

## Technical data

### High-pressure multistage centrifugal pump Helix FIRST V 1013-5/25/E/KS/400-50

Project ID

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

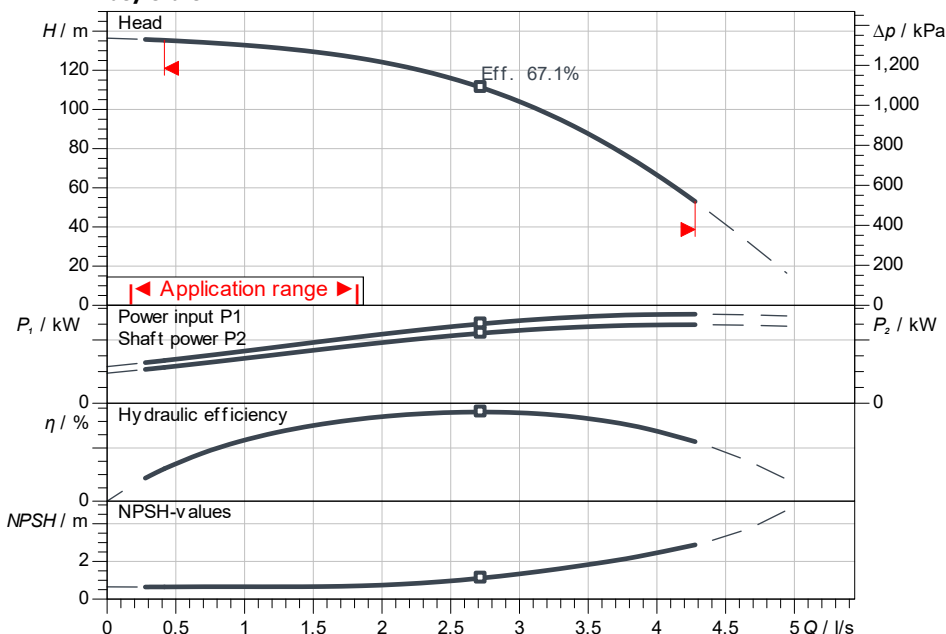
Project name

Installation location

Customer pos. No.

Date 2025-03-03

#### Duty chart

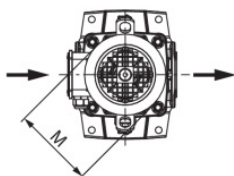
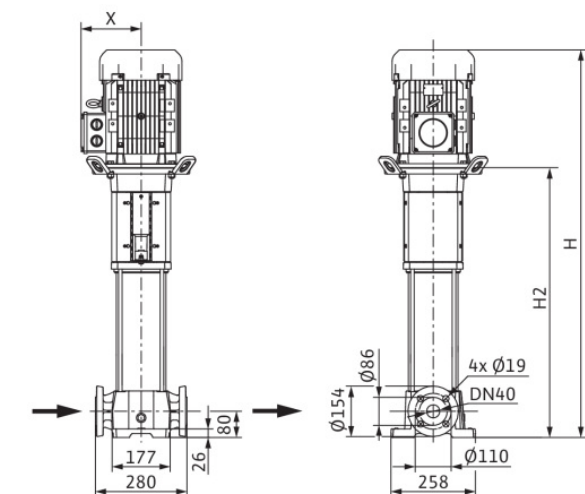
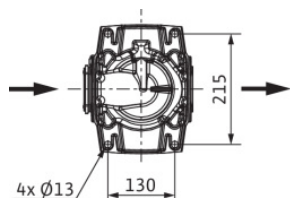


ISO 9906: 2012 3B

#### Dimensions

|                 |      |
|-----------------|------|
| H               | 1,22 |
| H2              | 885  |
| $\varnothing M$ | 210  |
| X               | 149  |
| X               | 149  |

mm



#### Requested data

|                   |                             |
|-------------------|-----------------------------|
| Flow              |                             |
| Head              |                             |
| Media             | Water 100 %                 |
| Fluid temperature | 20.00 °C                    |
| Density           | 998.30 $\text{kg/m}^3$      |
| Kin. viscosity    | 1.00 $\text{mm}^2/\text{s}$ |

#### Hydraulic data (Duty point)

|                      |  |
|----------------------|--|
| Flow                 |  |
| Head                 |  |
| Shaft power $P_2$    |  |
| Hydraulic efficiency |  |
| NPSH                 |  |

#### Product data

|                                           |                    |
|-------------------------------------------|--------------------|
| High-pressure multistage centrifugal pump |                    |
| Helix FIRST V 1013-5/25/E/KS/400-50       |                    |
| Max. operating pressure                   | 2,500 kPa          |
| Inlet pressure max.                       | 10 bar             |
| Fluid temperature                         | -20 °C ... +120 °C |
| Max. ambient temperature                  | 50 °C              |
| Minimum efficiency index (MEI)            | $\geq 0.7$         |

#### 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 $P_2$           | 5.50 kW          |
| Rated current               | 10.50 A          |
| Power factor                | 0.86             |
| Service factor              | 1.15             |
| Efficiency                  |                  |
| 50% / 75% / 100%            | 87.1/89/89.2%    |
| Degree of protection        | IP55             |
| Insulation class            | F                |
| Motor protection            | No               |

#### Fitting dimensions

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

#### Materials

|                 |                   |
|-----------------|-------------------|
| Pump housing    | 5.1301/EN-GJL-250 |
| Impeller        | 1.4307            |
| Shaft           | 1.4301            |
| Shaft seal      | BQ7EGG            |
| Gasket material | EPDM              |

#### Information for order placements

|                |         |
|----------------|---------|
| Weight approx. | 75 kg   |
| Item number    | 4200969 |