



No.:

Date: 27-DEC-2012

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Oil Well Pumping : High Slip - NEMA Design "D" - TEFC (IP55)

Catalog Number : 00512ES3EOW215T

List Price : \$1,170

Notes:

Performed by:

Checked:



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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : Oil Well Pumping : High Slip - NEMA Design "D" - TEFC (IP55)

Frame : 215T
Output : 5 HP
Frequency : 60 Hz
Poles : 6
Full load speed : 1070
Slip : 10.83 %
Voltage : 208-230/460 V
Rated current : 16.4-14.8/7.40 A
Locked rotor current : 91.8/45.9 A
Locked rotor current (I_L/I_n) : 6.2
No-load current : 7.00/3.50 A
Full load torque : 24.2 lb.ft
Locked rotor torque : 380 %
Breakdown torque : 0 %
Design : D
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 25 s (hot)
Service factor : 1.15
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 170 lb
Moment of inertia : 1.5638 sq.ft.lb
Noise level : 55 dB(A)

| | D.E. | N.D.E. | Load | Power factor | Efficiency (%) |
|---------------------|---------|---------|------|--------------|----------------|
| Bearings | 6308 ZZ | 6207 ZZ | 100% | 0.81 | 77.5 |
| Regreasing interval | --- | --- | 75% | 0.73 | 78.1 |
| Grease amount | --- | --- | 50% | 0.61 | 77.5 |

Notes:

Performed by

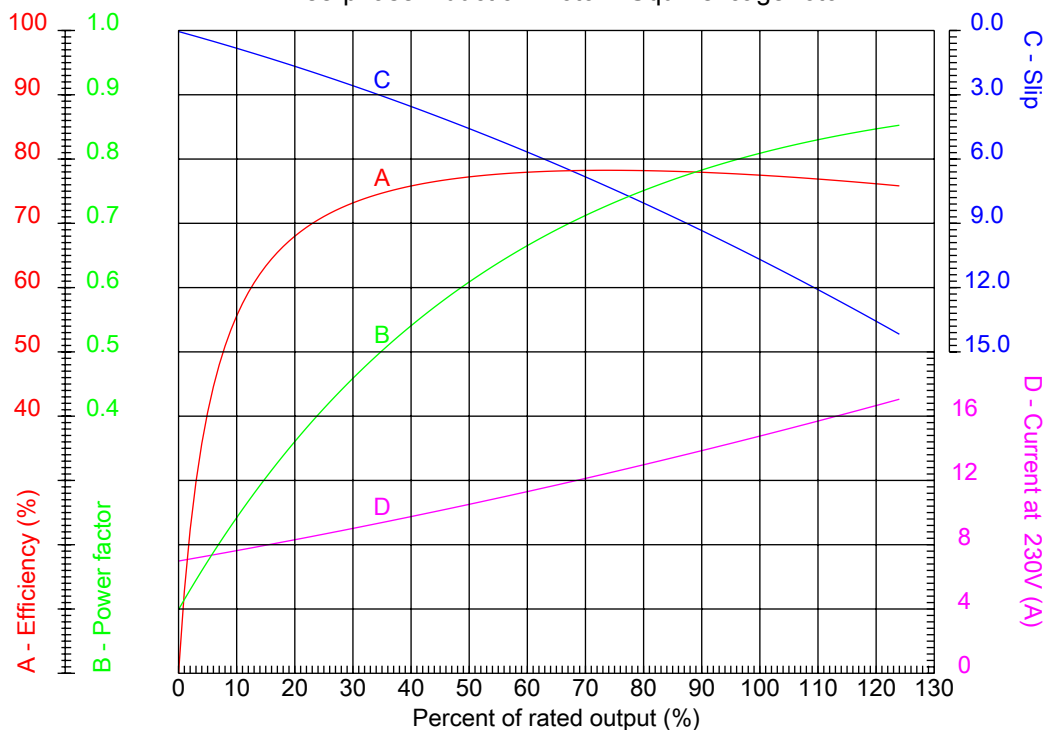
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PERFORMANCE CURVES RELATED TO RATED OUTPUT Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Oil Well Pumping : High Slip - NEMA Design "D" - TEFC (IP55)

