | 81.1           |
| 75%  | 0.65         | 78.5           |
| 50%  | 0.52         | 74.0           |

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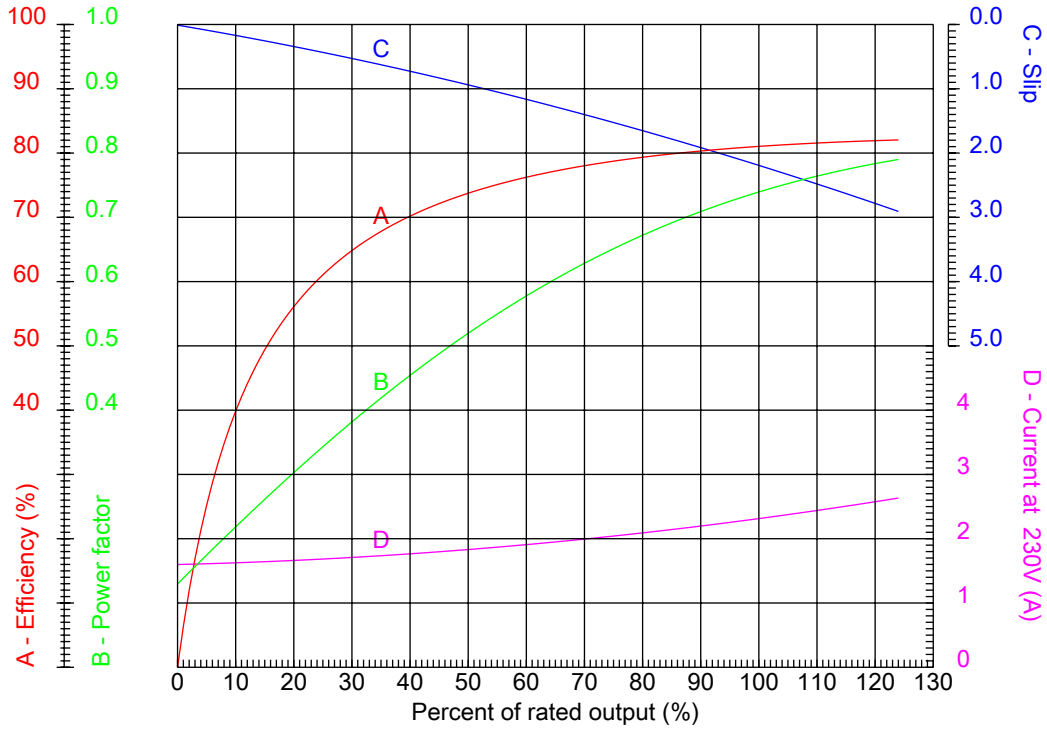
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No.:

Date: 12-SEP-2016

## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

|                  |                    |                                                        |         |
|------------------|--------------------|--------------------------------------------------------|---------|
| Frame            | : 56               | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.3   |
| Output           | : 0.75 HP          | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz            | Service factor                                         | : 1.25  |
| Full load speed  | : 1760 rpm         | Design                                                 | : A     |
| Voltage          | : 208-230/460 V    | Locked rotor torque                                    | : 250 % |
| Rated current    | : 2.54-2.30/1.15 A | Breakdown torque                                       | : 300 % |
| Insulation class | : F                |                                                        |         |

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|              |         |
|--------------|---------|
| Performed by | Checked |
|--------------|---------|



