

Data sheet

Hydraulic data

| | |
|-------------------------------------|--------|
| Maximum operating pressure P_N | 16 bar |
| Min. fluid temperature T_{\min} | -20 °C |
| Max. fluid temperature T_{\max} | 140 °C |
| Min. ambient temperature T_{\min} | -15 °C |
| Max. ambient temperature T_{\max} | 40 °C |

Motor data

| | |
|-----------------------------------|----------------|
| Mains connection | 3~400 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Rated power P_2 | 5.5 kW |
| Motor efficiency class | IE3 |
| Rated current I_N | 10.6 A |
| Rated speed n | 2930 1/min |
| Power factor $\cos \varphi_{100}$ | 0.78 |
| Insulation class | F |
| Protection class motor | IP55 |

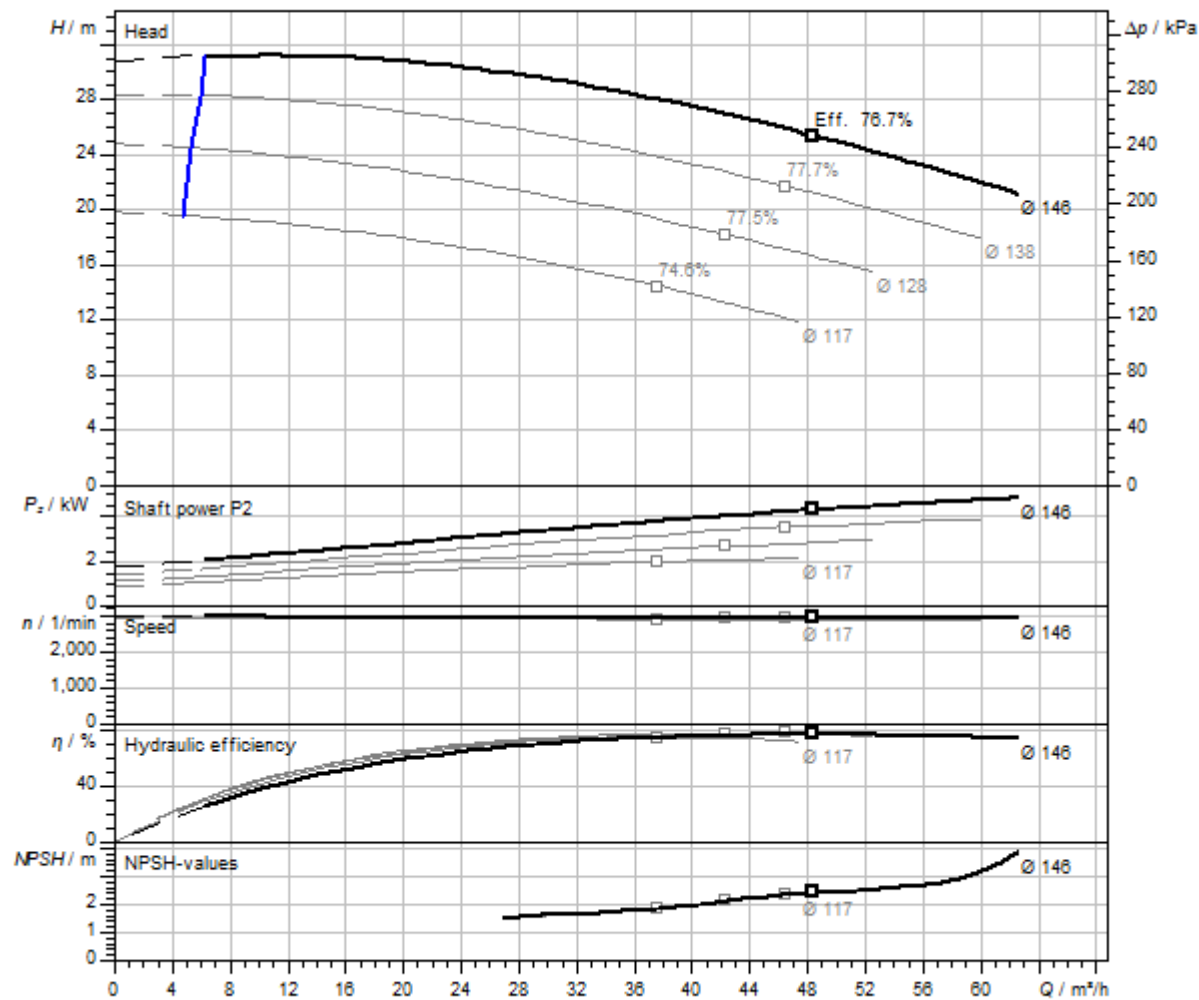
Installation dimensions

| | |
|---|-------|
| Pipe connection on the suction side DN_s | DN 65 |
| Pipe connection on the discharge side DNd | DN 40 |

