



# Technical Data

|                                                                                                  |                     |
|--------------------------------------------------------------------------------------------------|---------------------|
| <b>Project Name</b> : Untitled project 2025-03-19 11:17:08.180                                   | <b>Project ID</b> : |
| <b>Company Name</b> :<br><b>Department</b> :<br><b>Phone number</b> :<br><b>e-mail address</b> : |                     |

## Requested Data

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| <b>Flow</b> : 46.91 m <sup>3</sup> /h | <b>Fluid</b> : Water                        |
| <b>Head</b> : 154.2 m                 | <b>Density</b> : 0.9983 kg/dm <sup>3</sup>  |
|                                       | <b>Viscosity</b> : 1.005 mm <sup>2</sup> /s |
|                                       | <b>Temperature</b> : 20 °C                  |
|                                       | <b>pH-value at t A</b> :                    |
|                                       | <b>Vapour pressure at t A</b> : 0.0234 bar  |

## Pump

|                                                  |                                                       |
|--------------------------------------------------|-------------------------------------------------------|
| <b>Pump Model</b> : S6S-48/18                    | <b>Minimum Continuous Flow</b> : 29 m <sup>3</sup> /h |
| <b>No. of Stages</b> : 18                        | <b>Flow Nominal</b> : 46.84 m <sup>3</sup> /h         |
| <b>Outlet Size</b> : 80                          | <b>Max-</b> : 60 m <sup>3</sup> /h                    |
| <b>Speed</b> : 2900 1/min                        | <b>Min-</b> : 29 m <sup>3</sup> /h                    |
| <b>Direction of Rotation</b> : Counter clockwise | <b>Head Nominal</b> : 153 m                           |
| <b>Impeller type</b> : Mixed Flow impeller       | <b>Max-</b> : 199.8 m                                 |
| <b>Impeller Design</b> : Closed                  | <b>Min-</b> : 94.49 m                                 |
| <b>pump weight(Approx)</b> : 47.63 kg            | <b>Efficiency Overall Efficiency</b> : 63.4 %         |
| <b>Pump Standard</b> :                           | <b>Pump Efficiency</b> : 76.39 %                      |

## Motor

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| <b>Motor Model</b> : W6A-300DI       | <b>Motor Standard</b> :                |
| <b>Frequency</b> : 50 Hz             | <b>Insulation Class</b> : Y            |
| <b>Phase</b> : 3~                    | <b>Degree of Protection</b> : IP 68    |
| <b>Rated Voltage</b> : 380 V         | <b>Method of Starting</b> : Star-delta |
| <b>Rated current</b> : 68 A          | <b>Service factor</b> : 1              |
| <b>Rated Power P2</b> : 30 kW        | <b>Power factor</b> : 0.83             |
| <b>Speed</b> : 2900 1/min            | <b>No.of.starts per hour</b> : 20      |
| <b>Efficiency</b> : 83 %             | <b>Starting current</b> :              |
| <b>Motor Weight (Approx)</b> : 94 kg | <b>Starting torque</b> :               |

