

**Customer**

# Technical data

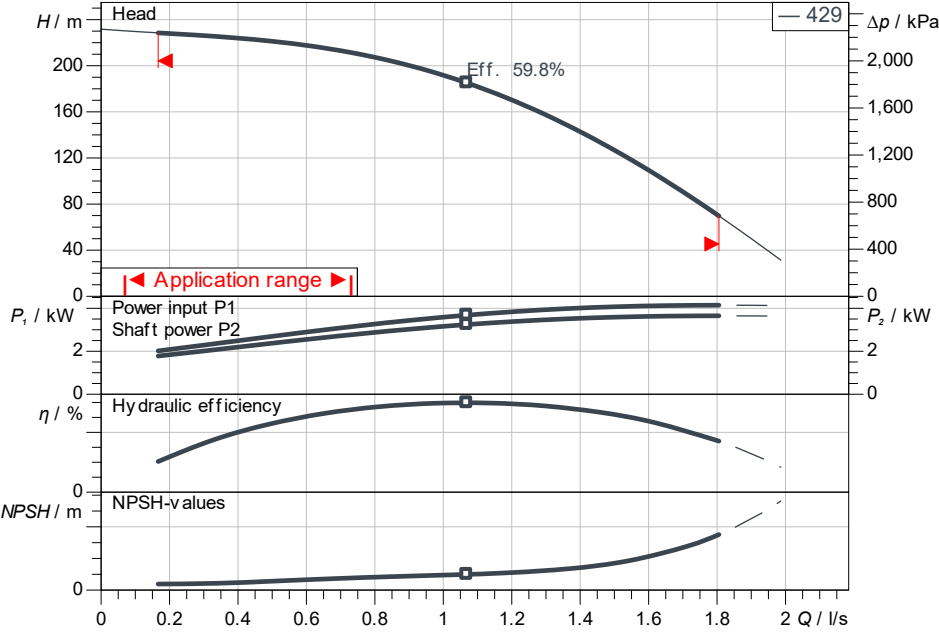
## High-pressure multistage centrifugal pump Helix FIRST V 429-5/30/E/KS/400-50

Project ID: Untitled project 2025-03-03 15:12:38.853

Project name  
Installation location  
Customer pos. No.

Date: 2025-03-03

### Duty chart



### Requested data

|                   |              |
|-------------------|--------------|
| Flow              |              |
| Head              |              |
| Media             | Water 100 %  |
| Fluid temperature | 20.00 °C     |
| Density           | 998.30 kg/m³ |
| Kin. viscosity    | 1.00 mm²/s   |

### Hydraulic data (Duty point)

|                      |  |
|----------------------|--|
| Flow                 |  |
| Head                 |  |
| Shaft power P2       |  |
| Hydraulic efficiency |  |
| NPSH                 |  |

### Product data

|   |                    |
|---|--------------------|
| High-pressure multistage centrifugal pump<br>Helix FIRST V 429-5/30/E/KS/400-50 |                    |
| Max. operating pressure   | 3,000 kPa          |
| Inlet pressure max.   | 10 bar             |
| Fluid temperature   | -20 °C ... +120 °C |
| Max. ambient temperature  | 50 °C              |
| Minimum efficiency index (MEI)  | ≥ 0.7              |

### Motordata per Motor/Pump

|                             |                                |
|-----------------------------|--------------------------------|
| Motor efficiency level      | IE3                            |
| Mains connection            | 3~ 400 V / 50 Hz               |
| Permitted voltage tolerance | +10 %                          |
| Max. speed                  | 2,900 1/min                    |
| Rated power P2              | 4.00 kW                        |
| Rated current               | 7.40 A                         |
| Power factor                | 0.87                           |
| Service factor              | 1.15                           |
| Efficiency                  | 50% / 75% / 100% 86.5/88/88.1% |
| Degree of protection        | IP55                           |
| Insulation class            | F                              |
| Motor protection            | No                             |

### Fitting dimensions

|                                     |              |
|-------------------------------------|--------------|
| Pipe connection on the suction side | DN 25, PN 40 |
| Pipe connection (pressure side)     | DN 25, PN 40 |

### Materials

|                 |                   |
|-----------------|-------------------|
| Pump housing    | 5.1301/EN-GJL-250 |
| Impeller        | 1.4307            |
| Shaft           | 1.4301            |
| Shaft seal      | Q1BE3GG           |
| Gasket material | EPDM              |

### Information for order placements

|                |         |
|----------------|---------|
| Weight approx. | 63 kg   |
| Item number    | 4201121 |

ISO 9906: 2012 3B

### Dimensions

|    |      |
|----|------|
| H  | 1,39 |
| H2 | 1,09 |
| ØM | 196  |
| X  | 164  |
| X  | 145  |

mm