Materials

| | |
|-----------------|------------------------------|
| Pump housing | 5.1301/EN-GJL-250 KTL-coated |
| Impeller | Grey cast iron |
| Shaft | Stainless steel |
| Mechanical seal | AQ1EGG |
| Lantern | Grey cast iron |

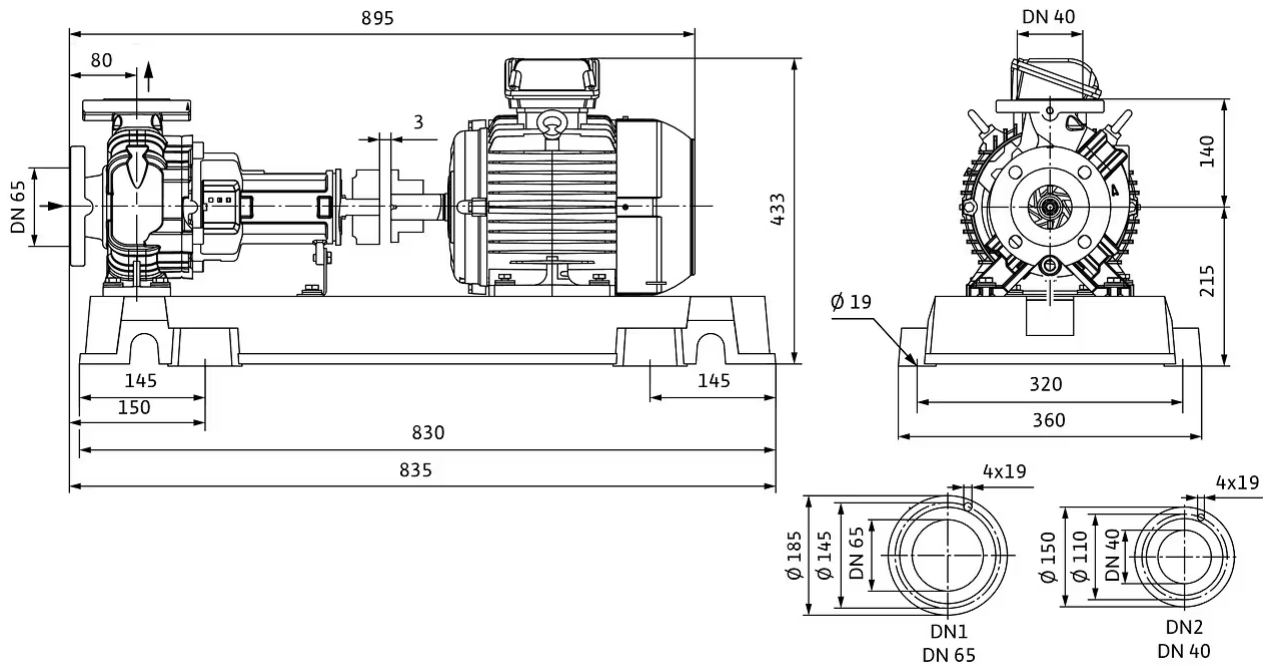
Pump curves



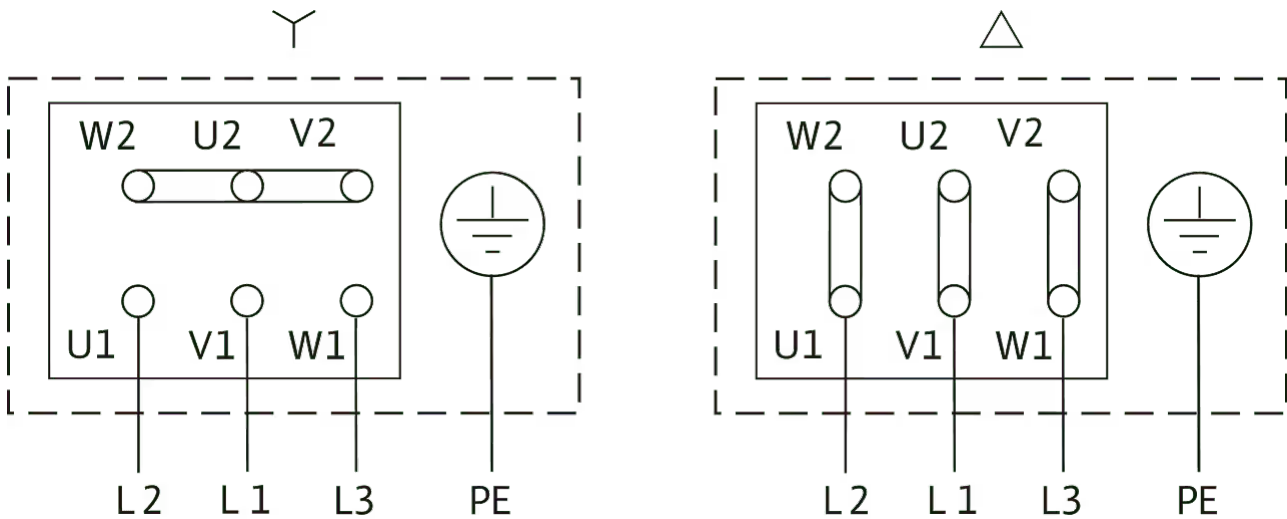
| | |
|---------------------|-------------|
| Standard | ISO 9906 3B |
| Fluid media | Water 100 % |
| Fluid temperature | 20.00 °C |
| speed at duty point | 2,949 1/min |
| Impeller diameter | 146 mm |

Dimensions and dimensions drawings

Atmos GIGA-N 40/125-5,5/2-P5



Wiring diagram



Δ: Connection diagram delta connection

Y: Connection diagram star connection

Motor protection switch required on-site. Check the direction of rotation! To change the direction of rotation, exchange any two phases.

$P_2 \leq 3$ kW 3~400 V Y

3~230 V Δ

$P_2 \geq 4$ kW 3~690 V Y

3~400 V Δ

After removing the bridges, Y-Δ start is possible.

Tender text

Single-stage centrifugal pump as baseplate pump in accordance with EN 733, with axial suction ports and radial pressure ports for installation on a base. Pump with support foot and flanged bearing bracket, coupling, coupling guard and motor mounted to same baseplate.

IEC motor with 3 PTC thermistor sensors. Shaft sealing with bidirectional bellows mechanical seal. Grey cast iron housing, stainless steel shaft, grey cast iron impeller. Cataphoretic coating as standard for all cast iron components in contact with fluid.

Coupling variants:

- Spacer coupling (standard)
- Elastic coupling (variant P5, at a reduced price)

Impeller variants (for an additional charge):

