

|              |             |            |
|--------------|-------------|------------|
| Customer     | Date        | 12/10/2020 |
| Contact      | Project     |            |
| Phone number | Project no. |            |
| Email        |             |            |

**10SV05N022T**
**1016LD194**
**Operating data**

|                           |                  |                           |                          |
|---------------------------|------------------|---------------------------|--------------------------|
| Pump type                 | Single head pump | Fluid                     | Water, pure              |
| No. of pumps / Reserve    | 1 / 0            | Operating temperature t A | °C 4                     |
| Nominal flow              | l/s 0            | pH-value at t A           | 7                        |
| Nominal head              | m 0              | Density at t A            | kg/m <sup>3</sup> 1000   |
| Static head               | m 0              | Kin. viscosity at t A     | mm <sup>2</sup> /s 1.569 |
| Inlet pressure            | kPa 0            | Vapor pressure at t A     | kPa 100                  |
| Environmental temperature | °C 20            | Solids                    | 0                        |
| Available system NPSH     | m 0              | Altitude                  | m 0                      |

**Pump data**

|                       |                |                  |                |
|-----------------------|----------------|------------------|----------------|
| Make                  | Lowara         | Nominal          | l/s ( )        |
| Speed                 | rpm 2900       | Flow             | Max- l/s 3.9   |
| Number of stages      | 5              |                  | Min- l/s       |
| Max. casing pressure  | kPa            |                  | Nominal m      |
| Max. working pressure | kPa 588.2      | Head             | at Qmax m 28.9 |
| Head H(Q=0)           | m 60           |                  | at Qmin m 60   |
| Weight                | kg 37          | Shaft power      | kW ( )         |
|                       | Max. mm 96     | Max. shaft power | kW 1.8         |
| Impeller R            | designed mm 96 | Efficiency       | %              |
|                       | Min. mm 96     | NPSH 3%          | m              |

**Pump Materials**

|                          |                             |
|--------------------------|-----------------------------|
| Pump body                | Stainless steel / AISI 316L |
| Impeller                 | Stainless steel / AISI 316L |
| Diffuser                 | Stainless steel / AISI 316L |
| Outer sleeve             | Stainless steel / AISI 316L |
| Shaft                    | Stainless steel / AISI 316  |
| Adapter                  | Cast iron                   |
| Base                     | Aluminium                   |
| Coupling                 | Aluminium                   |
| SEAL HOUSING             | Stainless steel / AISI 316L |
| Coupling protection      | Stainless steel / AISI 304  |
| Shaft sleeve and bushing | Tungsten carbide            |
| Fill / drain plugs       | Stainless steel / AISI 316  |
| Tie rods                 | Stainless steel / AISI 431  |
| Wear Ring                | Technopolymer PPS           |

**Shaft Seal**

|                               |                          |
|-------------------------------|--------------------------|
| e-SV Mechanical seal          | Roten                    |
| e-SV - Uniten (-30 / +120 °C) |                          |
| 1 - Rotating part             | Silicon Carbide          |
| 2 - Stationary part           | Resin impregnated carbon |
| 3 - Elastomers                | EPDM                     |
| 4 - Springs                   | AISI 316                 |
| 5 - Other components          | AISI 316                 |

**Motor data**

|                  |                                      |                      |       |            |          |                  |          |
|------------------|--------------------------------------|----------------------|-------|------------|----------|------------------|----------|
| Manufacturer     | Lowara                               | Electric voltage     | 400 V | Speed      | 2900 rpm | Insulation class | 155 (F)  |
| Specific design  | IE3 Three phase surface motor (e-SV) |                      |       | Frame size | 90       | Colour           | RAL 5010 |
| Type             | PLM90B14/322 E3 (220-240/380-415V)   |                      |       |            |          |                  |          |
| Rated power      | 2.2 kW                               | Degree of protection | IP55  |            |          |                  |          |
| Electric current | 4.56 A                               |                      |       |            |          |                  |          |

