

## General Data

|   |                |
|---|----------------|
| Model:  | DNB 80-2/150 T |
| Code:   | 2001540        |
| Series:   | DNB            |
| Weight [Kg]   | 32.50          |
| Submersible eletropumps for wastewater including sewage |                |

## Hydraulic

|                          |                              |
|--------------------------|------------------------------|
| Impeller Type:           | Twin channel S-flow impeller |
| Delivery DN [mm]:        | DN80 PN16                    |
| Input DN [mm]:           | 80                           |
| Free Passage [mm]:       | 70                           |
| Impeller Ø [mm]:         | 102                          |
| Max Pump Efficiency [%]: | 48.00                        |
| Global Efficiency [%]:   | 38.55                        |
| Head [m]:                | 6.84                         |
| Flow [m³/h]:             | 36.00                        |

*Tolerance according to ISO 9906:2012 3B2*



Attention: pictures for illustrative purposes

## Features

|                        |                                 |
|------------------------|---------------------------------|
| Upper Meccanical seal: | CA/CE/Viton                     |
| Lower Meccanical Seal: | SIC/SIC/Viton                   |
| Upper Bearing:         | Single raw ball bearing         |
| Lower Bearing:         | Single raw ball bearing         |
| IP Protection:         | IP68                            |
| Motor protection:      | present                         |
| Humidity sensor:       | not present                     |
| ATEX:                  | not present                     |
| Applied Paint:         | Two component water-based paint |
| Cable Length [m]:      | 10                              |
| Lubricating Oil:       | Q8 WF15                         |
| Oil Quantity [Kg]:     | 0.24                            |

