

| | | |
|--------------|-------------|-----------|
| Customer | Date | 1/10/2019 |
| Contact | Project | |
| Phone number | Project no. | |
| Email | | |

10SV21F110T

Operating data

| | | | |
|---------------------------|---------------------|---------------------------|--------------------------|
| Pump type | Single head pump | Fluid | Water |
| No. of pumps / Reserve | 1 / 0 | Operating temperature t A | °C 4 |
| Nominal flow | m ³ /h 0 | pH-value at t A | 7 |
| Nominal head | m 0 | Density at t A | kg/m ³ 1000 |
| Static head | m 0 | Kin. viscosity at t A | mm ² /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 | m ³ /h () |
| Speed | rpm 2900 | Flow Max- | m ³ /h 14 |
| Number of stages | 21 | Min- | m ³ /h |
| Max. casing pressure | kPa | Nominal | m |
| Max. working pressure | kPa 2487.7 | Head at Qmax | m 127.1 |
| Head H(Q=0) | m 250 | at Qmin | m 253.6 |
| Weight | kg 113 | Shaft power | kW () |
| Impeller R | Max. mm 96 | Max. shaft power | kW 8 |
| | designed mm 96 | Efficiency | % |
| | Min. mm 96 | NPSH 3% | m |

Pump Materials

| | |
|--------------------------|----------------------------|
| Pump body | Stainless steel / AISI 304 |
| IMPELLER | Stainless steel / AISI 304 |
| DIFFUSER | Stainless steel / AISI 304 |
| Outer sleeve | Stainless steel / AISI 304 |
| SHAFT | Stainless steel / AISI 304 |
| ADAPTER | Cast iron |
| Base | Aluminium |
| COUPLING | Aluminium |
| SEAL HOUSING | Stainless steel / AISI 304 |
| Coupling protection | Stainless steel / AISI 304 |
| Shaft sleeve and bushing | Tungsten carbide |
| Fill / drain plugs | Stainless steel / AISI 304 |
| Tie rods | Galvanized steel |
| 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 | 380 V | Speed | 2930 rpm | Insulation class | 155 (F) |
| Specific design | IE3 Three phase surface motor (e-SV) | Frame size | 160R | Colour | | | RAL 5010 |
| Type | PLM160RB5/3110 E3 (380-415/660-690V) | | | | | | |
| Rated power | 11 kW | Degree of protection | IP55 | | | | |
| Electric current | 20.6 A | | | | | | |

Remarks:

