

## DATA SHEET

|         |  |         |            |
|---------|--|---------|------------|
| Company |  | Date    | 20/02/2023 |
| Project |  | Item    |            |
|         |  | Ref No. |            |

### SNDS 350-400-400

Horizontal, double suction, single stage, axially split volute casing pump

#### Operating Point Data

|                   |          |                     |             |
|-------------------|----------|---------------------|-------------|
| Capacity          | :        | Power at Duty Point | :           |
| Head              | :        | Frequency           | : 50 Hz     |
| Efficiency (%)    | :        | Voltage             | : 400 V     |
| Impeller Diameter | : 430 mm | Motor Power         | : 400.00 kW |
| NPSHr             | :        | Nominal Speed       | : 1488 rpm  |
| Shut Off Head     | : 63.9 m |                     |             |

#### Liquid Data

|             |         |           |                            |
|-------------|---------|-----------|----------------------------|
| Liquid      | : Water | Density   | : 998.30 kg/m <sup>3</sup> |
| Temperature | : 20 °C | Viscosity | : 1.005 mm <sup>2</sup> /s |

#### Pump Data

|                       |                                |                       |                             |
|-----------------------|--------------------------------|-----------------------|-----------------------------|
| Design                | : Double suction, Single stage | Type of Coupling      | : Standard                  |
| Installation          | : Horizontal                   | Impeller Type         | : Double Suction            |
| Suction Flange        | : EN 1092 PN 16-DN 500         | Type of Bearing       | : Grease Lubricated Bearing |
| Discharge Flange      | : EN 1092 PN 16-DN 350         | Type of Shaft Sealing | : Soft Packing              |
| Direction Of Rotation | : Clockwise from the drive end |                       |                             |

#### Materials

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Volute Casing           | 0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B |
| Impeller                | 0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B |
| Shaft                   | 1.4021 / X20Cr13 / ASTM A276 Type 420           |
| Bearing Housing         | 0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B |
| Casing Wear Ring        | 2.1050.01 / G-CuSn10 / ASTM B427 C90700         |
| Shaft Protecting Sleeve | 1.4021 / X20Cr13 / ASTM A276 Type 420           |

## Operating Point Data

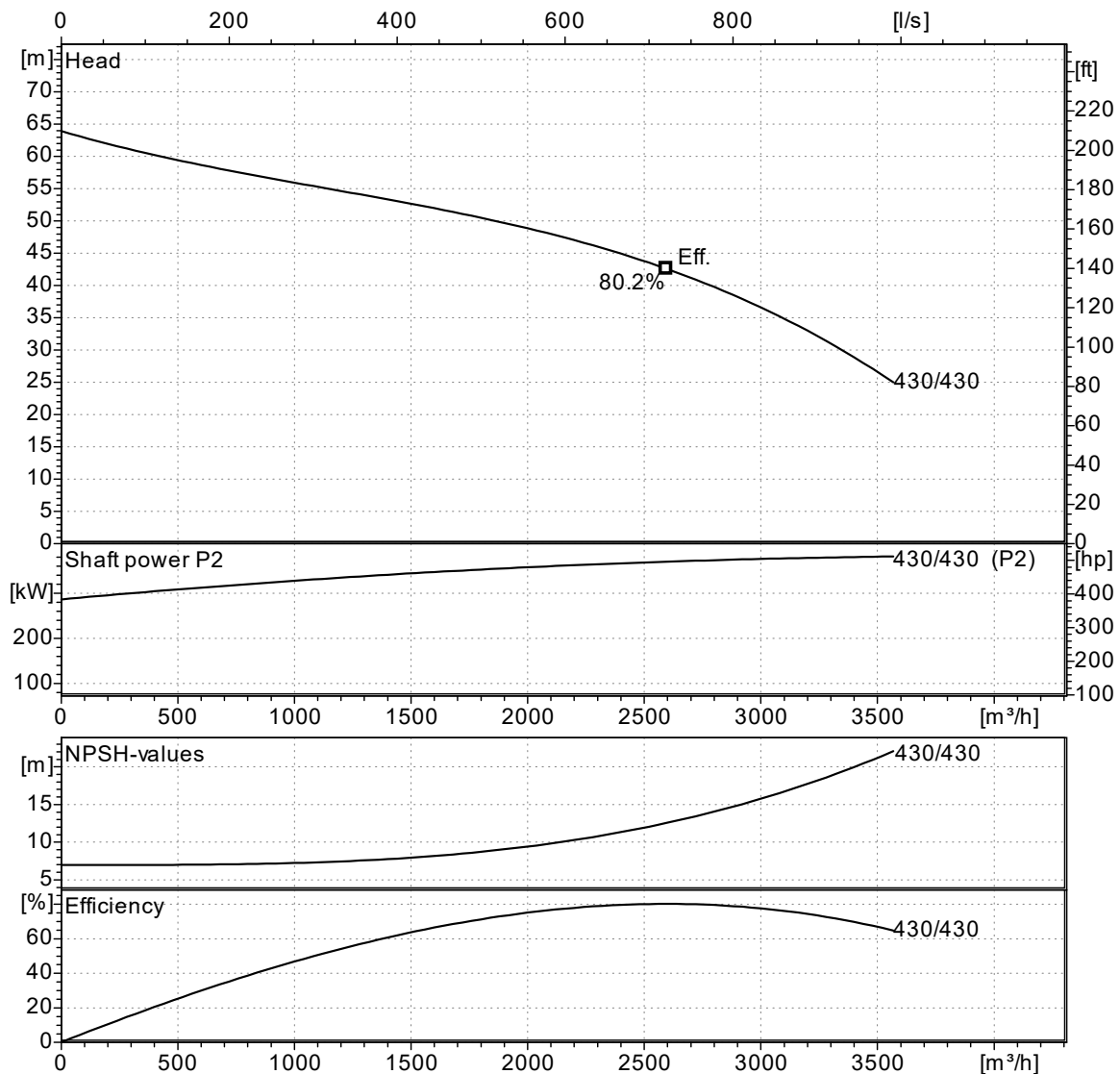
|         |  |         |            |
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Capacity:  
Head:  
Efficiency (%):  
Power at Duty Point:  
Viscosity: 1.005 mm<sup>2</sup>/s