## Materials

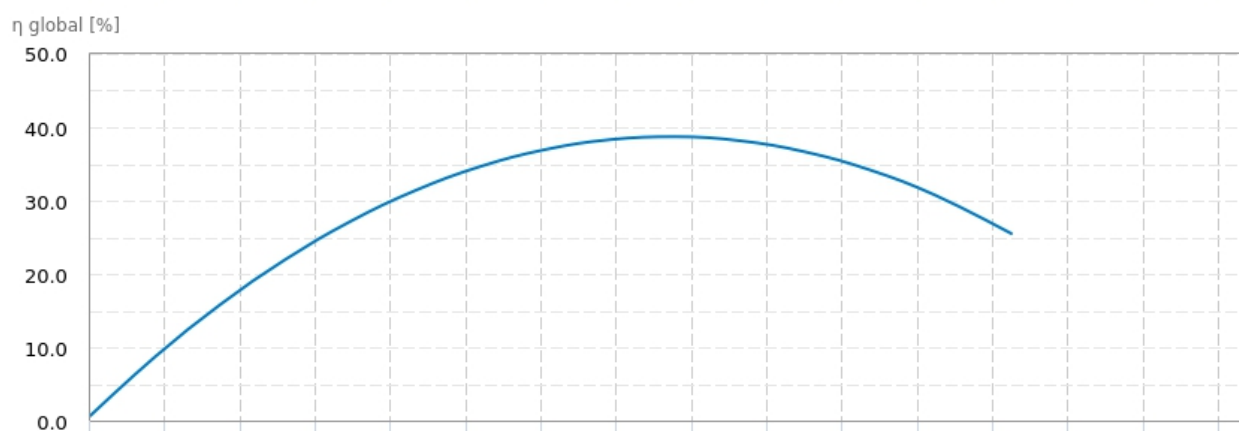
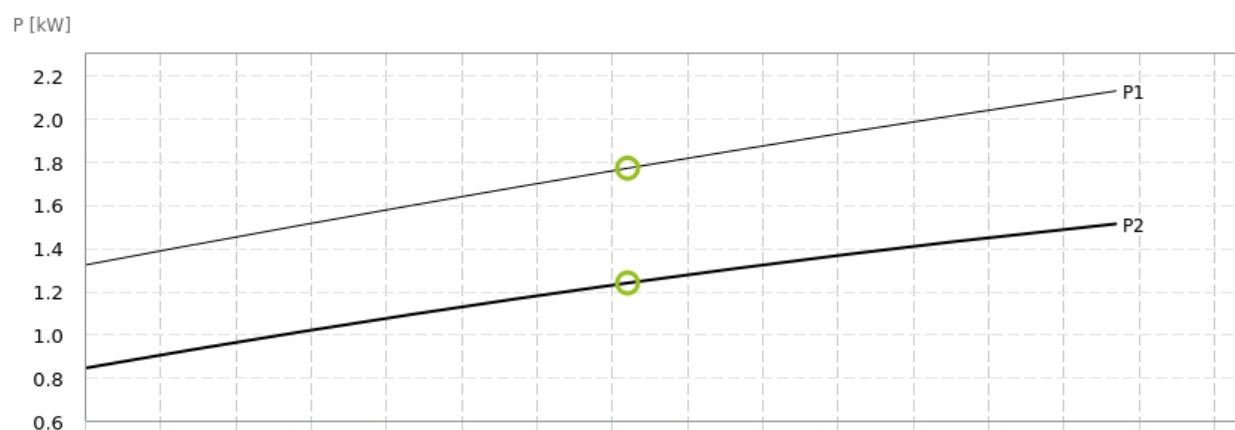
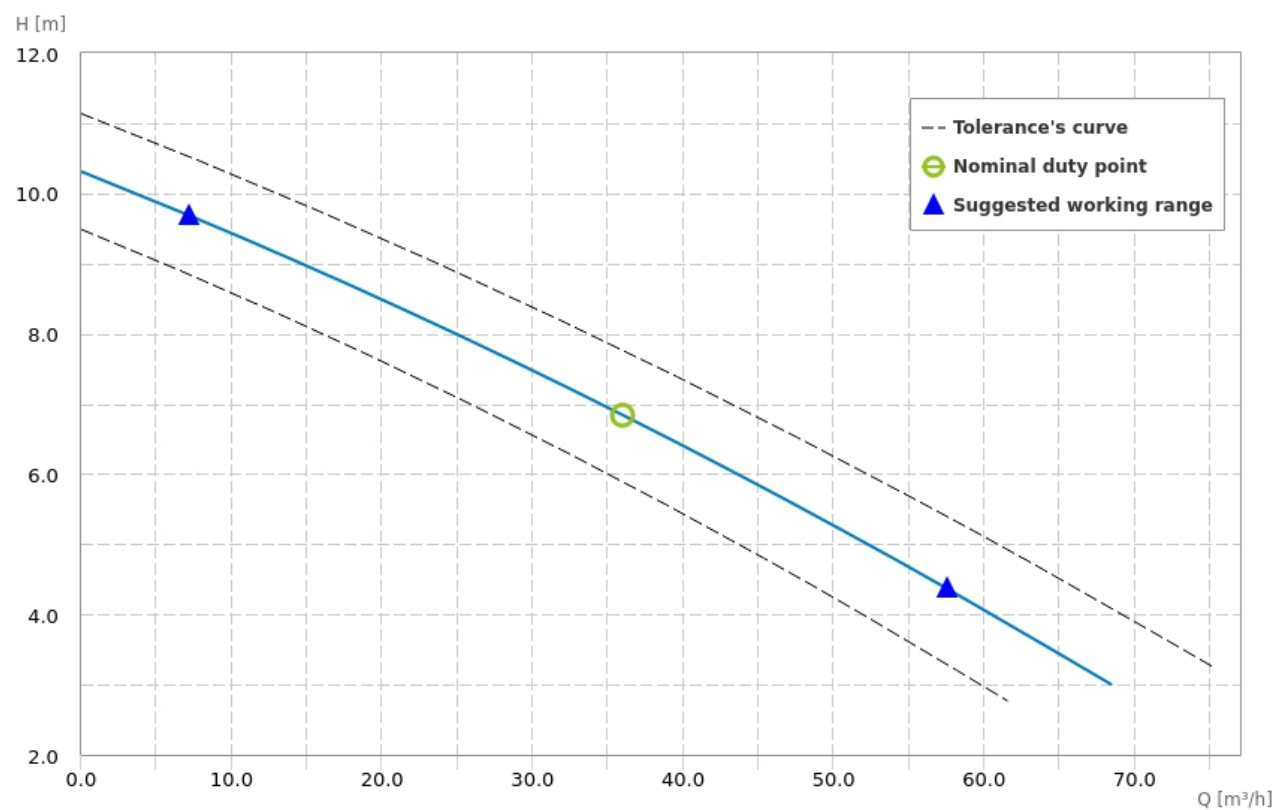
|                 |                              |
|-----------------|------------------------------|
| Pump:           | Cast Iron EN 1561 EN-GJL-200 |
| Impeller:       | Cast iron EN 1561 EN-GJL-200 |
| Motor shaft:    | Stainless steel AISI 420     |
| Cooling Jacket: | Not available                |
| Screw:          | Stainless steel A2-70        |
| Cable:          | H07RN8F                      |

