

Project	Project ID	Created by	Created on	Last update
			2016-04-19	

FP 3153 HT 3~ 455

Performance curve



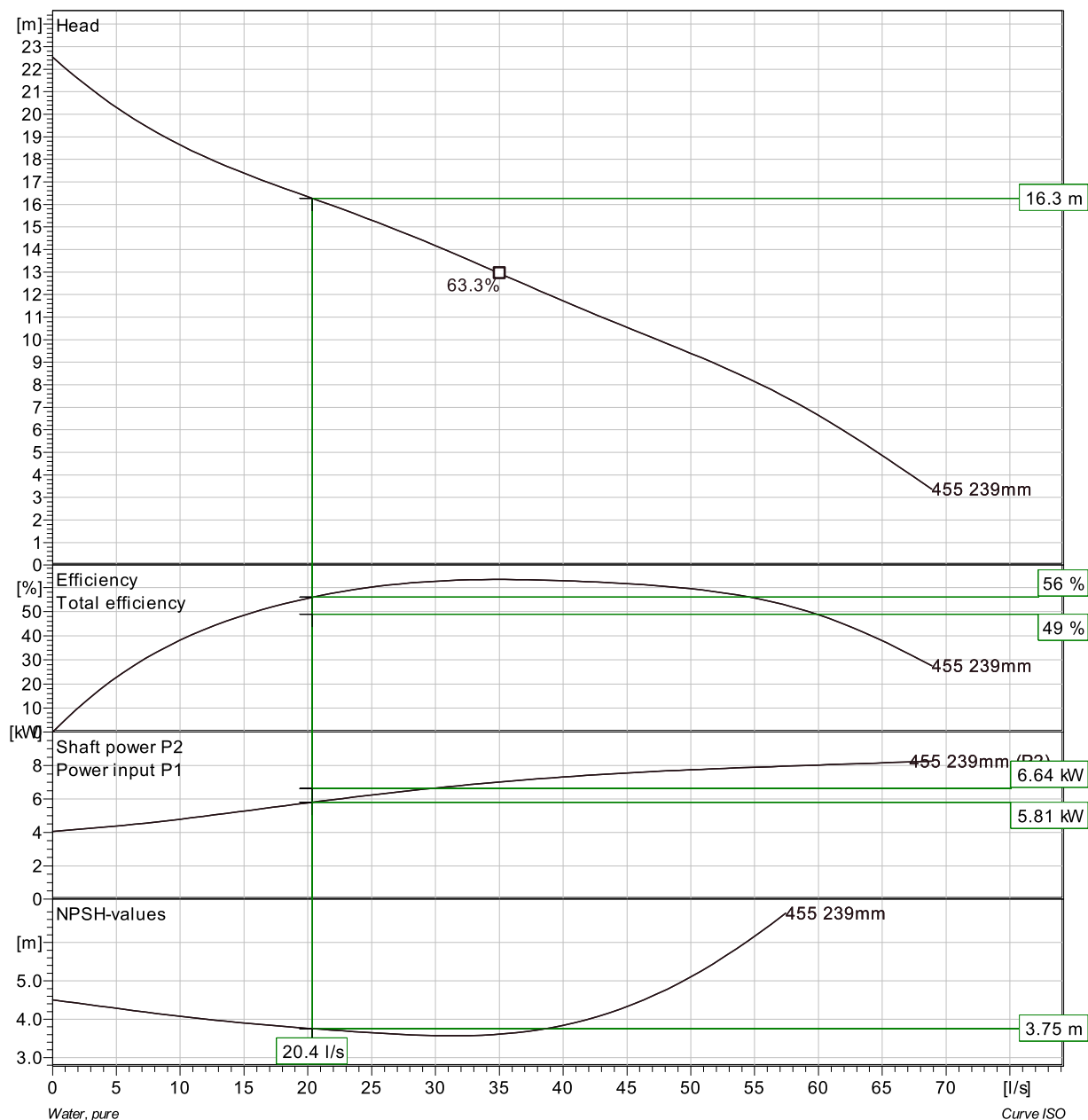
Pump

Discharge Flange Diameter 100 mm
Inlet diameter 100 mm
Impeller diameter 239 mm
Number of blades 2

