

NP 3085 MT 3~ Adaptive 461

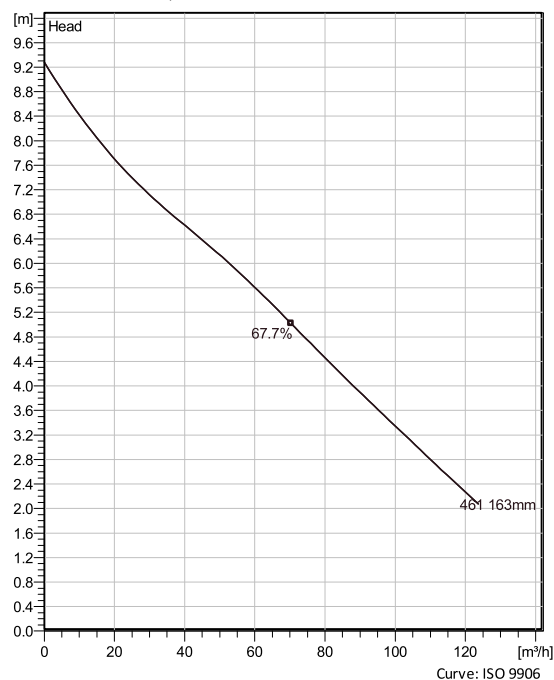
Patented self cleaning semi-open channel impeller, ideal for pumping in most waste water applications. Possible to be upgraded with Guide-pin® for even better clogging resistance. Modular based design with high adaptation grade.



Technical specification



Curves according to: Water, pure ,4 °C,999.9 kg/m³,1.5692 mm²/s



Configuration

Motor number N3085.160 15-10-4AL-W 2KW	Installation type P - Semi permanent, Wet
Impeller diameter 163 mm	Discharge diameter 80 mm

Pump information

Impeller diameter 163 mm
Discharge diameter 80 mm
Inlet diameter 80 mm
Maximum operating speed 1400 rpm
Number of blades 2

Max. fluid temperature
40 °C

Materials

Impeller Grey cast iron
Stator housing material Grey cast iron

Project
Block

Created by
Created on 11/5/2020

Last update 11/5/2020

NP 3085 MT 3~ Adaptive 461

Technical specification



Motor - General

Motor number N3085.160 15-10-4AL-W 2KW	Phases 3~	Rated speed 1400 rpm	Rated power 2 kW
Approval No	Number of poles 4	Rated current 4.8 A	Stator variant 61
Frequency 50 Hz	Rated voltage 400 V	Insulation class H	Type of Duty S1
Version code 160			

Motor - Technical

Power factor - 1/1 Load 0.80	Motor efficiency - 1/1 Load 75.6 %	Total moment of inertia 0.0206 kg m ²	Starts per hour max. 30
Power factor - 3/4 Load 0.72	Motor efficiency - 3/4 Load 76.9 %	Starting current, direct starting 23 A	
Power factor - 1/2 Load 0.60	Motor efficiency - 1/2 Load 75.1 %	Starting current, star-delta 7.66 A	

