Performance Curves

LKH-5, 50 Hz

Motor: 3000 rpm, synchr.
Tolerance: ±5%
Impeller, Max. dia.: 132 mm
Impeller, Min. dia.: 90 mm
Pump inlet, Dia.: 51 mm, DN 50
Pump outlet, Dia.: 38 mm, DN 40

Motor: 1500 rpm, synchr.
Tolerance: ±5%
Impeller, Max. dia.: 132 mm
Impeller, Min. dia.: 90 mm
Pump inlet, Dia.: Dia.: 51 mm, DN 50
Pump outlet, Dia.: Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

NOTE!
The curves refer to motor: 1.5 kW, 2870 rpm, asynchr., 50 Hz.
For smaller motors, reduce head (H) with 3%.
DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

**LKH-5, 60 Hz**

Motor: 3600 rpm, synchr.

Tolerance: ±5%

Impeller Max. dia.: 132 mm

Impeller Min. dia.: 90 mm

Pump Inlet Dia.: 51 mm, DN 50

Pump outlet Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.

---

**LKH-6, 60 Hz**

Motor: 1800 rpm, synchr.

Tolerance: ±5%

Impeller Max. dia.: 132 mm

Impeller Min. dia.: 90 mm

Pump Inlet Dia.: 51 mm, DN 50

Pump outlet Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.

---

**NOTE!** The curves refer to max. motor: 2.5 kW, 3460 rpm, asynchr., 60 Hz.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.
2.1 Performance Curves

LKH/- LKHP/- LKHI/- LKHUP-10, 50 Hz

Motor: 3000 rpm. synchr.
Tolerance: ±5%
Impeller, Max. dia.: 163 mm
Impeller, Min. dia.: 110 mm
Pump inlet, Dia.: 63.5 mm, DN 65
Pump outlet, Dia.: 51 mm, DN 50
Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 4 kW, 2840 rpm. asynchr., 50 Hz.
For smaller motors, reduce head H with: 3%.

Motor: 1500 rpm. synchr.
Tolerance: ±5%
Impeller, Max. dia.: 263 mm
Impeller, Min. dia.: 130 mm
Pump inlet, Dia.: 63.5 mm, DN 65
Pump outlet, Dia.: 51 mm, DN 50
Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 1.5 kW, 1420 rpm. asynchr., 50 Hz.

DO NOT FORGET THE SAFETY FACTOR.
# Performance Curves

**LKH-/ LKHP-/ LKHI-/ LKHUP-10, 60 Hz**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance: ±5%</td>
<td>Tolerance: ±5%</td>
</tr>
<tr>
<td>Impeller Max. dia.: 163 mm</td>
<td>Impeller Max. dia.: 163 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.: 110 mm</td>
<td>Impeller Min. dia.: 140 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.: 63.5 mm, DN 65</td>
<td>Pump inlet, Dia.: 63.5 mm, DN 65</td>
</tr>
<tr>
<td>Pump outlet, Dia.: 51 mm, DN 50</td>
<td>Pump outlet, Dia.: 51 mm, DN 50</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

For smaller motors, reduce head (H) with 3%.

DO NOT FORGET THE SAFETY FACTOR.

![Performance Curves Diagram](image-url)
2.1 Performance Curves

LKH-/- LKHP-/- LKHI-15, 50 Hz

Motor: 3000 rpm. synchr.
Motor: 1500 rpm. synchr.
Tolerance: ±5%
Tolerance: ±5%
Impeller, Max. dia.: 138 mm
Impeller, Max. dia.: 138 mm
Impeller, Min. dia.: 120 mm
Impeller, Min. dia.: 120 mm
Pump inlet, Dia.: 101.6 mm, DN 100
Pump inlet, Dia.: 101.6 mm, DN 100
Pump outlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 76 mm, DN 80
Performance data refer to water at 20°C.
Performance data refer to water at 20°C.

For smaller motors, reduce head (H) with 3%.

NOTE! The curves refer to motor: 5.5 kW, 2865 rpm. asynchr., 50 Hz.
NOTE! The curves refer to motor: 1.5 kW, 1420 rpm. asynchr., 50 Hz.

DO NOT FORGET THE SAFETY FACTOR.

2.1.162
Performance Curves

**LKH-/ LKHP-/ LKHI-15, 60 Hz**

<table>
<thead>
<tr>
<th>Motor</th>
<th>3600 rpm, synchro.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller Max. dia.:</td>
<td>138 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.:</td>
<td>120 mm</td>
</tr>
<tr>
<td>Pump inlet Dia.:</td>
<td>101.6 mm, DN 100</td>
</tr>
<tr>
<td>Pump outlet Dia.:</td>
<td>76 mm, DN 80</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 8.6 kW, 3455 rpm, asynchr., 60 Hz.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.