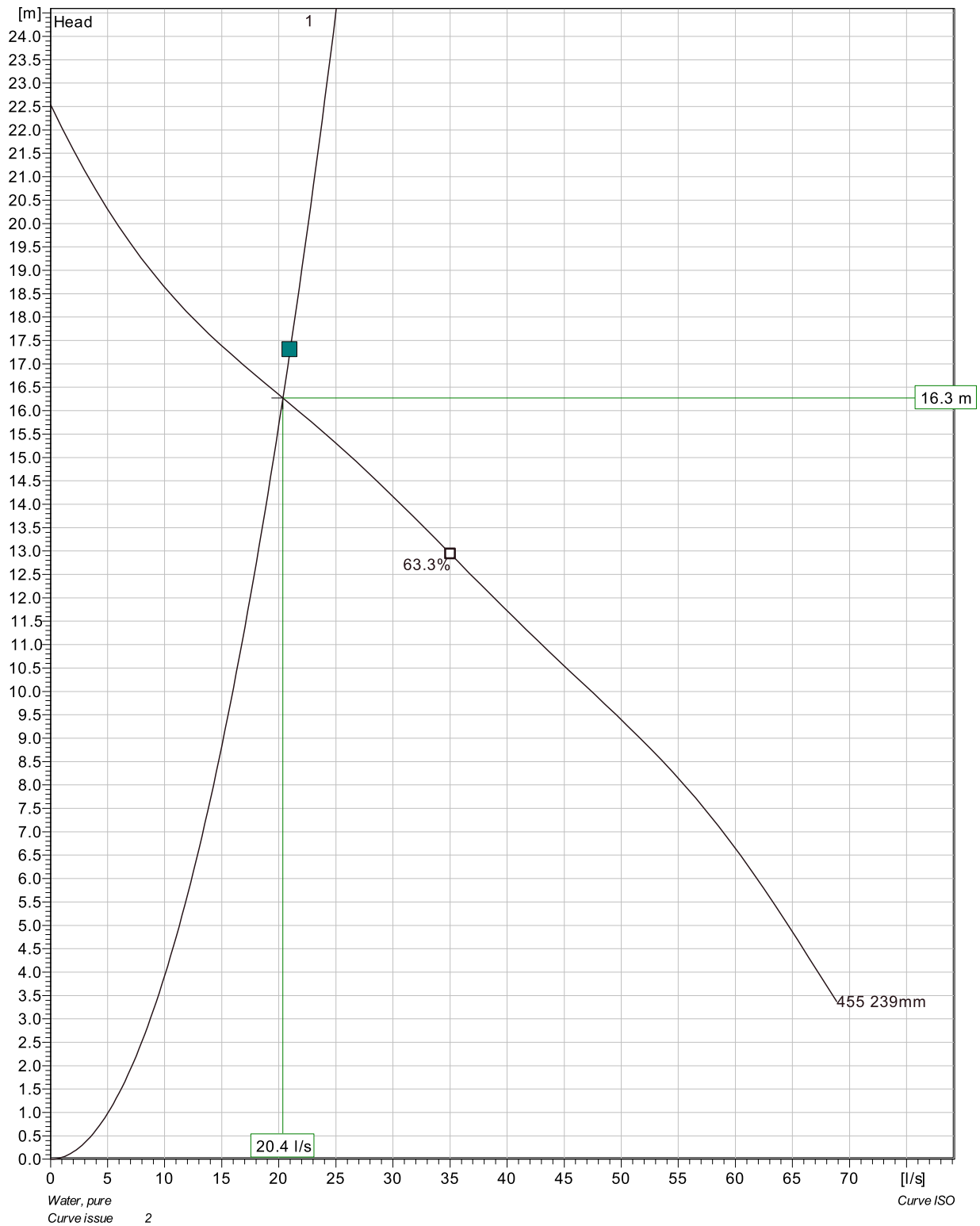
Motor

Motor # F3153.350 21-15-4AA-W 9KW
Stator variant 2
Frequency 50 Hz
Rated voltage 400 V
Number of poles 4
Phases 3~
Rated power 9 kW
Rated current 19 A
Starting current 105 A
Rated speed 1460 1/min