Project
Block

Created by
Created on 11/5/2020

Last update 11/5/2020

NP 3085 MT 3~ Adaptive 461

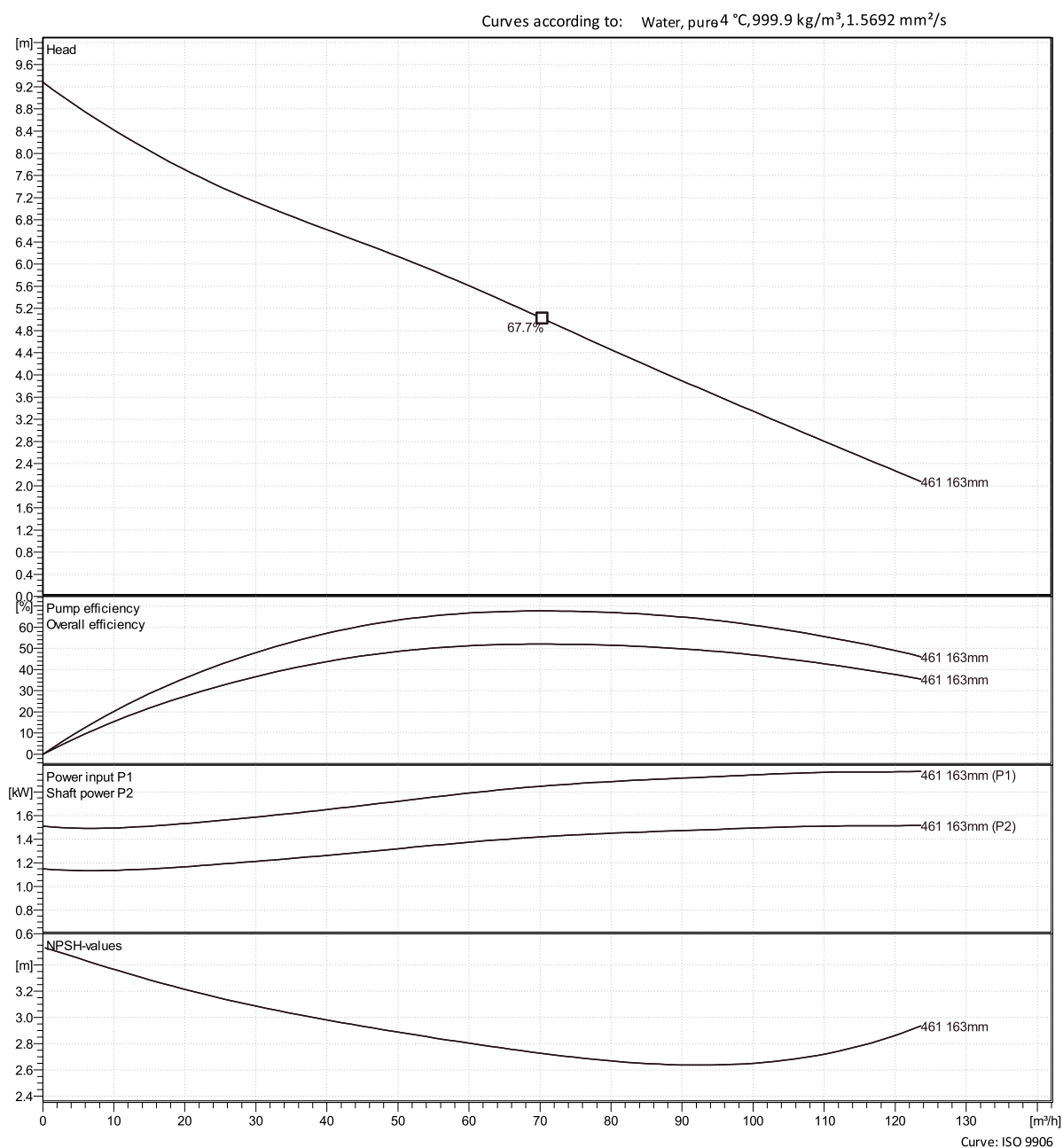
Performance curve



Duty point

Flow

Head



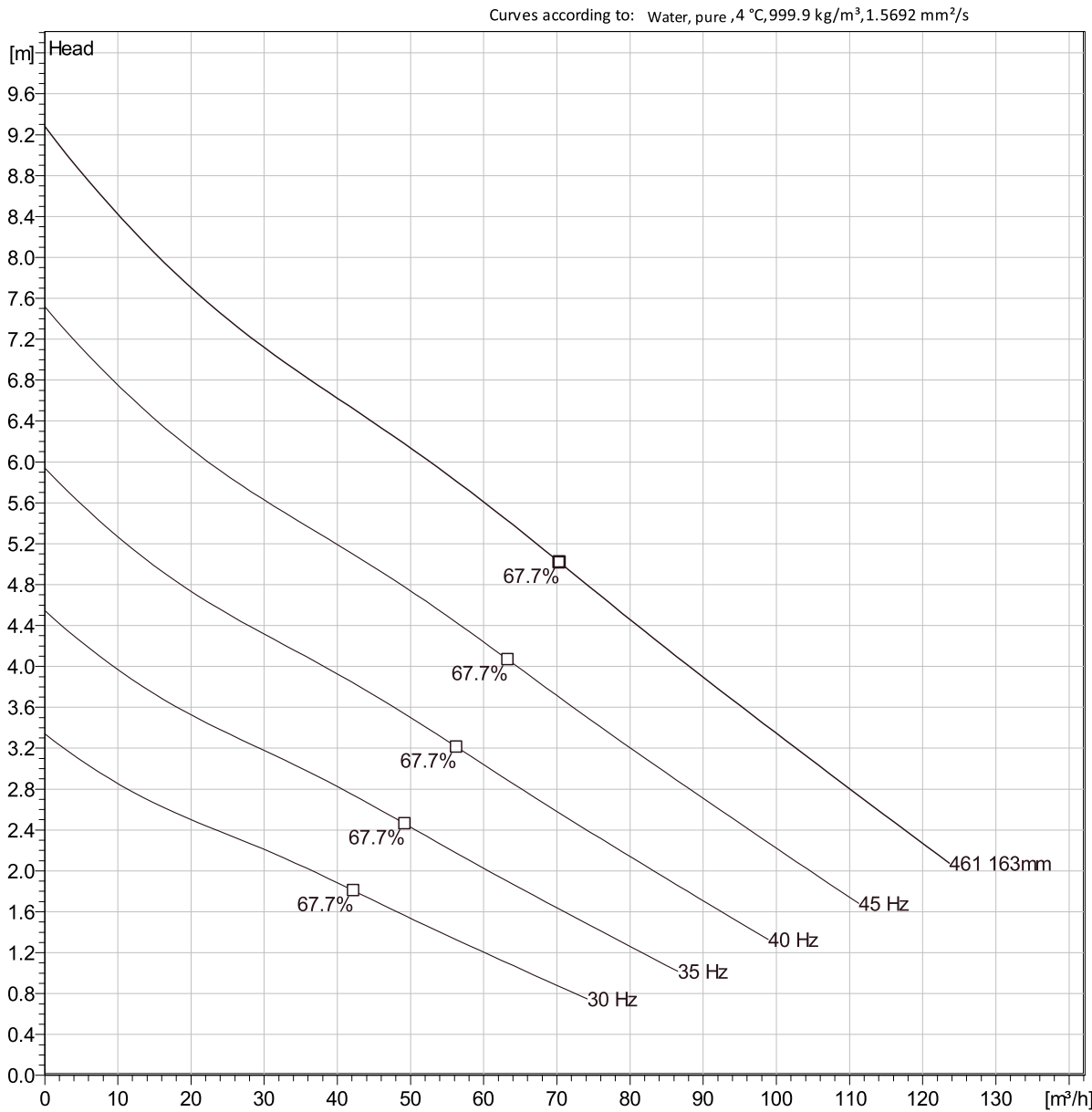
Project
Block

Created by
Created on 11/5/2020

Last update 11/5/2020

NP 3085 MT 3~ Adaptive 461