<table>
<thead>
<tr>
<th>Motor</th>
<th>1800 rpm, synchro.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller Max. dia.:</td>
<td>138 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.:</td>
<td>120 mm</td>
</tr>
<tr>
<td>Pump inlet Dia.:</td>
<td>101.6 mm, DN 100</td>
</tr>
<tr>
<td>Pump outlet Dia.:</td>
<td>76 mm, DN 80</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 1.75 kW, 1710 rpm, asynchr., 60 Hz.

DO NOT FORGET THE SAFETY FACTOR.
LKH-/ LKHP-/ LKHI-/ LKHUP - Centrifugal Pumps

2.1 Performance Curves

LKH-/ LKHP-/ LKHI-/ LKHUP-20, 50 Hz

Motor: 3000 rpm, synchr.
Tolerance: ±5%
Impeller: Max. dia.: 165 mm
Impeller: Min. dia.: 120 mm
Pump inlet: Dia.: 63.5 mm, DN 65
Pump outlet: Dia.: 51 mm, DN 50

Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 7.5 kW, 2870 rpm, asynchr., 50 Hz.
For smaller motors, reduce head (H) with 3%.

Motor: 1500 rpm, synchr.
Tolerance: ±5%
Impeller: Max. dia.: 165 mm
Impeller: Min. dia.: 140 mm
Pump inlet: Dia.: 63.5 mm, DN 65
Pump outlet: Dia.: 51 mm, DN 50

Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 1.5 kW, 1420 rpm, asynchr., 50 Hz.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

**LKH-/LKHP-/LKHI-/LKHUP-20, 60 Hz**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>LKH-/LKHP-/LKHI-/LKHUP-20, 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor:</td>
<td>3600 rpm. synchr.</td>
</tr>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller Max. dia.:</td>
<td>165 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.:</td>
<td>120 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.:</td>
<td>63.5 mm, DN 65</td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>51 mm, DN 50</td>
</tr>
<tr>
<td>Performance data refer to water at 20°C. For smaller motors, reduce head (H) with 3%. DO NOT FORGET THE SAFETY FACTOR.</td>
<td></td>
</tr>
</tbody>
</table>
Performance Curves

LKH-/ LKHP-/ LKHI-/ LKHUP-25 , 50 Hz

Motor: 3000 rpm. synchr.
Tolerance: ±5%
Impeller, Max. dia.: 205 mm
Impeller, Min. dia.: 160 mm
Pump inlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 63.5 mm, DN 65
Performance data refer to water at 20°C.
For smaller motors, reduce head (H) with 3%.

Motor: 1500 rpm. synchr.
Tolerance: ±5%
Impeller, Max. dia.: 205 mm
Impeller, Min. dia.: 160 mm
Pump inlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 63.5 mm, DN 65
Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 15 kW, 2930 rpm. asynchr., 50 Hz.
NOTE! The curves refer to motor: 2.2 kW, 1430 rpm. asynchr., 50 Hz.

DO NOT FORGET THE SAFETY FACTOR.
**Performance Curves**

**LKH-/ LKHP-/ LKHI-/ LKHUP-25, 60 Hz**

**Motor:** 3600 rpm, synchr.
- Impeller: Max. dia.: 205 mm
- Impeller: Min. dia.: 160 mm
- Pump inlet, Dia.: 76 mm, DN 80
- Pump outlet, Dia.: 63.5 mm, DN 65

Performance data refer to water at 20°C.

For smaller motors, reduce head (H) with:
- 3% for 12.5 - 21 kW.
- 5% for 6.3 - 8.6 kW.

**NOTE!** The curves refer to motor: 25 kW, 3545 rpm. asynchr., 60 Hz.

**Motor:** 1800 rpm, synchr.
- Impeller: Max. dia.: 205 mm
- Impeller: Min. dia.: 160 mm
- Pump inlet, Dia.: 76 mm, DN 80
- Pump outlet, Dia.: 63.5 mm, DN 65

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 3.5 kW, 1720 rpm. asynchr., 60 Hz.

**DO NOT FORGET THE SAFETY FACTOR.**
**Performance Curves**

**LKH/- LKHP/- LKHI/- LKHUP-35, 50 Hz**

Motor: 3000 rpm, synchr.

- Impeller, Max. dia.: 220 mm
- Impeller, Min. dia.: 170 mm
- Pump inlet, Dia.: 63.5 mm, DN 65
- Pump outlet, Dia.: 51 mm, DN 50

Motor: 1500 rpm, synchr.

- Impeller, Max. dia.: 220 mm
- Impeller, Min. dia.: 170 mm
- Pump inlet, Dia.: 63.5 mm, DN 65
- Pump outlet, Dia.: 51 mm, DN 50

Performance data refer to water at 20°C.

