The machine-room-less VVVF hydraulic for passenger elevators

ALGI is setting new standards with this energy saving, low noise, machine-room-less elevator system for new lifts and modernisations. Our simple and compact design allows travel heights up to 16 m and a maximum load of 1000 kg.

Drive

The energy saving frequency controlled drive and the control of the motor without contactors provides a smooth and comfortable ride. The frequency controlled drive reduces the current requirement of the incoming mains as well as lowering energy consumption. The power unit and frequency inverter are positioned on the side of the guide rails in the lift shaft, meaning no additional structural alterations to the building.

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Frequency control at constant speed</th>
<th>Frequency control at constant power input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal speed DOWN:</td>
<td>0.6 m/s</td>
<td>0.6 m/s</td>
</tr>
<tr>
<td>Nominal speed UP empty:</td>
<td>0.6 m/s</td>
<td>0.6 m/s</td>
</tr>
<tr>
<td>Nominal speed UP (2 persons):</td>
<td>0.6 m/s</td>
<td>0.53 m/s *</td>
</tr>
<tr>
<td>Nominal power:</td>
<td>11 kW</td>
<td>7.5 kW</td>
</tr>
<tr>
<td>Rated current:</td>
<td>35.9 A</td>
<td>22.7 A</td>
</tr>
<tr>
<td>Starting current:</td>
<td>10 A</td>
<td>&lt;6 A</td>
</tr>
<tr>
<td>Pump size:</td>
<td>100 l/min</td>
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</tr>
<tr>
<td>Max. ride without cooler:</td>
<td>180</td>
<td>&gt;180</td>
</tr>
<tr>
<td>Heat to be dissipated at 120 rides / h:</td>
<td>870 W</td>
<td>756 W</td>
</tr>
<tr>
<td>Cooler required:</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>Noise emission UP:</td>
<td>49 dBA</td>
<td>49 dBA</td>
</tr>
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<td>50 dBA</td>
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Elevator data:
- Payload: 630 kg
- Car weight: 820 kg
- Speed: 0.6 m/s
- Cylinder type: TA2.35GL3
- Cylinder arrangement: 1:1
- Travel height: 9000 mm
- Load-dependent lifting speed:
  - 4 persons: 0.47 m/s
  - 6 persons: 0.42 m/s
  - 8 persons: 0.38 m/s

www.algi-lift.com
Frequency controlled hydraulic elevator system suitable for new elevators and drive modernisations.

Benefits of ECO SPIN - VVVF Hydraulic:
» reduced energy consumption and power requirements
» elimination of soft starter
» less heat development
» huge elimination of noise
» lower oil quantities

ALGI state-of-the-art frequency controlled hydraulic drive sets new standards in terms of energy consumption, heat efficiency and noise level.

Reduction of energy consumption up to 59%
Reduction of noise level up to 36%
Reduction of oil warming up to 54%
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