

## 5HME03S05M02VBE

### Technical data

Company name  
Contact  
Phone number  
e-mail address

#### Operating data

|                           |                     |                           |                          |
|---------------------------|---------------------|---------------------------|--------------------------|
| Pump type                 | Single head pump    | Fluid                     | Water, pure              |
| No. of pumps / Reserve    | 1 / 0               | Operating temperature t A | °C 4                     |
| Nominal flow              | m <sup>3</sup> /h 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                            | m <sup>3</sup> /h      |
| Speed                 | rpm        | Flow Max-                          | m <sup>3</sup> /h 10.2 |
| Number of stages      | 3          | Min-                               | m <sup>3</sup> /h 3    |
|                       |            | Nominal                            | m                      |
| Max. working pressure | kPa 326    | Head at Qmax                       | m 8.4                  |
| Head H(Q=0)           | m 33       | at Qmin                            | m 32.6                 |
| Weight                | kg 9       | Power input                        | kW                     |
|                       | Max. mm 73 | Max. shaft power                   | kW 0.559               |
| Impeller R designed   | mm 73      | Efficiency (Hydraulic+Motor+Drive) | %                      |
|                       | Min. mm 73 |                                    |                        |

#### 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   |                            |
| HM - uniten       | Roten                      |
| 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     | 208 V | Speed                  | 3600 rpm | Insulation class | F        |
| Specific design | Single phase e-SM motor |                      |       | Frame size             | 80       | Colour           | RAL 5010 |
| Type            | ESM80/105 HM            | Electric current     | 2.3 A | Motor Efficiency Class | IE5      |                  |          |
| Rated power     | 0.55 kW                 | Degree of protection | IP 55 |                        |          |                  |          |

