



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

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

Catalog Number : 03036XT3E286TS

List Price : \$4,262

Notes:

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Generated for Model #03036XT3E286TS

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Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

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

Frame : 286TS
 Output : 30 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3545 rpm
 Slip : 1.53 %
 Voltage : 208-230/460 V
 Rated current : 74.5-67.4/33.7 A
 Locked rotor current : 519/259 A
 Locked rotor current (I_L/I_n) : 7.7
 No-load current : 19.6/9.80 A
 Full load torque : 43.8 lb.ft
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Design : B
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 14 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 529 lb
 Moment of inertia : 3.0785 sq.ft.lb
 Noise level : 75 dB(A)

| | D.E. | N.D.E. |
|---------------------|-------------|-------------|
| Bearings | 6311 2RS-C3 | 6211 2RS-C3 |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.88 | 93.0 |
| 75% | 0.86 | 93.0 |
| 50% | 0.78 | 92.4 |

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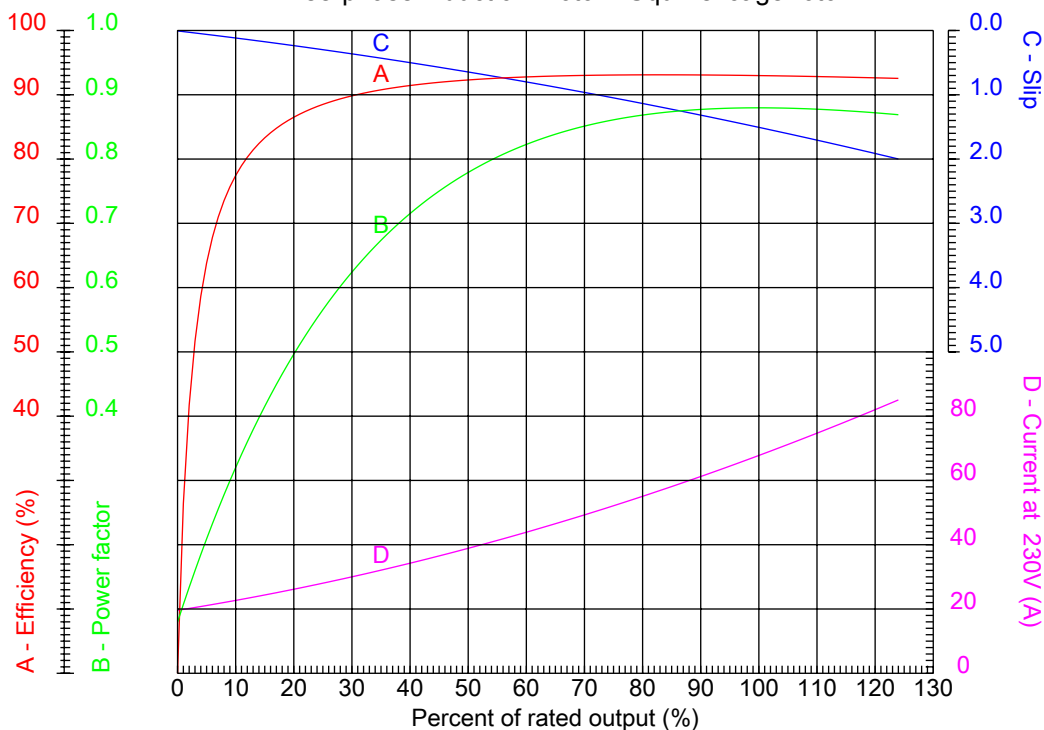
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 286TS | Locked rotor current (I _l /I _n) | : 7.7 |
| Output | : 30 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3545 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 260 % |
| Rated current | : 74.5-67.4/33.7 A | Breakdown torque | : 300 % |
| Insulation class | : F | | |

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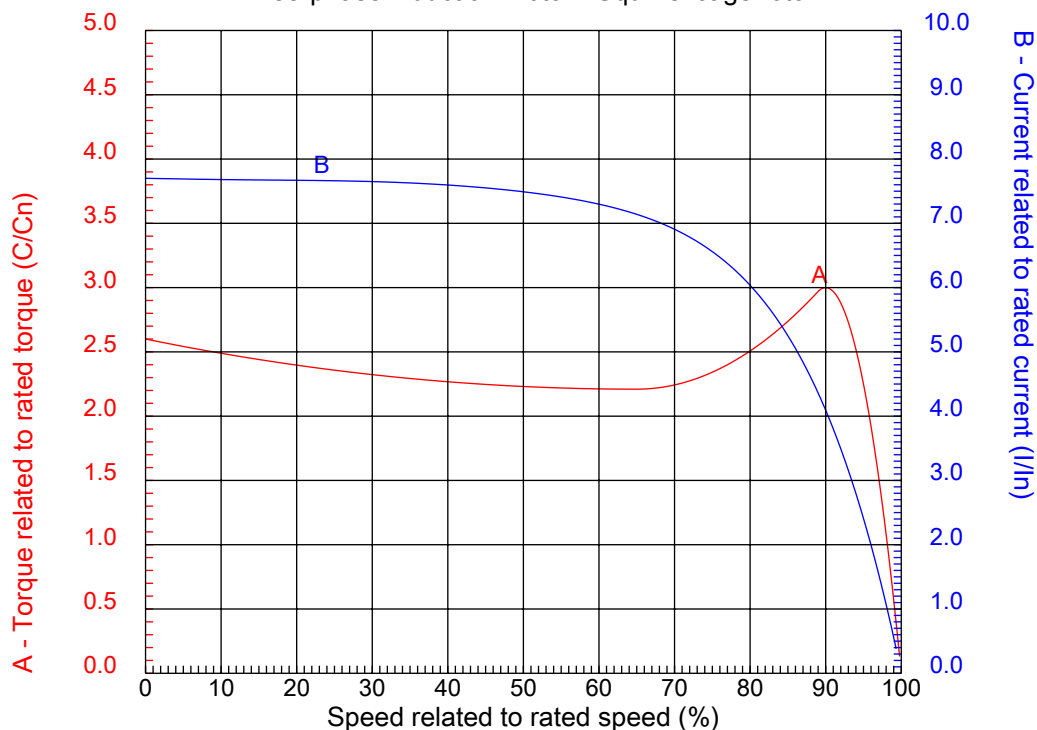
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



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

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 286TS | Locked rotor current (I _l /I _n) | : 7.7 |
| Output | : 30 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3545 rpm | Design | : B |
| Voltage | : 208-230/460 V | Locked rotor torque | : 260 % |
| Rated current | : 74.5-67.4/33.7 A | Breakdown torque | : 300 % |
| 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 286TS - IP55

23-SEP-2016



| | | | | |
|--------------|------------------|--------------|-------------|----------------|
| 2E 11.000 | A 13.780 | 2F 11.000 | B 13.071 | BA 4.750 |
| J 3.150 | K 2.953 | P 14.094 | ES 2.480 | depth 0.375 |
| S 0.375 | N-W 3.250 | U 1.625 | R 1.406 | AB 11.850 |
| D 7.000 | G 1.024 | O 14.362 | T 2.441 | H 0.531 |
| C 26.531 | AA NPT 1 1/2" | d1 A 4 | d2 A 4 | |

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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Customer:

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Three-phase induction motor
Frame 286TS - IP55

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