

## Technical data

### High-pressure multistage centrifugal pump Helix V 418-1/16/E/KS/400-50

Project ID

Untitled project 2025-03-03 20:19:56.538

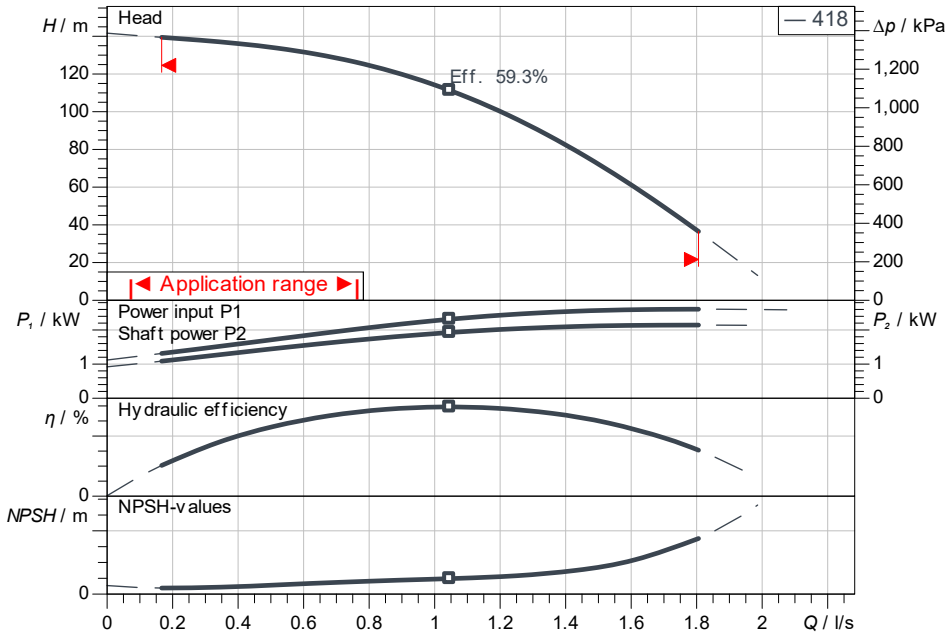
Project name

Installation location

Customer pos. No.

Date 2025-03-03

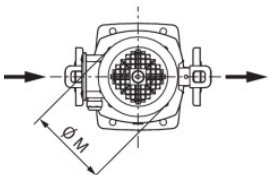
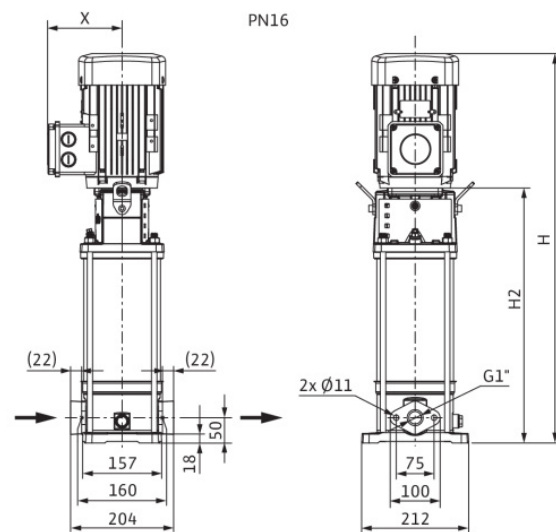
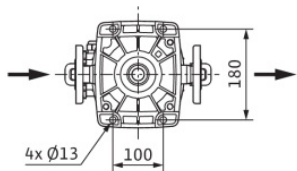
#### Duty chart



#### Dimensions

|     |      |
|-----|------|
| H   | 1,07 |
| H2  | 781  |
| Ø M | 172  |
| X   | 132  |
| X   | 132  |

mm



#### 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 V 418-1/16/E/KS/400-50 |                    |
| Max. operating pressure                                                   | 1,600 kPa          |
| Inlet pressure max.                                                       | 10 bar             |
| Fluid temperature                                                         | -30 °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              | 2.20 kW          |
| Rated current               | 4.30 A           |
| Power factor                | 0.87             |
| Service factor              | 1.15             |
| Efficiency                  | 50% / 75% / 100% |
| Degree of protection        | IP55             |
| Insulation class            | F                |
| Motor protection            | PTO              |

#### Fitting dimensions

|                                     |            |
|-------------------------------------|------------|
| Pipe connection on the suction side | G 1, PN 16 |
| Pipe connection (pressure side)     | G 1, PN 16 |

#### Materials

|                 |        |
|-----------------|--------|
| Pump housing    | 1.4301 |
| Impeller        | 1.4307 |
| Shaft           | 1.4301 |
| Shaft seal      | BQ7EGG |
| Gasket material | EPDM   |

#### Information for order placements

|                |         |
|----------------|---------|
| Weight approx. | 44 kg   |
| Item number    | 4160540 |