Duty Analysis



Operating characteristics

Pumps / Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre
-----------------	------	------	-------------	------	------	-------------	-----------	-----------------	--------

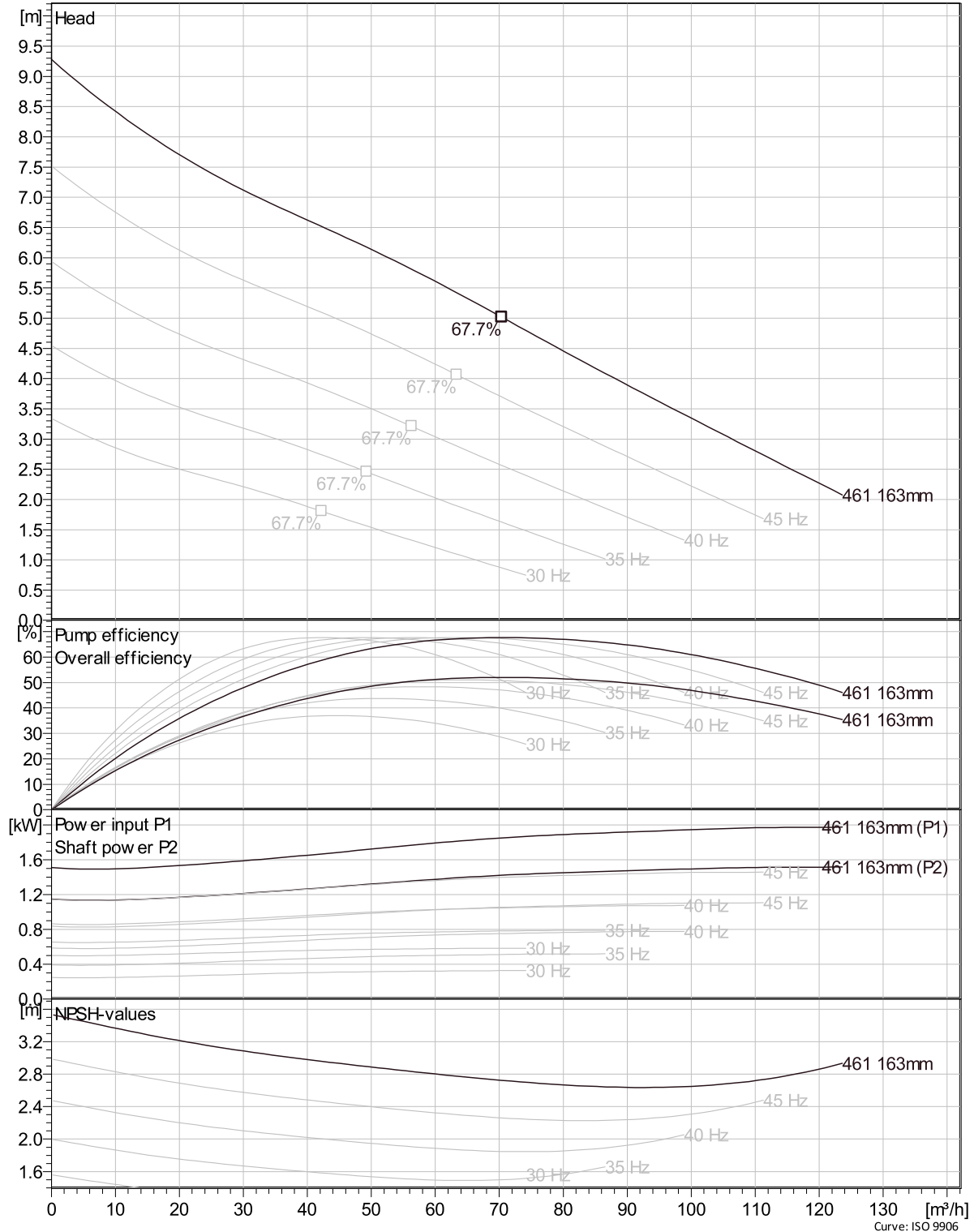
Project	Created by	Last update	11/5/2020
Block	Created on	11/5/2020	

