

## 6GS22M-L4C

|              |              |             |           |
|--------------|--------------|-------------|-----------|
| Company      | Customer     | Date        | 1/7/2021  |
| Contact      | Contact      | Item no.    | 104152640 |
| Phone number | Phone number | Project     |           |
| Email        | Email        | Project no. |           |

### Operating data

|   |                           |                     |                           |                          |
|---|---------------------------|---------------------|---------------------------|--------------------------|
| 1 | Pumpe type                | Single head pump    | Fluid                     | Water, pure              |
| 2 | No. of pumps / Reserve    | 1 /                 | Operating temperature t A | °C 4                     |
| 3 | Nominal flow              | m <sup>3</sup> /h 0 | pH-v value at t A         | 7                        |
| 4 | Nominal head              | m 0                 | Density at t A            | kg/m <sup>3</sup> 1000   |
| 5 | Static head               | m 0                 | Kin. viscosity at t A     | mm <sup>2</sup> /s 1.569 |
| 6 | Inlet pressure            | kPa 0               | Vapor pressure at t A     | kPa 100                  |
| 7 | Environmental temperature | °C 20               | Solids                    | 0                        |
| 8 | Available system NPSH     | m 0                 | Altitude                  | m 0                      |

### Pump data

|    |                       |                |                  |                               |
|----|-----------------------|----------------|------------------|-------------------------------|
| 9  | Pump designation      | 6GS22M-L4C     |                  |                               |
| 10 | Design                | Borehole pumps | Impeller Ø       | Max. mm                       |
| 11 | Make                  | Lowara         |                  | designed mm                   |
| 12 | Speed                 | rpm 2900       | Flow             | Min. mm                       |
| 13 | Number of stages      | 21             |                  | Nominal m <sup>3</sup> /h ( ) |
| 14 | Suction nozzle        | / /            |                  | Max- m <sup>3</sup> /h 8.4    |
| 15 | Discharge nozzle      | / /            |                  | Min- m <sup>3</sup> /h 2.8    |
| 16 | Max. casing pressure  | kPa            | Head             | Nominal m                     |
| 17 | Max. working pressure | kPa 1294.9     |                  | at Qmax m 44.8                |
| 18 | Impeller type         |                |                  | at Qmin m 117.5               |
| 19 | Impeller design       |                | Shaft power      | kW ( )                        |
| 20 | Head H(Q=0)           | m 130          | Max. shaft power | kW 2.2                        |
| 21 | Weight                | kg 23          | Efficiency       | %                             |
|    |                       |                | NPSH 3%          | m                             |

### Materials

|    |                              |                            |                              |                                  |
|----|------------------------------|----------------------------|------------------------------|----------------------------------|
| 22 | <b>Pump</b>                  |                            |                              |                                  |
| 23 | Valve cap                    | Stainless steel / AISI 304 | Motor adapter                | Stainless steel / CF-8 ASTM A743 |
| 24 | Valve gasket                 | NBR                        | Discharge head               | Stainless steel / CF-8 ASTM A743 |
| 25 | Valve flange                 | Stainless steel / AISI 304 | Screws, nuts, washers        | Stainless steel / AISI 316       |
| 26 | Valve locking ring           | Stainless steel / AISI 302 | BUSH                         | Technopolymer PU                 |
| 27 | Adapter ring                 | Technopolymer PPO          | Diffuser                     | Technopolymer PPO                |
| 28 | Upper bush bracket           | Technopolymer PPO          | Impeller                     | Technopolymer PPO                |
| 29 | Thrust bearing               | Stainless steel / AISI 304 | Bowl                         | Stainless steel / AISI 304       |
| 30 | WASHER                       | Stainless steel / AISI 304 | Intermediate bush            | Stainless steel / CF-8 ASTM A743 |
| 31 | Intermediate bush            | Technopolymer PPO          | bracket_pos22<br>Cable guard | Stainless steel / AISI 304       |
| 32 | bracket_pos9<br>Shaft Sleeve | Stainless steel / AISI 304 | Shim                         | Stainless steel / AISI 304       |
| 33 | Sleeve                       | Stainless steel / AISI 304 | Upper pump shaft             | Stainless steel / AISI 304       |
| 34 | Upper sleeve                 | Stainless steel / AISI 304 | Intermediate coupling        | Stainless steel / AISI 316       |
| 35 | Pump shaft                   | Stainless steel / AISI 304 | Spacer                       | Stainless steel / AISI 304       |
| 37 | Coupling                     | Stainless steel / AISI 304 |                              |                                  |
| 36 | Strainer                     | Stainless steel / AISI 304 |                              |                                  |
| 38 |                              |                            |                              |                                  |

### Motor data

|    |                 |   |                      |            |
|----|-----------------|---|----------------------|------------|
| 39 | Manufacturer    | Lowara                                  | Electric voltage     | 220 V      |
| 40 | Specific design | 1 phase submersible canned motor (e-GS) |                      | Cable type |
| 41 | Type            | L4C22M235                               | Electric current     | 15.4 A     |
| 42 | Rated power     | 2.2 kW                                  | Degree of protection | IP68       |
| 43 | Speed           | 2740 rpm                                | Insulation class     | 155 (F)    |
| 44 | Frame size      | 56                                      |                      |            |
| 45 | Weight          | 0 kg                                    |                      |            |

