



No.:

Date: 20-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Catalog Number : 12536OT3G404TS

List Price : \$8,826

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Frame : 404TS
Output : 125 HP
Frequency : 60 Hz
Poles : 2
Full load speed : 3550
Slip : 1.39 %
Voltage : 460 V
Rated current : 136 A
Locked rotor current : 884 A
Locked rotor current (I_L/I_n) : 6.5
No-load current : 28.0 A
Full load torque : 182 lb.ft
Locked rotor torque : 180 %
Breakdown torque : 280 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 11 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP23
Approximate weight : 986 lb
Moment of inertia : 10.216 sq.ft.lb
Noise level : 84 dB(A)

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings | 6314 C3 | 6314 C3 | 100% | 0.90 | 94.5 |
| Regreasing interval | 14418 h | 14418 h | 75% | 0.89 | 94.5 |
| Grease amount | 27 g | 27 g | 50% | 0.86 | 94.1 |

Notes:

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Checked

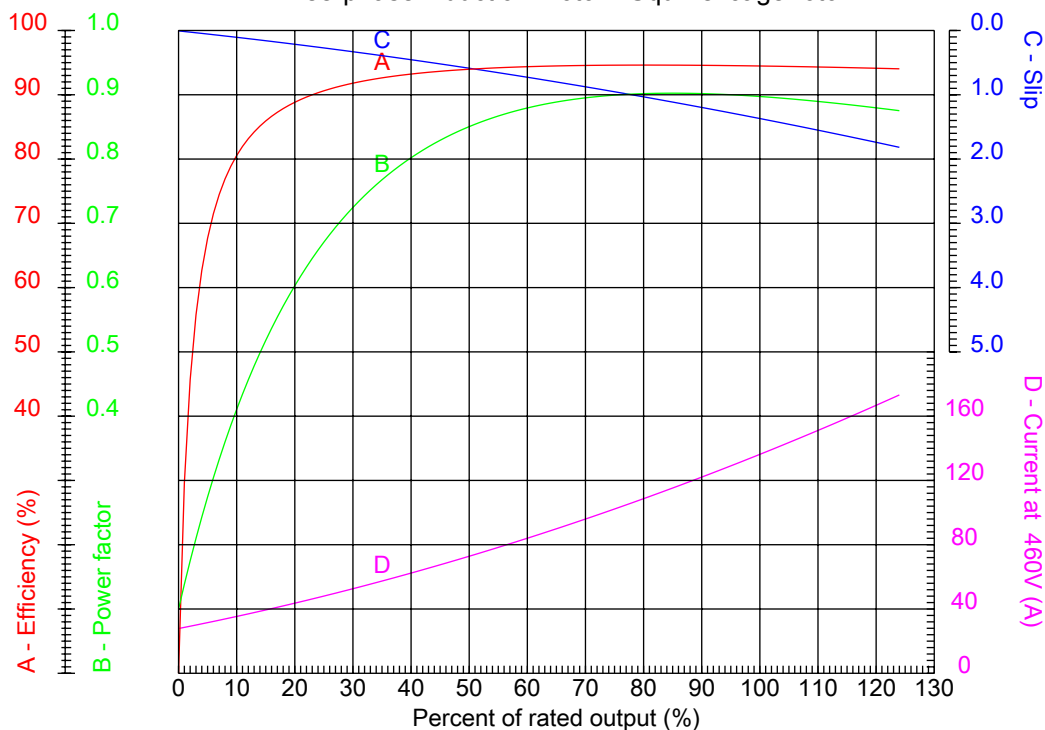


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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

| | | | |
|------------------|----------|--|---------|
| Frame | : 404TS | Locked rotor current (I _l /I _n) | : 6.5 |
| Output | : 125 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3550 | Design | : B |
| Voltage | : 460 V | Locked rotor torque | : 180 % |
| Rated current | : 136 A | Breakdown torque | : 280 % |
| Insulation class | : F | | |

Notes:

Performed by

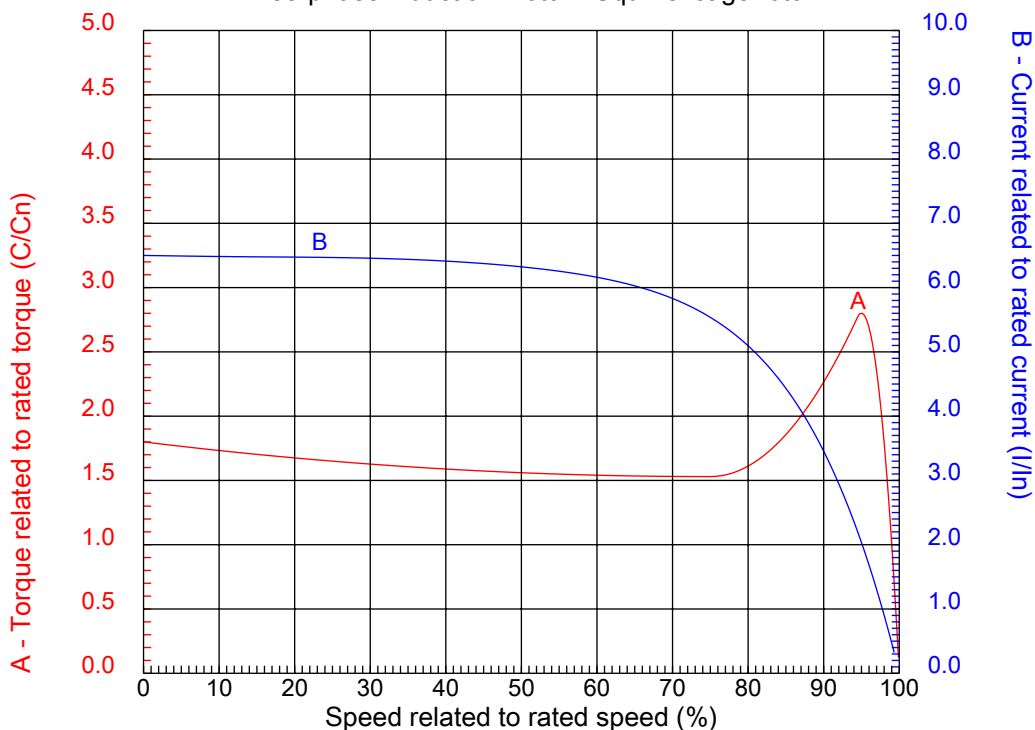
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CHARACTERISTIC CURVES RELATED TO SPEED Three-phase induction motor - Squirrel cage rotor



