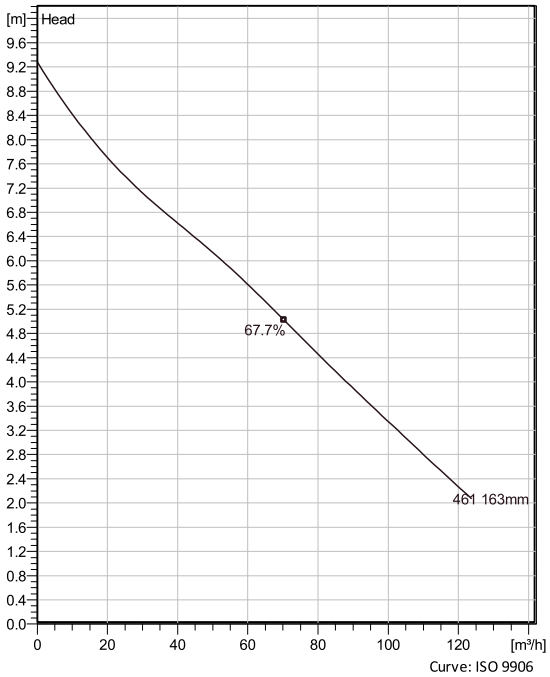
# NP 3085 MT 3~ Adaptive 461

Patented self cleaning semi-open channel impeller, ideal for pumping in most waste water applications. Modular based design with high adaptation grade.

## Technical specification

Curves according to: Water, pure Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s




Curve: ISO 9906

## Configuration

**Motor number**
N3085.160 15-10-4AL-W 2KW

**Installation type**
P - Semi permanent, Wet

**Impeller diameter**
163 mm

**Discharge diameter**
80 mm

## Pump information

**Impeller diameter**
163 mm

**Discharge diameter**
80 mm

**Inlet diameter**
100 mm

**Maximum operating speed**
1405 rpm

**Number of blades**
2

**Max. fluid temperature**
40 °C

## Materials

**Impeller**
Grey cast iron

**Stator housing material**
Grey cast iron

| | | | | | |
|---|---|---|---|---|---|
| **Project** | | **Created by** | | | |
| **Block** | 0 | **Created on** | 2/2/2022 | **Last update** | 2/2/2022 |

# NP 3085 MT 3~ Adaptive 461

Technical specification

## Motor - General

| | | | |
|---|---|---|---|
| **Motor number**<br>N3085.160 15-10-4AL-W 2KW | **Phases**<br>3~ | **Rated speed**<br>1405 rpm | **Rated power**<br>2 kW |
| **Approval**<br>No | **Number of poles**<br>4 | **Rated current**<br>4.8 A | **Stator variant**<br>62 |
| **Frequency**<br>50 Hz | **Rated voltage**<br>400 V | **Insulation class**<br>H | **Type of Duty**<br>S1 |
| **Version code**<br>160 | | | |

## Motor - Technical

| | | | |
|---|---|---|---|
| **Power factor - 1/1 Load**<br>0.79 | **Motor efficiency - 1/1 Load**<br>75.9 % | **Total moment of inertia**<br>0.0206 kg m² | **Starts per hour max.**<br>30 |
| **Power factor - 3/4 Load**<br>0.71 | **Motor efficiency - 3/4 Load**<br>77.0 % | **Starting current, direct starting**<br>24 A | |
| **Power factor - 1/2 Load**<br>0.59 | **Motor efficiency - 1/2 Load**<br>75.0 % | **Starting current, star-delta**<br>8 A | |

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# NP 3085 MT 3~ Adaptive 461