**NOTE**! The curves refer to motor: 1.5 kW, 2930 rpm, asynchr., 50 Hz.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves
LKH-/ LKHP-/ LKHI-/ LKHUP-35, 60 Hz

Motor: 3600 rpm. synchr.
- Tolerance: ±5%
- Impeller Max. dia.: 220 mm
- Impeller Min. dia.: 170 mm
- Pump Inlet Dia.: 63.5 mm, DN 65
- Pump outlet Dia.: 51 mm, DN 50

Motor: 1800 rpm. synchr.
- Tolerance: ±5%
- Impeller Max. dia.: 220 mm
- Impeller Min. dia.: 170 mm
- Pump Inlet Dia.: 63.5 mm, DN 65
- Pump outlet Dia.: 51 mm, DN 50

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 21 kW, 3535 rpm. asynchr., 50 Hz.
For smaller motors, reduce head (H) with:
- 3% for 12.5 - 17 kW.
- 5% for 6.3 - 8.6 kW.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

LKH-/ LKHP-/ LKHI-/ LKHUP-40, 50 Hz

Motor:
3000 rpm. synchr.

Motor:
1500 rpm. synchr.

Tolerance: ±5%

Tolerance: ±5%

Impeller, Max. dia.: 235 mm

Impeller, Max. dia.: 235 mm

Impeller, Min. dia.: 170 mm

Impeller, Min. dia.: 180 mm

Pump inlet, Dia.: 76 mm, DN 80

Pump inlet, Dia.: 76 mm, DN 80

Pump outlet, Dia.: 63.5 mm, DN 65 (only LKHUP-40 2")

Pump outlet, Dia.: 63.5 mm, DN 65 (only LKHUP-40 2")

Performance data refer to water at 20°C.

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 22 kW, 2940 rpm. asynchr., 50 Hz.

NOTE! The curves refer to motor: 4 kW, 1425 rpm. asynchr., 50 Hz.

For smaller motors, reduce head (H) with:

- 3% for 11 - 18.5 kW.
- 5% for 7.5 kW.

DO NOT FORGET THE SAFETY FACTOR.

NOTE! The curves refer to motor: 22 kW, 2940 rpm. asynchr., 50 Hz.

For smaller motors, reduce head (H) with:

- 5%.

DO NOT FORGET THE SAFETY FACTOR.
### Performance Curves

**LKH-/ LKHP-/ LKHI-/ LKHUP-40, 60 Hz**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
<td>Tolerance:</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller Max. dia.:</td>
<td>235 mm</td>
<td>Impeller Max. dia.:</td>
<td>235 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.:</td>
<td>170 mm</td>
<td>Impeller Min. dia.:</td>
<td>130 mm</td>
</tr>
<tr>
<td>Pump Inlet, Dia.:</td>
<td>76 mm, DN 80</td>
<td>Pump Inlet, Dia.:</td>
<td>76 mm, DN 80</td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>63.5 mm, DN 65</td>
<td>Pump outlet, Dia.:</td>
<td>63.5 mm, DN 65</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C. Performance data refer to water at 20°C.

For smaller motors, reduce head (H) with:

- 3% for 12.5 - 21 kW.
- 5% for 8.6 kW.

**NOTE!** The curves refer to motor: 25 kW, 3500 rpm, asynchr., 60 Hz.

**NOTE!** The curves refer to motor: 8.3 kW, 1750 rpm, asynchr., 60 Hz.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

**LKH/- LKHP/- LKHI/- LKHUP-45, 50 Hz**

Motor: 3000 rpm. synch.
- Tolerance: ±5%
- Impeller, Max. dia.: 178 mm
- Impeller, Min. dia.: 140 mm
- Pump inlet, Dia.: 101.6 mm, DN 100
- Pump outlet, Dia.: 76 mm, DN 80

Motor: 1500 rpm. synch.
- Tolerance: ±5%
- Impeller, Max. dia.: 178 mm
- Impeller, Min. dia.: 140 mm
- Pump inlet, Dia.: 101.6 mm, DN 100
- Pump outlet, Dia.: 76 mm, DN 80

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 15 kW, 2930 rpm. asynchr., 50 Hz. For smaller motors, reduce head (H) with 3%.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

**LKH-/ LKHP-/ LKHI-/ LKHUP-45, 60 Hz**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
<td>Tolerance:</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller Max. dia.:</td>
<td>178 mm</td>
<td>Impeller Max. dia.:</td>
<td>178 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.:</td>
<td>140 mm</td>
<td>Impeller Min. dia.:</td>
<td>140 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.:</td>
<td>101.6 mm, DN 100</td>
<td>Pump inlet, Dia.:</td>
<td>101.6 mm, DN 100</td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>76 mm, DN 80</td>
<td>Pump outlet, Dia.:</td>
<td>76 mm, DN 80</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 25 kW, 3545 rpm, asynchr., 60 Hz.
For smaller motors, reduce head (H) with:
- 3% for 12.5 - 21 kW.
- 5% for 6.3 - 8.6 kW.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

LKH-/ LKHP-/ LKHI-50, 50 Hz

Motor: 3000 rpm. synchr.
Motor: 1500 rpm. synchr.
Tolerance: ±5%
Tolerance: ±5%
Impeller, Max. dia.: 205 mm
Impeller, Max. dia.: 205 mm
Impeller, Min. dia.: 150 mm
Impeller, Min. dia.: 160 mm
Pump inlet, Dia.: 103.6 mm, DN 100
Pump inlet, Dia.: 103.6 mm, DN 100
Pump outlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 76 mm, DN 80

Performance data refer to water at 20°C.

