



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -  
NEMA Premium Efficiency  
Catalog Number : 01518ET3H254JM-S  
List Price : \$2,609

Notes:  
Downloaded from <http://dealerselectric.com>  
Generated for Model #01518ET3H254JM-S

Performed by:

Checked:



# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

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

Customer :  
 Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

Frame : 254/6JM  
 Output : 15 HP  
 Frequency : 60 Hz  
 Poles : 4  
 Full load speed : 1770 rpm  
 Slip : 1.67 %  
 Voltage : 575 V  
 Rated current : 14.6 A  
 Locked rotor current : 96.1 A  
 Locked rotor current (I<sub>L</sub>/I<sub>n</sub>) : 6.6  
 No-load current : 6.92 A  
 Full load torque : 43.9 lb.ft  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Design : B  
 Insulation class : F  
 Temperature rise : 80 K  
 Locked rotor time : 19 s (hot)  
 Service factor : 1.15  
 Duty cycle : S1  
 Ambient temperature : -20°C - +40°C  
 Altitude : 1000 m  
 Degree of Protection : IP55  
 Approximate weight : 197 lb  
 Moment of inertia : 2.1457 sq.ft.lb  
 Noise level : 68 dB(A)

|                     | D.E.      | N.D.E.    | Load | Power factor | Efficiency (%) |
|---------------------|-----------|-----------|------|--------------|----------------|
| Bearings            | 6309 Z-C3 | 6208 Z-C3 | 100% | 0.82         | 92.4           |
| Regreasing interval | 20000 h   | 20000 h   | 75%  | 0.76         | 92.4           |
| Grease amount       | 13 g      | 8 g       | 50%  | 0.64         | 91.0           |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #01518ET3H254JM-S

Performed by

Checked



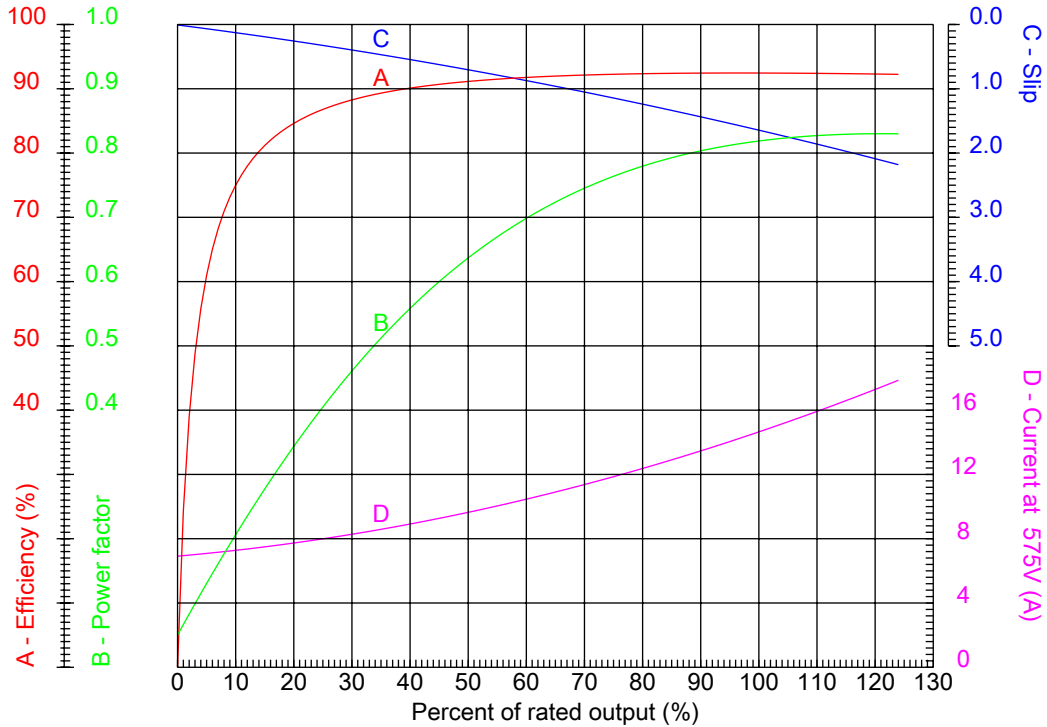
# Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

## PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :  
 Product line : Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency

|                  |            |  |         |
|------------------|------------|--|---------|
| Frame            | : 254/6JM  | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : 6.6   |
| Output           | : 15 HP    | Duty cycle   | : S1    |
| Frequency        | : 60 Hz    | Service factor   | : 1.15  |
| Full load speed  | : 1770 rpm | Design   | : B     |
| Voltage          | : 575 V    | Locked rotor torque                                    | : 250 % |
| Rated current    | : 14.6 A   | Breakdown torque                                       | : 300 % |
| Insulation class | : F        |  |         |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #01518ET3H254JM-S