Performance curve

## Duty point

| Flow | Head |
|---|---|

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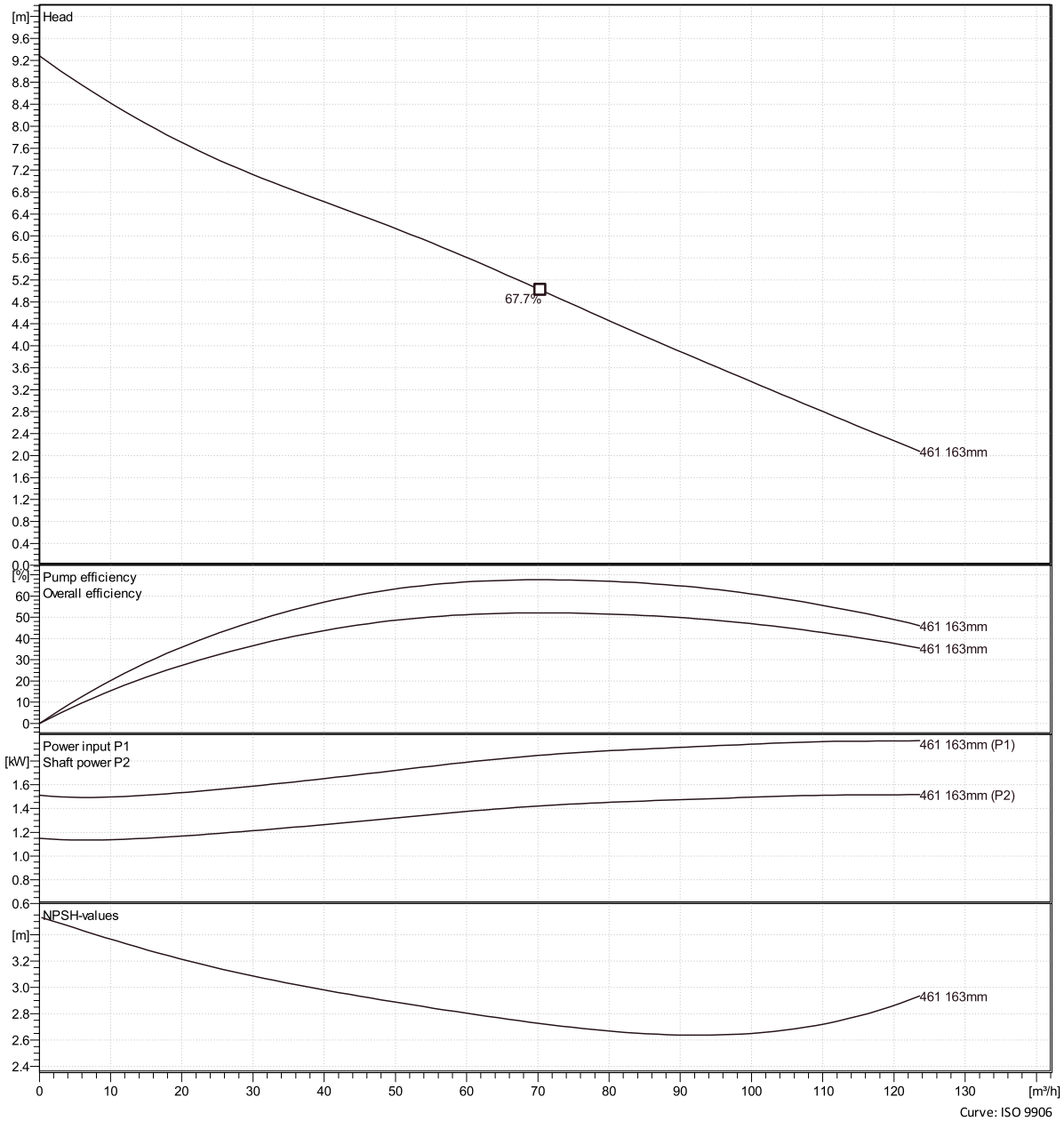


