

|                |                       |
|----------------|-----------------------|
| Customer :     | Date : 03 / 10 / 2025 |
| Contact :      | Project :             |
| Phone Number : | Project No :          |
| e-mail :       |                       |

ESCE 200-500 1450 rpm / 800 m³/h / 60 m / 78.29 % / 165.28 kW / 50 Hz

#### Operation Data

|             |                       |                     |                 |
|-------------|-----------------------|---------------------|-----------------|
| Pump Type   | : Double Suction Pump | Fluid               | : Water         |
| Flow        | : 800 m³/h            | Density             | : 998.000 kg/m³ |
| Head        | : 60 m                | Kinematic Viscosity | : 1 cSt         |
| Static Head | : 0 m                 | Temperature         | : 20.00 °C      |

#### Pump Data

|                         |                          |                     |                          |
|-------------------------|--------------------------|---------------------|--------------------------|
| Speed                   | : 1450 rpm               | Nominal             | : 687.09 m³/h            |
| Number of Stages        | : 01                     | Flow                | Max. : 1077.46 m³/h      |
| Max. Casing Pressure    | : 2500 kPa               |                     | Min. : 182.56 m³/h       |
| Max. Operation Pressure | : 2500 kPa               | Nominal             | : 66.01 m                |
| Head (Q=0)              | : 76.69 m                | Head                | at Qmax : 39.33 m        |
|                         | Max. : 564.00 mm         |                     | at Qmin : 76.9 m         |
| Impeller D              | Designed : 459.6 mm      | Shaft Power         | : 165.28 kW              |
|                         | Min. : 430.00 mm         | Maximum Shaft Power | : 190.61 kW              |
|                         |                          | Efficiency          | : 78.29 %                |
|                         |                          | NPSHr               | : 3.13 m                 |
| Suction Nozzle          | : DN 250 PN 16 EN 1092-2 | Discharge Nozzle    | : DN 200 PN 16 EN 1092-2 |

#### Pump Material

|               |                           |                 |                                       |
|---------------|---------------------------|-----------------|---------------------------------------|
| Volute Casing | : Cast Iron / 06025       | Bearing Housing | : Cast Iron / 06025                   |
| Seal Box      | : Cast Iron / 06025       | Wear Ring       | : Bronze Casting (Tinned) / 2.1050.01 |
| Impeller      | : Cast Iron / 06025       | Sleeve Set      | : Chrome Nickel Steel / 1.4301        |
| Shaft         | : Chromium Steel / 1.4021 |                 |                                       |

#### Motor Data

|                  |               |
|------------------|---------------|
| Manufacturer     | :             |
| Model            | : GMK         |
| Body Type        | : GMM2E355M4a |
| Rated Power      | : 250.00 kW   |
| Shaft Diameter   | :             |
| Insulation Class | : F           |
| Protection Class | : IP 55       |
| Voltage          | : 400 V       |
| Efficiency Class | : IE3         |
| Phase Number     | : 3           |
| Type             | : Surface     |

#### Coupling

|                       |                                |
|-----------------------|--------------------------------|
| Manufacturer          | :                              |
| Type                  | : Elastic                      |
| Material              | : Ductile Cast Iron 07040      |
| Direction of Rotation | : Clockwise from the Drive End |

#### Shaft Seal

|              |                |
|--------------|----------------|
| Seal Type    | : Soft Packing |
| Manufacturer | :              |
| Type         | :              |

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ESCE 200-500 1450 rpm / 800 m<sup>3</sup>/h / 60 m / 78.29 % / 165.28 kW / 50 Hz

