

|                  |             |           |
|------------------|-------------|-----------|
| Customer Contact | Date        | 1/14/2021 |
| Phone number     | Project     |           |
| Email            | Project no. |           |

## 3SV13N015M

1016L2344

### 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 1.2 |
| Number of stages      | 13        | Min-             | l/s     |
| Max. casing pressure  | kPa       | Nominal          | m       |
| Max. working pressure | kPa 962.3 | Head at Qmax     | m 44.9  |
| Head H(Q=0)           | m 98      | at Qmin          | m 98.1  |
| Weight                | kg 27     | Shaft power      | kW ( )  |
| Max.                  | m 124.4   | Max. shaft power | kW 1.2  |
| Impeller R designed   | m 124.4   | Efficiency       | %       |
| Min.                  | m 124.4   | 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     | 230 V | Speed      | 2810 rpm | Insulation class | 155 (F)  |
| Specific design  | Single phase surface motor (e-SV) |                      |       | Frame size | 90R      | Colour           | RAL 5010 |
| Type             | SM90RB14/115 (220-240V)           |                      |       |            |          |                  |          |
| Rated power      | 1.5 kW                            | Degree of protection | IP55  |            |          |                  |          |
| Electric current | 8.58 A                            |                      |       |            |          |                  |          |

### Remarks:

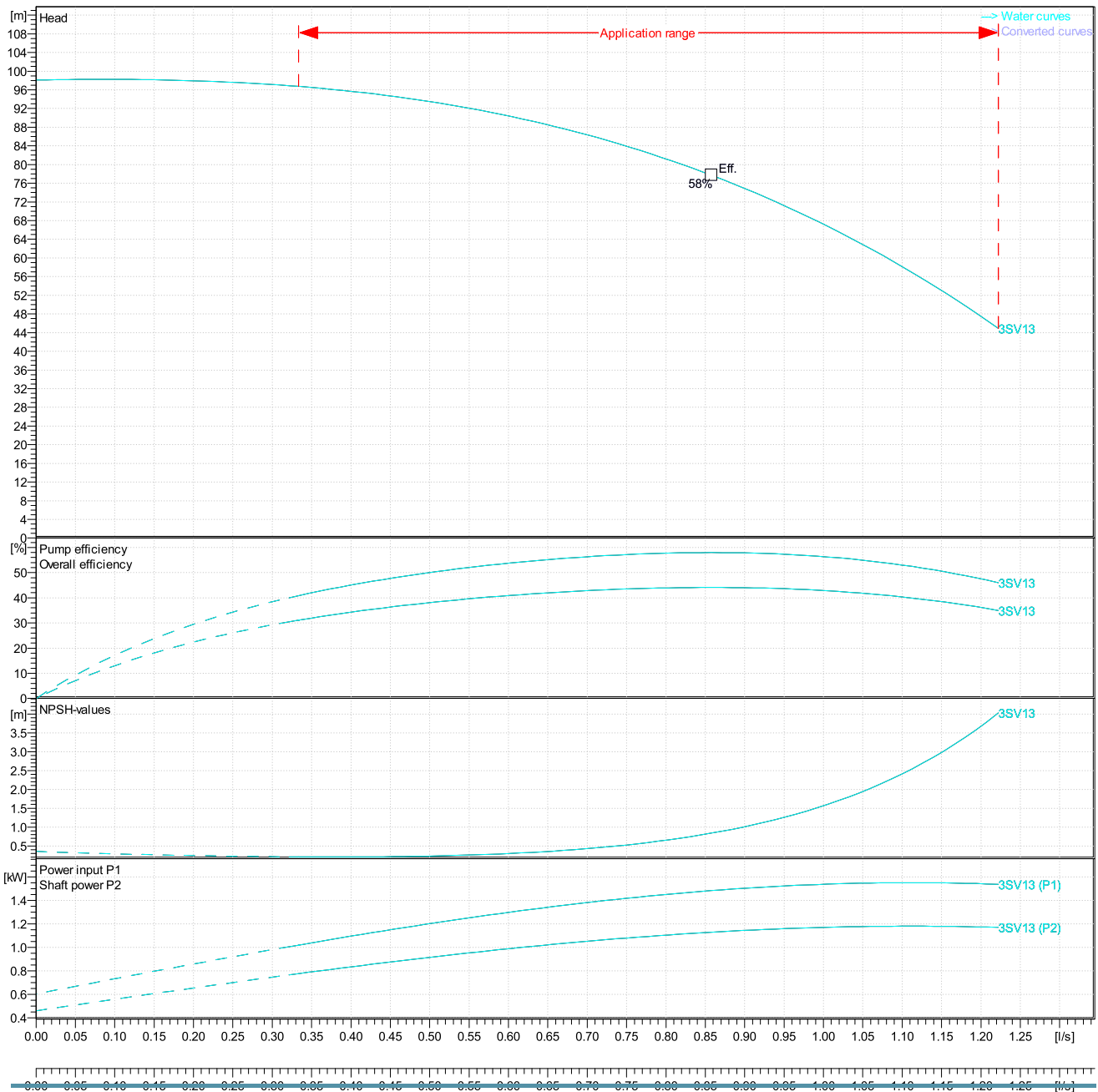
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**Hydraulic data**

| Operating Data Specification |       | Hydraulic data (duty point) |  | Impeller design |          |
|------------------------------|-------|-----------------------------|--|-----------------|----------|
| Flow                         | 0 l/s | Flow                        |  | Impeller R      | 124.41 m |
| Head                         | 0 m   | Head                        |  | Frequency       | 50 Hz    |
| Static head                  | 0 m   | MEI >=0,7                   |  | Speed           | 2900 rpm |

