

|              |             |          |
|--------------|-------------|----------|
| Customer     | Date        | 1/7/2021 |
| Contact      | Project     |          |
| Phone number | Project no. |          |
| Email        |             |          |

## 1SV30N015T

### 1016LC294

#### 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 .7    |
| Number of stages      | 30             | Min-             | l/s            |
| Max. casing pressure  | kPa            | Nominal          | m              |
| Max. working pressure | kPa 1782.1     | Head             | at Qmax m 83.9 |
| Head H(Q=0)           | m 180          | at Qmin          | m 181.7        |
| Weight                | kg 34          | Shaft power      | kW ( )         |
| Max.                  | m 115          | Max. shaft power | kW 1.5         |
| Impeller R            | designed m 115 | Efficiency       | %              |
| Min.                  | m 115          | 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  | 2895 rpm | Insulation class | 155 (F)  |
| Specific design  | IE3 Three phase surface motor (e-SV) | Frame size           | 90R   | Colour |          |                  | RAL 5010 |
| Type             | SM90RB14/315 PE (220-240/380-415V)   |                      |       |        |          |                  |          |
| Rated power      | 1.5 kW                               | Degree of protection | IP55  |        |          |                  |          |
| Electric current | 3.17 A                               |                      |       |        |          |                  |          |

#### Remarks:

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### Hydraulic data

| Operating Data Specification |       | Hydraulic data (duty point) |  | Impeller design |          |
|------------------------------|-------|-----------------------------|--|-----------------|----------|
| Flow                         | 0 l/s | Flow                        |  | Impeller R      | 114.96 m |
| Head                         | 0 m   | Head                        |  | Frequency       | 50 Hz    |
| Static head                  | 0 m   | MEI $\geq 0,7$              |  | Speed           | 2900 rpm |

Power data referred to:  
 Water, pure [100%] ; 4°C; 1000kg/m<sup>3</sup>; 1.57mm<sup>2</sup>/s  
 Performance according to ISO 9906:2012 – Grade 3B