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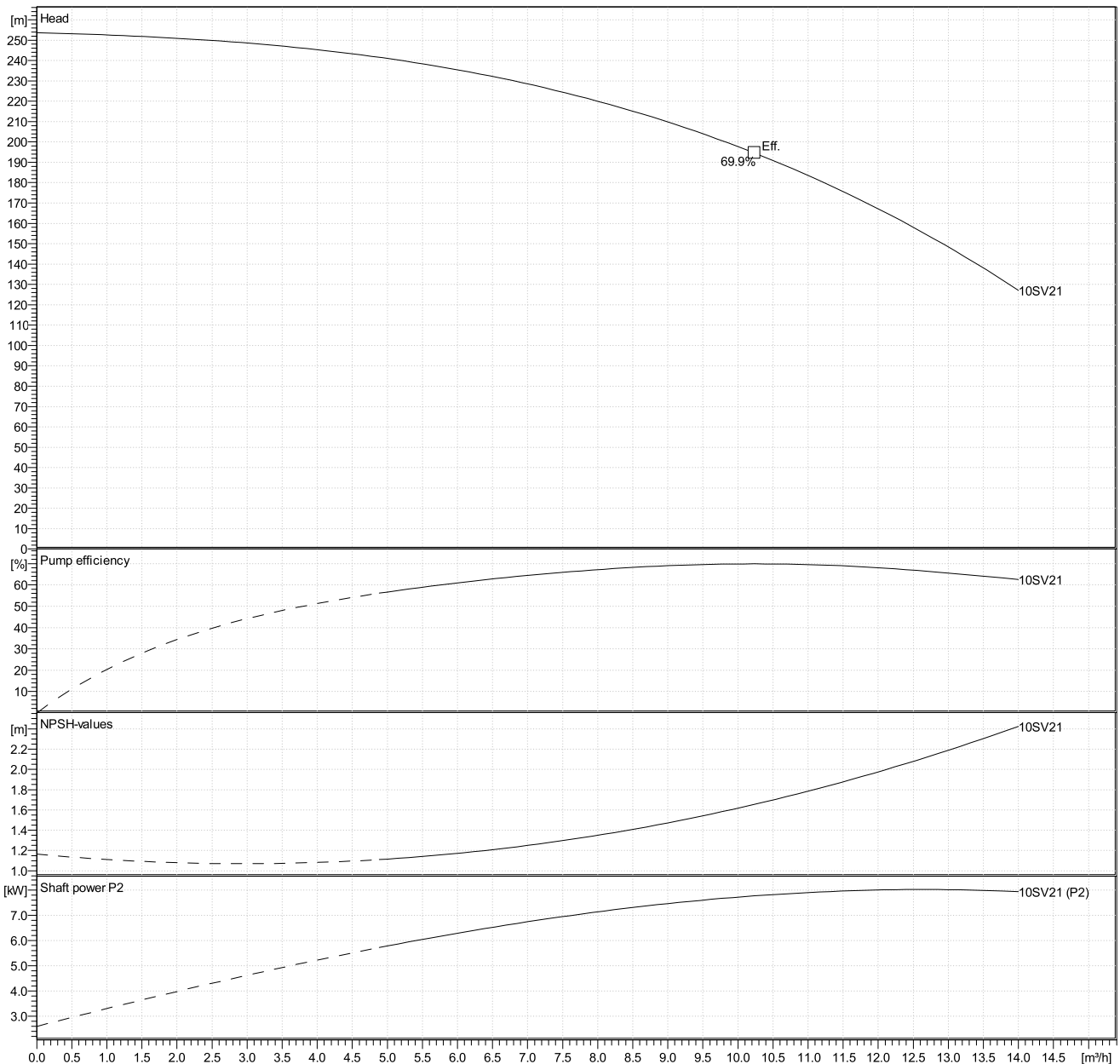
Hydraulic data

| Operating Data Specification | | Hydraulic data (duty point) | | Impeller design | |
|------------------------------|---------------------|-----------------------------|--|-----------------|----------|
| Flow | 0 m ³ /h | 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 [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

