

**Customer**

# Technical data

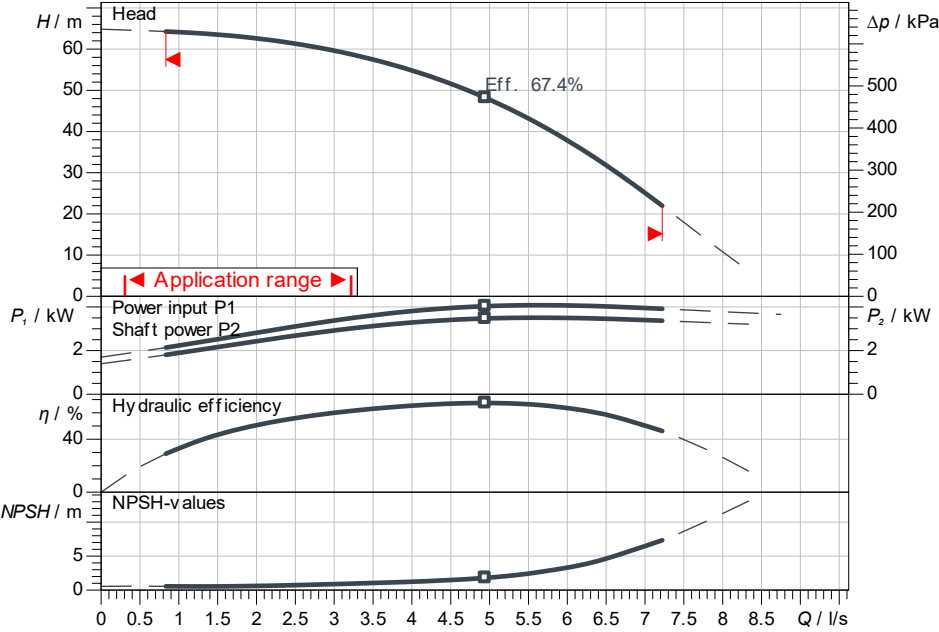
## High-pressure multistage centrifugal pump Helix V 1605-1/16/E/S/400-50

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

Project name  
Installation location  
Customer pos. No.

Date: 2025-03-03

### Duty chart



### Requested data

|                   |                          |
|-------------------|--------------------------|
| Flow              |                          |
| Head              |                          |
| Media             | Water 100 %              |
| Fluid temperature | 20.00 °C                 |
| Density           | 998.30 kg/m <sup>3</sup> |
| Kin. viscosity    | 1.00 mm <sup>2</sup> /s  |

### Hydraulic data (Duty point)

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

### Product data

|   |                    |
|---|--------------------|
| High-pressure multistage centrifugal pump<br>Helix V 1605-1/16/E/S/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)  | ≥ 0.5              |

### 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 | G 2, PN 16 |
| Pipe connection (pressure side)     | G 2, 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. | 46.9 kg |
| Item number    | 4201325 |

ISO 9906: 2012 3B

### Dimensions

|    |     |
|----|-----|
| H  | 877 |
| H2 | 571 |
| ØM | 196 |
| X  | 164 |
| X  | 145 |

mm