## Material of Construction

| Pump                                |                       | Motor                               |                                   |
|-------------------------------------|-----------------------|-------------------------------------|-----------------------------------|
| <b>Check Valve Housing</b>          | S.S 304               | <b>Shaft Seal / Mechanical Seal</b> | Nitrile Rubber / Ceramic - Carbon |
| <b>Check Valve Disc</b>             | S.S 304               | <b>Upper &amp; Lower Housings</b>   | Cast Iron                         |
| <b>Check Valve Seat</b>             | Nitrile Butyle Rubber | <b>Stator Shell</b>                 | SS 304 / 441                      |
| <b>Diffuser Chamber</b>             | S.S 304               | <b>Thrust Pad</b>                   | Carbon Graphite                   |
| <b>Impeller</b>                     | S.S 304               | <b>Thrust Bearing</b>               | S.S 420                           |
| <b>Split Cone with Nut</b>          | S.S 304               | <b>Diaphragm</b>                    | High Nitrile Rubber               |
| <b>Impeller Wearing / Seal Ring</b> | Nitrile Butyle Rubber | <b>Motor Base</b>                   | S.S 304                           |
| <b>Upthrust Washer / Stop Ring</b>  | S.S 420               | <b>Upper Housing Shell</b>          | S.S 304                           |
| <b>Intermediate Bearing</b>         | Nitrile Butyle Rubber | <b>Shaft</b>                        | S.S 431                           |
| <b>Suction Interconnector</b>       | S.S 304               | <b>Shaft Extension</b>              | 17.4 Ph                           |
| <b>Inlet Screen</b>                 | S.S 304               | <b>Sleeves</b>                      | S.S 431                           |
| <b>Pump Shaft</b>                   | S.S 431               |                                     |                                   |
| <b>Coupling Splines</b>             | S.S 329               |                                     |                                   |
| <b>Locking Strap</b>                | S.S 304               |                                     |                                   |
| <b>Cable Guard</b>                  | S.S 304               |                                     |                                   |



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# Performance Curve

Pump Model  
**S6S-48/18**

**Project Name** : Untitled project 2025-03-19 11:17:08.180

**Project ID** :

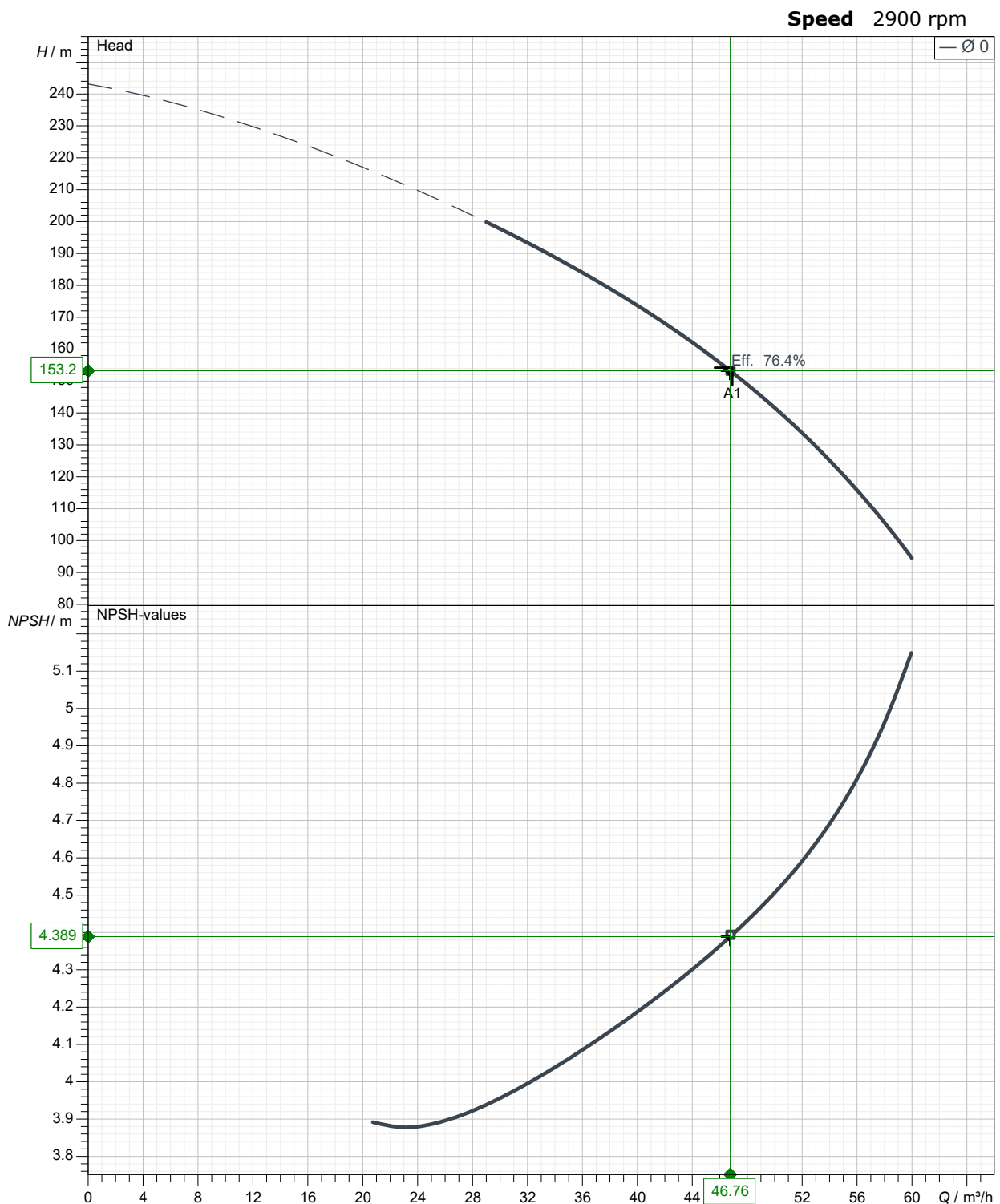
**Company Name** :

