MS/MSS
50Hz/60Hz
Light Stainless Steel Horizontal Single-stage Centrifugal Pump

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E150303
subject to amendments
Company Profile

Founded in 1991, Nanfeng Pump Industry Co., Ltd. (hereinafter referred to as CNP) has been listed on the Shenzhen Stock Exchange on 9th December 2010. Stock name: CNP, Stock code: 300145.

As the first enterprise specializing in the research and large-scale production of stainless steel stamping welded centrifugal pump in China, CNP is currently the professional manufacturer with the highest volume of production and marketing in that industry. It ranks first in the country in terms of product scope, sales volume, and production quality. The company has set up a complete network of marketing services to meet the requirements of various markets as well as domestic needs. The products have been widely applied to the area of purification, industry, living water, cycling of air-conditioning water, heat supply, fire extinguishing system, pumping of underground water, treatment of sewage and waste water, chemical industry and desalination of sea water, etc.

CNP has now entered into the fast track of development and has taken a major step forward in forging China Strong Pump Enterprise and World's famous brand in the Pump Industry. In order to better meet the client's needs and requirements for expansion, it has set up a wide network of selling and service, as well as offices and service centers in major cities in China, which are aimed at providing timely and effective services for our clients. Meanwhile, our company has successfully penetrated into the world market by forging a good business relationship with more than 50 countries and regions in the Europe, Northern America, and Southeast Asia, etc.

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MS100,50Hz
MS160,50Hz
MS250,50Hz
MS330,50Hz
MS3100,50Hz
MS160,60Hz
MS250,60Hz
MS330,60Hz
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Size and weight
**Definition of model**

MS250/1.5

MS 250 / 1.5

Rated Power (kW)

Rated flow (l/min)

Light stainless steel horizontal single-stage centrifugal pump (50Hz)

MS250/1.5

MSS 250 / 1.5

Rated Power (kW)

Rated flow (l/min)

Light stainless steel horizontal single-stage centrifugal pump (60Hz)

**Pumping liquids**

- Thin, clean, non-flammable and explosive, not containing the liquid with solid particle and fiber;
- Able to transmit light corrosive medium (Relate to the content of chloride ion in the medium, thickness of acid or alkali, whether generate corrosion on the rubber and mechanical seal materials);
- The density of transmitted medium is less than that of clean water, viscosity close to that of water. Other wise the motor of large power is required.

**Operating condition**

- Liquid temperature: -10℃ ~ +85℃;
- Ambient temperature: up to +40℃;
- Altitude: up to 1000m;
- Max. pressure of the system is 8bar.

**Motor**

- TEFC motor, 2-pole;
- Protection class: IP55;
- Insulation class: F;
- Standard voltage: 50Hz 1 x 220V
  
- 3 x 380V/3 x 220V
- Standard voltage: 60Hz 1 x 220V
  
- 3 x 380V/3 x 220V

**Installation requirements**

- The pump shall be fastened on the stable horizontal base;
- The installation of the pump shall ensure that the pump will not be influenced by the tension of the pipeline;
- The pump shall be installed on the ventilating and anti-freezing place to ensure normal operation of the motor;
- Electric wiring device shall guarantee that the pump will not be damaged by lack of phase, unstable voltage, current leakage and overload.

**Curves**

Include performance curve in the technical data:

- All curves are based on the measured values of 50Hz: constant motor speed 2850r/min, 60 Hz: constant motor speed 3450r/min;
- Measurement is done with 20℃ air-free water, kinematic viscosity of 1mm²/sec;
- Curve tolerance in conformity with ISO9906 Annex A;
- The operation of pump shall refer to the performance region to prevent overload of motor due to too large flow rate.

**Structure features**

- MS/MSS series of pump is single-stage centrifugal pump and features axial suction and radial discharge;
- Compact structure, the pump is directly connected with the motor, coaxial installation;
- Convenient installation, screw thread water inlet and outlet;
- Light weight, thin plate pressing structure for main parts and components;
- A little corrosion resistance, material of wet parts is AISI 304 or AISI 316 stainless steel.

**Application**

- Pressurization and pumping of industrial and civilian clean water or other liquids;
- Water treatment;
- Water circulating system;
- Agricultural irrigation;
- Other fields.
### General Data

**Section drawing**

![Diagram of pump components]

**Performance curve**

![Graph showing performance characteristics]

### Material

<table>
<thead>
<tr>
<th>NO.</th>
<th>Parts Name</th>
<th>Material</th>
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<td>1</td>
<td>Motor</td>
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<td>2</td>
<td>Mechanical seal</td>
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<td>3</td>
<td>M6 x 15 / Screw</td>
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### Installation sketch

![Installation sketch](image)

### Size and weight—50Hz

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<tr>
<th>Model</th>
<th>Motor Phase</th>
<th>kW</th>
<th>hp</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>H</th>
<th>DN S</th>
<th>DN D</th>
<th>Weight</th>
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<td>3PH/1PH</td>
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<td>113</td>
<td>51</td>
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<th>Motor Phase</th>
<th>kW</th>
<th>hp</th>
<th>L1</th>
<th>L2</th>
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<th>DN S</th>
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