

|              |             |           |
|--------------|-------------|-----------|
| Customer     | Date        | 12/7/2020 |
| Contact      | Project     |           |
| Phone number | Project no. |           |
| Email        |             |           |

## ESHE 40-125/11/S25HSSA

101860820

### 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 10.8               |
| Number of stages      | 1                           | Min-             | l/s 3.9                     |
| Max. casing pressure  | kPa                         | Nominal          | m                           |
| Max. working pressure | kPa 153.7                   | Head             | at Qmax m 4.7               |
| Head H(Q=0)           | m 16                        | at Qmin          | m 14.1                      |
| Weight                | kg                          | Shaft power      | kW ( )                      |
|                       | Max. mm 133                 | Max. shaft power | kW 1.1                      |
| Impeller R            | designed mm 112             | Efficiency       | %                           |
|                       | Min. mm 112                 | NPSH 3%          | m                           |
| Suction nozzle        | DN 65 PN 12 EN1092-2 (e-SH) | Discharge nozzle | DN 40 PN 12 EN1092-2 (e-SH) |

### Pump Materials

|                             |                             |
|-----------------------------|-----------------------------|
| Pump body                   | Stainless steel / AISI 316L |
| Impeller                    | Stainless steel / AISI 316L |
| SEAL HOUSING                | Stainless steel / AISI 316L |
| Wear Ring                   | Stainless steel / AISI 316L |
| Counterwear ring            | Stainless steel / AISI 316L |
| Shaft extension             | Stainless steel / AISI 316L |
| Rigid shaft coupling        | Stainless steel / AISI 316  |
| Impeller locknut and washer | Stainless steel / AISI 316  |
| Tab                         | Stainless steel / AISI 316L |

### Shaft Seal

|                   |                            |
|-------------------|----------------------------|
| Single Seal       |                            |
| e-SH - uniten     | Roten                      |
| Rotating Assembly | V-Ceramic                  |
| Fixed Assembly    | B-Resin impregnated carbon |
| Elastomers        | V-FKM (FPM)                |
| Springs           | G-AISI 316                 |
| Other Components  | G-AISI 316                 |

### Motor data

|                  |                            |                      |          |
|------------------|----------------------------|----------------------|----------|
| Manufacturer     | Lowara                     | Electric voltage     | 230 V    |
| Specific design  | Single phase surface motor |                      |          |
| Type             | SM90R.../111               |                      |          |
| Rated power      | 1.1 kW                     | Electric current     | 6.65 A   |
| Speed            | 2800 rpm                   | Degree of protection | IP 55    |
| Frame size       | 90R                        | Weight               | 0 kg     |
| Shaft diameter   | 0 mm                       | Colour               | RAL 5010 |
| Insulation class | F                          |                      |          |

### Coupling

|                     |  |
|---------------------|--|
| Manufacturer        |  |
| Series              |  |
| Type                |  |
| Frame size          |  |
| Spacer length       |  |
| Weight              |  |
| Coupling protection |  |

