



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 : 06012XT3H404T

List Price : \$13,196

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 : 6
Full load speed : 1180
Slip : 1.67 %
Voltage : 575 V
Rated current : 56.3 A
Locked rotor current : 388 A
Locked rotor current (I_L/I_n) : 6.9
No-load current : 20.0 A
Full load torque : 263 lb.ft
Locked rotor torque : 250 %
Breakdown torque : 270 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 29 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP54
Approximate weight : 1213 lb
Moment of inertia : 36.858 sq.ft.lb
Noise level : 65 dB(A)

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings | 6217 C3 | 6314 C3 | 100% | 0.85 | 94.5 |
| Regreasing interval | 13507 h | 14267 h | 75% | 0.82 | 94.5 |
| Grease amount | 21 g | 27 g | 50% | 0.73 | 93.6 |

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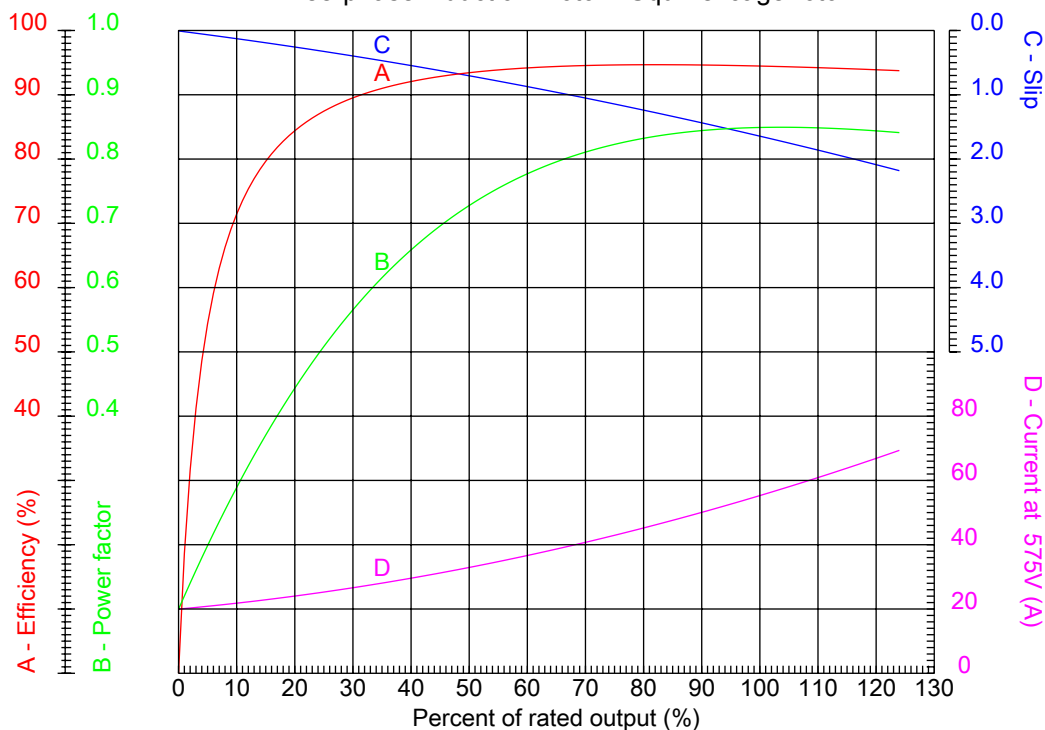


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|----------|--|---------|
| Frame | : 404/5T | Locked rotor current (I _l /I _n) | : 6.9 |
| Output | : 60 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1180 | Design | : B |
| Voltage | : 575 V | Locked rotor torque | : 250 % |
| Rated current | : 56.3 A | Breakdown torque | : 270 % |
| Insulation class | : F | | |

Notes:

Performed by

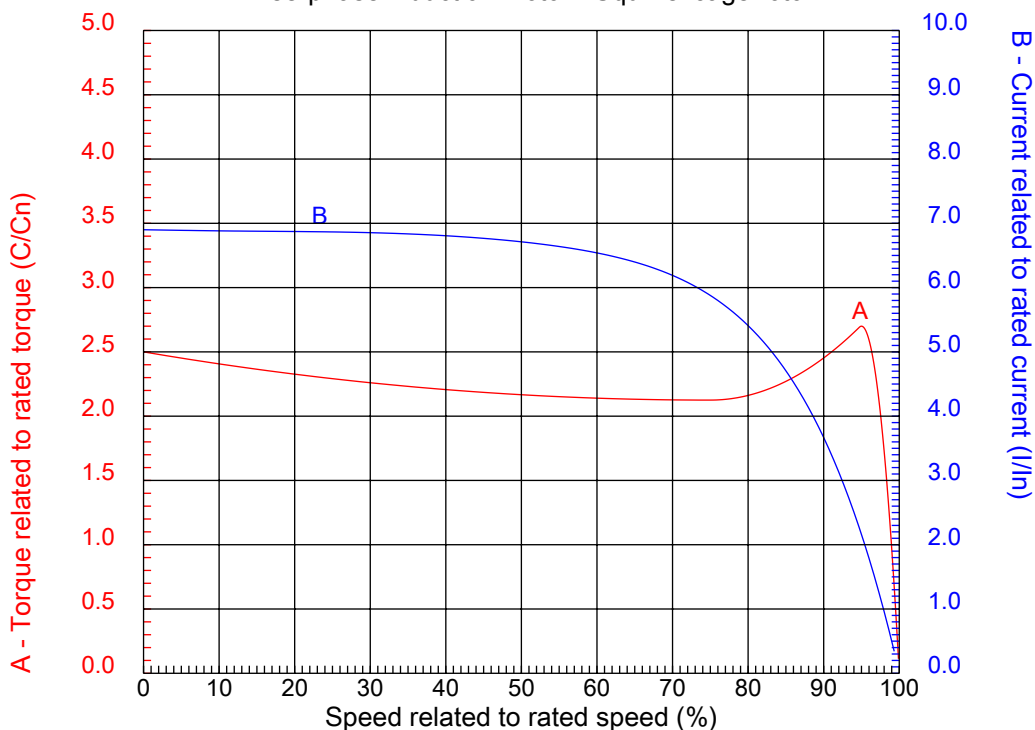
Checked



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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 _l /I _n) | : 6.9 |
| Output | : 60 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1180 | Design | : B |
| Voltage | : 575 V | Locked rotor torque | : 250 % |
| Rated current | : 56.3 A | Breakdown torque | : 270 % |
| Insulation class | : F | | |

Notes:

Performed by

Checked

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