- Bronze
- Stainless steel

NOTICE

The elastic coupling does not contain a spacer.

The spacer coupling is an elastic coupling with a spacer. The spacer reduces maintenance costs, and further motor orientation when changing the mechanical seal is not necessary.

Materials

| | |
|--------------|------------------------------|
| Pump housing | 5.1301/EN-GJL-250 KTL-coated |
| Impeller | Grey cast iron |
| Lantern | Grey cast iron |
| Shaft | Stainless steel |
| Shaft seal | AQ1EGG |

Operating Data

| | |
|-------------------------------------|----------|
| Min. fluid temperature T_{\min} | -20 °C |
| Max. fluid temperature T_{\max} | 140 °C |
| Maximum operating pressure p | 16.0 bar |
| Max. ambient temperature T_{\max} | 40 °C |
| Minimum efficiency index (MEI) | ≥0.4 |


Motor data

| | |
|--------------------------------------|----------------|
| Mains connection | 3~400 V, 50 Hz |
| Voltage tolerance | ±10 % |
| Motor efficiency class | IE3 |
| Rated power P_2 | 5500 W |
| Rated speed n | 2930 1/min |
| Rated current I_N | 10.6 A |
| Power factor $\cos \varphi_{100}$ | 0.78 |
| Motor efficiency 50% $\eta_M 50\%$ | 86.9 % |
| Motor efficiency 75% $\eta_M 75\%$ | 88.7 % |
| Motor efficiency 100% $\eta_M 100\%$ | 89.4 % |
| Protection class | IP55 |
| Insulation class | F |

Installation dimensions

| | |
|---|-------|
| Pipe connection on the suction side DNs | DN 65 |
| Pipe connection on the discharge side DNd | DN 40 |

Ordering information

| | |
|-------------------------|---|
| Brand | Wilo |
| Net weight, approx. m | 150 kg |
| Product description | Atmos GIGA-N 40/125-5,5/2-P5 |
| Article number | 6086721  |