NOTE! The curves refer to motors: 22 kW, 2940 rpm. asynchr., 50 Hz.
For smaller motors, reduce head (H) with:
- 3% for 11 - 18.5 kW.
- 5% for 5.5 - 7.5 kW.
DONOT FORGET THE SAFETY FACTOR.

NOTE! The curves refer to motor: 4 kW, 1430 rpm. asynchr., 50 Hz.
For smaller motors, reduce head (H) with: 5%.

DONOT FORGET THE SAFETY FACTOR.
Performance Curves

**LKH-/LKHP-/LKH-50, 60 Hz**

Motor: 3600 rpm, synchr.
- Tolerance: ±5%
- Impeller Max. dia.: 205 mm
- Impeller Min. dia.: 150 mm
- Pump inlet, Dia.: 101.6 mm, DN 100
- Pump outlet, Dia.: 76 mm, DN 80

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 25 kW, 3500 rpm, asynchr., 60 Hz. For smaller motors, reduce head (H) with:
- 3% for 12.5 - 25 kW.
- 5% for 6.3 - 8.6 kW.

DO NOT FORGET THE SAFETY FACTOR.

Motor: 1800 rpm, synchr.
- Tolerance: ±5%
- Impeller Max. dia.: 205 mm
- Impeller Min. dia.: 170 mm
- Pump inlet, Dia.: 101.6 mm, DN 100
- Pump outlet, Dia.: 76 mm, DN 80

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 4.5 kW, 1750 rpm, asynchr., 60 Hz. For smaller motors, reduce head (H) with: 5%.

DO NOT FORGET THE SAFETY FACTOR.
2.1 Performance Curves

LKH-/ LKHP-/ LKHI-60, 50 Hz

<table>
<thead>
<tr>
<th>Motor:</th>
<th>3000 rpm. synchr.</th>
<th>1500 rpm. synchr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller, Max. dia.:</td>
<td>210 mm</td>
<td>210 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.:</td>
<td>160 mm</td>
<td>160 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.:</td>
<td>101.6 mm, DN 100</td>
<td>101.6 mm, DN 100</td>
</tr>
<tr>
<td>- DN 150</td>
<td>- DN 100</td>
<td></td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>- DN 100</td>
<td>- DN 100</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 30 kW, 2955 rpm. asynchr., 50 Hz.

For smaller motors, reduce head (H) with:

3% for 11 - 22 kW
6% for 5.5 - 7.5 kW.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

**LKH-/ LKHP-/ LKHI -60, 60 Hz**

<table>
<thead>
<tr>
<th>Motor</th>
<th>3600 rpm. synchr.</th>
<th>1800 rpm. synchr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller, Max. dia.:</td>
<td>160 mm</td>
<td>160 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.:</td>
<td>101.6 mm, DN 100</td>
<td>101.6 mm, DN 110</td>
</tr>
<tr>
<td>Pump inlet, Dia.:</td>
<td>DN 150</td>
<td>DN 150</td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>DN 100</td>
<td>DN 100</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 35 kW, 3500 rpm. asynchr., 60 Hz.

For smaller motors, reduce head (H) with:
- 3% for 12.5 - 25 kW.
- 5% for 6.3 - 8.6 kW.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

LKH-70, 50 Hz

Motor: 3000 rpm, synchr.
Tolerance: ±5%
Impeller, Max. dia.: 280 mm
Impeller, Min. dia.: 200 mm
Pump inlet, Dia.: 101.6 mm, DN 100
Pump outlet, Dia.: 76 mm, DN 80

Motor: 1500 rpm, synchr.
Tolerance: ±5%
Impeller, Max. dia.: 280 mm
Impeller, Min. dia.: 200 mm
Pump inlet, Dia.: 101.6 mm, DN 100
Pump outlet, Dia.: 76 mm, DN 80

Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 75 kW, 2970 rpm, asynchr., 50 Hz.
For smaller motors, reduce head (H) with 2%
DO NOT FORGET THE SAFETY FACTOR.

Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 11 kW, 1460 rpm, asynchr., 50 Hz.
DO NOT FORGET THE SAFETY FACTOR.
Centrifugal Pumps

Performance Curves

LKH-70, 60 Hz

Motor: 3600 rpm, synchr.
Motor: 1800 rpm, synchr.
Tolerance: ±5%
Tolerance: ±5%
Impeller, Max. dia.: 280 mm
Impeller, Max. dia.: 280 mm
Impeller, Min. dia.: 200 mm
Impeller, Min. dia.: 200 mm
Pump inlet, Dia.: 101.6 mm, DN 100
Pump inlet, Dia.: 101.6 mm, DN 100
Pump outlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 76 mm, DN 80
Performance data refer to water at 20°C.
Performance data refer to water at 20°C.
NOTE! The curves refer to max. motor: 86 kW, 3565 rpm, asynchr., 60 Hz.
NOTE! The curves refer to max. motor: 17 kW, 1750 rpm, asynchr., 60 Hz.
For smaller motors, reduce head (H) with: -3%
DO NOT FORGET THE SAFETY FACTOR.
LKH-90 Centrifugal Pumps

2.1 Performance Curves

LKH-90, 50 Hz

Motor: 1500 rpm, synchr.