### Cable

|  |                           |                 |
|--|---------------------------|-----------------|
|  | Cable type                |                 |
|  | Cable cross section       | mm <sup>2</sup> |
|  | Environmental temperature | °C 20           |
|  | Cable length              | 0               |

### Base plate

|    |        |    |                 |
|----|--------|----|-----------------|
| 46 | Name   |    | <b>Remarks:</b> |
| 47 | Weight | kg |                 |

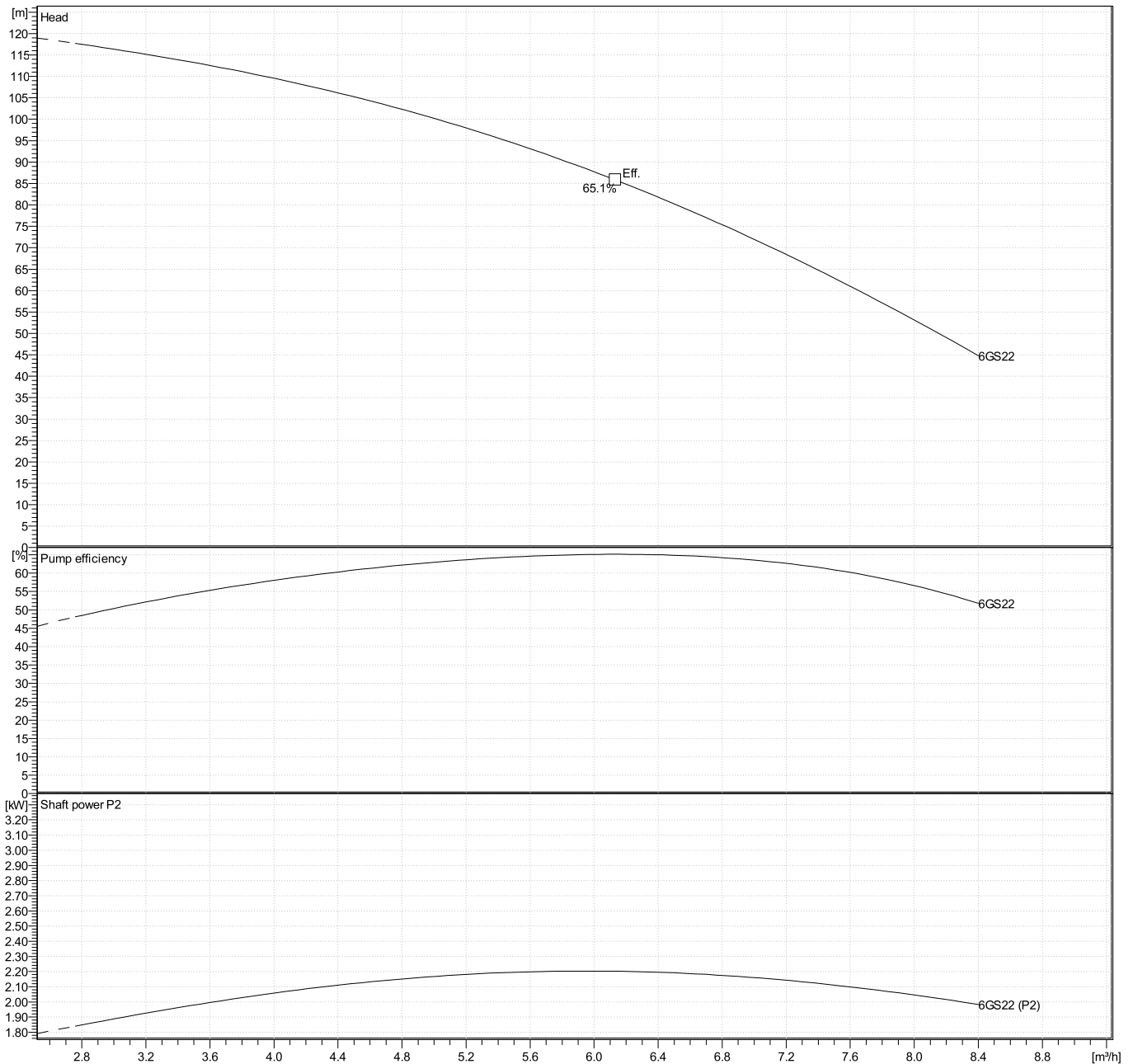
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| Email                               | Email                              | Project no.            |           |
| <b>Operating Data Specification</b> | <b>Hydraulic data (duty point)</b> | <b>Impeller design</b> |           |
| Flow                                | Flow                               | Impeller R             | 0 mm      |
| Head                                | Head                               | Frequency              | 50 Hz     |
| Static head                         | MEI $\geq 0,4$                     | 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

|     |        |  |  |  |  |                |        |
|-----|--------|--|--|--|--|----------------|--------|
| DNM | Rp 1 ¼ |  |  |  |  | Suction side   |        |
| L   | 1273   |  |  |  |  | / PN           |        |
|     |        |  |  |  |  | Discharge side |        |
|     |        |  |  |  |  | / PN           |        |
|     |        |  |  |  |  | Weight         | 23.3kg |

