



Dealers Industrial Equipment

No.:

Date: 12-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Catalog Number : .5036OT3E56-S

List Price : \$258

Notes:

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No.:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Frame : 56
 Output : 0.5 HP
 Frequency : 60 Hz
 Poles : 2
 Full load speed : 3490 rpm
 Slip : 3.06 %
 Voltage : 208-230/460 V
 Rated current : 1.79-1.62/0.811 A
 Locked rotor current : 10.1/5.03 A
 Locked rotor current (I_L/I_n) : 6.2
 No-load current : 1.10/0.550 A
 Full load torque : 0.742 lb.ft
 Locked rotor torque : 230 %
 Breakdown torque : 280 %
 Design : A
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 39 s (hot)
 Service factor : 1.25
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : ODP
 Approximate weight : 17 lb
 Moment of inertia : 0.03892 sq.ft.lb
 Noise level : 62 dB(A)

| | D.E. | N.D.E. |
|---------------------|---------|---------|
| Bearings | 6203 ZZ | 6202 ZZ |
| Regreasing interval | --- | --- |
| Grease amount | --- | --- |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.78 | 73.4 |
| 75% | 0.69 | 70.0 |
| 50% | 0.57 | 64.0 |

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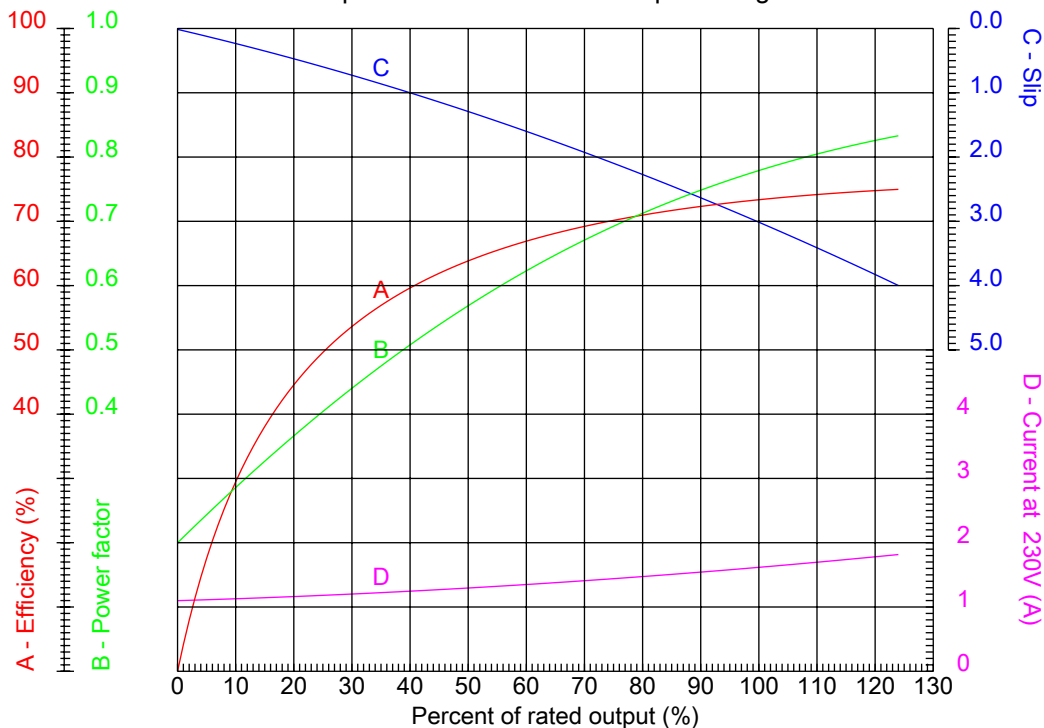
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

| | | | |
|------------------|---------------------|--|---------|
| Frame | : 56 | Locked rotor current (I _l /I _n) | : 6.2 |
| Output | : 0.5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.25 |
| Full load speed | : 3490 rpm | Design | : A |
| Voltage | : 208-230/460 V | Locked rotor torque | : 230 % |
| Rated current | : 1.79-1.62/0.811 A | Breakdown torque | : 280 % |
| Insulation class | : F | | |

