# TECHNICAL PROPOSAL

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

<table>
<thead>
<tr>
<th>Customer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Product line</th>
<th>W22 NEMA Premium - Ball Bearings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Number</td>
<td>02018ET3E256TC-W22</td>
</tr>
<tr>
<td>List Price</td>
<td>$2,270</td>
</tr>
</tbody>
</table>

Notes: 

Performed by: 
Checked: 

DATA SHEET
Three-phase induction motor - Squirrel cage rotor

Customer: 
Product line: W22 NEMA Premium - Ball Bearings

Frame: 256T
Output: 20 HP
Frequency: 60 Hz
Poles: 4
Full load speed: 1765
Slip: 1.94%
Voltage: 208-230/460 V
Rated current: 53.3-48.2/24.1 A
Locked rotor current: 313/157 A
Locked rotor current (I/I_n): 6.5
No-load current: 20.0/10.0 A
Full load torque: 58.7 lb.ft
Locked rotor torque: 230%
Breakdown torque: 270%
Design: B
Insulation class: F
Temperature rise: 80 K
Locked rotor time: 15 s (hot)
Service factor: 1.25
Duty cycle: S1
Ambient temperature: -20°C - +40°C
Altitude: 1000
Degree of Protection: IP55
Approximate weight: 291 lb
Moment of inertia: 3.0963 sq.ft.lb
Noise level: 64 dB(A)

<table>
<thead>
<tr>
<th></th>
<th>D.E.</th>
<th>N.D.E.</th>
<th>Load</th>
<th>Power factor</th>
<th>Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearings</td>
<td>6309 C3</td>
<td>6209 C3</td>
<td>100%</td>
<td>0.84</td>
<td>93.0</td>
</tr>
<tr>
<td>Regreasing interval</td>
<td>20000 h</td>
<td>20000 h</td>
<td>75%</td>
<td>0.79</td>
<td>92.4</td>
</tr>
<tr>
<td>Grease amount</td>
<td>13 g</td>
<td>9 g</td>
<td>50%</td>
<td>0.68</td>
<td>91.7</td>
</tr>
</tbody>
</table>

Notes:

Performed by: 
Checked:
PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor

Customer :
Product line : W22 NEMA Premium - Ball Bearings

Frame : 256T
Output : 20 HP
Frequency : 60 Hz
Full load speed : 1765
Voltage : 208-230/460 V
Rated current : 53.3-48.2/24.1 A
Insulation class : F
Locked rotor current (Il/In) : 6.5
Duty cycle : S1
Service factor : 1.25
Design : B
Locked rotor torque : 230 %
Breakdown torque : 270 %

Notes:

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

Customer:
Product line: W22 NEMA Premium - Ball Bearings

<table>
<thead>
<tr>
<th>Frame</th>
<th>256T</th>
<th>Locked rotor current (Ii/In)</th>
<th>6.5</th>
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<tbody>
<tr>
<td>Output</td>
<td>20 HP</td>
<td>Duty cycle</td>
<td>S1</td>
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<tr>
<td>Frequency</td>
<td>60 Hz</td>
<td>Service factor</td>
<td>1.25</td>
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<td>Full load speed</td>
<td>1765</td>
<td>Design</td>
<td>B</td>
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<tr>
<td>Voltage</td>
<td>208-230/460 V</td>
<td>Locked rotor torque</td>
<td>230 %</td>
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<tr>
<td>Rated current</td>
<td>53.3-48.2/24.1 A</td>
<td>Breakdown torque</td>
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<td>Insulation class</td>
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Notes:

Performed by
Checked
Three-phase induction motor
Frame 256T - IP55

Notes:

Performed by:

Checked:

Customer:

W22 NEMA Premium - Ball Bearings