NPSHr:  
Motor Power: 400.00 kW  
Nominal Speed: 1488 rpm  
Frequency: 50 Hz  
Density: 998.30 kg/m<sup>3</sup>



Curves compatible with ISO 9906:2012 Gr 3B

NPSHa > NPSHr + 1m

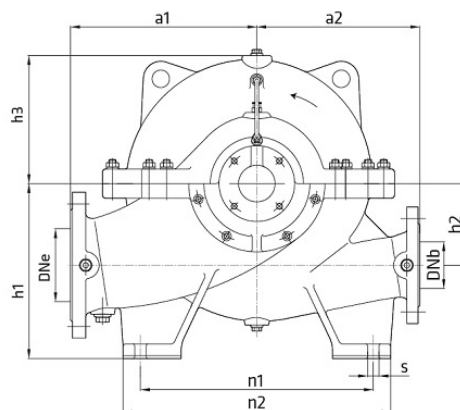
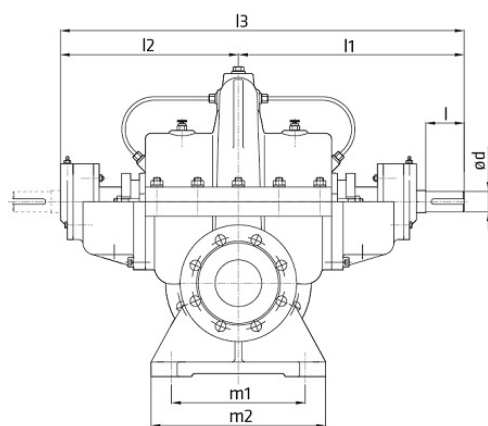
Note : The motor power is not sufficient for dotted area.

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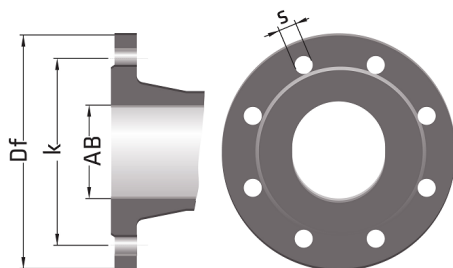
### Pump Dimensions



| Name | Value   |
|------|---------|
| a1   | 800     |
| a2   | 600     |
| d    | 75      |
| DNb  | 350     |
| DNe  | 500     |
| h1   | 800     |
| h2   | 380     |
| h3   | 500     |
| l    | 140     |
| l1   | 770     |
| l2   | 615     |
| l3   | 1385    |
| m1   | 500     |
| m2   | 600     |
| n1   | 800     |
| n2   | 960     |
| s    | 26      |
| W    | 1400 kg |

Note : l1 and l2 replaced each other since pump shaft rotates counter-clockw ise.

### Flange Dimensions



#### Suction Flange

AB = 500  
Df = 715  
k = 650  
n = 20  
s = 34

#### Discharge Flange

AB = 350  
Df = 520  
k = 470  
n = 16  
s = 28

" n " number of holes

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### **Motor Data**

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|                      |   |                                |
|----------------------|---|--------------------------------|
| Efficiency Level     | : |                                |
| Motor type           | : | Three-Phase Asynchronous Motor |
| Motor Power          | : | 400.0 kW                       |
| Rated Speed          | : | 1450 rpm                       |
| Voltage              | : | 400 V                          |
| Rated Current        | : | 0.00 A                         |
| Frequency            | : | 50 Hz                          |
| Motor Phase          | : | 3                              |
| Service Factor       | : | 1.15                           |
| Insulation Class     | : | F                              |
| Degree of Protection | : | IP 55                          |
| Efficiency           | : | - %                            |
| Power factor         | : | 0.00                           |