



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : Explosion Proof - NEMA Premium

Catalog Number : 06009XT3E405T

List Price : \$26,900

Notes:

Performed by:

Checked:



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## DATA SHEET

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

Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

Frame : 404/5T  
Output : 60 HP  
Frequency : 60 Hz  
Poles : 8  
Full load speed : 885  
Slip : 1.67 %  
Voltage : 208-230/460 V  
Rated current : 168-152/75.9 A  
Locked rotor current : 941/471 A  
Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.2  
No-load current : 68.0/34.0 A  
Full load torque : 351 lb.ft  
Locked rotor torque : 180 %  
Breakdown torque : 220 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 25 s (hot)  
Service factor : 1.15  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000  
Degree of Protection : IP54  
Approximate weight : 1279 lb  
Moment of inertia : 38.261 sq.ft.lb  
Noise level : 62 dB(A)

|                     | D.E.    | N.D.E.  | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings            | 6217 C3 | 6314 C3 | 100% | 0.80         | 93.0           |
| Regreasing interval | 16602 h | 17353 h | 75%  | 0.75         | 93.0           |
| Grease amount       | 21 g    | 27 g    | 50%  | 0.65         | 92.4           |

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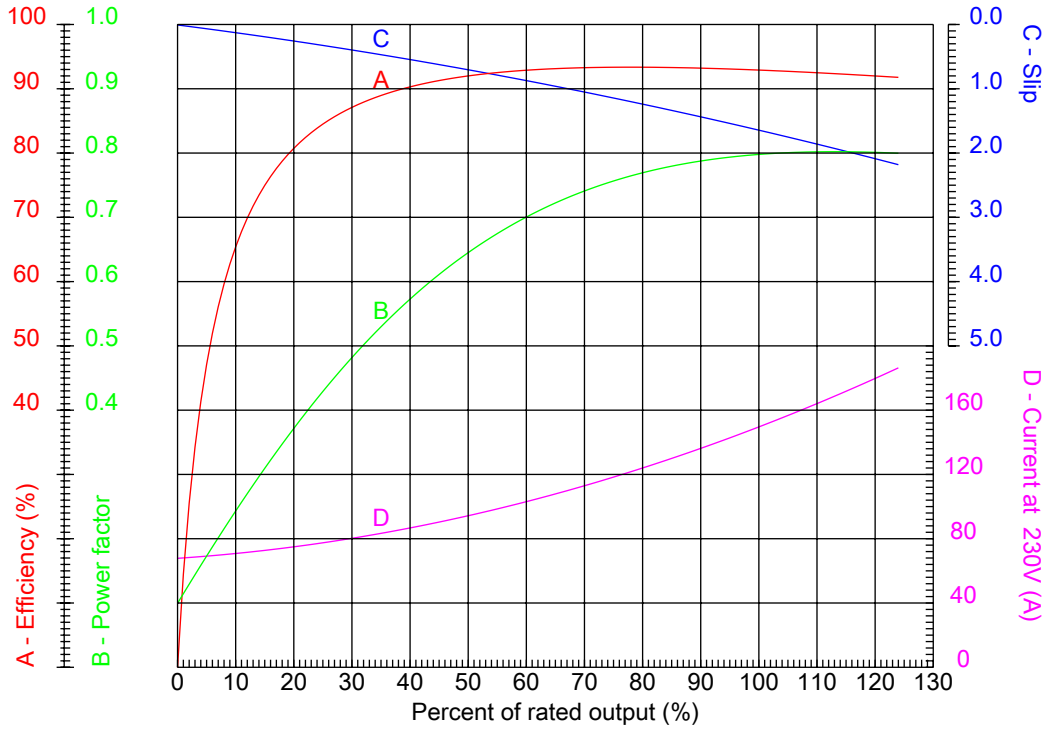


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### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

|                  |                  |  |         |
|------------------|------------------|--|---------|
| Frame            | : 404/5T         | Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) | : 6.2   |
| Output           | : 60 HP          | Duty cycle   | : S1    |
| Frequency        | : 60 Hz          | Service factor   | : 1.15  |
| Full load speed  | : 885            | Design   | : B     |
| Voltage          | : 208-230/460 V  | Locked rotor torque                                    | : 180 % |
| Rated current    | : 168-152/75.9 A | Breakdown torque                                       | : 220 % |
| Insulation class | : F              |  |         |