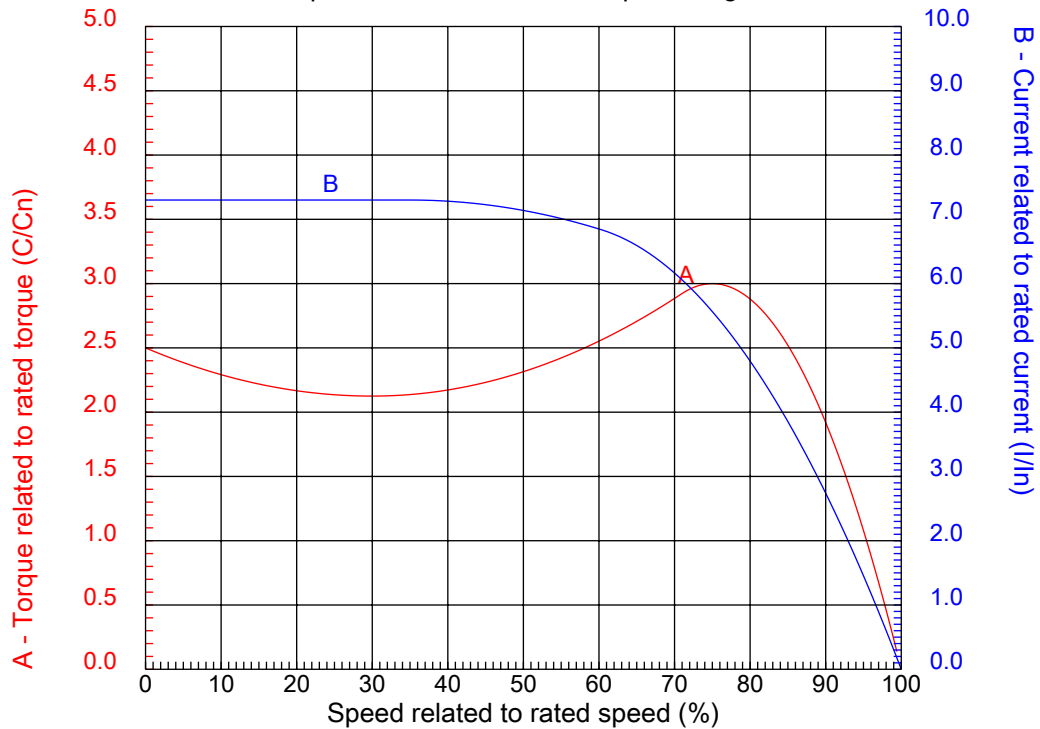
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## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



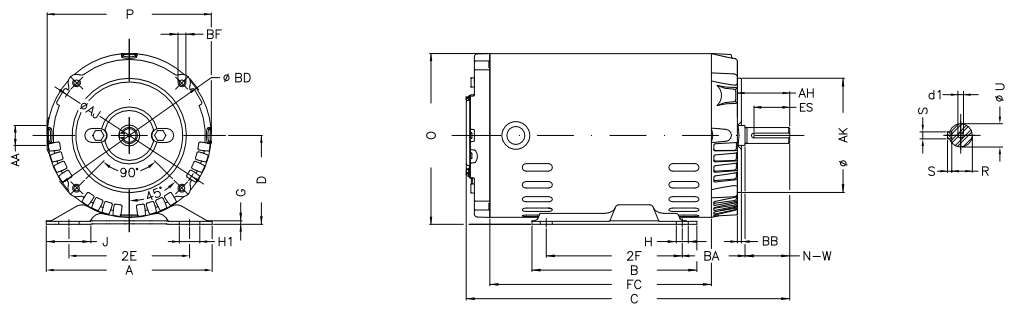
Customer :  
Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

|                  |                    |                                                        |         |
|------------------|--------------------|--------------------------------------------------------|---------|
| Frame            | : 56               | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 7.3   |
| Output           | : 0.75 HP          | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz            | Service factor                                         | : 1.25  |
| Full load speed  | : 1760 rpm         | Design                                                 | : A     |
| Voltage          | : 208-230/460 V    | Locked rotor torque                                    | : 250 % |
| Rated current    | : 2.54-2.30/1.15 A | Breakdown torque                                       | : 300 % |
| Insulation class | : F                |                                                        |         |

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|       |                |        |        |        |
|-------|----------------|--------|--------|--------|
| P     | AB             | J      | 2E     | A      |
| 6.456 | 3.323          | 1.732  | 4.874  | 6.535  |
| H     | G              | HB     | HK     | T      |
| 0.343 | 0.120          | 1.784  | 2.629  | 0.004  |
| O     | FC             | 2F     | B      | C      |
| 6.724 | 7.087          | 3.000  | 4.016  | 11.102 |
| BA    | N-W            | ES     | d1     | S      |
| 2.750 | 1.874          | 1.417  | A 3.15 | 0.187  |
| U     | AA             | depth  | R      | LL     |
| 0.625 | NPT 1/2"       | 0.187  | 0.517  | 4.563  |
| LM    | D              | Flange | AJ     | AK     |
| 4.090 | 3.500          | FC-149 | 5.874  | 4.500  |
| BD    | BF             | BB     | AH     |        |
| 6.450 | UNC 3/8"x16-2B | 0.157  | 2.062  |        |

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| Performed by:                                                    |             |
| Checked:                                                         |             |
| Customer:                                                        |             |
| Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE) |             |
| Three-phase induction motor<br>Frame 56 - ODP                    | 12-SEP-2016 |