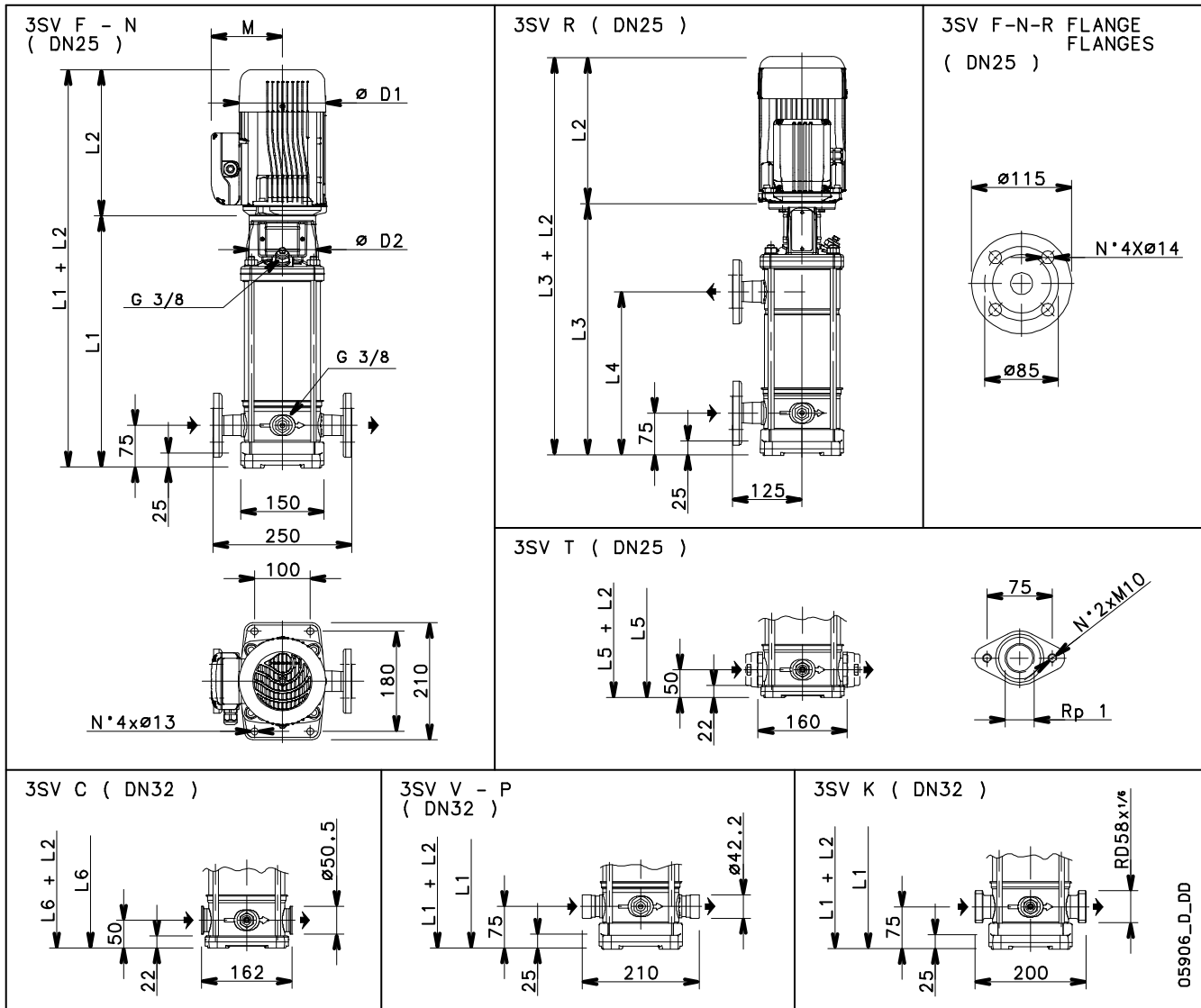
**Power data referred to:**  
 Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s  
 Performance according to ISO 9906:2012 – Grade 3B



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**Drawing**



**Dimensions m**

|    |        |  |  |  |  |                 |
|----|--------|--|--|--|--|-----------------|
| D1 | 244.09 |  |  |  |  | Weight<br>27 kg |
| D2 | 220.47 |  |  |  |  |                 |
| L1 | 784.25 |  |  |  |  |                 |
| L2 | 414.17 |  |  |  |  |                 |
| L3 | 784.25 |  |  |  |  |                 |
| L4 | 514.96 |  |  |  |  |                 |
| L5 | 744.88 |  |  |  |  |                 |
| L6 | 744.88 |  |  |  |  |                 |
| M  | 215.75 |  |  |  |  |                 |

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