Pump Data Sheet - Turbine 50 Hz

Company: VNPY
Name: MR.Trung
Date: 05/21/2025

Customer:

Pump:

Size:	14RJHO (stages: 5)	Dimensions:	
Type:	Lineshaft	Suction:	---
Synch Speed:	1500 rpm	Discharge:	---
Dia:	236.537 mm	Vertical Turbine:	
Curve:	E6414RDPC1	Eye Area:	
		Bowl Size:	346 mm
		Max Lateral:	31.8 mm
		Thrust K Factor:	24.1 kg/m

Search Criteria:

Flow:	252 m³/hr	Near Miss:	---
Head:	100 m	Static Head:	0 m

Pump Selection Warnings:

None

Fluid:

Name:	Water		
SG:	1	Vapor Pressure:	1.77 kPa a
Density:	999 kg/m³	Atm Pressure:	101 kPa a
Viscosity:	1.1 cP		
Temperature:	15.6 °C	Margin Ratio:	1

Pump Limits:

Temperature:	---	Sphere Size:	26.9 mm
Wkg Pressure:	---		

Motor:

Standard:	NEMA	Size:	132 kW
Enclosure:	WPI	Speed:	1500 rpm
Frame:	445		
Sizing Criteria:	Max Power on Design Curve		

--- Duty Point ---

Flow:	252 m³/hr
Head:	100 m
Eff:	73.4%
Power:	93.3 kW
NPSHr:	5.92 m
Speed:	1475 rpm

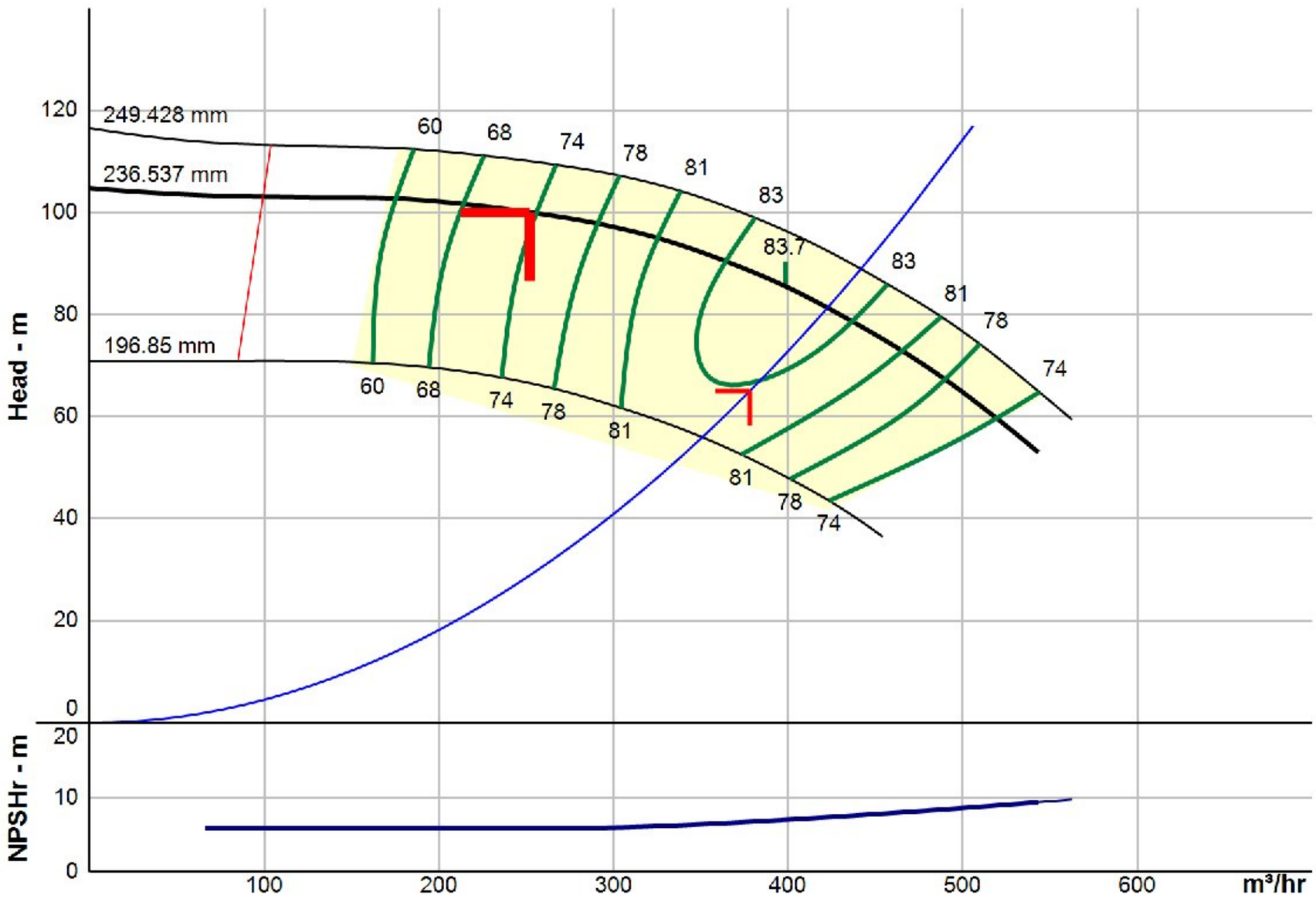
--- Design Curve ---

Shutoff Head:	105 m
Shutoff dP:	1027 kPa
Min Flow:	99.6 m³/hr

BEP: 83.7% @ 398 m³/hr
NOL Power:
118 kW @ 543 m³/hr

--- Max Curve ---

Max Power:
133 kW @ 563 m³/hr



Operating Points:

Data Point	Speed	Flow	Head	NPSHr	Efficiency	Power	Min Flow
	rpm	m³/hr	m	m	%	kW	m³/hr
Primary	1475	252	100	5.92	73.4	93.3	99.6
1	1475	378	88.5	6.74	83.3	109	99.6