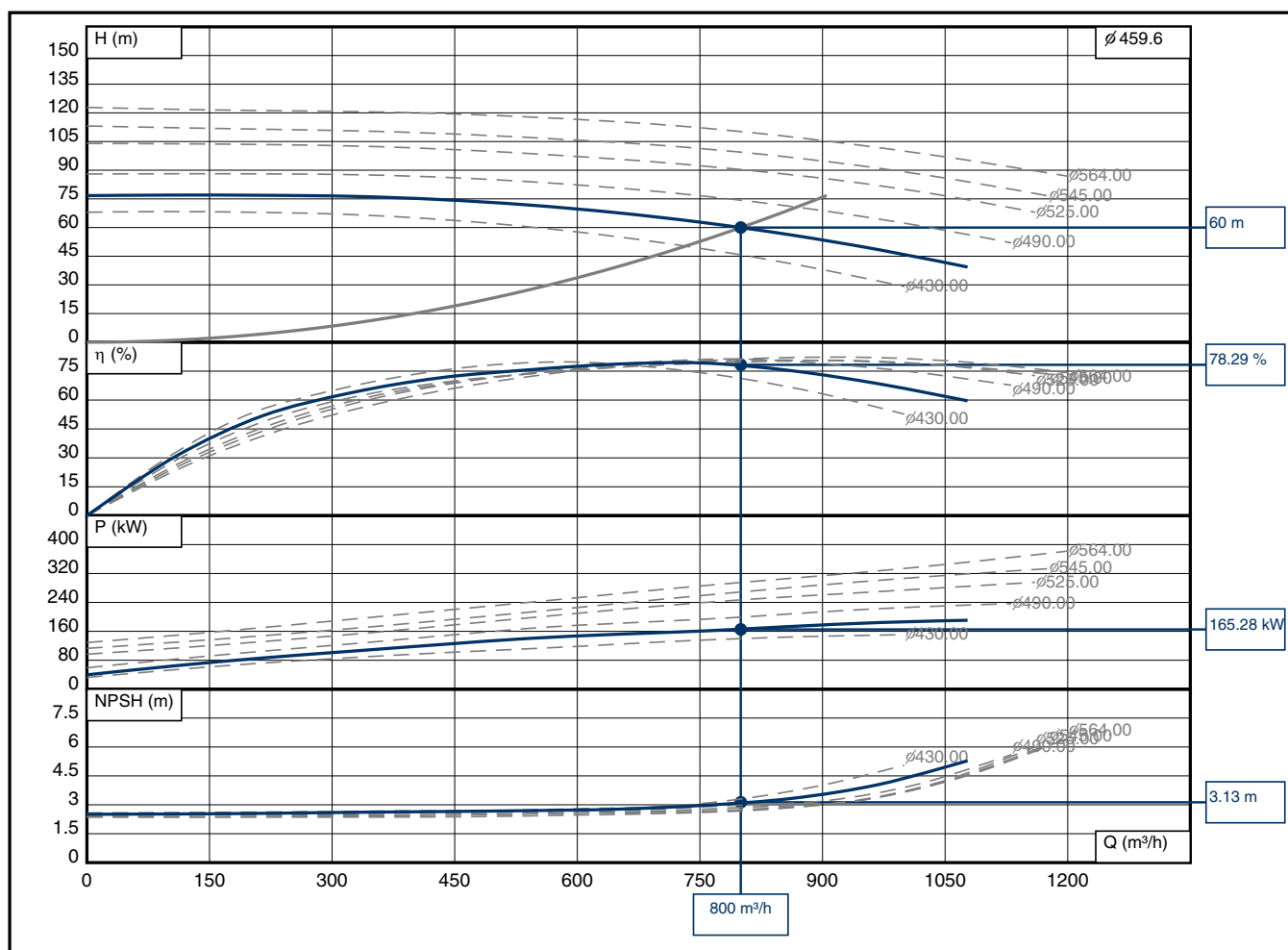
### Hydraulic Data

| Operating Data Specification | Hydraulic Data (Duty Point)  | Impeller Design       |
|------------------------------|------------------------------|-----------------------|
| Flow : 800 m <sup>3</sup> /h | Flow : 800 m <sup>3</sup> /h | Impeller D : 459.6 mm |
| Head : 60 m                  | Head : 60 m                  | Frequency : 50 Hz     |
| Static Head : 0 m            | MEI >=0.4                    | Speed : 1450 rpm      |

Power Data Referenced To:

