TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : W22 - Cast Iron Frame - Super Premium Efficiency - IE4
Catalog Number : 
List Price : $
DATA SHEET
Three-phase induction motor - Squirrel cage rotor

Customer : 
Product line : W22 - Cast Iron Frame - Super Premium Efficiency - IE4

Frame : 315S/M
Output : 110 kW
Frequency : 50 Hz
Poles : 4
Full load speed : 1490
Slip : 0.67 %
Voltage : 400/690 V
Rated current : 191/111 A
Locked rotor current : 1410/819 A
Locked rotor current (Il/In) : 7.4
No-load current : 71.1/41.2 A
Full load torque : 705 Nm
Locked rotor torque : 270 %
Breakdown torque : 270 %
Design : ---
Insulation class : F
Temperature rise : 80 K
Locked rotor time : 54 s (hot)
Service factor : 1.00
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP55
Approximate weight : 1150 kg
Moment of inertia : 4,4205 kgm²
Noise level : 71 dB(A)

<table>
<thead>
<tr>
<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>6319 C3</td>
<td>6316 C3</td>
<td>100%</td>
<td>0.86</td>
</tr>
<tr>
<td>Regreasing interval</td>
<td>11000 h</td>
<td>13000 h</td>
<td>75%</td>
<td>0.82</td>
</tr>
<tr>
<td>Grease amount</td>
<td>45 g</td>
<td>34 g</td>
<td>50%</td>
<td>0.73</td>
</tr>
</tbody>
</table>

Notes:

Efficiencies according to the indirect method of IEC 60034-2-1:2007 with stray load losses determined from measurement.

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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor

Customer:
Product line: W22 - Cast Iron Frame - Super Premium Efficiency - IE4

Frame: 315S/M  Locked rotor current (Il/In): 7.4
Output: 110 kW  Duty cycle: S1
Frequency: 50 Hz  Service factor: 1.00
Full load speed: 1490  Design: ---
Voltage: 400/690 V  Locked rotor torque: 270 %
Rated current: 191/111 A  Breakdown torque: 270 %
Insulation class: F

Notes:

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

Customer:
Product line: W22 - Cast Iron Frame - Super Premium Efficiency - IE4

Frame: 315S/M
Output: 110 kW
Frequency: 50 Hz
Full load speed: 1490
Voltage: 400/690 V
Rated current: 191/111 A
Insulation class: F

Locked rotor current (Il/In): 7.4
Duty cycle: S1
Service factor: 1.00
Design: ---
Locked rotor torque: 270 %
Breakdown torque: 270 %

Notes:

Performed by
Checked