Notes:

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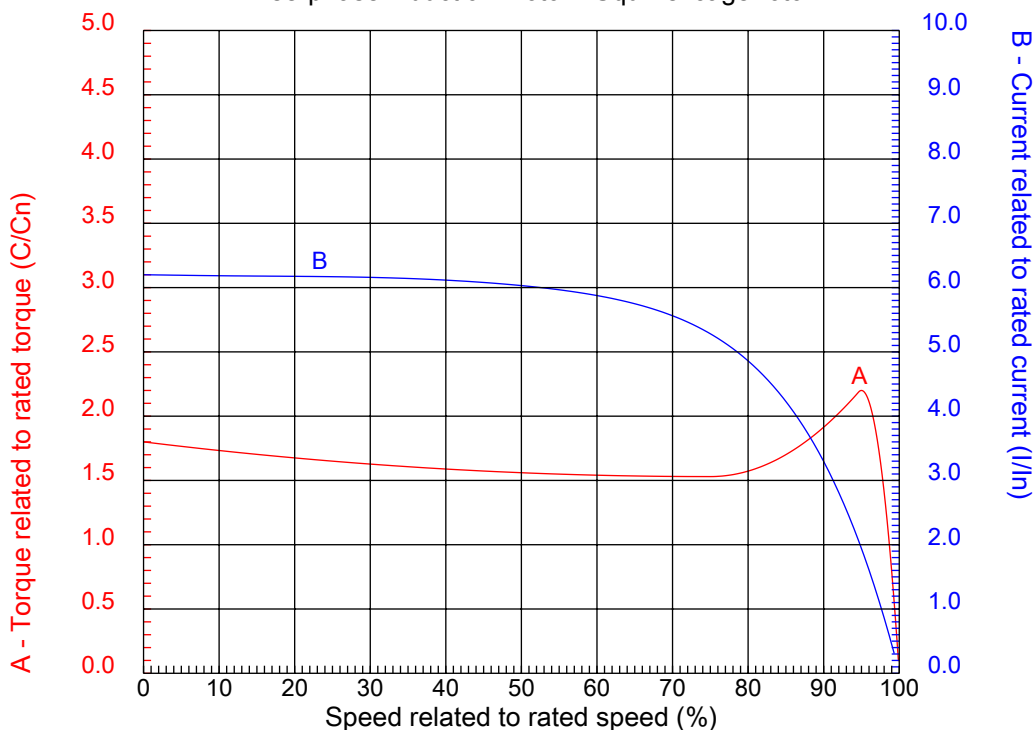


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### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three-Phase : Explosion Proof - NEMA Premium

|                  |                  |  |         |
|------------------|------------------|--|---------|
| Frame            | : 404/5T         | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 6.2   |
| Output           | : 60 HP          | Duty cycle   | : S1    |
| Frequency        | : 60 Hz          | Service factor   | : 1.15  |
| Full load speed  | : 885            | Design   | : B     |
| Voltage          | : 208-230/460 V  | Locked rotor torque                                    | : 180 % |
| Rated current    | : 168-152/75.9 A | Breakdown torque                                       | : 220 % |
| Insulation class | : F              |  |         |

Notes:

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes:

Performed by:

Checked:

Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor  
Frame 404/5T - IP54

27-DEC-2012



|                  |              |                     |                    |                |
|------------------|--------------|---------------------|--------------------|----------------|
| 2E<br>16.000     | A<br>19.921  | 2F<br>12.250/13.752 | B<br>17.520        | BA<br>6.625    |
| J<br>3.937       | K<br>5.433   | P<br>18.583         | ES<br>5.512        | depth<br>0.750 |
| S<br>0.750       | N-W<br>7.250 | U<br>2.875          | R<br>2.449         | AB<br>16.654   |
| D<br>10.000      | G<br>1.812   | O<br>19.843         | HD<br>22.638       | H<br>0.807     |
| C<br>38.074      | AA<br>NPT 3" | d1<br>DUNC 3/4"-10  | d2<br>DUNC 3/4"-10 | T<br>2.795     |
| Flange<br>FD-508 | AJ<br>20.000 | AK<br>18.000        | BD<br>21.656       | BF<br>0.828    |
| BB<br>0.203      |              |                     |                    |                |