



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Catalog Number : 03012ST3HIE326T-W22

List Price : \$5,359

Notes:

Performed by:

Checked:



No.:

Date: 27-DEC-2012

DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Frame : 326T
Output : 30 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1180
Slip : 1.67 %
Voltage : 575 V
Rated current : 28.6 A
Locked rotor current : 178 A
Locked rotor current (I_L/I_n) : 6.2
No-load current : 12.8 A
Full load torque : 132 lb.ft
Locked rotor torque : 230 %
Breakdown torque : 260 %
Design : B
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 21 s (hot)
Service factor : 1.25
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 553 lb
Moment of inertia : 13.196 sq.ft.lb
Noise level : 62 dB(A)

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings | 6312 C3 | 6212 C3 | 100% | 0.83 | 93.0 |
| Regreasing interval | 20000 h | 20000 h | 75% | 0.77 | 93.0 |
| Grease amount | 21 g | 13 g | 50% | 0.65 | 91.7 |

Notes:

Performed by

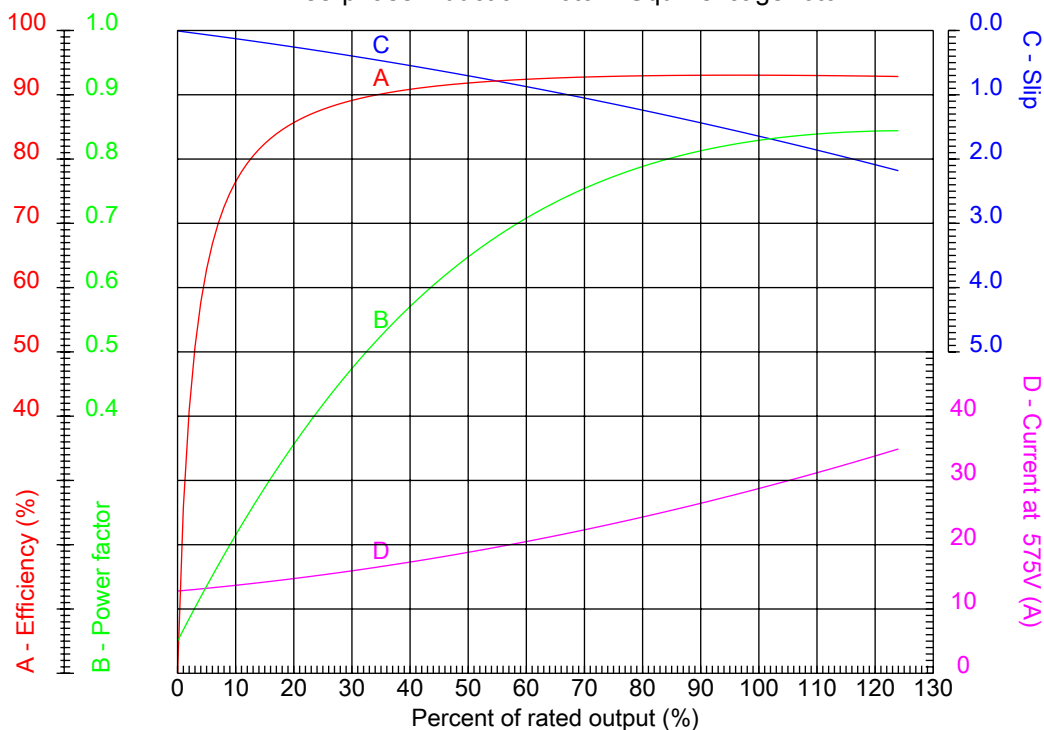
Checked



No.:

Date: 27-DEC-2012

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



Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

| | | | |
|------------------|----------|--|---------|
| Frame | : 326T | Locked rotor current (I _L /I _n) | : 6.2 |
| Output | : 30 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.25 |
| Full load speed | : 1180 | Design | : B |
| Voltage | : 575 V | Locked rotor torque | : 230 % |
| Rated current | : 28.6 A | Breakdown torque | : 260 % |
| Insulation class | : F | | |

