



## Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

### TECHNICAL PROPOSAL

## Three-phase induction motor - Squirrel cage rotor

Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Catalog Number : 02518ET3ECT284TF1-W2

List Price : \$3,236

#### Notes:

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## Dealers Industrial Equipment

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### DATA SHEET

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

Customer :  
Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

Frame : 284T  
Output : 25 HP  
Frequency : 60 Hz  
Poles : 4  
Full load speed : 1765 rpm  
Slip : 1.94 %  
Voltage : 208-230/460 V  
Rated current : 65.2-59.0/29.5 A  
Locked rotor current : 366/183 A  
Locked rotor current (I<sub>L</sub>/I<sub>N</sub>) : 6.2  
No-load current : 21.0/10.5 A  
Full load torque : 73.4 lb.ft  
Locked rotor torque : 240 %  
Breakdown torque : 270 %  
Design : B  
Insulation class : F  
Temperature rise : 80 K  
Locked rotor time : 24 s (hot)  
Service factor : 1.25  
Duty cycle : S1  
Ambient temperature : -20°C - +40°C  
Altitude : 1000 m  
Degree of Protection : IP55  
Approximate weight : 388 lb  
Moment of inertia : 5.1084 sq.ft.lb  
Noise level : 64 dB(A)

|                     | D.E.        | N.D.E.      |
|---------------------|-------------|-------------|
| Bearings            | 6311 2RS-C3 | 6211 2RS-C3 |
| Regreasing interval | ---         | ---         |
| Grease amount       | ---         | ---         |

| Load | Power factor | Efficiency (%) |
|------|--------------|----------------|
| 100% | 0.84         | 93.6           |
| 75%  | 0.80         | 93.0           |
| 50%  | 0.70         | 92.4           |

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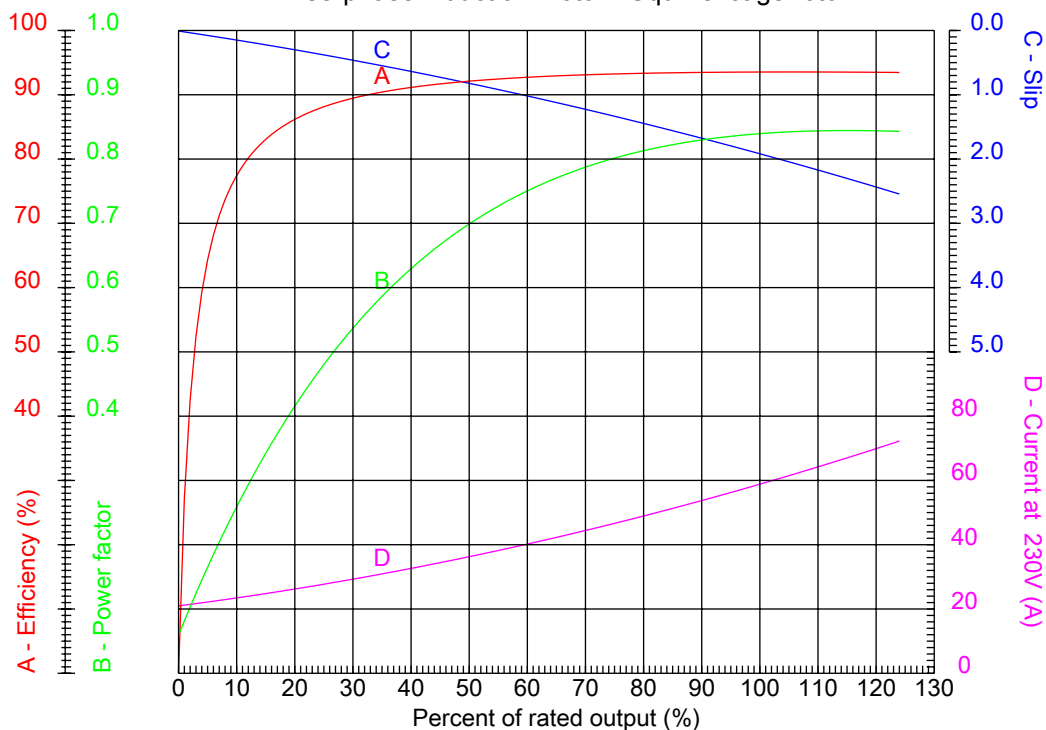
## Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

### PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

|                  |                    |                                                        |         |
|------------------|--------------------|--------------------------------------------------------|---------|
| Frame            | : 284T             | Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) | : 6.2   |
| Output           | : 25 HP            | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz            | Service factor                                         | : 1.25  |
| Full load speed  | : 1765 rpm         | Design                                                 | : B     |
| Voltage          | : 208-230/460 V    | Locked rotor torque                                    | : 240 % |
| Rated current    | : 65.2-59.0/29.5 A | Breakdown torque                                       | : 270 % |
| Insulation class | : F                |                                                        |         |

Notes:  
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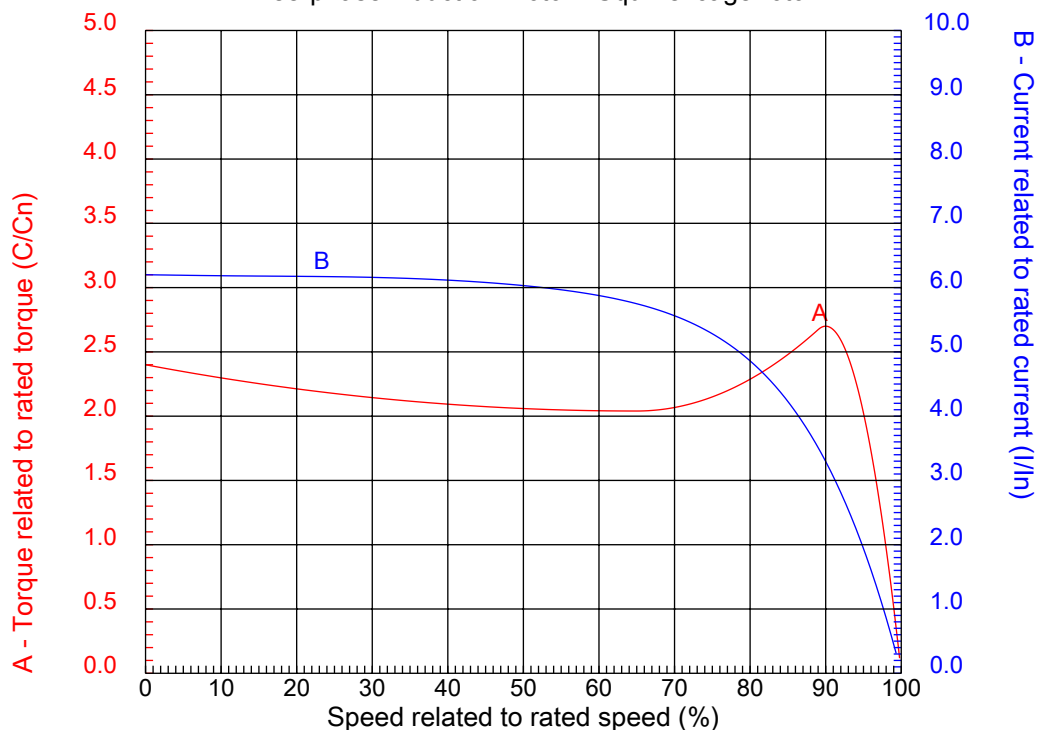
## Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :  
Product line : W22 Cooling Tower Motors: NEMA Premium - TEFC

|                  |                    |                                                        |         |
|------------------|--------------------|--------------------------------------------------------|---------|
| Frame            | : 284T             | Locked rotor current (I <sub>L</sub> /I <sub>n</sub> ) | : 6.2   |
| Output           | : 25 HP            | Duty cycle                                             | : S1    |
| Frequency        | : 60 Hz            | Service factor                                         | : 1.25  |
| Full load speed  | : 1765 rpm         | Design                                                 | : B     |
| Voltage          | : 208-230/460 V    | Locked rotor torque                                    | : 240 % |
| Rated current    | : 65.2-59.0/29.5 A | Breakdown torque                                       | : 270 % |
| Insulation class | : F                |                                                        |         |