### Base plate

|             |  |
|-------------|--|
| Description |  |
| Weight      |  |

### Remarks:

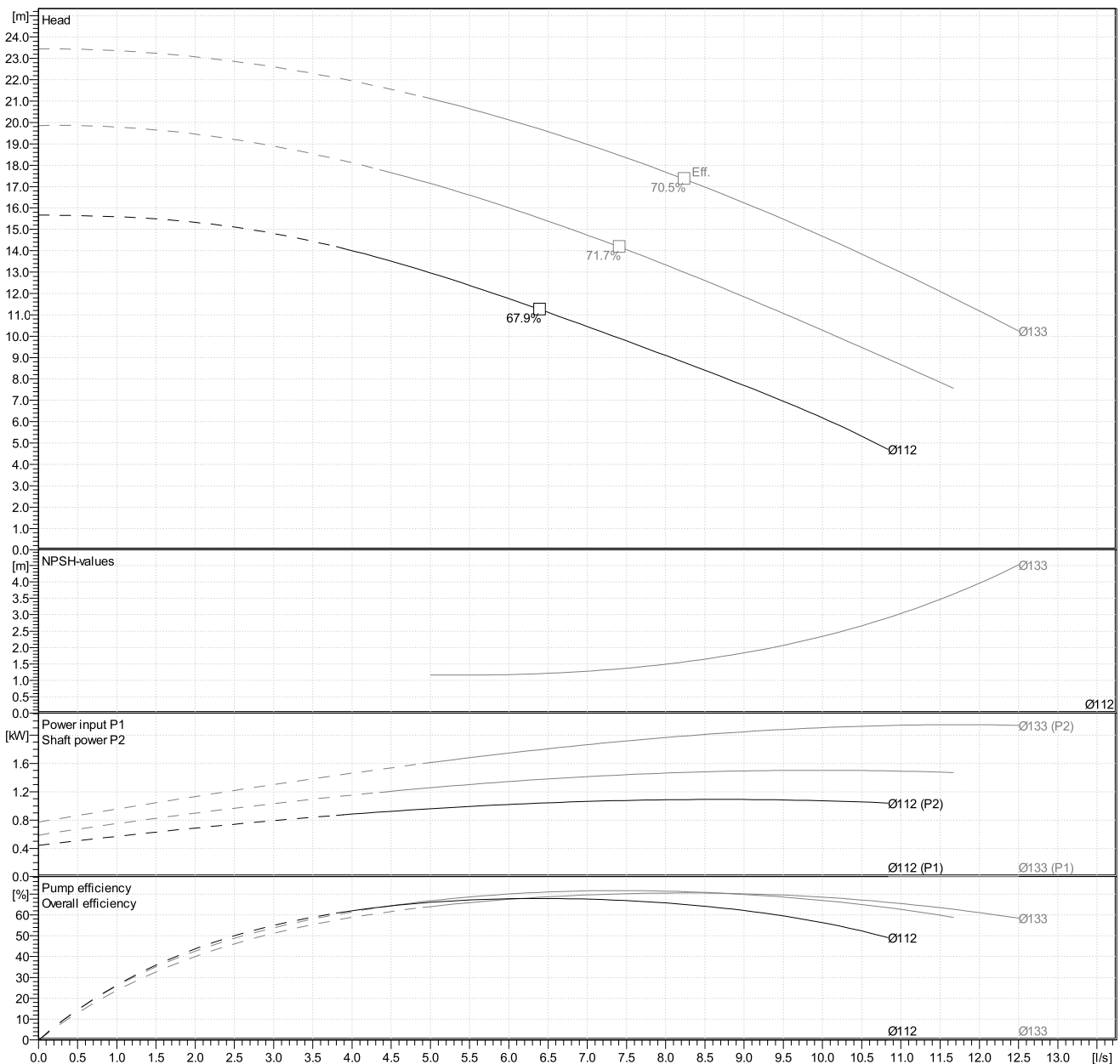
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**Hydraulic data**

| Operating Data Specification |       | Hydraulic data (duty point) |  | Impeller design |          |
|------------------------------|-------|-----------------------------|--|-----------------|----------|
| Flow                         | 0 l/s | Flow                        |  | Impeller R      | 112 mm   |
| Head                         | 0 m   | Head                        |  | Frequency       | 50 Hz    |
| Static head                  | 0 m   | MEI >=0,4                   |  | 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



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**Dimensions** mm/l

|      |     |              |         |
|------|-----|--------------|---------|
| a    | 80  |              |         |
| B    | 218 |              |         |
| DNA  | 65  |              |         |
| DNM  | 40  |              |         |
| h1   | 112 |              |         |
| h2   | 140 |              |         |
| Hmax | 252 |              |         |
| k    | 100 |              |         |
| L    | 443 |              |         |
| n    | 190 |              |         |
| n1   | 130 |              |         |
| x    | 129 |              |         |
|      |     | Total weight | 21.6 kg |

**Connections** mm

|                 |                  |
|-----------------|------------------|
| Suction nozzle  | Discharge nozzle |
| DN 65           | DN 40            |
| PN 12           | PN 12            |
| EN1092-2 (e-SH) | EN1092-2 (e-SH)  |

|               |     |               |     |
|---------------|-----|---------------|-----|
| D             | 185 | D             | 150 |
| Dia. Holes    | 18  | Dia. Holes    | 18  |
| DN            | 65  | DN            | 40  |
| G             | 104 | G             | 68  |
| M             | 145 | M             | 110 |
| Max thickness | 18  | Max thickness | 16  |
| N° Holes      | 4   | N° Holes      | 4   |

**Drawing**