Tolerance: ±5%. Performance data refer to water at 20°C.

Impeller, Max. dia.: 348 mm

Impeller, Min. dia.: 300 mm

NOTE! The curves refer to motor: 75 kW, 1490rpm. asynchr., 50 Hz. For smaller motors, reduce head (H) with 3%.

Pump inlet, Dia.: 154 mm, DN 150

Pump outlet, Dia.: 154 mm, DN 150

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

LKH-90, 60 Hz

Motor: 1800 rpm, synchr.
Tolerance: ±5%. Performance data refer to water at 20°C.
Impeller Max. dia.: 348 mm
Impeller Min. dia.: 300 mm
NOTE! The curves refer to motor: 75 kW, 1775 rpm, asynchr., 50 Hz.
Pump inlet, Dia.: 154 mm, DN 150
Pump outlet, Dia.: 154 mm, DN 150
For smaller motors, reduce head (H) with 3%.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

LKH-80, 50 Hz

Motor: 3000 rpm, synchr.
Tolerance: ±5%
Impeller Max. dia.: 260 mm
Impeller Min. dia.: 190 mm
Pump inlet Dia.: 154 mm, DN 150
Pump outlet Dia.: 101.6 mm, DN 100

Performance data refer to water at 20°C.
For smaller motors, reduce head (H) with: 2%
DO NOT FORGET THE SAFETY FACTOR.

Motor: 1500 rpm, synchr.
Tolerance: ±5%
Impeller Max. dia.: 260 mm
Impeller Min. dia.: 190 mm
Pump inlet Dia.: 154 mm, DN 150
Pump outlet Dia.: 101.6 mm, DN 100

Performance data refer to water at 20°C.
For smaller motors, reduce head (H) with: 3%
DO NOT FORGET THE SAFETY FACTOR.
2.1 Performance Curves

LKH-110 Multi-Stage, 50 Hz/60 Hz

Motor: 3000 rpm. synchr.
Tolerance: ±5%

Motor: 3600 rpm. synchr.
Tolerance: ±5%

Impeller:

LKH-112 2 x dia.: 163 mm.
LKH-113 3 x dia.: 163 mm.
LKH-114 4 x dia.: 163 mm.

Pump inlet, Dia.: 51 mm, DN 50.
Pump outlet, Dia.: 38 mm, DN 40.

Performance data refer to water at 20°C.

NOTE! The curves refer to max. motor:
LKH-112, 5.5 kW 2855 rpm. asynchr. 50 Hz.
LKH-113, 11 kW 2930 rpm. asynchr. 50 Hz.
LKH-114, 18.5 kW 2920 rpm. asynchr. 50 Hz.

For smaller motors, reduce head (H) by: 3%.
DO NOT FORGET THE SAFETY FACTOR.

Performance data refer to water at 20°C.

NOTE! The curves refer to max. motor:
LKH-112, 12.5 kW 3515 rpm. asynchr. 60 Hz.
LKH-113, 17 kW 3505 rpm. asynchr. 60 Hz.
LKH-114, 21 kW 3510 rpm. asynchr. 60 Hz.

For smaller motors, reduce head (H) by: 3%
DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

LKH-120/P, 50/60 Hz

Motor: 3000 rpm, synchro.
Motor: ±5%
Impeller, LKH-122/P: 206 mm
Impeller, LKH-123/P: 206 mm
Impeller, LKH-124/P: 206 mm
Pump inlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 63.5 mm, DN 65

Performance data refer to water at 20°C.

NOTE!
The curves refer to max. motor:
LKH-122/P, 22 kW, 2950 rpm, asynchr., 50 Hz
LKH-123/P, 37 kW 2940 rpm, asynchr., 50 Hz
LKH-124/P, 45 kW 2955 rpm, asynchr., 50 Hz
For smaller motors, reduce head (H) by 3%
For inlet pressure > 10 bar, reduce head (H) by 5%
Performance data refer to water at 20°C.
DO NOT FORGET THE SAFETY FACTOR.
**Performance Curves**

**LKHSP-10 Self-priming Centrifugal Pumps, 50 Hz/60 Hz**

- **Motor:** 3000 rpm, synchr.
- **Motor:** 3600 rpm, synchr.
- **Tolerance:** ±5%
- **Tolerance:** ±5%
- **Impeller, Max. dia.:** 163 mm
- **Impeller, Max. dia.:** 163 mm
- **Impeller, Min. dia.:** 110 mm
- **Impeller, Min. dia.:** 110 mm
- **Pump inlet, Dia.:** 63.5 mm, DN 65
- **Pump inlet, Dia.:** 63.5 mm, DN 65
- **Pump outlet, Dia.:** 51 mm, DN 50
- **Pump outlet, Dia.:** 51 mm, DN 50

Performance data refer to water at 20°C.