Power factor
1/1 Load 0.81
3/4 Load 0.75
1/2 Load 0.62
Efficiency
1/1 Load 86.0 %
3/4 Load 87.0 %
1/2 Load 86.5 %



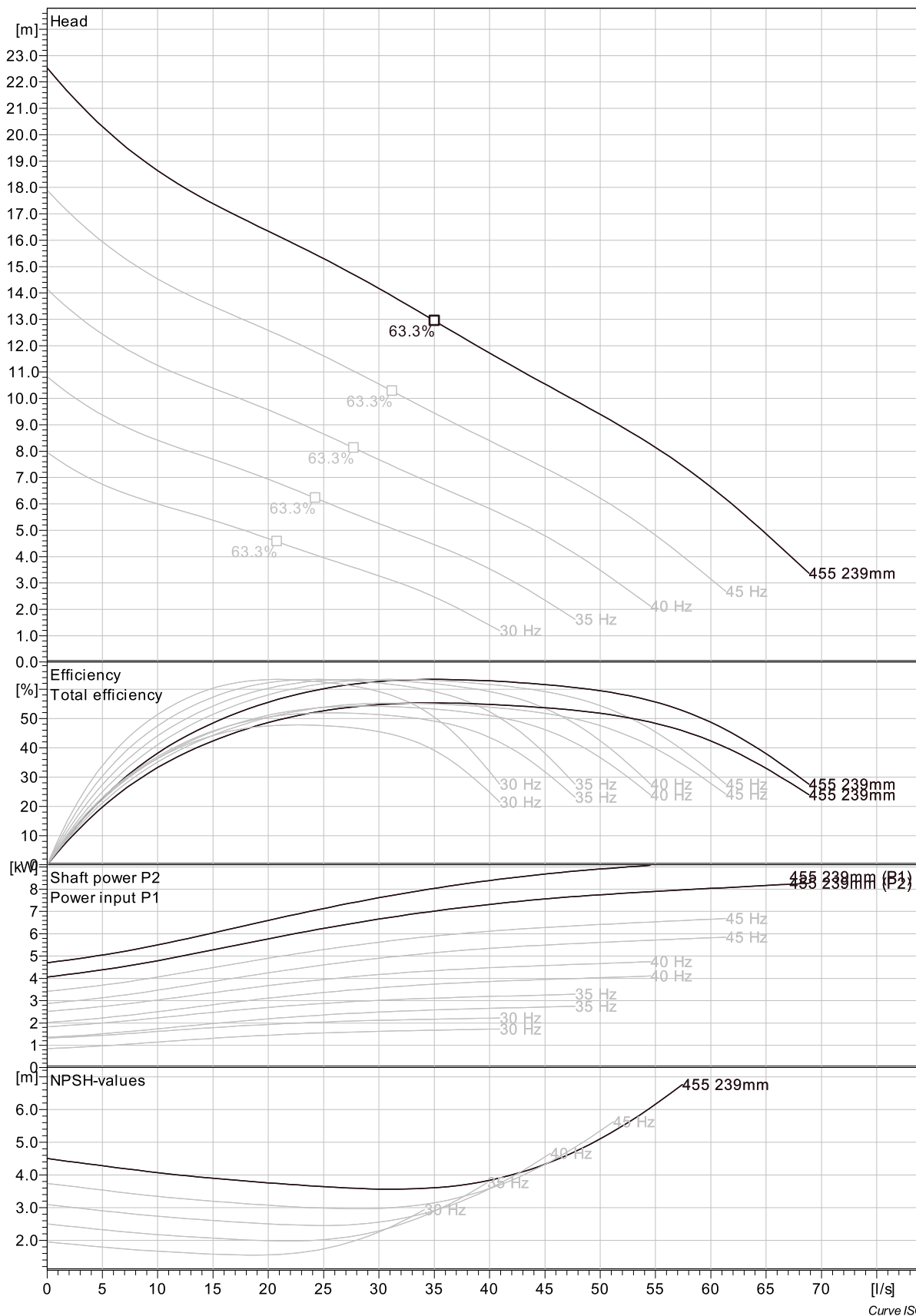
FP 3153 HT 3~ 455 Duty Analysis



Pumps running /System	Individual pump			Total			Pump eff.	Specific energy	NPSHre
	Flow	Head	Shaft power	Flow	Head	Shaft power			
1	20.4 l/s	16.3 m	5.81 kW	20.4 l/s	16.3 m	5.81 kW	56 %	0.0906 kWh/m³	3.75 m