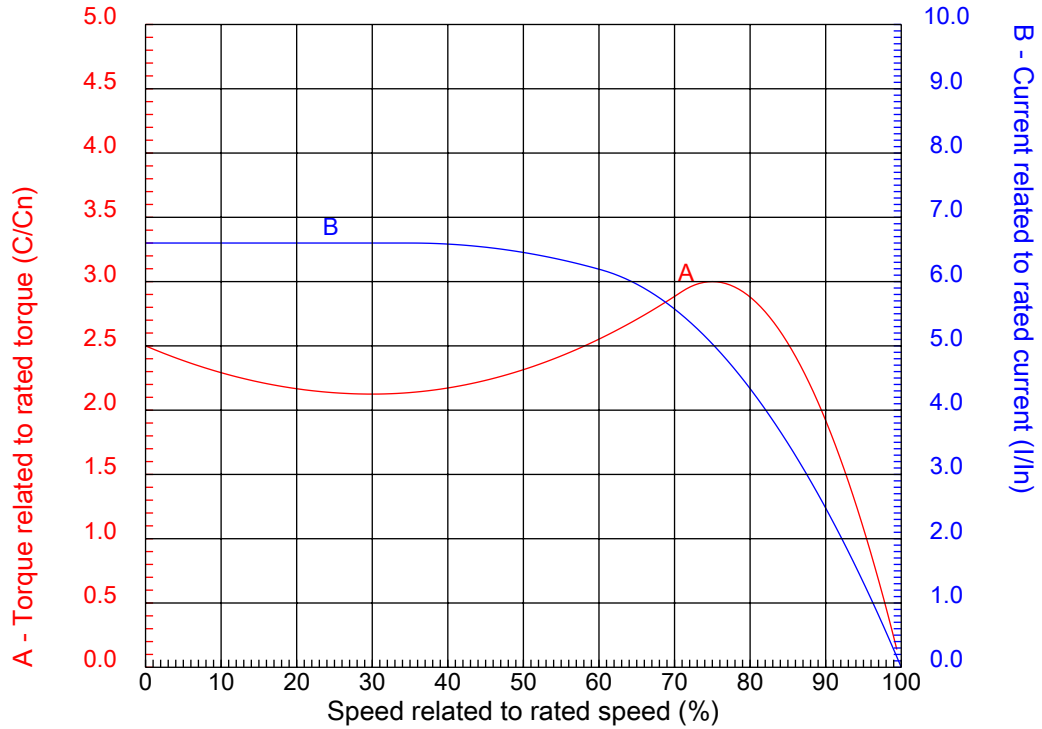
Performed by

Checked



### CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



|              |   |   |
|--------------|---|---|
| Customer     | : |   |
| Product line | : | Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC - NEMA Premium Efficiency |

|                  |   |          |  |   |       |
|------------------|---|----------|--|---|-------|
| Frame            | : | 254/6JM  | Locked rotor current (I <sub>l</sub> /I <sub>n</sub> ) | : | 6.6   |
| Output           | : | 15 HP    | Duty cycle   | : | S1    |
| Frequency        | : | 60 Hz    | Service factor   | : | 1.15  |
| Full load speed  | : | 1770 rpm | Design   | : | B     |
| Voltage          | : | 575 V    | Locked rotor torque                                    | : | 250 % |
| Rated current    | : | 14.6 A   | Breakdown torque                                       | : | 300 % |
| Insulation class | : | F        |  |   |       |

Notes:  
 Downloaded from <http://dealerselectric.com>  
 Generated for Model #01518ET3H254JM-S

|              |         |
|--------------|---------|
| Performed by | Checked |
|--------------|---------|

1 2 3 4 5 6 7 8

A

B

C

D

E

F



Notes: Downloaded from <http://dealerselectric.com>  
Generated for Model #01518ET3H254JM-S

|                    |                   |                  |              |             |
|--------------------|-------------------|------------------|--------------|-------------|
| 2E<br>10.000       | J<br>1.693        | A<br>11.417      | P<br>13.180  | AB<br>9.448 |
| 2F<br>8.252/10.000 | B<br>11.417       | BA<br>4.750      | D<br>6.250   | G<br>0.187  |
| O<br>12.010        | T<br>0.830        | H<br>0.530       | AA<br>1.732" | ER<br>5.250 |
| EQ<br>0.630        | ET<br>3.006       | U<br>1.249       | EM<br>1.375  | EL<br>1.750 |
| EP<br>1.769        | ES<br>2.559       | t1<br>1.024      | t2<br>1.496  | C<br>24.055 |
| CH<br>1.929        | FC<br>12.992      | Flange<br>FC-184 | AJ<br>7.250  | AK<br>8.500 |
| BD<br>11.084       | BF<br>UNC 1/2"x13 | BB<br>0.250      | AH<br>5.250  |             |

Performed by:

Checked:

Customer:

Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -

Three-phase induction motor  
Frame 254/6JM - IP55

23-SEP-2016



1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

### RUN

### ONLY FOR START



|   |             |  |
|---|-------------|--|
| Notes: Downloaded from <a href="http://dealerselectric.com">http://dealerselectric.com</a><br>Generated for Model #01518ET3H254JM-S |             |  |
| Performed by:   |             |  |
| Checked:  |             |  |
| Customer:   |             |  |
| Close Coupled Pump: Three-Phase - W01 (Rolled Steel) "JM" Type - TEFC -   |             |  |
| Three-phase induction motor<br>Frame 254/6JM - IP55   | 23-SEP-2016 |  |