**50 Hz**

- For smaller motors, reduce head (H) with: 3%
- DO NOT FORGET THE SAFETY FACTOR.

**60 Hz**

- For smaller motors, reduce head (H) with: 3%
- DO NOT FORGET THE SAFETY FACTOR.

NOTE! The curves refer to motor: 4 kW, 2850 rpm, asynchr., 50 Hz.

NOTE! The curves refer to motor: 8.6 kW, 3450 rpm, asynchr., 60 Hz.
### Performance Curves

**LKHSP-20 Self-priming Centrifugal Pumps, 50 Hz/60 Hz**

<table>
<thead>
<tr>
<th></th>
<th>50 Hz</th>
<th>60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor:</td>
<td>3000 rpm. synchr.</td>
<td>3600 rpm. synchr.</td>
</tr>
<tr>
<td>Tolerance:</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td>Impeller, Max. dia.:</td>
<td>165 mm</td>
<td>165 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.:</td>
<td>120 mm</td>
<td>120 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.:</td>
<td>63.5 mm, DN 65</td>
<td>63.5 mm, DN 65</td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>51 mm, DN 50</td>
<td>51 mm, DN 50</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 7.5 kW, 2855 rpm. asynchr., 50 Hz. For smaller motors, reduce head (H) with: 3%.

**DO NOT FORGET THE SAFETY FACTOR.**

![Performance Curves Graph](image)
**Performance Curves**

**LKHSP-25 Self-priming Centrifugal Pumps, 50 Hz/60 Hz**

**50 Hz**
- Motor: 3000 rpm, synchr.
- Tolerance: ±5%
- Impeller Max. dia.: 205 mm
- Impeller Min. dia.: 160 mm
- Pump inlet Dia.: 76.1 mm, DN 80
- Pump outlet Dia.: 63.5 mm, DN 65

Performance data refer to water at 20°C.

**60 Hz**
- Motor: 3600 rpm, synchr.
- Tolerance: ±5%
- Impeller Max. dia.: 205 mm
- Impeller Min. dia.: 160 mm
- Pump inlet Dia.: 76.1 mm, DN 80
- Pump outlet Dia.: 63.5 mm, DN 65

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 15 kW, 2920 rpm, asynchr., 50 Hz.
For smaller motors, reduce head (H) with: 3%.

**NOTE!** The curves refer to motor: 25 kW, 3530 rpm, asynchr., 60 Hz.
For smaller motors, reduce head (H) with:
- 3% for 12.5 - 25 kW.
- 5% for 6.3 - 8.6 kW.

**DO NOT FORGET THE SAFETY FACTOR.**
LKHSP Centrifugal Pumps

2.1 Performance Curves

LKHSP-35 Self-priming Centrifugal Pumps, 50 Hz/60 Hz

Motor:
- 50 Hz: 3000 rpm. synchr.
- 60 Hz: 3600 rpm. synchr.

Tolerance:
- ±5%

Impeller:
- Max. dia.: 220 mm
- Min. dia.: 170 mm

Pump inlet:
- Dia.: 63.5 mm, DD 65

Pump outlet:
- Dia.: 51 mm, DN 50

Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 15 kW, 2920 rpm. asynchr., 50 Hz.
For smaller motors, reduce head (H) with: 3%.

NOTE! The curves refer to motor: 21 kW, 3510 rpm. asynchr., 60 Hz.
For smaller motors, reduce head (H) with:
- 3% for 12.5 - 17 kW.
- 5% for 6.3 - 8.6 kW.

DO NOT FORGET THE SAFETY FACTOR.
## Performance Curves

### LKHSP-40 Self-priming Centrifugal Pumps, 50 Hz/60 Hz

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Impeller Max. dia.: 225 mm</td>
<td>Impeller Max. dia.: 235 mm</td>
</tr>
<tr>
<td>Impeller Min. dia.: 170 mm</td>
<td>Impeller Min. dia.: 170 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.: 76.1 mm, DN 80</td>
<td>Pump inlet, Dia.: 76.1 mm, DN 80</td>
</tr>
<tr>
<td>Pump outlet, Dia.: 63.5 mm, DN 65</td>
<td>Pump outlet, Dia.: 63.5 mm, DN 65</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C. NOTE! The curves refer to max. motor: 22 kW, 2930 rpm. asynchr., 50 Hz. For smaller motors, reduce head (H) with:
- 3% for 11 - 18.5 kW.
- 5% for 7.5 kW.