NP 3085 MT 3~ Adaptive 461

VFD Curve



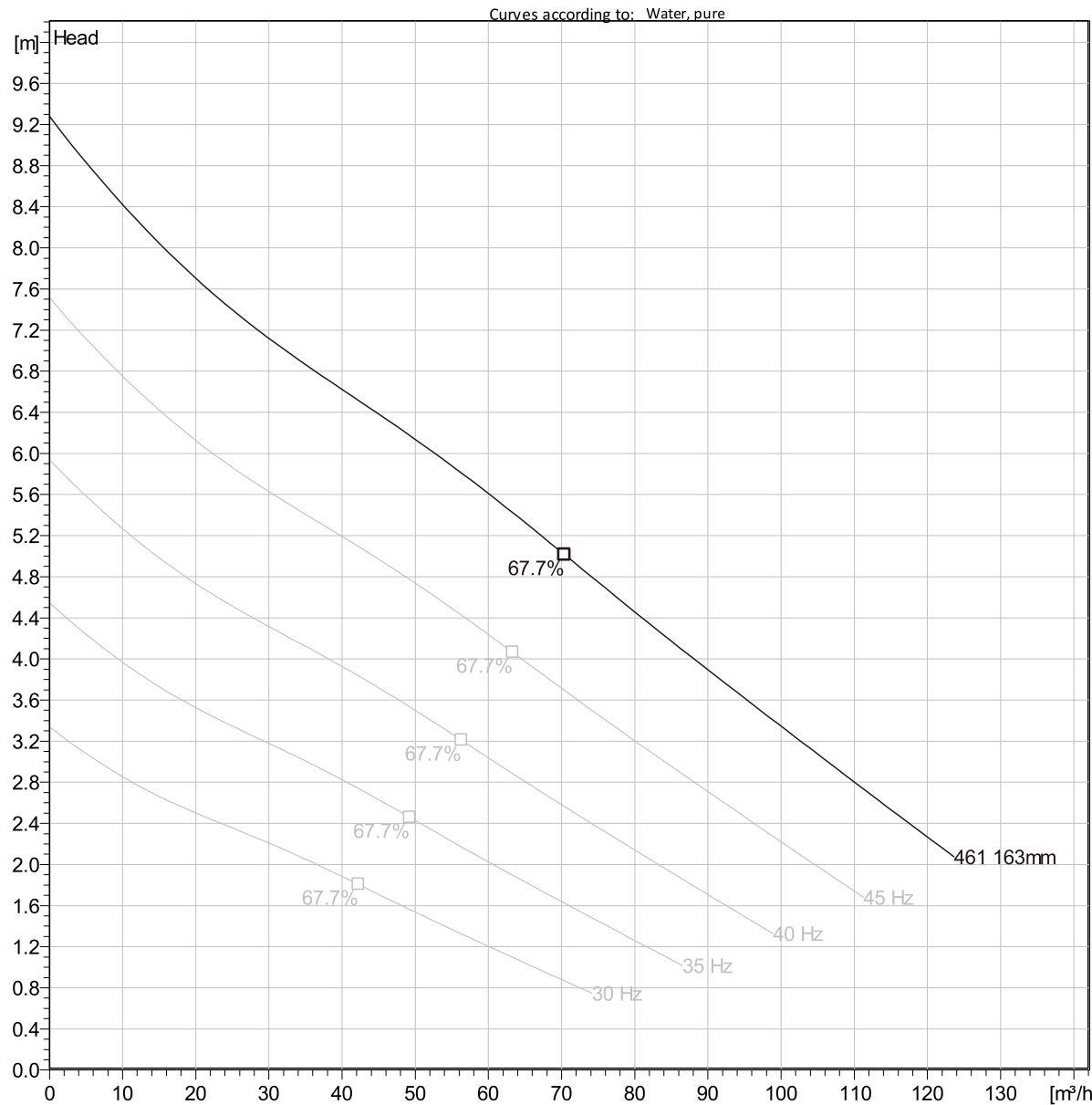
Curves according to: Water, pure, 4 °C, 999.9 kg/m³, 1.5692 mm²/s