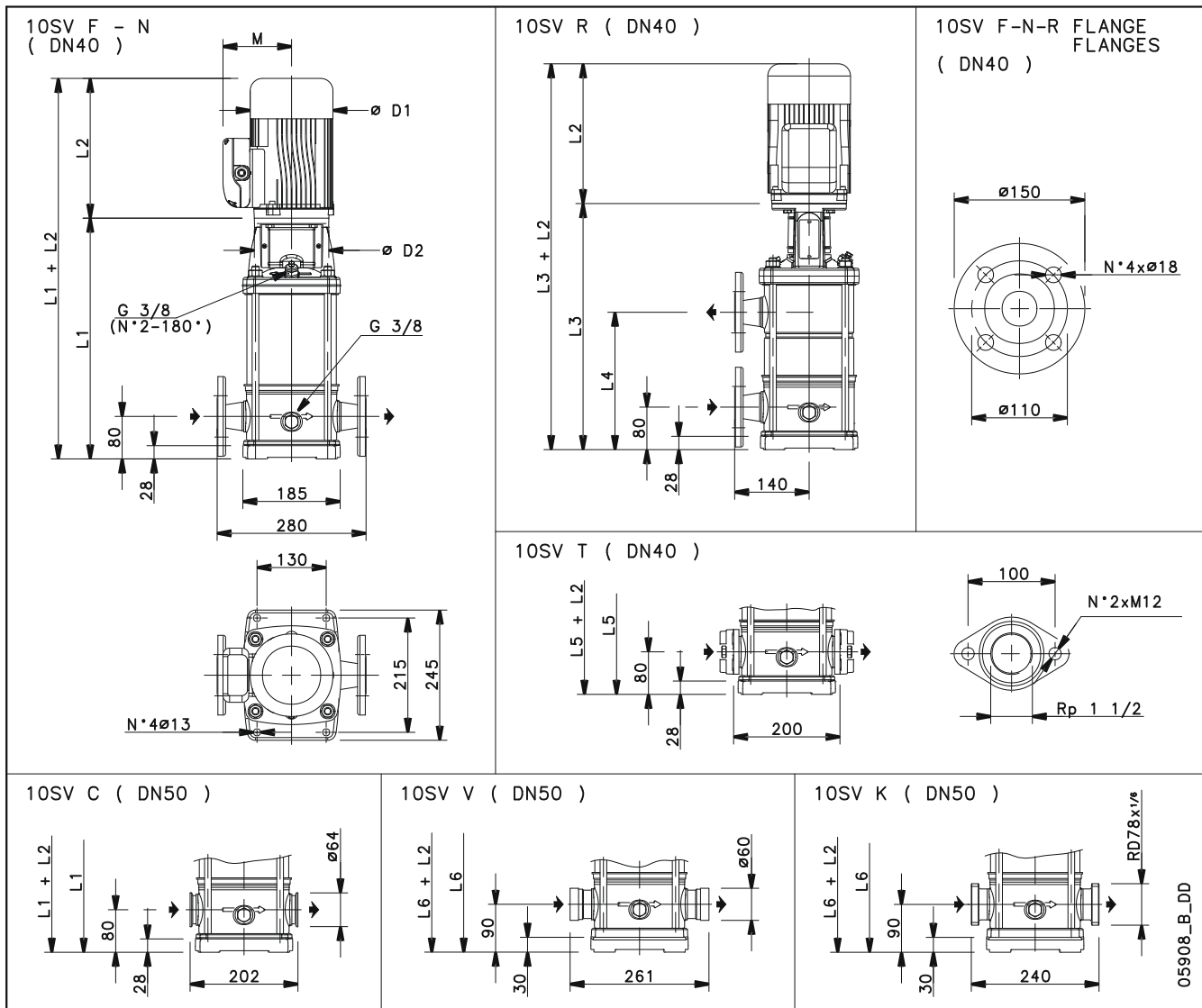
Performance according to ISO 9906:2012 – Grade 3B



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Drawing



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| | | | |
|-----------------------|----------|--|-----|
| Total lifetime | 15 | Inflation rate (rate of price increases) | 2 % |
| Annual operating time | 5600 | Interest rate (for investment) | 3 % |
| Energy cost per kWh | 0.00 GBP | | |
| Power input P1 | | | |

Total costs



GBP

- 0%** **0.00 GBP** Energy
- 0%** **0.00 GBP** Investment costs
- 0%** **0.00 GBP** Installation & commissioning
- 0%** **0.00 GBP** Operating cost
- 0%** **0.00 GBP** Maintenance & repair
- 0%** **0.00 GBP** Downtime
- 0%** **0.00 GBP** Environmental
- 0%** **0.00 GBP** Decommissioning

First year costs



GBP

- 0%** **0.00 GBP** Energy (1st year)
- 0%** **0.00 GBP** Investment costs (1st year)
- 0%** **0.00 GBP** Installation & commissioning (1st year)
- 0%** **0.00 GBP** Operating cost (1st year)
- 0%** **0.00 GBP** Maintenance & repair (1st year)
- 0%** **0.00 GBP** Downtime (1st year)
- 0%** **0.00 GBP** Environmental (1st year)
- 0%** **0.00 GBP** Decommissioning (1st year)