DO NOT FORGET THE SAFETY FACTOR.

![Performance Curves Graph 50 Hz](image1)

![Performance Curves Graph 60 Hz](image2)

NOTE! The curves refer to max. motor: 25 kW, 3530 rpm. asynchr., 60 Hz. For smaller motors, reduce head (H) with:
- 3% for 12.5 - 21 kW.
- 5% for 8.6 kW.

DO NOT FORGET THE SAFETY FACTOR.
### Performance Curves

**FM-0S, 50 Hz/60 Hz**

<table>
<thead>
<tr>
<th>Motor:</th>
<th>3000 rpm. synchro.</th>
<th>3600 rpm. synchro.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance:</td>
<td>±8% for Q.</td>
<td>±8% for Q.</td>
</tr>
<tr>
<td>Impeller, Max. dia.:</td>
<td>115 mm</td>
<td>115 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.:</td>
<td>75 mm</td>
<td>75 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.:</td>
<td>51 mm (2&quot;)</td>
<td>51 mm (2&quot;)</td>
</tr>
<tr>
<td>Pump outlet, Dia.:</td>
<td>51 mm (2&quot;)</td>
<td>51 mm (2&quot;)</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 1.1 kW, 2850 rpm. asynchr., 50 Hz.

**DO NOT FORGET THE SAFETY FACTOR.**
Performace Curves

**GM and GM-A, 50 Hz/60 Hz**

**50 Hz**
- Motor: 3000 rpm. synchr.
- Tolerance: ±8% for Q, ±6% for H.
- Impeller Max. dia.: 115 mm
- Impeller Min. dia.: 65 mm
- Pump inlet, Dia.: 38 mm (1½“)
- Pump outlet, Dia.: 38 mm (1½“).

**60 Hz**
- Motor: 3600 rpm. synchr.
- Tolerance: ±8% for Q, ±6% for H.
- Impeller Max. dia.: 95 mm
- Impeller Min. dia.: 65 mm
- Pump inlet, Dia.: 38 mm (1½“)
- Pump outlet, Dia.: 38 mm (1½“).

Performance data refer to water at 20°C. DO NOT FORGET THE SAFETY FACTOR.

NOTE! The curves refer to motor: 0.55 kW, 2820 rpm. asynchr., 50 Hz.

NOTE! The curves refer to motor: 0.65 kW, 3410 rpm. asynchr., 60 Hz.

DO NOT FORGET THE SAFETY FACTOR.
2.1 Performance Curves

**SolidC-1, 50 Hz**

**Motor:** 1500 rpm, synchr.
- Tolerance: ±8% for Q
- Impeller, Max. dia.: 160 mm
- Impeller, Min. dia.: 110 mm
- Pump inlet, Dia.: Dia.: 51 mm, DN 50
- Pump outlet, Dia.: Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 1.5 kW, 1410 rpm, asynchr., 50 Hz.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.

**Motor:** 3000 rpm, synchr.
- Tolerance: ±8% for Q
- Impeller, Max. dia.: 160 mm
- Impeller, Min. dia.: 110 mm
- Pump inlet, Dia.: Dia.: 51 mm, DN 50
- Pump outlet, Dia.: Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 4 kW, 2890 rpm, asynchr., 50 Hz.

For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

**SolidC-1, 60 Hz**

Motor: 1800 rpm, synchr.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance for Q</td>
<td>±8%</td>
</tr>
<tr>
<td>Impeller, Max. dia.</td>
<td>160 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.</td>
<td>110 mm</td>
</tr>
<tr>
<td>Pump Inlet Dia.</td>
<td>51 mm, DN 50</td>
</tr>
<tr>
<td>Pump Outlet Dia.</td>
<td>38 mm, DN 40</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to max. motor: 1.8 kW, 1710 rpm, asynchr., 60 Hz. For smaller motors, reduce head (H) with 3%.

DO NOT FORGET THE SAFETY FACTOR.
### Performance Curves

#### SolidC-2, 50 Hz

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tolerance: ±8% for Q</td>
<td>Tolerance: ±8% for Q</td>
</tr>
<tr>
<td>±6% for H</td>
<td>±6% for H</td>
</tr>
<tr>
<td>Impeller, Max. dia.: 190 mm</td>
<td>Impeller, Max. dia.: 190 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.: 140 mm</td>
<td>Impeller, Min. dia.: 140 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.: 63.5 mm, DN 65</td>
<td>Pump inlet, Dia.: 63.5 mm, DN 65</td>
</tr>
<tr>
<td>Pump outlet, Dia.: 38 mm, DN 40</td>
<td>Pump outlet, Dia.: 38 mm, DN 40</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 1.5 kW, 1410 rpm, asynchr., 50 Hz. For smaller motors, reduce head (H) with: 3%.