Water ; 20.00 °C ; 998.000 kg/m<sup>3</sup> ; 1 cSt

Performance according to ISO 9906:2012 – Grade 3B



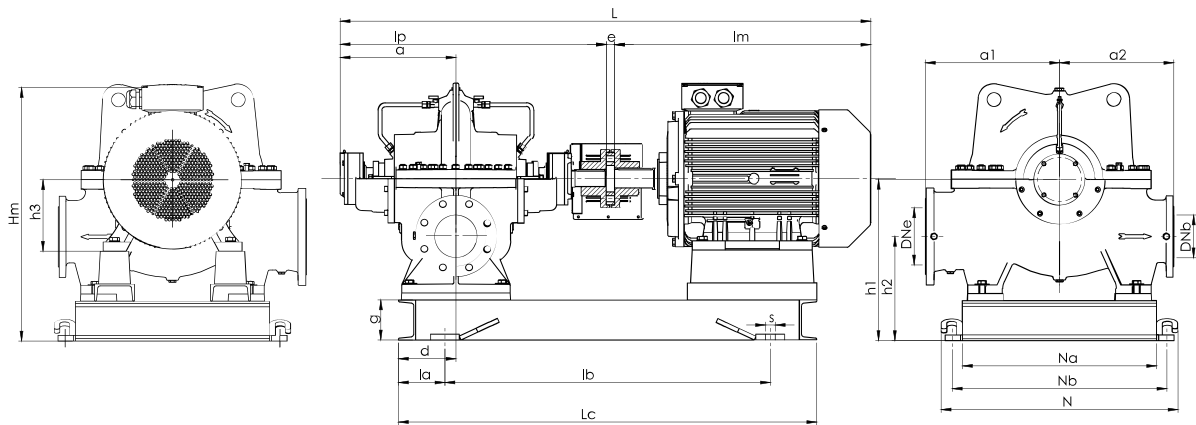
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ESCE 200-500 1450 rpm / 800 m³/h / 60 m / 78.29 % / 165.28 kW / 50 Hz

| Dimension (mm) | Weight (kg) |
|----------------|-------------|
|----------------|-------------|

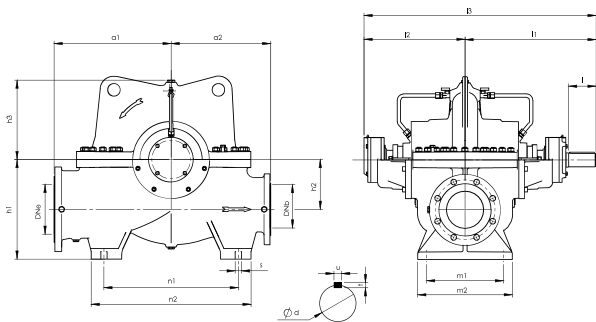
| Set 1 |         |    | Set 2   |    |         |    |        |    |         |                                     |
|-------|---------|----|---------|----|---------|----|--------|----|---------|-------------------------------------|
| Hm    | 1254.00 | g  | 160.00  | a1 | 550.00  | n1 | 620.00 | Wp | 2325.00 | Wp: Pump Weight<br>Wt: Total Weight |
| Hp    | 1122.00 | h1 | 745.00  | a2 | 500.00  | n2 | 720.00 |    |         |                                     |
| L     | 2391.00 | h2 | 445.00  | d  | 65.00   | s  | 22.00  |    |         |                                     |
| Lc    | 1860.00 | h3 | 315.00  | h1 | 560.00  |    |        |    |         |                                     |
| N     | 895.00  | la | 130.00  | h2 | 300.00  |    |        |    |         |                                     |
| Na    | 745.00  | lb | 1600.00 | h3 | 375.00  |    |        |    |         |                                     |
| Nb    | 835.00  | lm | 1217.00 | l  | 130.00  |    |        |    |         |                                     |
| a     | 500.00  | lp | 1141.00 | l1 | 610.00  |    |        |    |         |                                     |
| a1    | 550.00  | s  | 23.00   | l2 | 500.00  |    |        |    |         |                                     |
| a2    | 500.00  |    |         | l3 | 1110.00 |    |        |    |         |                                     |
| d     | 220.00  |    |         | m1 | 370.00  |    |        |    |         |                                     |
| e     | 33.00   |    |         | m2 | 320.00  |    |        |    |         |                                     |

### Drawing Set 1



### Drawing Set 2

### Connections (mm)



#### Suction Nozzle (DNe)

DN 250

PN 16

EN 1092-2

|    |        |
|----|--------|
| Df | 405.00 |
| k  | 355.00 |
| s  | 26.00  |
| n  | 12.00  |

#### Discharge Nozzle (DNb)

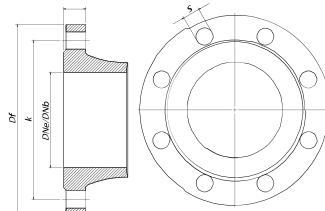
DN 200

PN 16

EN 1092-2

|    |        |
|----|--------|
| Df | 340.00 |
| k  | 295.00 |
| s  | 22.00  |
| n  | 12.00  |

n: Number of Holes



Note: All Dimensions are for reference only.  
Dimensions may vary depending on motor and customer needs.