



# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

## TECHNICAL PROPOSAL

### Three-phase induction motor - Squirrel cage rotor

Product line : Three Phase: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency

Catalog Number : 01536ET3H254TC-S

List Price : \$1,649

#### Notes:

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# Dealers Industrial Equipment

No.:

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## DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :  
 Product line : Three Phase: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency

Frame : 213/5T  
 Output : 15 HP  
 Frequency : 60 Hz  
 Poles : 2  
 Full load speed : 3520 rpm  
 Slip : 2.22 %  
 Voltage : 575 V  
 Rated current : 13.6 A  
 Locked rotor current : 112 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 8.2  
 No-load current : 4.98 A  
 Full load torque : 22.1 lb.ft  
 Locked rotor torque : 280 %  
 Breakdown torque : 330 %  
 Design : A  
 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 m  
 Degree of Protection : IP55  
 Approximate weight : 154 lb  
 Moment of inertia : 0.63407 sq.ft.lb  
 Noise level : 70 dB(A)

|                     | D.E.    | N.D.E.  |
|---------------------|---------|---------|
| Bearings            | 6208 ZZ | 6206 ZZ |
| Regreasing interval | ---     | ---     |
| Grease amount       | ---     | ---     |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.89         | 91.0           |
| 75%  | 0.85         | 91.0           |
| 50%  | 0.76         | 90.2           |

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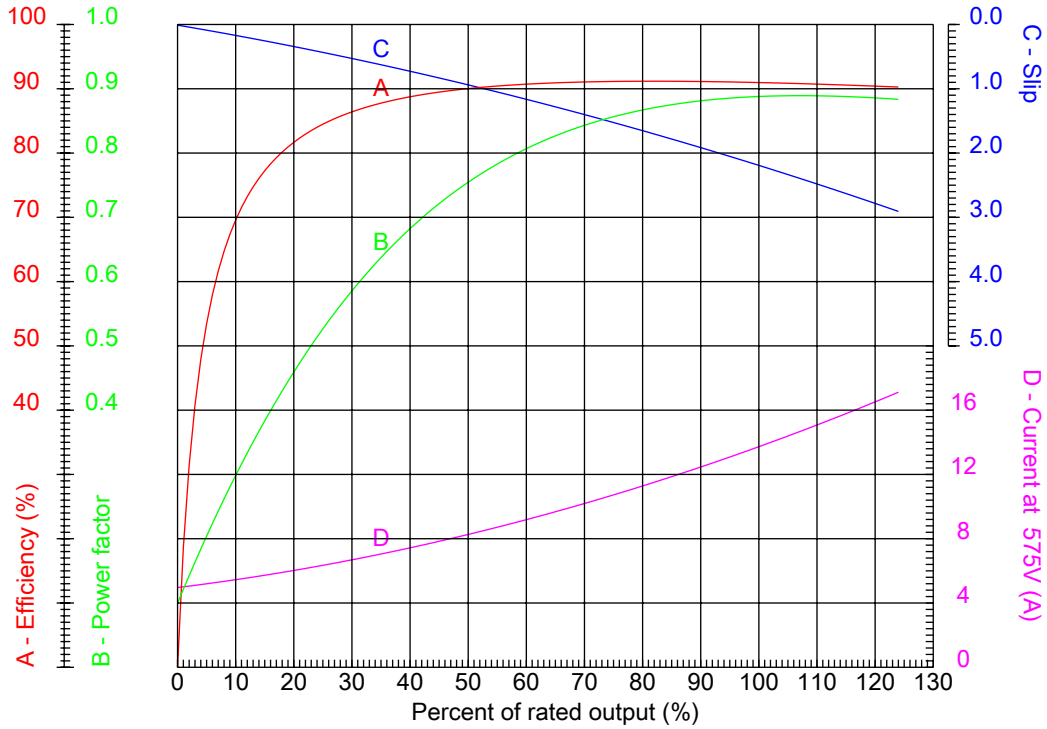
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No.:

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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) - TEFC - NEMA Premium Efficiency

|                  |            |  |         |
|------------------|------------|--|---------|
| Frame            | : 213/5T   | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 8.2   |
| Output           | : 15 HP    | Duty cycle   | : S1    |
| Frequency        | : 60 Hz    | Service factor   | : 1.15  |
| Full load speed  | : 3520 rpm | Design   | : A     |
| Voltage          | : 575 V    | Locked rotor torque                                    | : 280 % |
| Rated current    | : 13.6 A   | Breakdown torque                                       | : 330 % |
| Insulation class | : F        |  |         |

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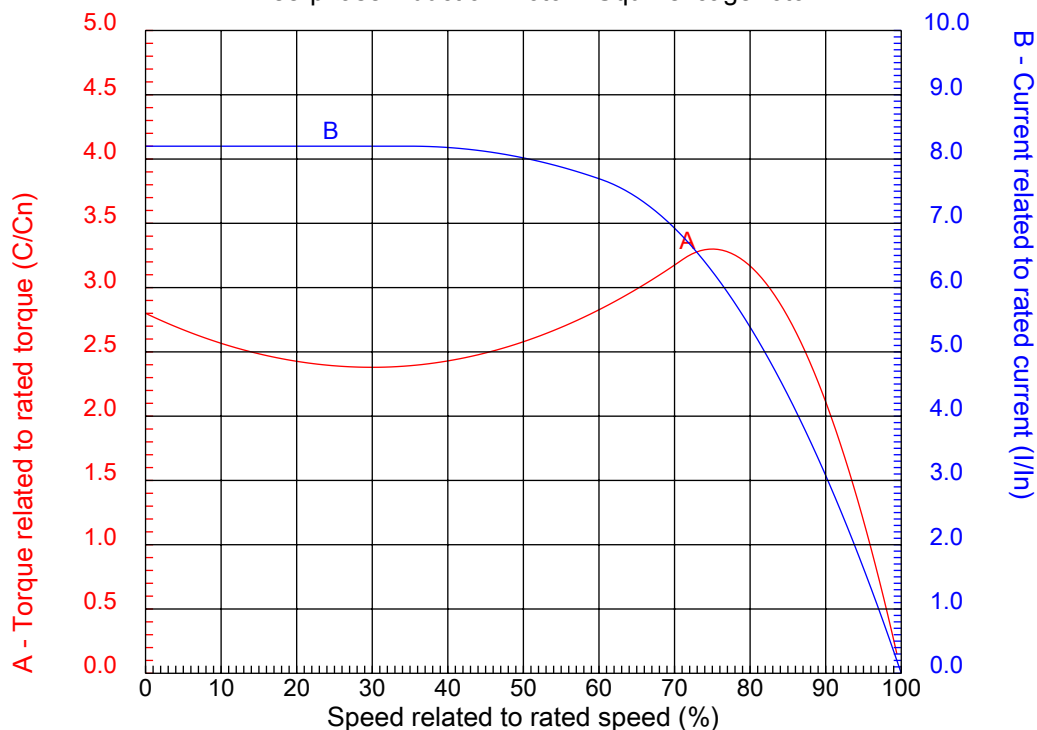
# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

## CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : Three Phase: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency

|                  |            |  |         |
|------------------|------------|--|---------|
| Frame            | : 213/5T   | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 8.2   |
| Output           | : 15 HP    | Duty cycle   | : S1    |
| Frequency        | : 60 Hz    | Service factor   | : 1.15  |
| Full load speed  | : 3520 rpm | Design   | : A     |
| Voltage          | : 575 V    | Locked rotor torque                                    | : 280 % |
| Rated current    | : 13.6 A   | Breakdown torque                                       | : 330 % |
| 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: W01 (Rolled Steel) - TEFC - NEMA Premium Efficiency

Three-phase induction motor  
Frame 213/5T - IP55

23-SEP-2016

