



Dealers Industrial Equipment

No.:

Date: 27-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 07512XT3E405T

List Price : \$13,836

Notes:

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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 : 75 HP
 Frequency : 60 Hz
 Poles : 6
 Full load speed : 1180 rpm
 Slip : 1.67 %
 Voltage : 208-230/460 V
 Rated current : 192-174/87.0 A
 Locked rotor current : 1340/670 A
 Locked rotor current (I_L/I_n) : 7.7
 No-load current : 62.5/31.3 A
 Full load torque : 329 lb.ft
 Locked rotor torque : 250 %
 Breakdown torque : 260 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 15 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 1257 lb
 Moment of inertia : 40.209 sq.ft.lb
 Noise level : 65 dB(A)

| | D.E. | N.D.E. |
|---------------------|---------|---------|
| Bearings | 6217 C3 | 6314 C3 |
| Regreasing interval | 13507 h | 14267 h |
| Grease amount | 21 g | 27 g |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.84 | 94.5 |
| 75% | 0.81 | 95.0 |
| 50% | 0.72 | 94.1 |

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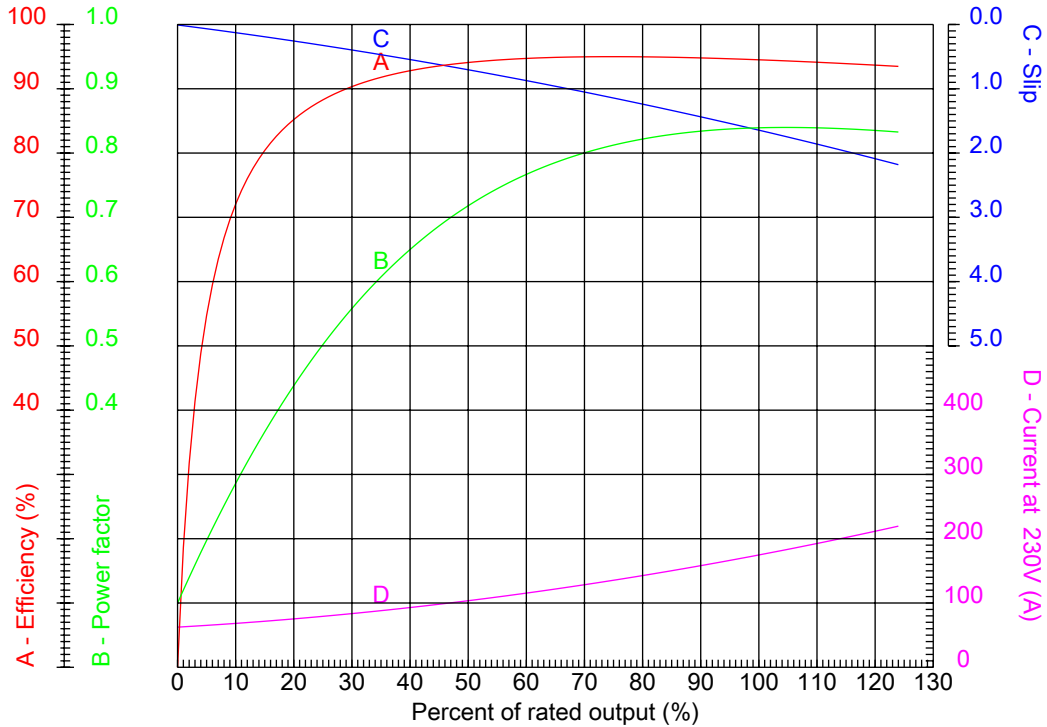
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

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) | : 7.7 |
| Output | : 75 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1180 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 250 % |
| Rated current | : 192-174/87.0 A | Breakdown torque | : 260 % |
| Insulation class | : F | | |

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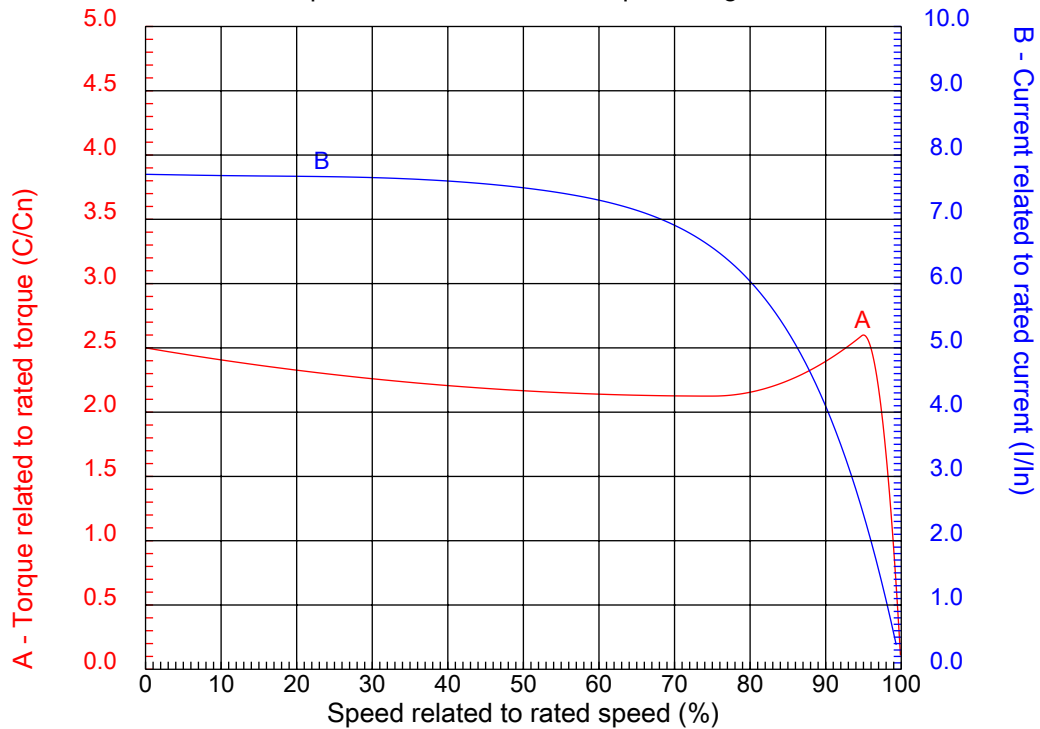
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|------------------|--|---------|
| Frame | : 404/5T | Locked rotor current (I _l /I _n) | : 7.7 |
| Output | : 75 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1180 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 250 % |
| Rated current | : 192-174/87.0 A | Breakdown torque | : 260 % |
| Insulation class | : F | | |

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1 2 3 4 5 6 7 8

A

B

C

D

E

F



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Customer:

Three-Phase : Explosion Proof - NEMA Premium

Three-phase induction motor
Frame 404/5T - IP55

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| | | | | |
|--------------|--------------|---------------------|--------------------|----------------|
| 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 | T 2.795 | H 0.807 |
| C 38.074 | AA NPT 3" | d1 DUNC 3/4"-10 | d2 DUNC 3/4"-10 | |

1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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