Notes:

Performed by

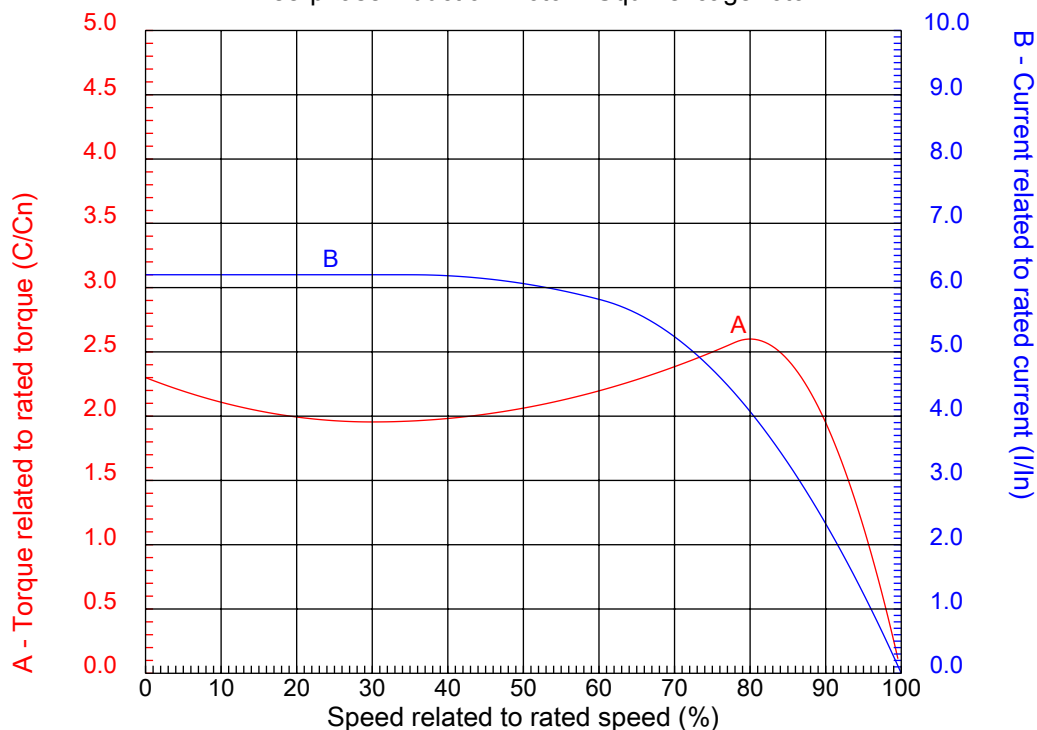
Checked



No.:

Date: 27-DEC-2012

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



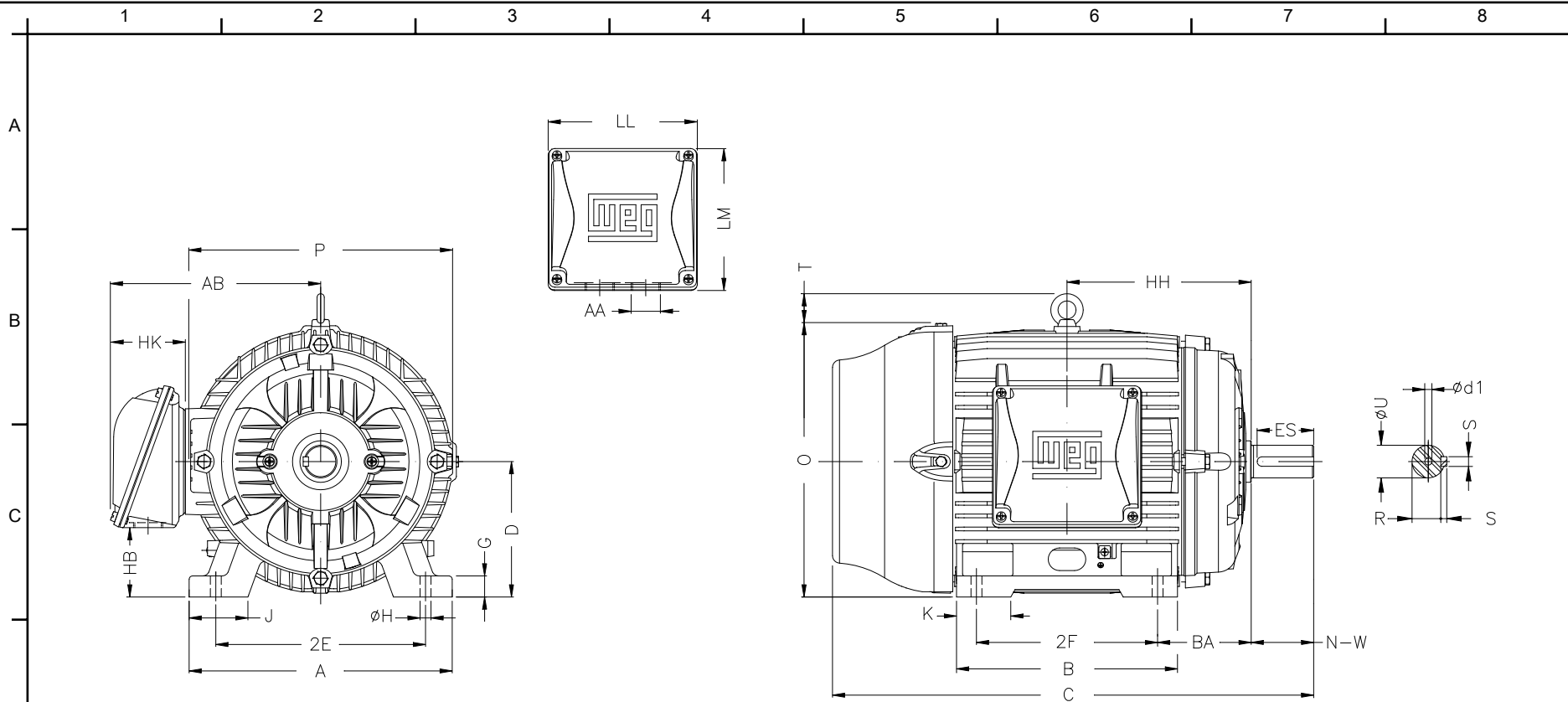
Customer :
Product line : Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

| | | | |
|------------------|----------|--|---------|
| Frame | : 326T | Locked rotor current (I _l /I _n) | : 6.2 |
| Output | : 30 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.25 |
| Full load speed | : 1180 | Design | : B |
| Voltage | : 575 V | Locked rotor torque | : 230 % |
| Rated current | : 28.6 A | Breakdown torque | : 260 % |
| Insulation class | : F | | |

Notes:

Performed by

Checked



| | | | | | |
|---|--------------|------------------|--------------|--------------|----------------|
| E | 2E 12.500 | J 3.189 | A 15.157 | P 15.827 | AB 12.480 |
| | 2F 12.000 | K 3.189 | B 14.567 | BA 5.250 | U 2.125 |
| | N-W 5.250 | ES 3.937 | S 0.500 | R 1.844 | depth 0.500 |
| | D 8.000 | G 1.300 | HB 4.811 | O 15.953 | T 2.441 |
| | HD 18.394 | HF 8.708 | HH 11.250 | HK 4.645 | H 0.657 |
| F | C 31.116 | LL 8.976 | LM 8.543 | AA NPT 2" | d1 A 4 |
| | d2 A 4 | Flange FD-406 | AJ 16.000 | AK 14.000 | BD 18.00 |
| | BF 0.828 | BB 0.203 | | | |

Notes:

Performed by:

Checked:

Customer:

Three-Phase: W22 IEEE-841™ Petrochem Motors - NEMA Premium® Efficiency

Three-phase induction motor
Frame 326T - IP55

27-DEC-2012