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1 2 3 4 5 6 7 8

A

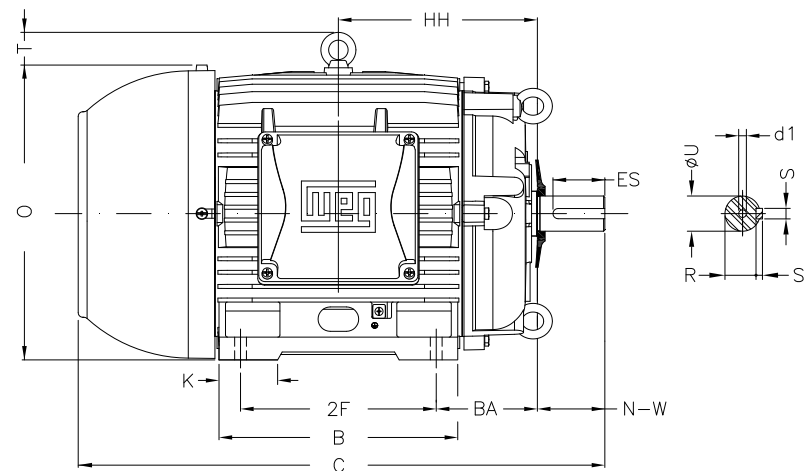
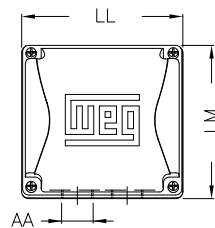
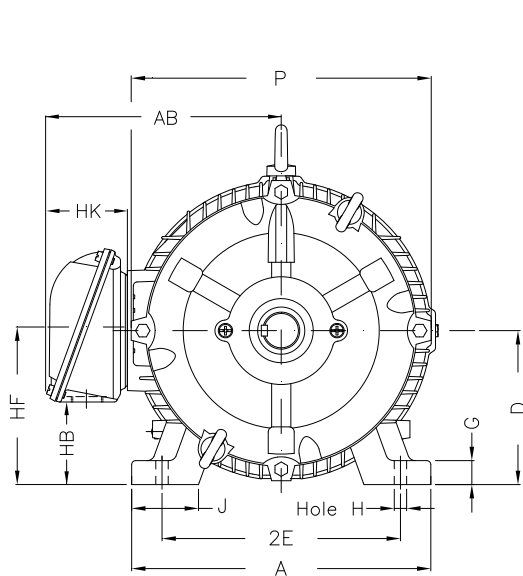
B

C

D

E

F



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Performed by:

Checked:

Customer:

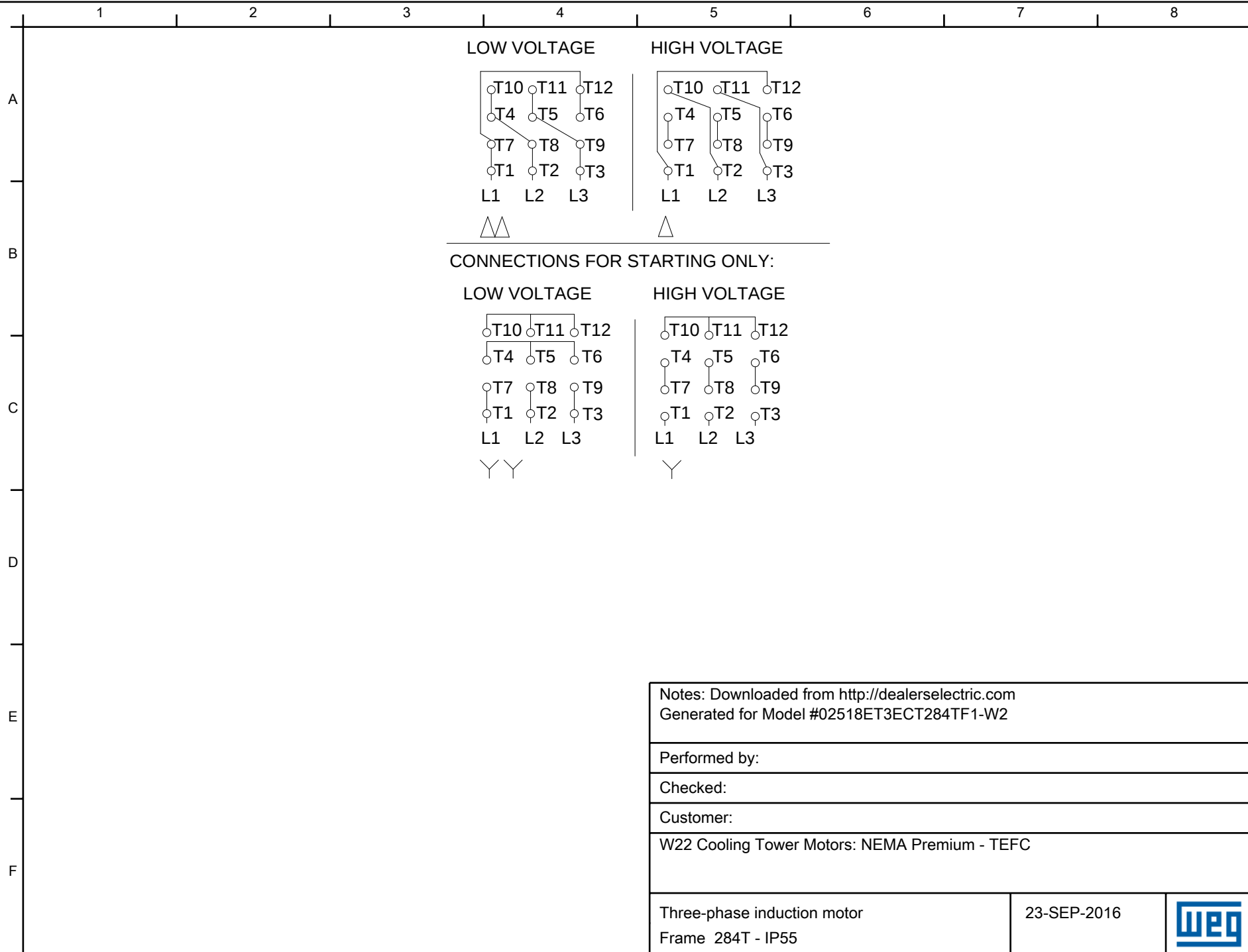
W22 Cooling Tower Motors: NEMA Premium - TEFC

Three-phase induction motor  
Frame 284T - IP55

23-SEP-2016



|              |             |                  |             |                |
|--------------|-------------|------------------|-------------|----------------|
| 2E<br>11.000 | J<br>3.071  | A<br>13.780      | P<br>13.780 | AB<br>11.073   |
| 2F<br>9.500  | K<br>3.583  | B<br>11.575      | BA<br>4.750 | U<br>1.875     |
| N-W<br>4.622 | ES<br>3.149 | S<br>0.500       | R<br>1.594  | depth<br>0.500 |
| D<br>7.000   | G<br>1.023  | HB<br>3.535      | O<br>14.067 | T<br>2.087     |
| HF<br>7.000  | HH<br>9.500 | HK<br>3.976      | H<br>0.531  | C<br>26.433    |
| LL<br>7.815  | LM<br>7.480 | AA<br>NPT 1 1/2" | d1<br>A 4   | d2<br>A 4      |



|                                                                                                                                         |             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
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| Performed by:                                                                                                                           |             |  |
| Checked:                                                                                                                                |             |  |
| Customer:                                                                                                                               |             |  |
| W22 Cooling Tower Motors: NEMA Premium - TEFC                                                                                           |             |  |
| Three-phase induction motor<br>Frame 284T - IP55                                                                                        | 23-SEP-2016 |  |