**DO NOT FORGET THE SAFETY FACTOR.**
Performance Curves

**SolidC-2, 60 Hz**

**Motor:** 1800 rpm, synchr.

- Tolerance: ±8% for Q
- ±6% for H
- Impeller, Max. dia.: 190 mm
- Impeller, Min. dia.: 140 mm
- Pump inlet, Dia.: 63.5 mm, DN 65
- Pump outlet, Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

*NOTE! The curves refer to motor: 2.7 kW, 1710 rpm, asynchr., 60 Hz.*

For smaller motors, reduce head (H) with: 3%.

---

**Motor:** 3600 rpm, synchr.

- Tolerance: ±8% for Q
- ±6% for H
- Impeller, Max. dia.: 180 mm
- Impeller, Min. dia.: 140 mm
- Pump inlet, Dia.: 63.5 mm, DN 65
- Pump outlet, Dia.: 38 mm, DN 40

Performance data refer to water at 20°C.

*NOTE! The curves refer to motor: 18 kW, 3535 rpm, asynchr., 60 Hz.*

For smaller motors, reduce head (H) with: 3%.
Performance Curves

**SolidC-3, 50 Hz**

Motor: 1500 rpm, synchr.
- Tolerance: ±8% for Q, ±6% for H
- Impeller, Max. dia.: 220 mm
- Impeller, Min. dia.: 170 mm
- Pump inlet, Dia.: 76 mm, DN 80
- Pump outlet, Dia.: 38 mm, DN 40

Motor: 3000 rpm, synchr.
- Tolerance: ±8% for Q, ±6% for H
- Impeller, Max. dia.: 220 mm
- Impeller, Min. dia.: 170 mm
- Pump inlet, Dia.: 76 mm, DN 80
- Pump outlet, Dia.: 38 mm, DN 40

Performance data refer to water at 20°C. For smaller motors, reduce head (H) with: 3%.

DO NOT FORGET THE SAFETY FACTOR.
### Performance Curves

#### SolidC-3, 60 Hz

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tolerance:</strong></td>
<td><strong>Tolerance:</strong></td>
</tr>
<tr>
<td>±8% for Q</td>
<td>±8% for Q</td>
</tr>
<tr>
<td>±6% for H</td>
<td>±6% for H</td>
</tr>
<tr>
<td>Impeller, Max. dia.: 220 mm</td>
<td>Impeller, Max. dia.: 220 mm</td>
</tr>
<tr>
<td>Impeller, Min. dia.: 170 mm</td>
<td>Impeller, Min. dia.: 170 mm</td>
</tr>
<tr>
<td>Pump inlet, Dia.: 76 mm, DN 80</td>
<td>Pump inlet, Dia.: 76 mm, DN 80</td>
</tr>
<tr>
<td>Pump outlet, Dia.: 38 mm, DN 40</td>
<td>Pump outlet, Dia.: 38 mm, DN 40</td>
</tr>
</tbody>
</table>

Performance data refer to water at 20°C.

**NOTE!** The curves refer to motor: 3.6 kW, 1720 rpm, asynchr., 60 Hz. For smaller motors, reduce head (H) with: 3%.

**DO NOT FORGET THE SAFETY FACTOR.**

![Graph of Performance Curves](image-url)
Performance Curves

SolidC-4, 50 Hz

Motor: 1500 rpm. synchr.
Tolerance: ±8% for Q
±6% for H
Impeller Max. dia.: 250 mm
Impeller Min. dia.: 200 mm
Pump inlet Dia.: 76 mm, DN 80
Pump outlet Dia.: 51 mm, DN 50
Performance data refer to water at 20°C.

Motor: 3000 rpm. synchr.
Tolerance: ±8% for Q
±6% for H
Impeller Max. dia.: 250 mm
Impeller Min. dia.: 200 mm
Pump inlet Dia.: 76 mm, DN 80
Pump outlet Dia.: 51 mm, DN 50
Performance data refer to water at 20°C.

NOTE! The curves refer to motor: 4 kW, 1455 rpm. asynchr., 50 Hz.
For smaller motors, reduce head (H) with: 3%.
DO NOT FORGET THE SAFETY FACTOR.
Performance Curves

SolidC-4, 60 Hz

Motor: 1800 rpm, synchr.
Tolerance: ±8% for Q
Impeller, Max. dia.: 250 mm
Impeller, Min. dia.: 200 mm
Pump inlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 51 mm, DN 50
Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 6.8 kW, 1770 rpm, asynchr., 60 Hz.
For smaller motors, reduce head (H) with: 3%.
DO NOT FORGET THE SAFETY FACTOR.

Motor: 3600 rpm, synchr.
Tolerance: ±8% for Q
Impeller, Max. dia.: 250 mm
Impeller, Min. dia.: 200 mm
Pump inlet, Dia.: 76 mm, DN 80
Pump outlet, Dia.: 51 mm, DN 50
Performance data refer to water at 20°C.
NOTE! The curves refer to motor: 25 kW, 3555 rpm, asynchr., 60 Hz.
For smaller motors, reduce head (H) with: 3%.
DO NOT FORGET THE SAFETY FACTOR.