## Pumped Liquid

|                    |                          |
|--------------------|--------------------------|
| Pumped Liquid:     | Light and lightly sewage |
| Density [Kg/dm³]:  | 1.1                      |
| pH:                | 6-10                     |
| Temperature Range: | 0-40°C                   |

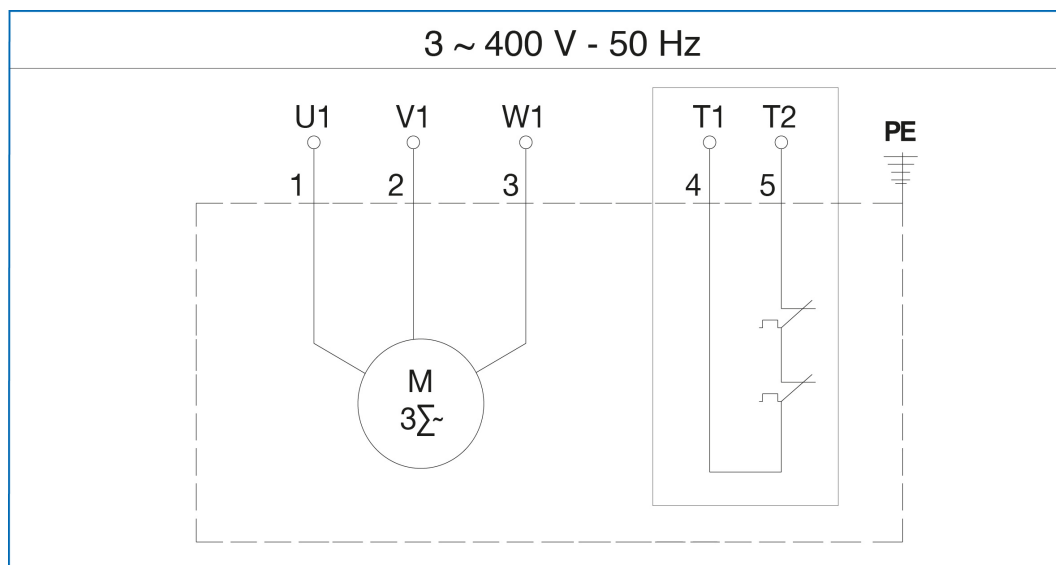
## Installation

|                                 |   |
|---------------------------------|---|
| Maximum depth of immersion [m]: | 20  |
| Cooling Type:                   | The cooling of the motor is ensured by the surrounding liquid |
| Installation:                   | Vertical  |
| Floating on board machine:      | not present   |



**Motor**

|                                  |            |
|----------------------------------|------------|
| Motor code:                      | 3520180235 |
| Power P1 [kW]:                   | 2.10       |
| Power P2 [kW]:                   | 1.50       |
| Phases:                          | 3          |
| Frequency [Hz]:                  | 50         |
| Tension [V]:                     | 400        |
| Nominal current [A]:             | 3.7        |
| Starting current [%]:            | 531.0      |
| Power Factor:                    | 0.82       |
| R.P.M.:                          | 2850       |
| Starting:                        | D.O.L      |
| Capacitor [μF]:                  | -          |
| Insulation Class:                | F 155°C    |
| Service type:                    | S2         |
| Max Efficiency [%]:              | 81.30      |
| Max Efficiency at full load [%]: | 80.7       |
| Efficiency at ¾ load [%]:        | 81.2       |
| Efficiency at ½ load [%]:        | 81.3       |
| Efficiency class:                | -          |

**Wiring diagrams**

## Dimensions drawing