Curve: ISO 9906

| | | | | | |
|---|---|---|---|---|---|
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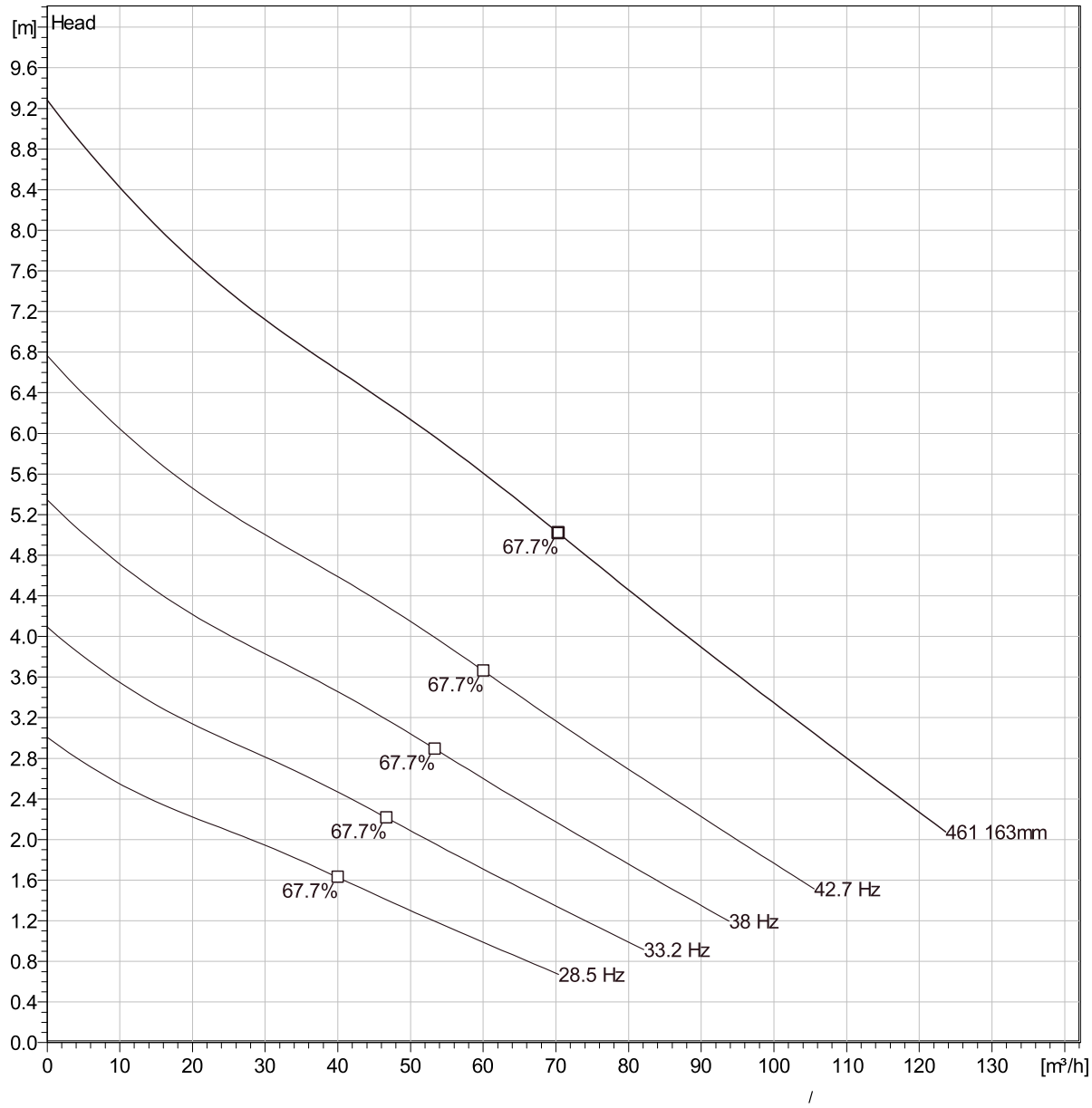
## Duty Analysis

Curves according to: Water, pure [100%] ; 4°C; 999.9kg/m³; 1.5692mm²/s




## Operating characteristics

| Pumps / Systems | Flow | Head | Shaft power | Flow | Head | Shaft power | Hydr.eff. | Spec. Energy | NPSHre |
|---|---|---|---|---|---|---|---|---|---|
| | m³/h | m | kW | m³/h | m | kW | | kWh/m³ | m |