#### Remarks:

# 5HME03S05M02VBE

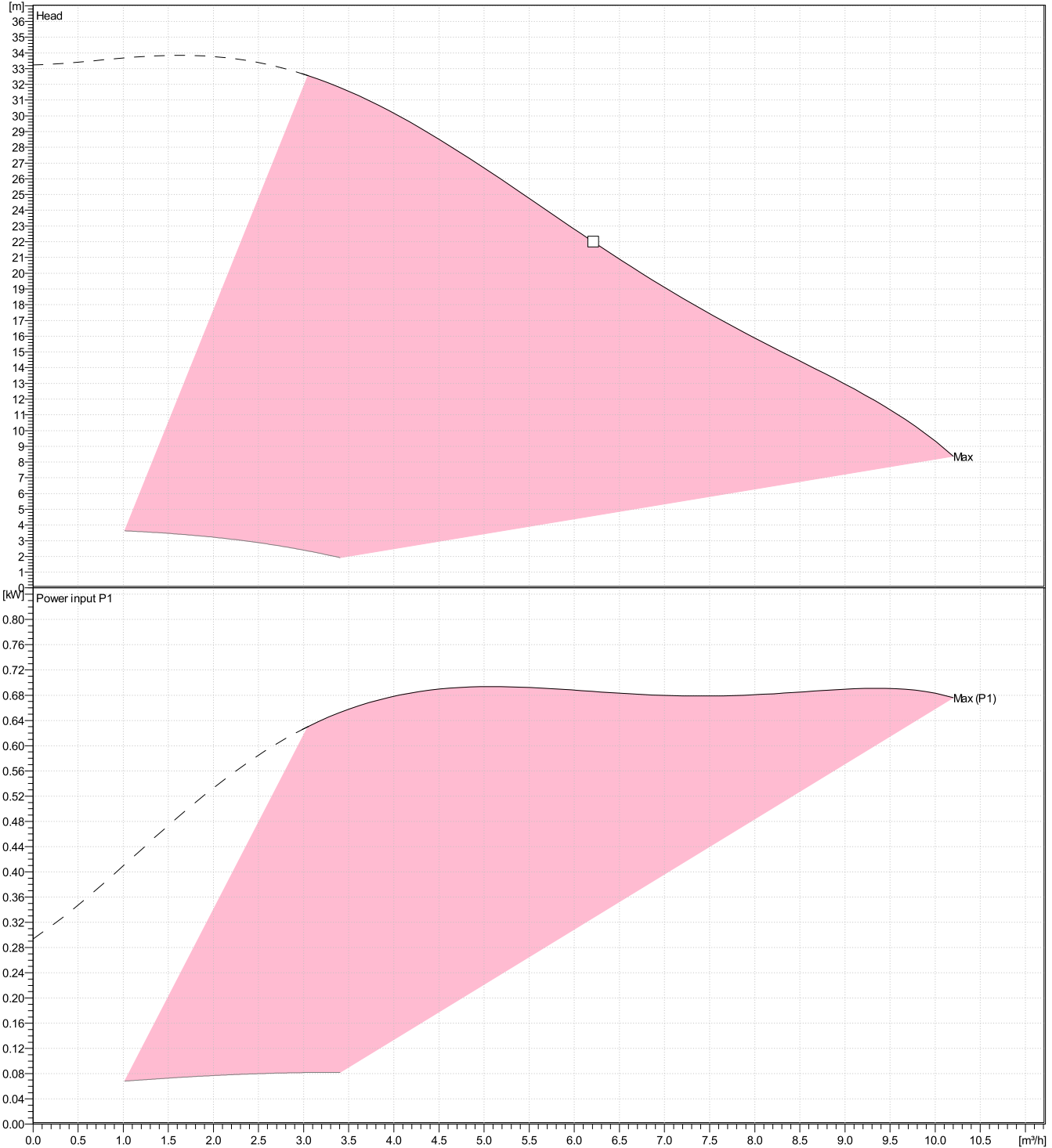
## Performance curve

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### Hydraulic data

| Operating Data Specification |                     | Hydraulic data (duty point) |  | Impeller design |       |
|------------------------------|---------------------|-----------------------------|--|-----------------|-------|
| Flow                         | 0 m <sup>3</sup> /h | Flow                        |  | Impeller R      | 73 mm |
| Head                         | 0 m                 | Head                        |  | Frequency       | 50 Hz |
| Static head                  | 0 m                 |                             |  | Speed           |       |

Power datas 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

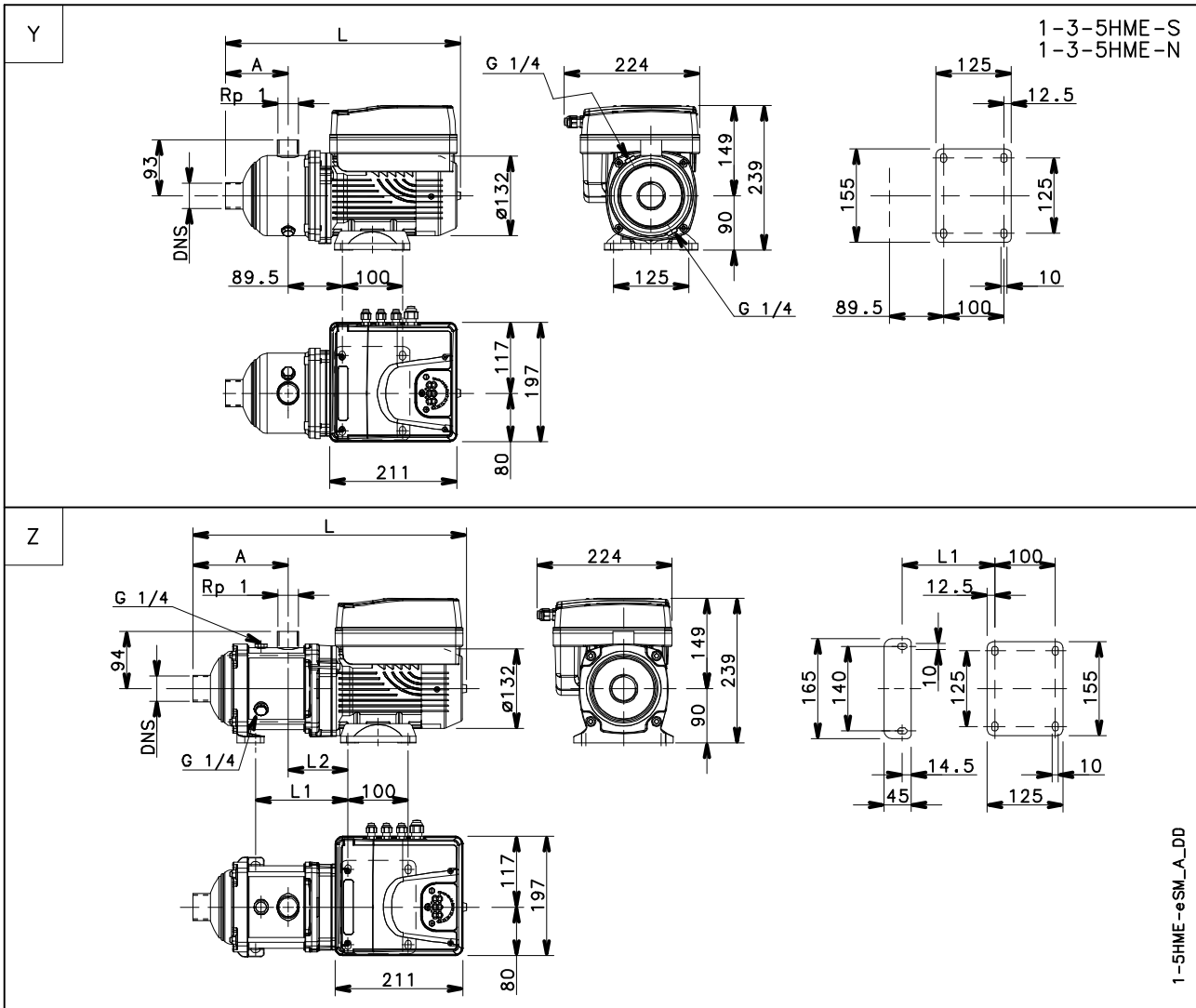


**5HME03S05M02VBE**

**Dimensions**

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**Drawing**



**Dimensions mm**

|         |          |  |  |  |  |                |
|---------|----------|--|--|--|--|----------------|
| A       | 104      |  |  |  |  | Weight<br>9 kg |
| DNS     | Rp 1 1/4 |  |  |  |  |                |
| Drawing | Y        |  |  |  |  |                |
| L       | 391      |  |  |  |  |                |
| PN      | 10       |  |  |  |  |                |