



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 00118XT3E143T

List Price : \$901

Notes:

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Generated for Model #00118XT3E143T

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Date: 12-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

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

Frame : 143T
Output : 1 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1765 rpm
Slip : 1.94 %
Voltage : 208-230/460 V
Rated current : 3.16-2.86/1.43 A
Locked rotor current : 24.6/12.3 A
Locked rotor current (I_L/I_n) : 8.6
No-load current : 1.87/0.935 A
Full load torque : 2.94 lb.ft
Locked rotor torque : 290 %
Breakdown torque : 400 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 18 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000 m
Degree of Protection : IP55
Approximate weight : 62 lb
Moment of inertia : 0.09753 sq.ft.lb
Noise level : 51 dB(A)

| | D.E. | N.D.E. |
|---------------------|----------|----------|
| Bearings | 6205 2RS | 6204 2RS |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.77 | 85.5 |
| 75% | 0.70 | 82.5 |
| 50% | 0.57 | 80.0 |

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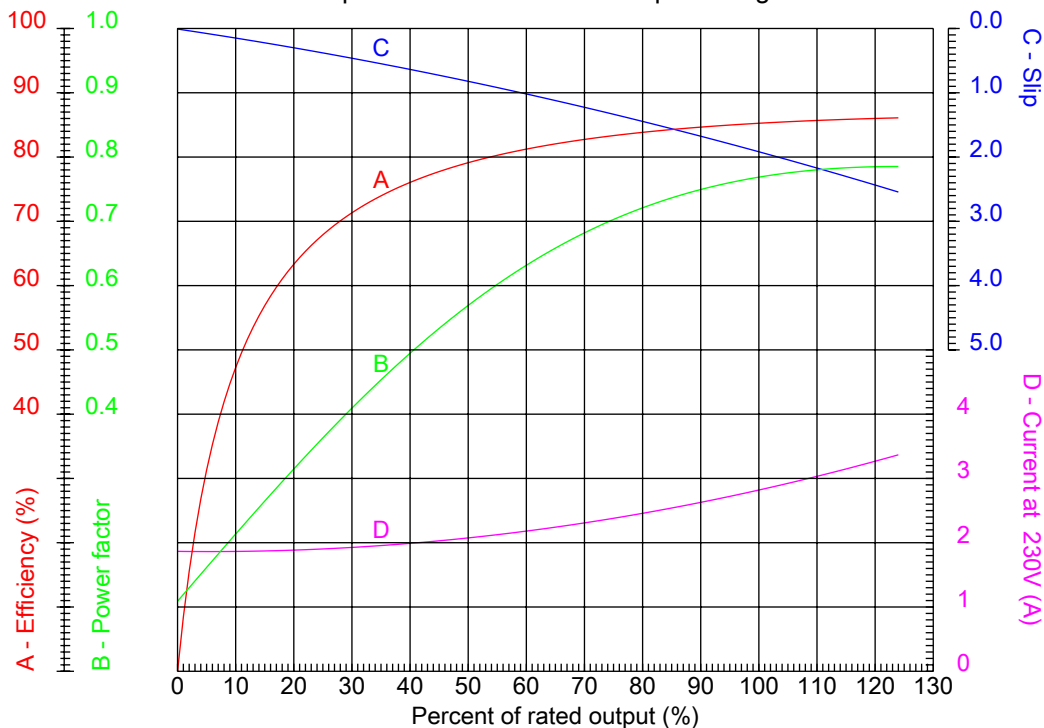


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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 143T | Locked rotor current (I _l /I _n) | : 8.6 |
| Output | : 1 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1765 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 290 % |
| Rated current | : 3.16-2.86/1.43 A | Breakdown torque | : 400 % |
| Insulation class | : F | | |

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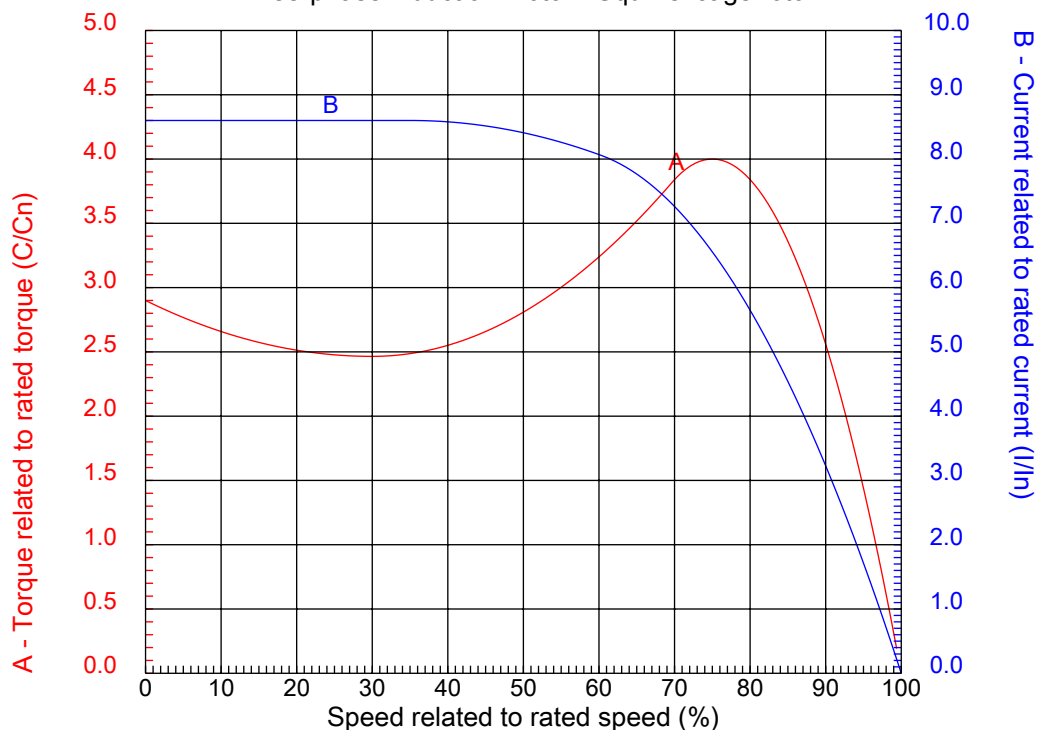
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 143T | Locked rotor current (I _l /I _n) | : 8.6 |
| Output | : 1 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1765 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 290 % |
| Rated current | : 3.16-2.86/1.43 A | Breakdown torque | : 400 % |
| 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 143T - IP55

12-SEP-2016



| | | | | |
|-------------|----------------|-------------|-------------|----------------|
| 2E 5.500 | A 6.457 | 2F 4.000 | B 5.157 | BA 2.250 |
| J 1.496 | K 1.654 | P 7.000 | ES 1.575 | depth 0.187 |
| S 0.187 | N-W 2.250 | U 0.875 | R 0.771 | AB 6.811 |
| D 3.500 | G 0.429 | O 7.000 | T 0.000 | H 0.344 |
| C 12.760 | AA NPT 3/4" | d1 A 4 | d2 A 4 | |

1 2 3 4 5 6 7 8

A

LOW VOLTAGE

HIGH VOLTAGE

B



C

L1 L2 L3

L1 L2 L3



D

E

F

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Customer:

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Three-phase induction motor
Frame 143T - IP55

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