

|              |             |           |
|--------------|-------------|-----------|
| Customer     | Date        | 12/3/2020 |
| Contact      | Project     |           |
| Phone number | Project no. |           |
| Email        |             |           |

## 3HME03S03M02VBE

104630081

### 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 1.5   |
| Number of stages      | 3              |                                    | Min- l/s .4    |
| Max. casing pressure  | kPa            | Nominal                            | m              |
| Max. working pressure | kPa 329.1      | Head                               | at Qmax m 11.6 |
| Head H(Q=0)           | m 34           |                                    | at Qmin m 34.1 |
| Weight                | kg 9           | Shaft power                        | kW ( )         |
|                       | Max. mm 73     | Max. shaft power                   | kW .4          |
| Impeller R            | designed mm 73 | Efficiency (Hydraulic+Motor+Drive) | %              |
|                       | Min. mm 73     | NPSH 3%                            | m              |

### Pump Materials

|                    |                     |
|--------------------|---------------------|
| Adapter            | Aluminium           |
| Bolts and screws   | Stainless steel     |
| Diffuser           | Stainless steel     |
| Fill / drain plugs | Stainless steel     |
| Impeller           | Stainless steel 304 |
| Pump body          | Stainless steel     |
| SEAL HOUSING       | Stainless steel     |
| Shaft              | Stainless steel     |
| Wear Ring          | Technopolymer       |

### Shaft Seal

|                   |                            |
|-------------------|----------------------------|
| Mechanical Seal   | Roten                      |
| HM - uniten       |                            |
| Rotating Assembly | V-Ceramic                  |
| Fixed Assembly    | B-Resin impregnated carbon |
| Elastomers        | E - EPDM                   |
| Springs           | G-AISI 316                 |
| Other Components  | G-AISI 316                 |

### Motor data

|                 |                         |                      |        |            |          |                  |          |
|-----------------|-------------------------|----------------------|--------|------------|----------|------------------|----------|
| Manufacturer    | Lowara                  | Electric voltage     | 240 V  | Speed      | 3600 rpm | Insulation class | F        |
| Specific design | Single phase e-SM motor |                      |        | Frame size | 80       | Colour           | RAL 5010 |
| Type            | ESM80/103 HM            | Electric current     | 2.28 A |            |          |                  |          |
| Rated power     | 0.37 kW                 | Degree of protection | IP 55  |            |          |                  |          |

### Remarks:

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**Hydraulic data**

| Operating Data Specification |       | Hydraulic data (duty point) |  | Impeller design |          |
|------------------------------|-------|-----------------------------|--|-----------------|----------|
| Flow                         | 0 l/s | Flow                        |  | Impeller R      | 73 mm    |
| Head                         | 0 m   | Head                        |  | Frequency       | 50 Hz    |
| Static head                  | 0 m   |                             |  | 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