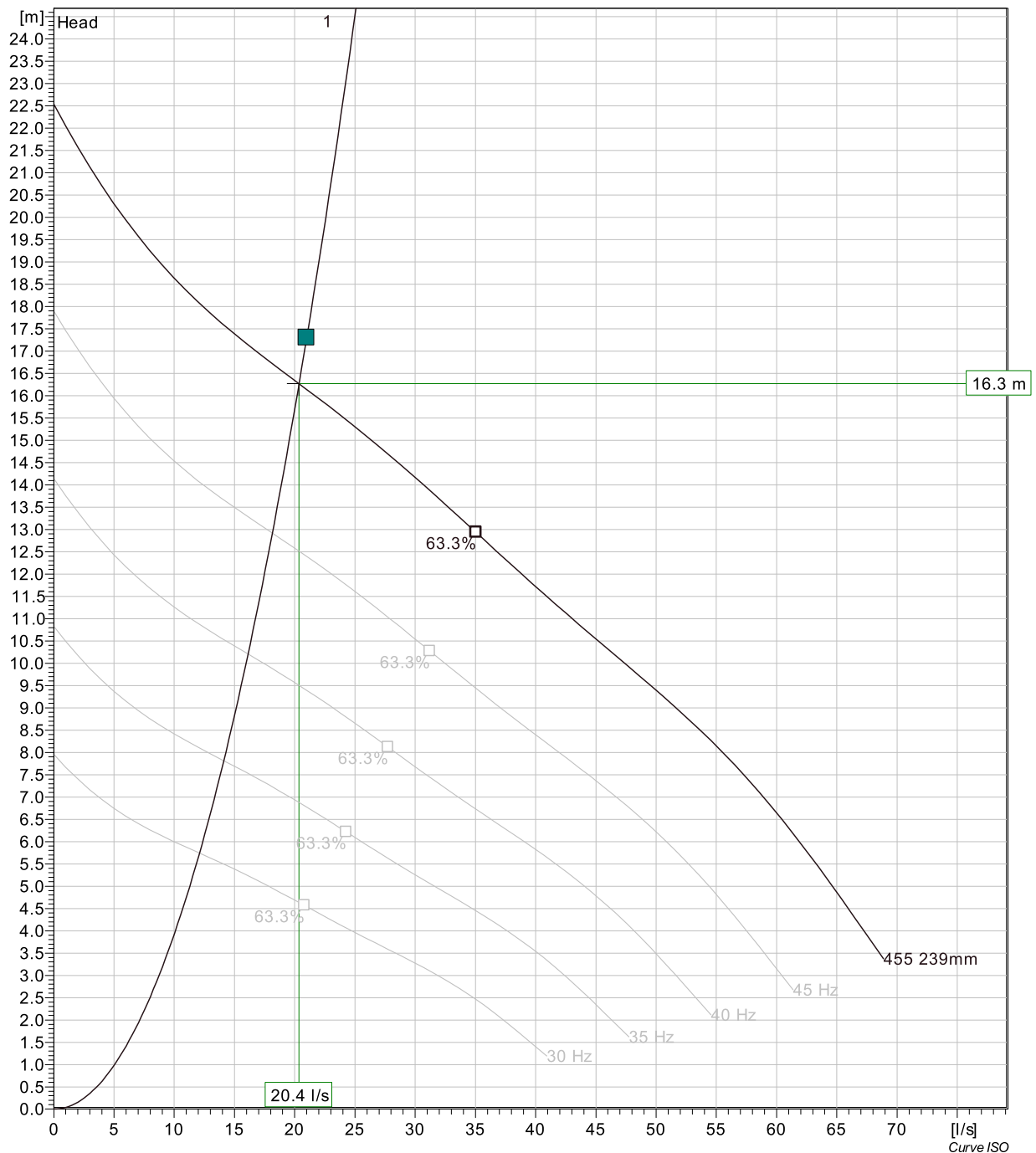
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FP 3153 HT 3~ 455 VFD Curve