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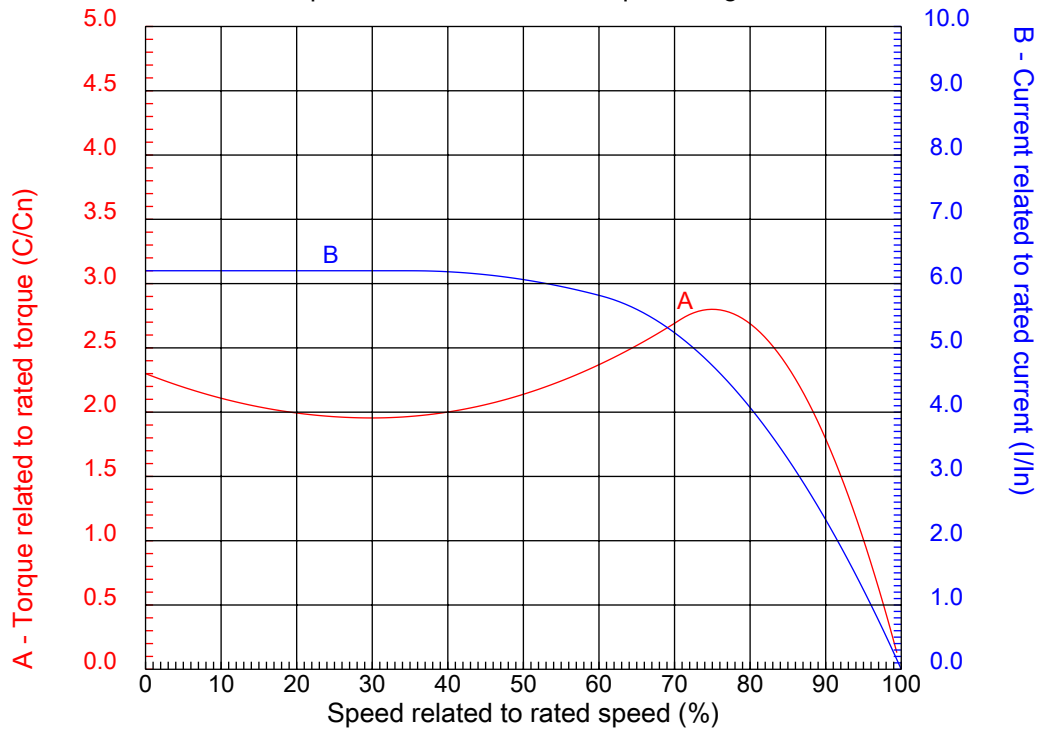
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

| | | | |
|------------------|---------------------|--|---------|
| Frame | : 56 | Locked rotor current (I _l /I _n) | : 6.2 |
| Output | : 0.5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.25 |
| Full load speed | : 3490 rpm | Design | : A |
| Voltage | : 208-230/460 V | Locked rotor torque | : 230 % |
| Rated current | : 1.79-1.62/0.811 A | Breakdown torque | : 280 % |
| Insulation class | : F | | |

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1 2 3 4 5 6 7 8

A

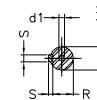
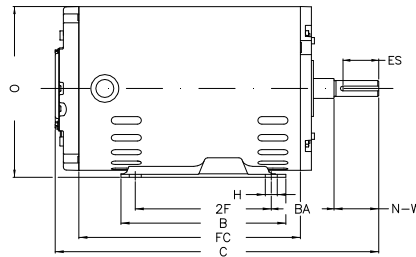
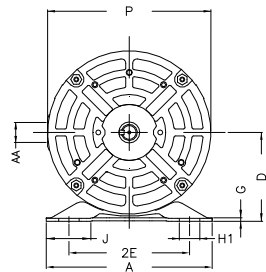
B

C

D

E

F



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Performed by:

Checked:

Customer:

Three Phase: W01 (Rolled Steel) - ODP - Premium Efficiency (DOE)

Three-phase induction motor
Frame 56 - ODP

12-SEP-2016



| | | | | |
|-------|----------|-------|--------|--------|
| P | AB | J | 2E | A |
| 6.456 | 3.323 | 1.732 | 4.874 | 6.535 |
| H | G | HB | HK | T |
| 0.343 | 0.120 | 1.784 | 2.629 | 0.004 |
| O | FC | 2F | B | C |
| 6.724 | 6.299 | 3.000 | 4.016 | 10.315 |
| BA | N-W | ES | d1 | S |
| 2.750 | 1.874 | 1.417 | A 3.15 | 0.187 |
| U | AA | depth | R | LL |
| 0.625 | NPT 1/2" | 0.187 | 0.517 | 4.563 |
| LM | BB | D | | |
| 4.090 | 0.004 | 3.500 | | |