



**C.R.I. PUMPS**  
Pumping trust. Worldwide.

# Technical Data

Pump Model  
**CTC-80/160A**

|                                                                                                  |                     |
|--------------------------------------------------------------------------------------------------|---------------------|
| <b>Project Name</b> : Untitled project 2025-10-30 10:00:52.276                                   | <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> : 175.4 m <sup>3</sup> /h | <b>Fluid</b> : Water                        |
| <b>Head</b> : 29.4 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> : CTC-80/160A                             | <b>Minimum Continuous Flow</b> : 60 m <sup>3</sup> /h |
| <b>No. of Stages</b> : 1                                    | <b>Flow Nominal</b> : 175.3 m <sup>3</sup> /h         |
| <b>Inlet / Outlet size</b> : 100 x 80                       | <b>Max-</b> : 209.7 m <sup>3</sup> /h                 |
| <b>Speed</b> : 2900 1/min                                   | <b>Min-</b> : 60 m <sup>3</sup> /h                    |
| <b>Direction of Rotation</b> : Clockwise from the drive end | <b>Head Nominal</b> : 29.78 m                         |
| <b>Impeller type</b> : Radial impeller                      | <b>Max-</b> : 38.81 m                                 |
| <b>Impeller Design</b> : Closed                             | <b>Min-</b> : 23.54 m                                 |
| <b>Pumpset Weight (Approx)</b> : 150 kg                     | <b>Efficiency Overall Efficiency</b> : 73.18 %        |
| <b>Pump Standard</b> :                                      | <b>Pump Efficiency</b> : 80.53 %                      |

## Motor

|                                  |                                        |
|----------------------------------|----------------------------------------|
| <b>Motor Model</b> : CTC-80/160A | <b>Insulation Class</b> : F            |
| <b>Frequency</b> : 50 Hz         | <b>Frame size</b> : 160                |
| <b>Phase</b> : 3~                | <b>Degree of Protection</b> : IP 55    |
| <b>Rated Voltage</b> : 380 V     | <b>Method of Starting</b> : Star-delta |
| <b>Rated current</b> : 35.5 A    | <b>Service factor</b> : 1.15           |
| <b>Rated Power P2</b> : 18.5 kW  | <b>Power factor</b> : 0.89             |
| <b>Speed</b> : 2900 1/min        |                                        |
| <b>Efficiency</b> : 90.9 %       |                                        |
| <b>Motor Standard</b> :          |                                        |

## Material of Construction

|                                 |                      |
|---------------------------------|----------------------|
| <b>Pump casing</b>              | Cast Iron            |
| <b>Impeller</b>                 | Cast Iron            |
| <b>Mechanical seal</b>          | Sic/Carbon/SS 304    |
| <b>O' Ring</b>                  | Rubber               |
| <b>Oil Seal</b>                 | Rubber               |
| <b>Shaft</b>                    | Carbon Steel         |
| <b>Motor Case</b>               | Aluminium            |
| <b>Back Cover</b>               | Cast Iron            |
| <b>Fan Cover</b>                | Aluminium            |
| <b>Fan</b>                      | Plastic              |
| <b>Counter/companion Flange</b> | Galvanized Cast Iron |