| | | | | | |
|---|---|---|---|---|---|
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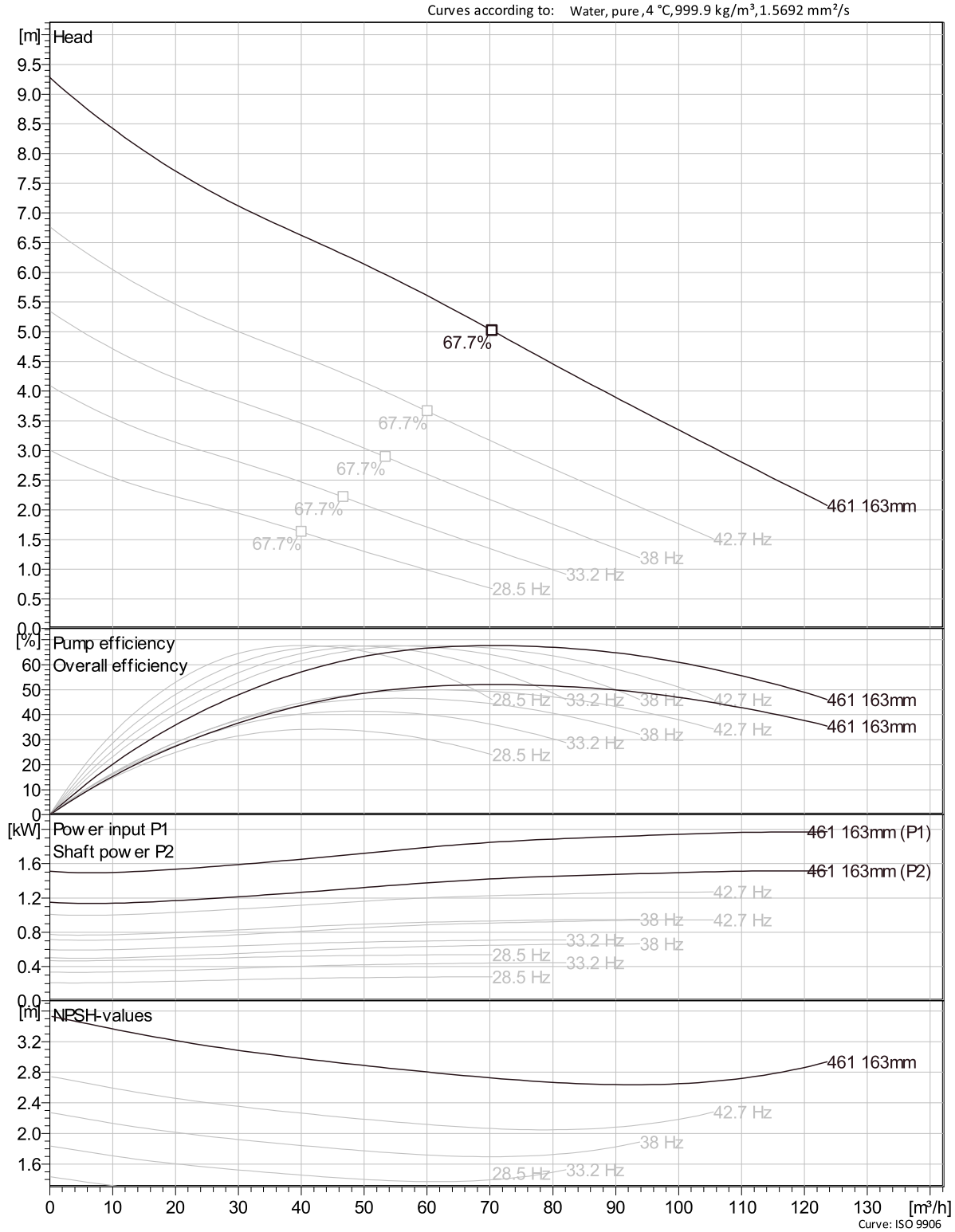
# NP 3085 MT 3~ Adaptive 461