| | |
|----------------------------------|--|
| Frame : 215T | Locked rotor current (I _l /I _n) : 6.2 |
| Output : 5 HP | Duty cycle : S1 |
| Frequency : 60 Hz | Service factor : 1.15 |
| Full load speed : 1070 | Design : D |
| Voltage : 208-230/460 V | Locked rotor torque : 380 % |
| Rated current : 16.4-14.8/7.40 A | Breakdown torque : 0 % |
| Insulation class : F | |

Notes:

Performed by

Checked

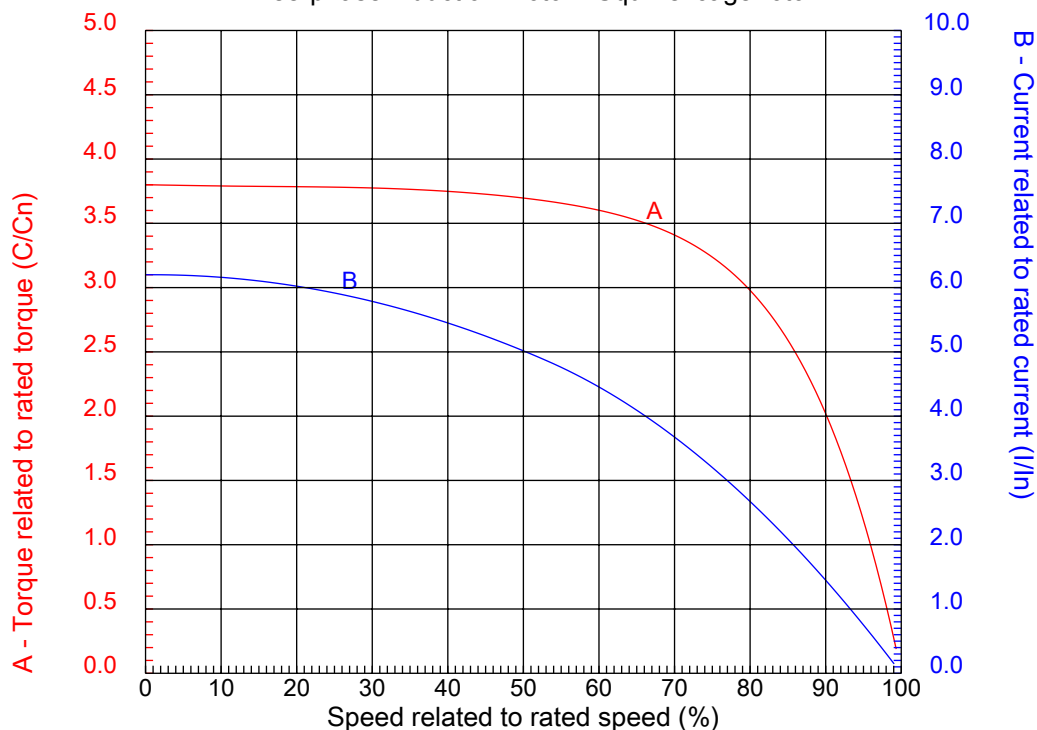


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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Oil Well Pumping : High Slip - NEMA Design "D" - TEFC (IP55)

| | | | |
|------------------|--------------------|--|---------|
| Frame | : 215T | Locked rotor current (I _l /I _n) | : 6.2 |
| Output | : 5 HP | Duty cycle | : S1 |
| Frequency | : 60 Hz | Service factor | : 1.15 |
| Full load speed | : 1070 | Design | : D |
| Voltage | : 208-230/460 V | Locked rotor torque | : 380 % |
| Rated current | : 16.4-14.8/7.40 A | Breakdown torque | : 0 % |
| Insulation class | : F | | |

Notes:

Performed by

Checked