**Department** :

**Phone number** :

**e-mail address** :

**Curve Tolerance** ISO : 9906, Grade-3B





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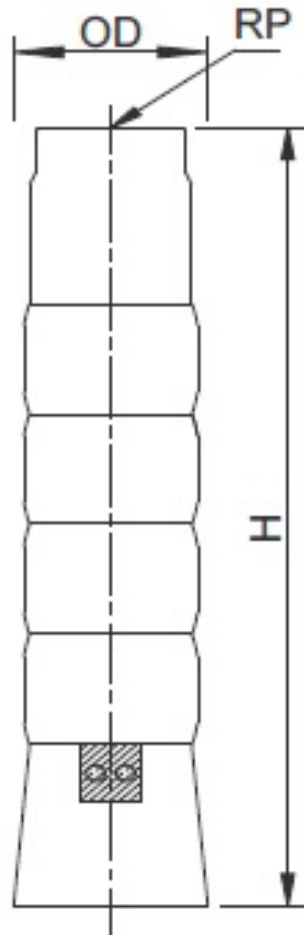
**Project ID** :

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**Phone number** :

**e-mail address** :



In View of continuous developments, The information/specifications/Description/ Illustrations are subject to change without notice.

## Dimensions in mm

|        |          |  |  |
|--------|----------|--|--|
| H      | 2324     |  |  |
| OD-DOL | 145      |  |  |
| OD-SD  | 149      |  |  |
| RP     | 80 \ 100 |  |  |

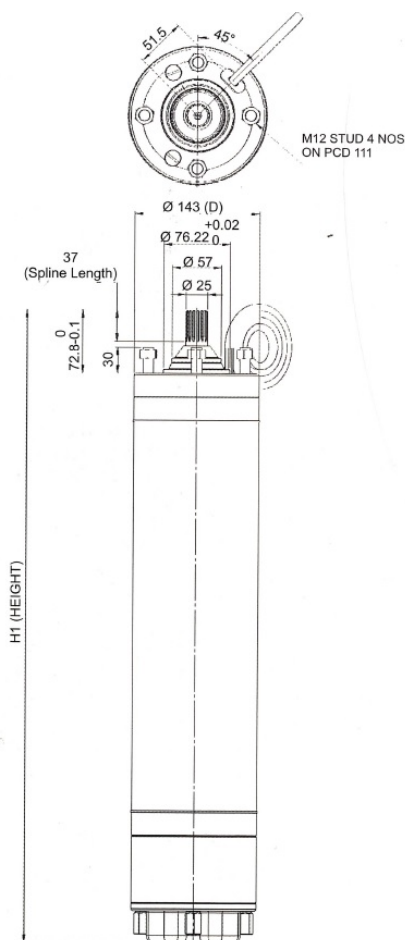


Motor Model  
**W6A-300DI**

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### Dimensions in mm

|         |             |  |  |
|---------|-------------|--|--|
| D<br>H1 | 143<br>1229 |  |  |
|---------|-------------|--|--|