**Remarks:**

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## 10SV05N022T

## 1016LD194

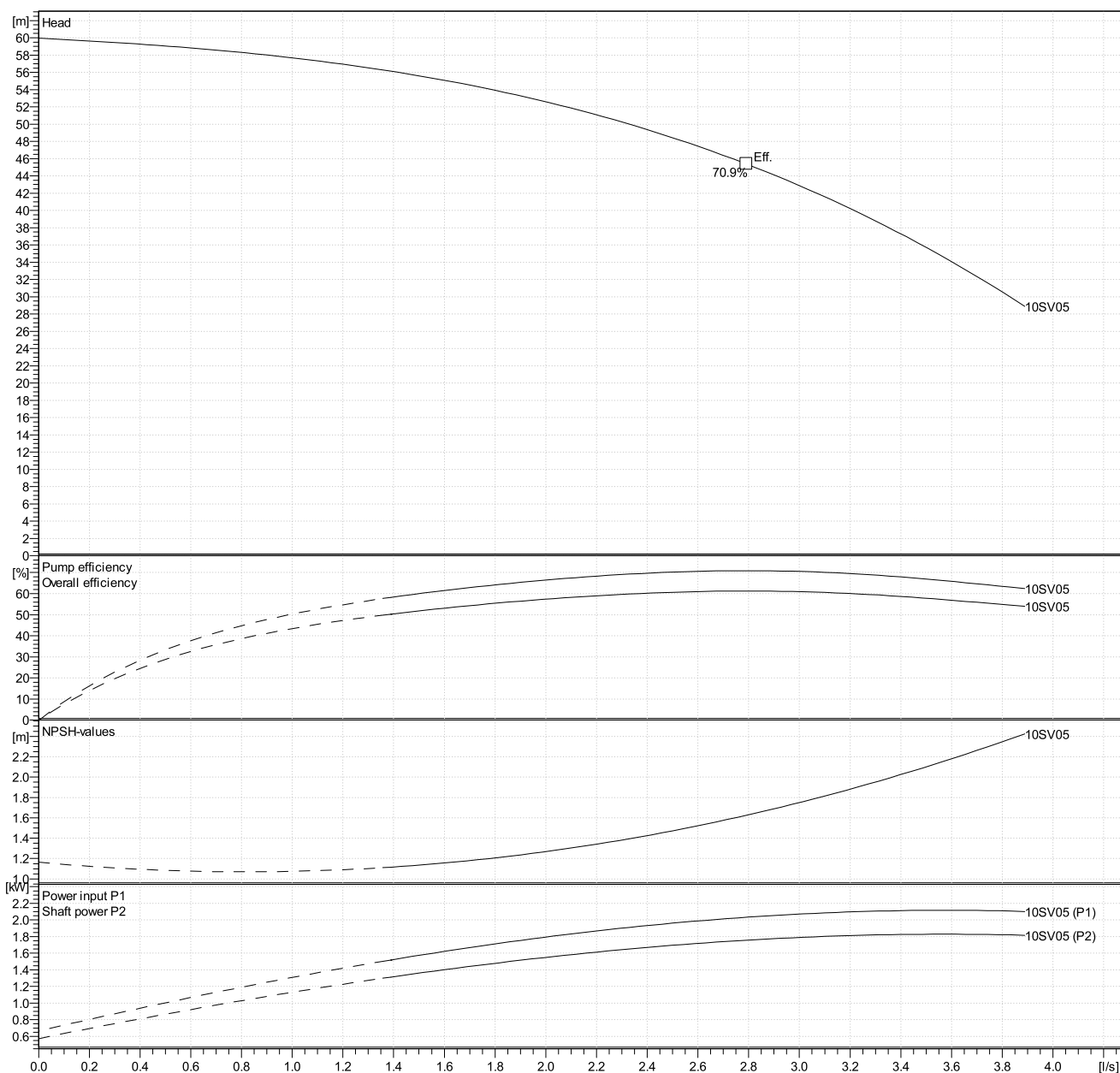
### Hydraulic data

| Operating Data Specification |       | Hydraulic data (duty point) | Impeller design |          |
|------------------------------|-------|-----------------------------|-----------------|----------|
| Flow                         | 0 l/s | Flow                        | Impeller R      | 96 mm    |
| Head                         | 0 m   | Head                        | Frequency       | 50 Hz    |
| Static head                  | 0 m   | MEI >=0,7                   | Speed           | 2900 rpm |