VFD Curve

FLYGT
a xylem brand

Curves according to: Water, pure ,4 °C,999.9 kg/m³,1.5692 mm²/s




Curve: ISO 9906

| | | | | | |
|---|---|---|---|---|---|
| **Project** | | **Created by** | | | |
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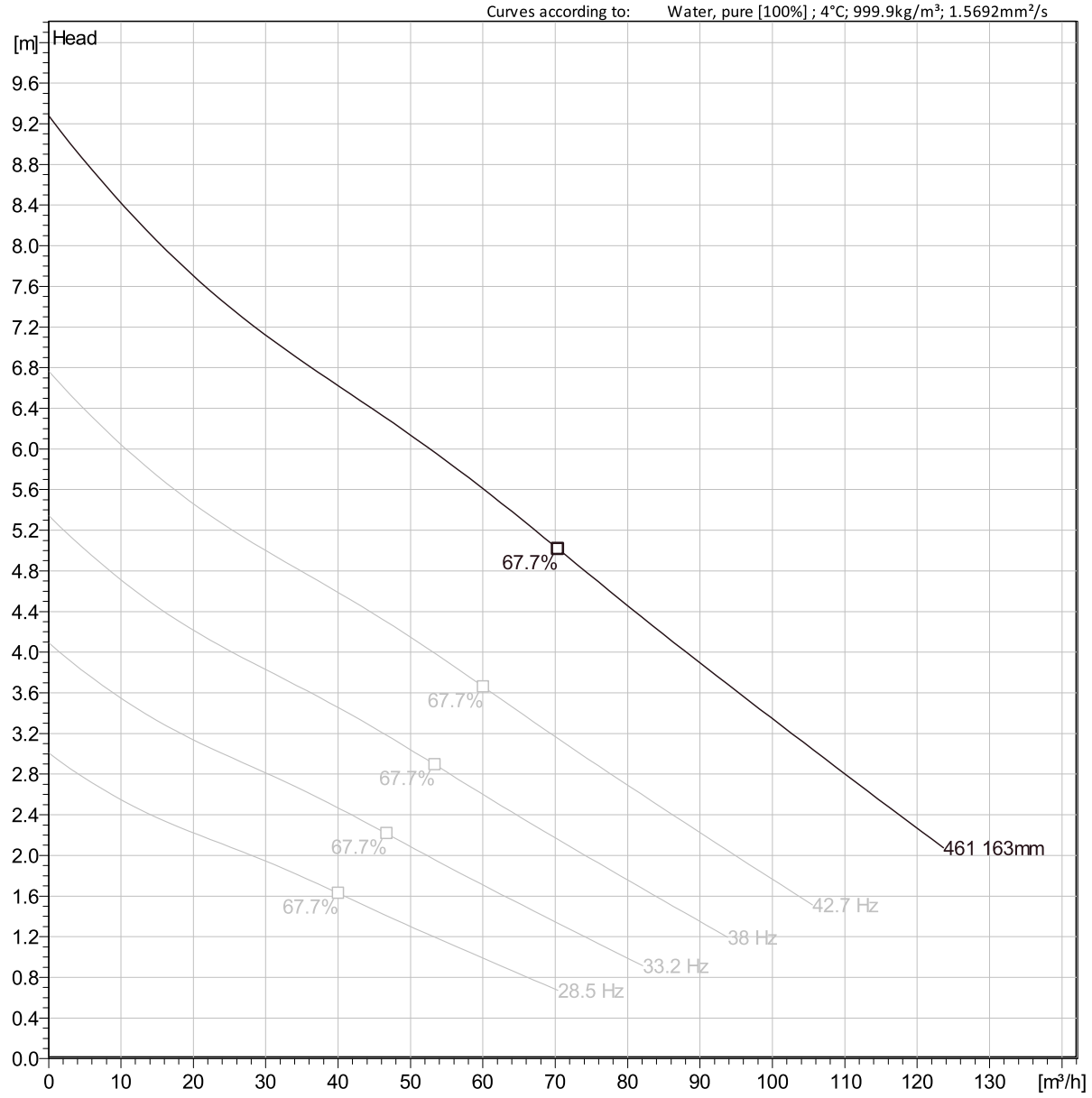
# NP 3085 MT 3~ Adaptive 461

