



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 : 00536XT3E184T

List Price : \$1,255

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 : 184T
 Output : 5 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3505
 Slip : 2.64 %
 Voltage : 208-230/460 V
 Rated current : 13.5-12.2/6.10 A
 Locked rotor current : 110/54.9 A
 Locked rotor current (I_L/I_n) : 9.0
 No-load current : 5.20/2.60 A
 Full load torque : 7.39 lb.ft
 Locked rotor torque : 280 %
 Breakdown torque : 380 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 26 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000
 Degree of Protection : IP54
 Approximate weight : 106 lb
 Moment of inertia : 0.18889 sq.ft.lb
 Noise level : 69 dB(A)

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings | 6307 ZZ | 6206 ZZ | 100% | 0.86 | 88.5 |
| Regreasing interval | --- | --- | 75% | 0.81 | 87.5 |
| Grease amount | --- | --- | 50% | 0.70 | 85.5 |

Notes:

Performed by

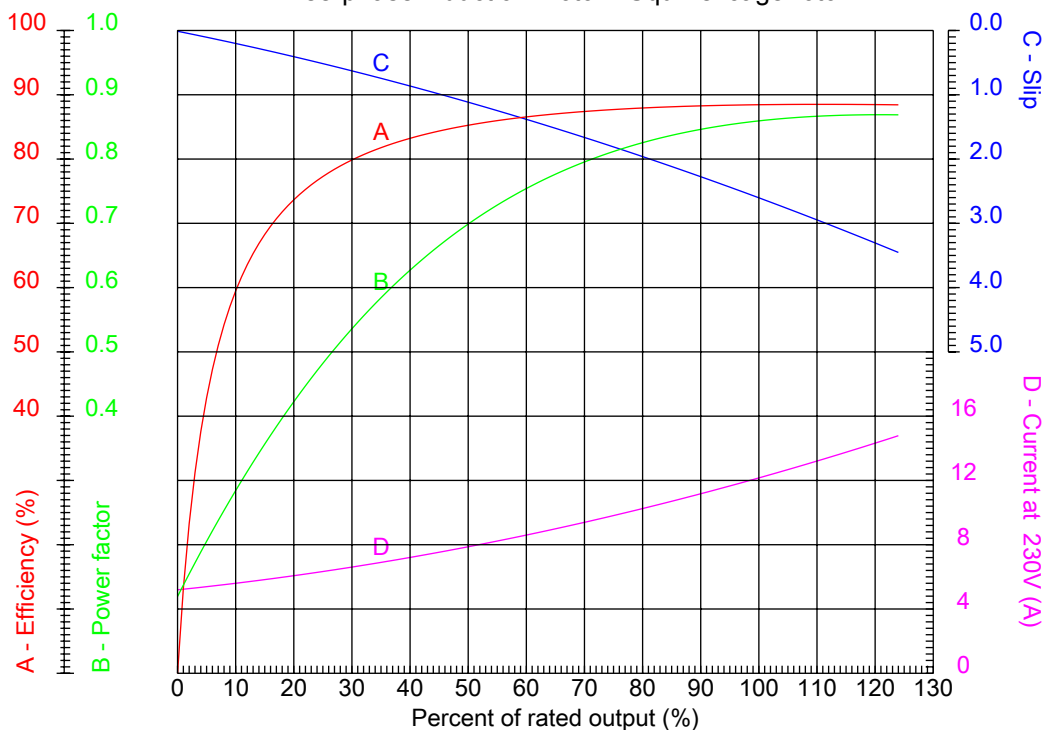
Checked



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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 | : 184T | Locked rotor current (I _L /I _n) | : 9.0 |
| Output | : 5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3505 | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 280 % |
| Rated current | : 13.5-12.2/6.10 A | Breakdown torque | : 380 % |
| Insulation class | : F | | |

Notes:

Performed by

Checked

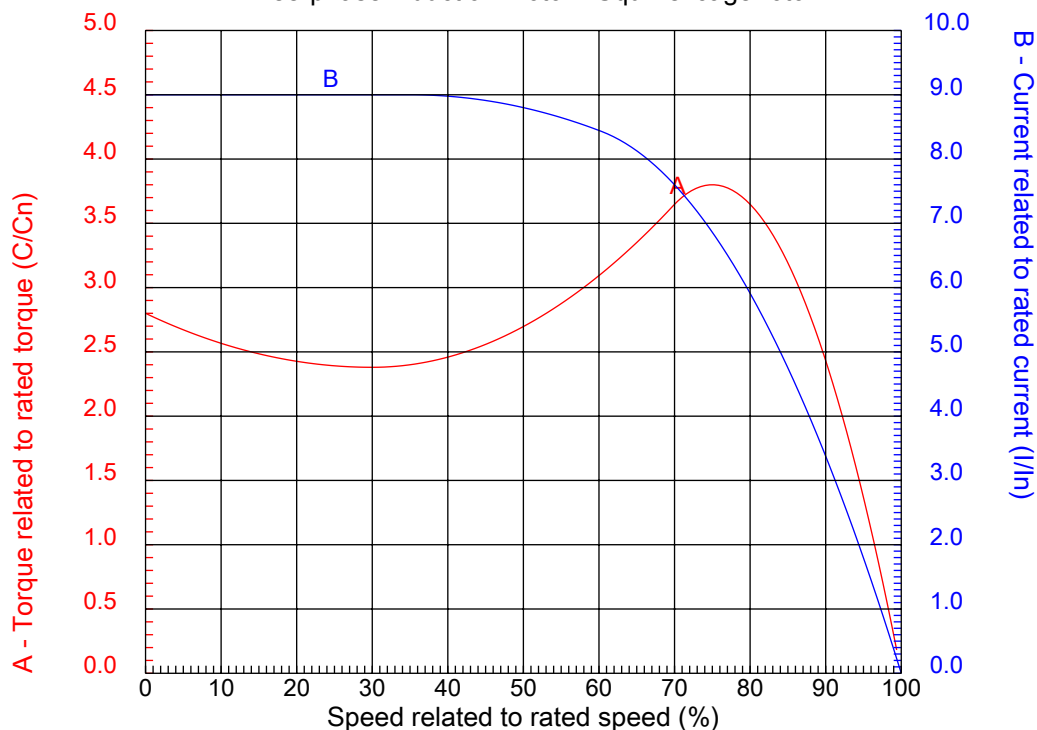


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 184T | Locked rotor current (I _l /I _n) | : 9.0 |
| Output | : 5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3505 | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 280 % |
| Rated current | : 13.5-12.2/6.10 A | Breakdown torque | : 380 % |
| 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 184T - IP54

27-DEC-2012



| | | | | |
|------------------|----------------|-------------|--------------|----------------|
| 2E 7.500 | A 8.661 | 2F 5.500 | B 6.969 | BA 2.750 |
| J 1.890 | K 1.969 | P 8.909 | ES 1.969 | depth 0.250 |
| S 0.250 | N-W 2.750 | U 1.125 | R 0.984 | AB 8.240 |
| D 4.500 | G 0.787 | O 9.421 | HD 11.193 | H 0.406 |
| C 15.862 | AA NPT 3/4" | d1 A 4 | d2 A 4 | T 1.772 |
| Flange FD-254 | AJ 10.000 | AK 9.000 | BD 11.000 | BF 0.562 |
| BB 0.203 | | | | |