

	Product Information NIS100-65-250G/5.5	Manufacturer	CNP
		Address	Yuhang District, Hangzhou, Zhejiang,
		Contact	86-571-88637351
		Date	2022/03/06
Project Name		Client Name	DPA
Item NO		Client Addr.	
		Contacts	Alireza
		Contact	

Part NO.	1100088073
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Product Picture	Note
	Non-prime single stage horizontal end suction centrifugal pump, axial inlet and radial outlet, back pull out design, easy maintenance without removing pumpbody and pipe system.

technology

Pump rotator speed 1450

Material

Impeller HT200
Pump body QT500-7
Rubber code P
Material Code H

Installation

Maximum Operation Pressure 16Bar
Maximum Inlet Pressure 6Bar

Medium

Medium Temperature -15~110

Structure dimension

Inlet & outlet size types DN
Inlet Bore 100
Outlet Diameter 65
Rotation Direction Anti-clockwise rotation viewing from inlet

Motor

Number of Motor Phase Three Phase
Protection Class IP55
Insulation Class F
Motor Power 5.5
Power Frequency 50HZ
Rated Voltage (V) 380V
Rated Current (A) 11.2
Energy Efficiency Level IE3

Seal

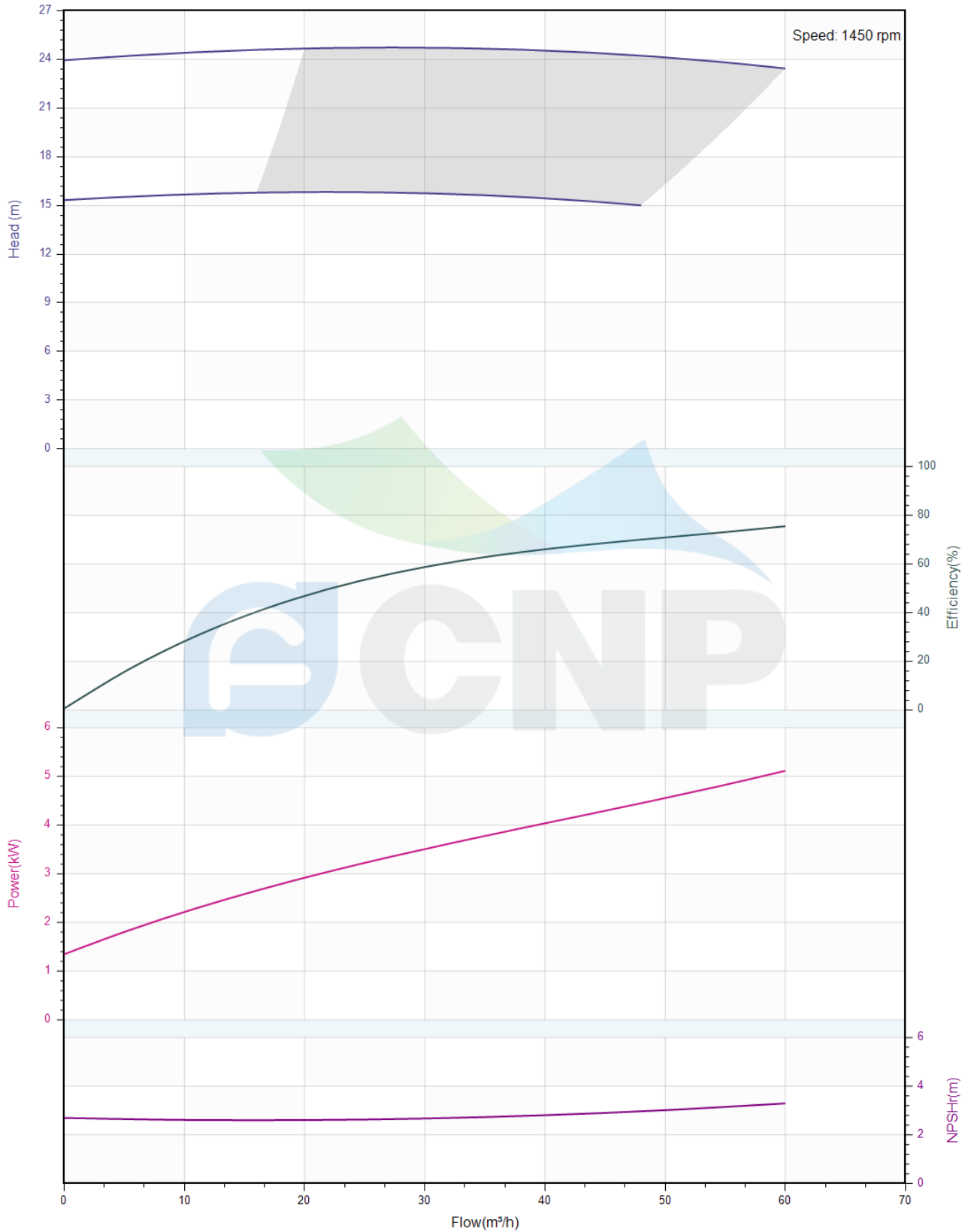
Mechanical Seal NISO-43/BSE4

Others

Weight (kg) 147

	Performance Curve NIS100-65-250G/5.5	Manufacturer	CNP
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The hydraulic performance curve have been tested with Clean Water at 20°C, density 1000kg/m³, and at 1bar atmospheric pressure. ISO99062012 Grade 3B



	Pump Technical Parameters NIS100-65-250G/5.5	Manufacturer	CNP
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Rated parameters	
Pump model	NIS100-65-250G/5.5
Part NO.	1100088073
Rated flow (m³/h)	50
Rated head (m)	24
Rated efficiency (%)	73
Power (kW)	4.48
NPSHr (m)	3
Speed (rpm)	1450
Max impeller diameter (mm)	256
Medium	
Pumped medium	Clean Water
Working temperature (°C)	20
Medium density (kg/m³)	1000
Viscosity (mm²/s)	1

Speed: 1450 rpm

The figure displays three performance graphs for the pump NIS100-65-250G/5.5 at a speed of 1450 rpm. The x-axis for all graphs is Flow (m³/h), ranging from 0 to 70.

- Top Graph: Head (m) vs Flow (m³/h)**
 - The y-axis ranges from 0 to 27 m.
 - The performance curve (blue line) starts at approximately 15.5 m head at 0 m³/h and decreases to about 14.5 m head at 60 m³/h.
 - A shaded gray region represents the efficiency range, bounded by the performance curve and a lower curve, starting around 18 m head and 20 m³/h.
- Middle Graph: Efficiency (%) vs Flow (m³/h)**
 - The y-axis ranges from 0 to 100%.
 - The efficiency curve (blue line) starts at approximately 10% efficiency at 0 m³/h and increases to about 75% efficiency at 60 m³/h.
- Bottom Graph: Power (kW) and NPSHr (m) vs Flow (m³/h)**
 - The left y-axis is Power (kW), ranging from 0 to 6.
 - The right y-axis is NPSHr (m), ranging from 0 to 6.
 - The power curve (pink line) starts at approximately 1.5 kW at 0 m³/h and increases to about 5.0 kW at 60 m³/h.
 - The NPSHr curve (purple line) starts at approximately 2.5 m at 0 m³/h and increases slightly to about 2.8 m at 60 m³/h.



	Structure picture NIS100-65-250G/5.5	Manufacturer	CNP
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