VFD Analysis

Curves according to: Water, pure [100%] ; 4°C; 999.9kg/m³; 1.5692mm²/s




## Operating Characteristics

| Pumps / Systems | Frequency | Flow | Head | Shaft power | Flow | Head | Shaft power | Hydr.eff. | Specific energy | NPSHre |
|---|---|---|---|---|---|---|---|---|---|---|
| | | m³/h | m | kW | m³/h | m | kW | | kWh/m³ | m |

| | | | | | |
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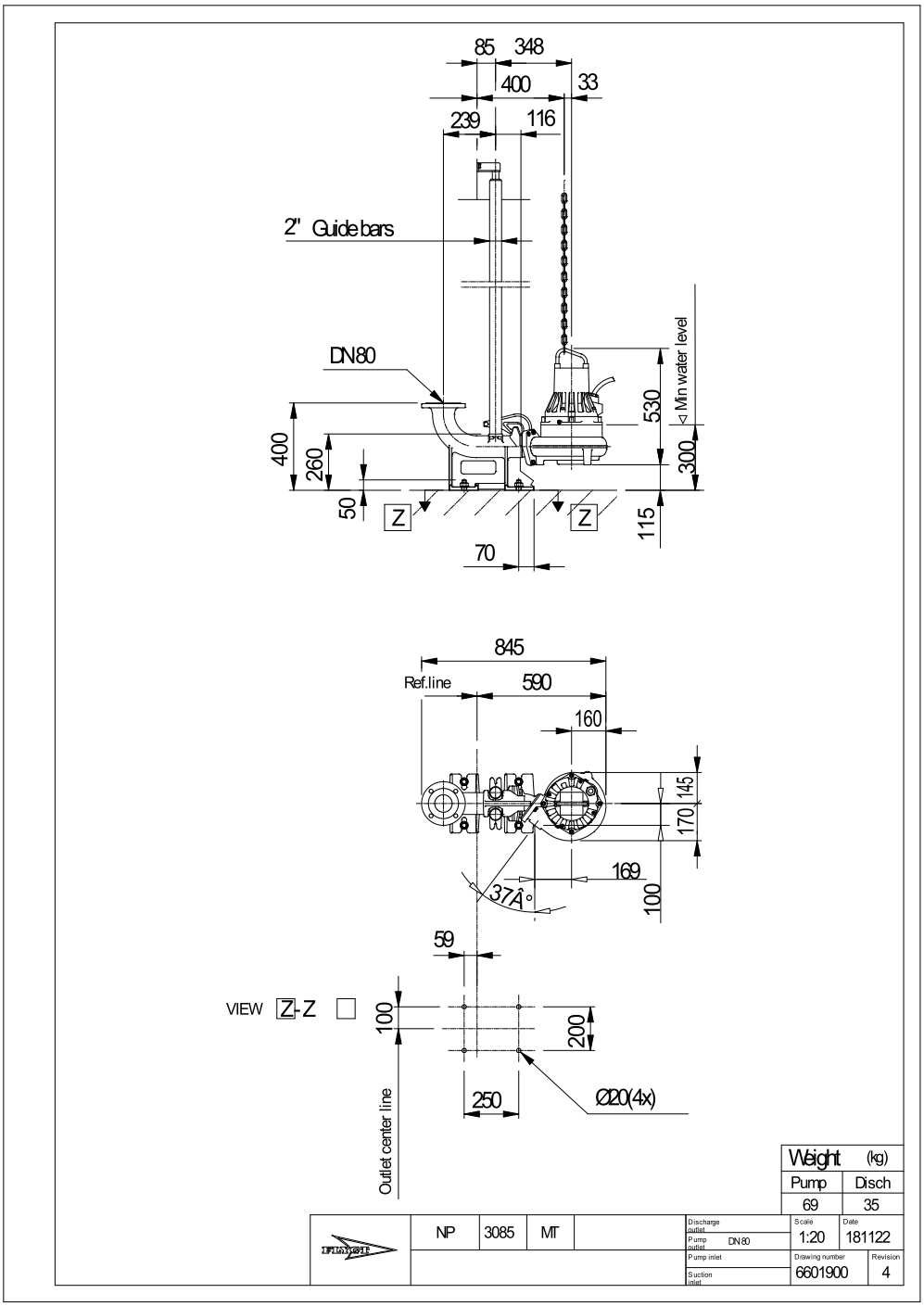
Dimensional drawing

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