Data sheet for three-phase Squirrel-Cage-Motors

Motor type: 1CV1310A

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Client order no.: 1CV1310A
Order no.: Item no.: Consignment no.: Project:
Offer no.: Remarks:

<table>
<thead>
<tr>
<th>U</th>
<th>Δ / Y</th>
<th>f</th>
<th>P</th>
<th>P</th>
<th>I</th>
<th>n</th>
<th>M</th>
<th>NOM. EFF at ... load [%]</th>
<th>Power factor at ... load</th>
<th>I_e/I_n</th>
<th>M_a/M_n</th>
<th>M_b/M_n</th>
<th>IE-CL</th>
</tr>
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<tbody>
<tr>
<td>V</td>
<td>[Hz]</td>
<td>[kW]</td>
<td>[hp]</td>
<td>[A]</td>
<td>[1/min]</td>
<td>[Nm]</td>
<td>4/4</td>
<td>3/4</td>
<td>2/4</td>
<td>4/4</td>
<td>3/4</td>
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</tr>
<tr>
<td>400</td>
<td>Δ</td>
<td>50</td>
<td>110.00</td>
<td>198.00</td>
<td>2982</td>
<td>350.0</td>
<td>93.3</td>
<td>92.9</td>
<td>91.5</td>
<td>0.86</td>
<td>0.83</td>
<td>0.76</td>
<td>7.5</td>
</tr>
<tr>
<td>690</td>
<td>Y</td>
<td>50</td>
<td>110.00</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
<td>93.3</td>
<td>92.9</td>
<td>91.5</td>
<td>0.86</td>
<td>0.83</td>
<td>0.76</td>
<td>7.5</td>
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<tr>
<td>460</td>
<td>Δ</td>
<td>60</td>
<td>123.00</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
<td>93.0</td>
<td>92.3</td>
<td>90.4</td>
<td>0.88</td>
<td>0.87</td>
<td>0.80</td>
<td>8.3</td>
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<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Value is valid only for DOL operation with motor design</td>
</tr>
</tbody>
</table>

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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**Mechanical data**

- Sound pressure level 50Hz/60Hz (load): 80 dB(A)¹, 84 dB(A)¹
- Moment of inertia: 1.20 kg m²
- Bearing DE | NDE: 6316 C3
- Relubrication interval/quantity (A5)BS: 30 g x 3000 h
- Lubricants: Unirex N3
- Regreasing device: Yes (standard)
- Grease nipple: M10x1 DIN 3404 A
- Type of bearing: Locating bearing NDE
- Condensate drainage holes: Yes (standard)
- External earthing terminal: Yes (standard)
- Vibration severity grade: A
- Insulation: 155(F) to 130(B)
- Duty type: S1
- Direction of rotation: bidirectional
- Frame material: cast iron
- Data of anti condensation heating: -/-
- Coating (paint finish): Standard paint finish C2
- Color, paint shade: RAL7030
- Motor protection: (A) without (Standard)
- Method of cooling: IC411 - self ventilated, surface cooled

**Terminal box**

- Terminal box position: top
- Material of terminal box: cast iron
- Type of terminal box: TB1 Q01
- Contact screw thread: M12
- Max. cross-sectional area: 240.0 mm²
- Cable diameter from ... to ...: 38.0 mm - 45.0 mm
- Cable entry: 2xM63x1,5
- Cable gland: 2 plugs

**Special design** (0)

**Environmental conditions**

- Ambient temperature: -20 °C - +40 °C
- Altitude above sea level: 1000 m

**Notes**

I_e/I_n = locked rotor current / current
M_a/M_n = break down torque / nominal torque
M_b/M_n = locked rotor torque / torque

¹ Value is valid only for DOL operation with motor design