Project	Created by	Last update	11/5/2020
Block	Created on		

NP 3085 MT 3~ Adaptive 461

VFD Analysis



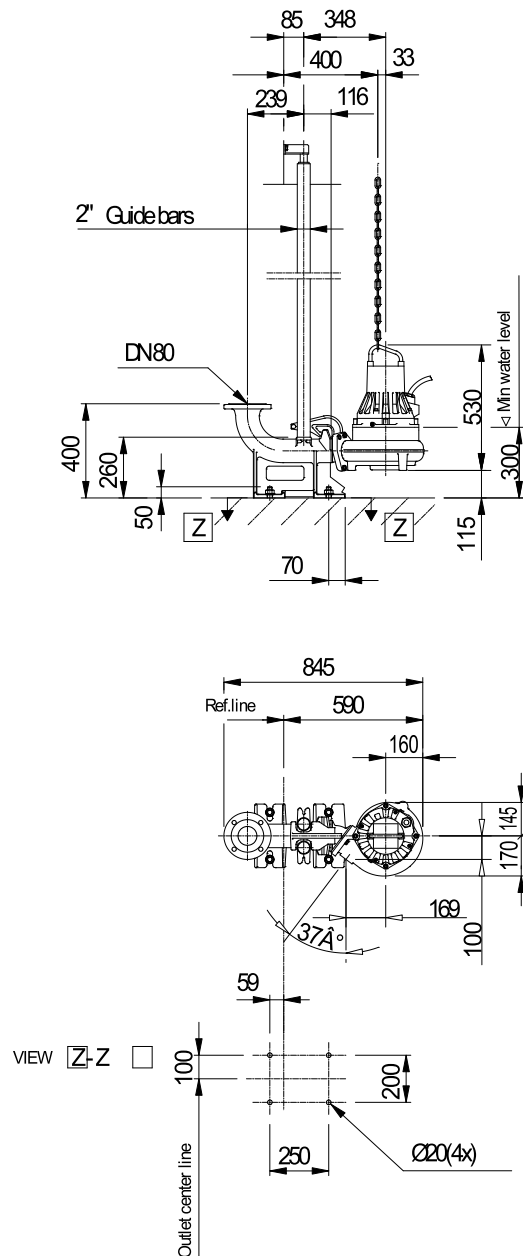
Operating characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHre
-----------------	-----------	------	------	-------------	------	------	-------------	-----------	-----------------	--------

Project	Created by	Last update	11/5/2020
Block	Created on	11/5/2020	

NP 3085 MT 3~ Adaptive 461

Dimensional drawing



VIEW Z-Z



NP	3085	MT
----	------	----

Discharge outlet	DN 80
Pump outlet	
Pump inlet	
Suction inlet	

Weight (kg)	
Pump	Disch
69	35
Scale	Date
1:20	181122
Drawing number	Revision
6601900	4

Project
Block

Created by
Created on 11/5/2020

Last update

11/5/2020