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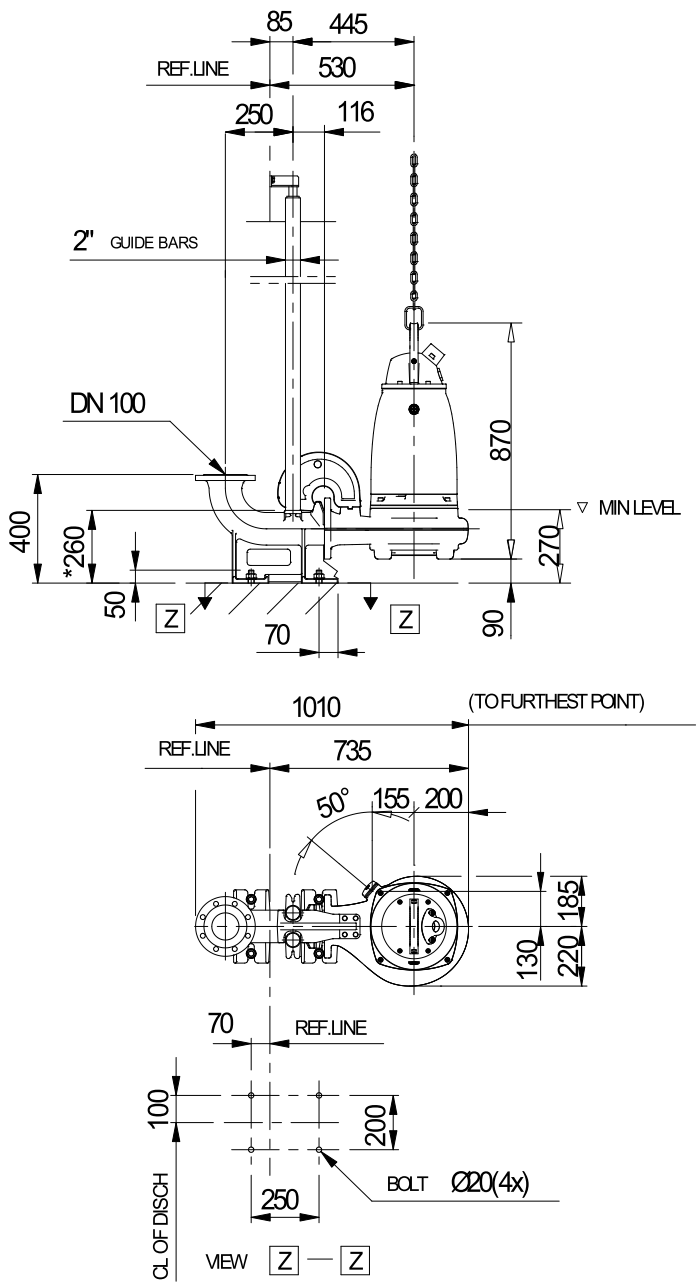
FP 3153 HT 3~ 455 VFD Analysis



Pumps running /System	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hyd eff.	Specific energy	NPSHre
1	50 Hz	20.4 l/s	16.3 m	5.81 kW	20.4 l/s	16.3 m	5.81 kW	56 %	0.0906 kWh/m ³	3.75 m
1	45 Hz	18.1 l/s	12.9 m	4.11 kW	18.1 l/s	12.9 m	4.11 kW	56 %	0.0727 kWh/m ³	3.12 m
1	40 Hz	16.1 l/s	10.2 m	2.89 kW	16.1 l/s	10.2 m	2.89 kW	56 %	0.0591 kWh/m ³	2.58 m
1	35 Hz	14.1 l/s	7.81 m	1.93 kW	14.1 l/s	7.81 m	1.93 kW	56 %	0.0479 kWh/m ³	2.09 m
1	30 Hz	12.1 l/s	5.74 m	1.22 kW	12.1 l/s	5.74 m	1.22 kW	56 %	0.0389 kWh/m ³	1.63 m

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FP 3153 HT 3~ 455
Dimensional drawing



* DIMENSION TO ENDS OF GUIDE BARS

Weight

Dimensional dwg
NP,FP3153HT

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