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# Performance Curve

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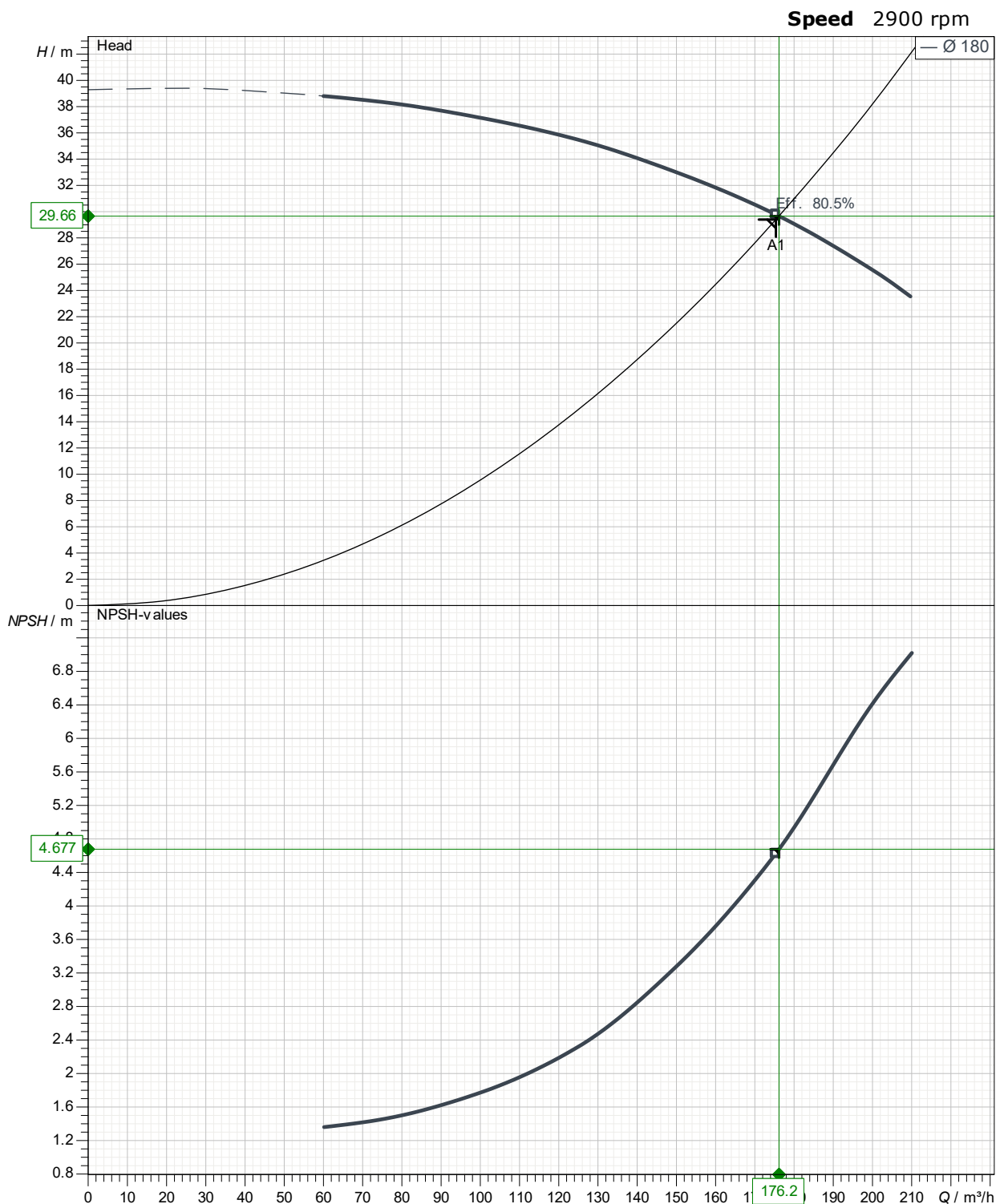
**Company Name** :

**Department** :

**Phone number** :

**e-mail address** :

**Curve Tolerance** ISO : 9906





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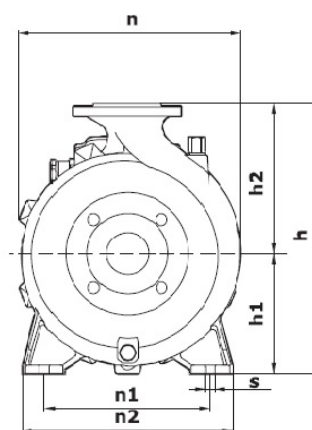
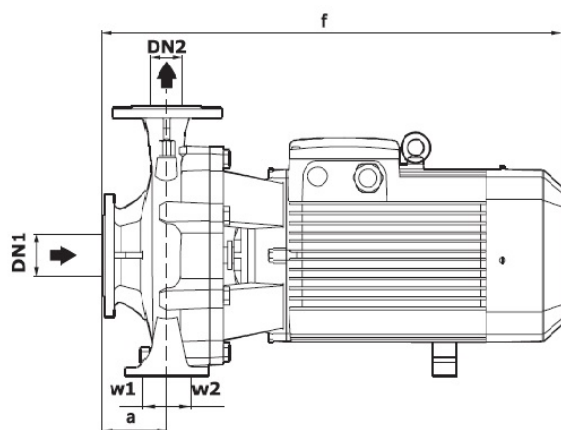
# Dimensional Drawing

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

## Dimensions in mm

|     |     |    |    |
|-----|-----|----|----|
| a   | 88  | w1 | 49 |
| DN1 | 100 | w2 | 49 |
| DN2 | 80  |    |    |
| f   | 750 |    |    |
| h   | 435 |    |    |
| h1  | 186 |    |    |
| h2  | 250 |    |    |
| n   | 330 |    |    |
| n1  | 255 |    |    |
| n2  | 332 |    |    |