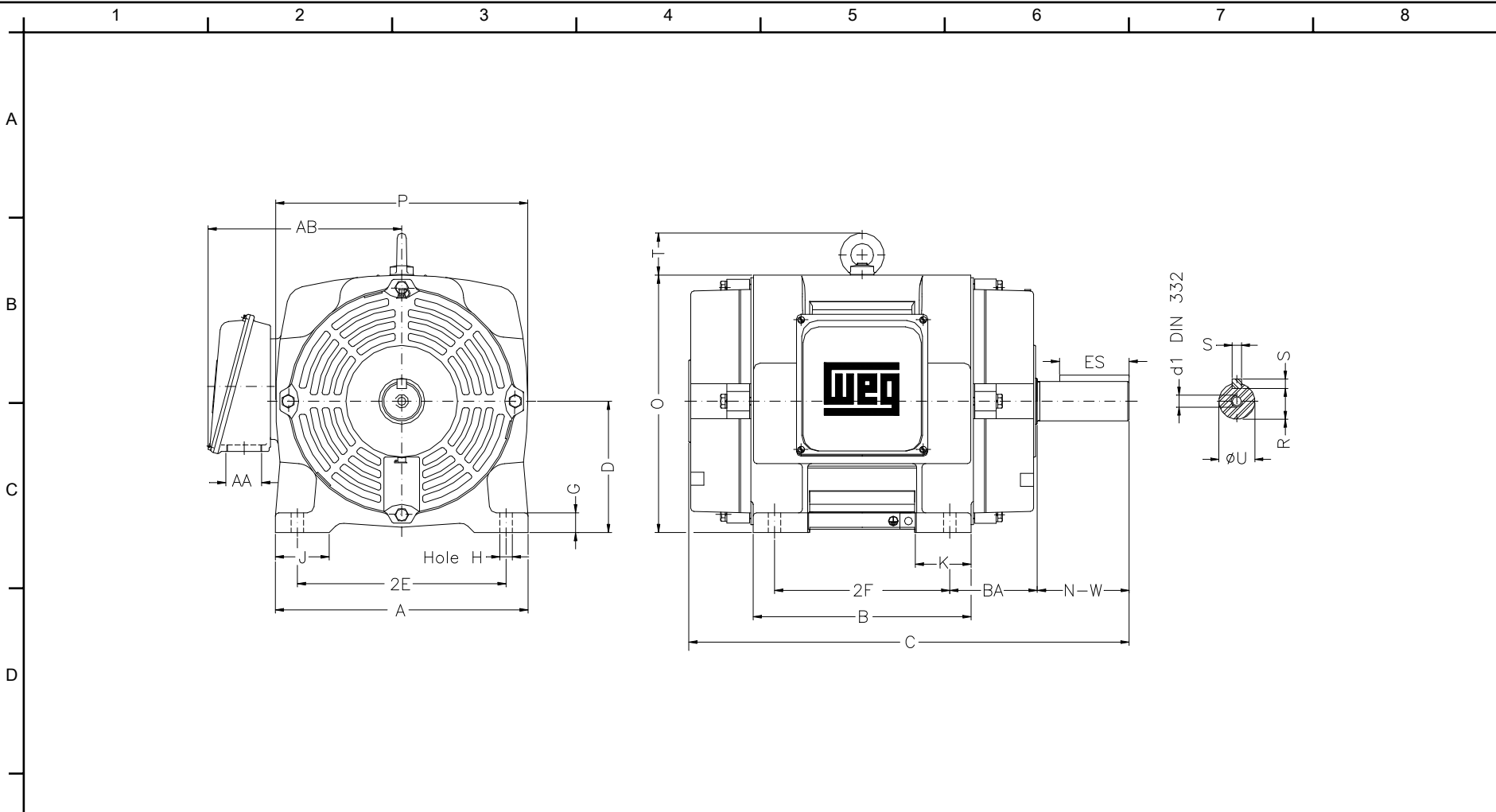
Customer :
Product line : Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

| | | | |
|------------------|----------|--|---------|
| Frame | : 404TS | Locked rotor current (I _l /I _n) | : 6.5 |
| Output | : 125 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 3550 | Design | : B |
| Voltage | : 460 V | Locked rotor torque | : 180 % |
| Rated current | : 136 A | Breakdown torque | : 280 % |
| Insulation class | : F | | |

Notes:

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Checked



Notes:

| | | | | |
|------------------|--------------|---------------------|--------------------|--------------------|
| 2E 16.000 | A 19.950 | 2F 12.250/13.750 | B 17.700 | BA 6.625 |
| J 3.950 | K 5.440 | P 17.874 | ES 2.756 | depth 0.500 |
| S 0.500 | D 10.000 | N-W 4.250 | G 1.968 | U 2.125 |
| O 19.409 | T 2.8 | HD 22.209 | R 1.842 | H 0.807 |
| AB 16.378 | C 31.141 | AA NPT 3" | d1 DUNC 3/4"-10 | d2 DUNC 3/4"-10 |
| Flange FD-508 | AJ 20.000 | AK 18.000 | BD 21.653 | BF 0.828 |
| BB 0.250 | | | | |

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Three-Phase : ODP (IP21/IP23) - NEMA Premium Efficiency

Three-phase induction motor
Frame 404TS - IP23

20-DEC-2012