#### Power datas referred to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

Performance according to ISO 9906:2012 – Grade 3B

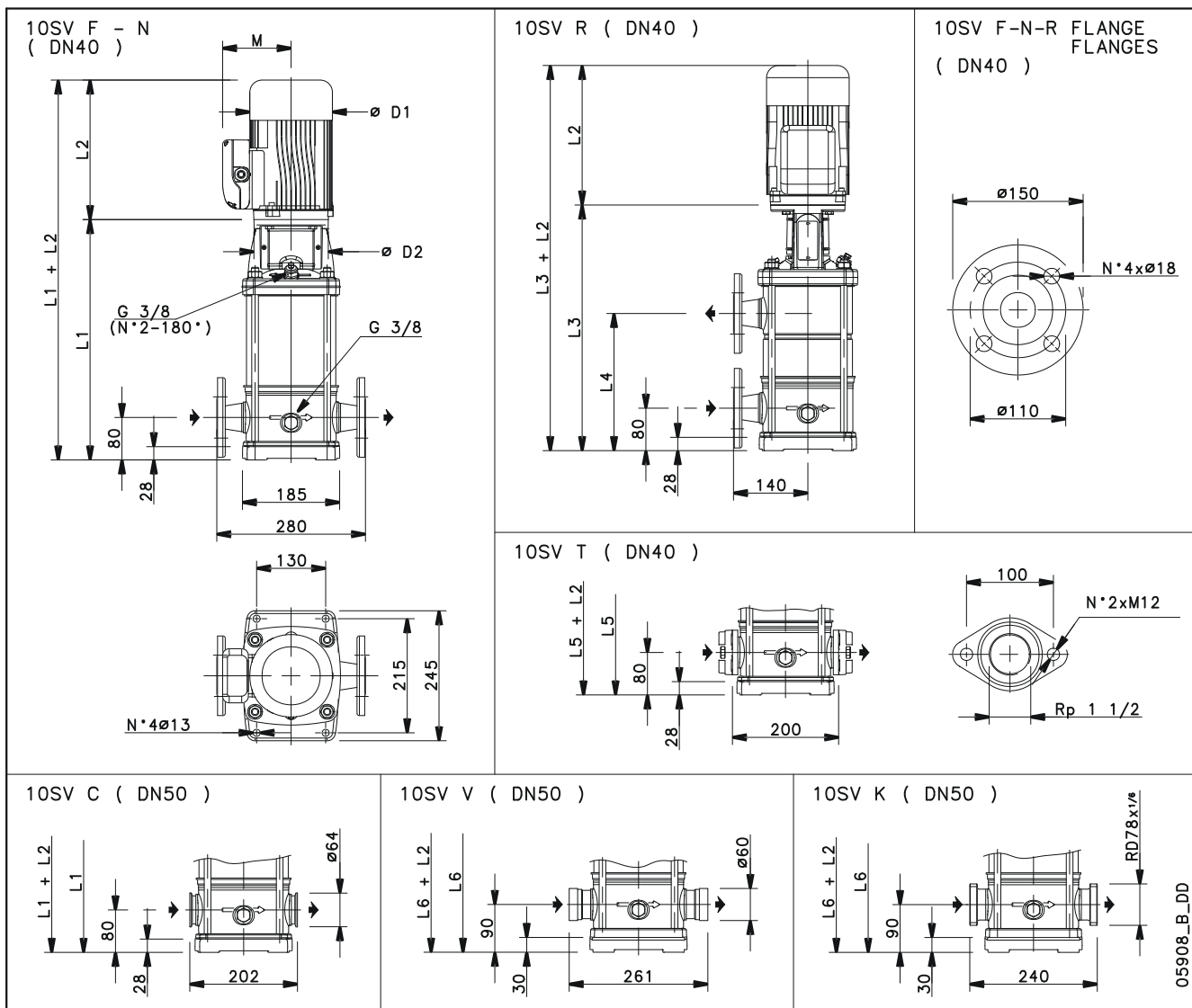


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**Drawing**



**Dimensions mm**

|    |     |  |  |  |  |        |    |
|----|-----|--|--|--|--|--------|----|
| D1 | 174 |  |  |  |  | Weight |    |
| D2 | 140 |  |  |  |  | 36.7   | kg |
| L1 | 463 |  |  |  |  |        |    |
| L2 | 298 |  |  |  |  |        |    |
| L3 | 463 |  |  |  |  |        |    |
| L4 | 259 |  |  |  |  |        |    |
| L5 | 463 |  |  |  |  |        |    |
| L6 | 473 |  |  |  |  |        |    |
| M  | 134 |  |  |  |  |        |    |