

8111.281 Sandy N 3~

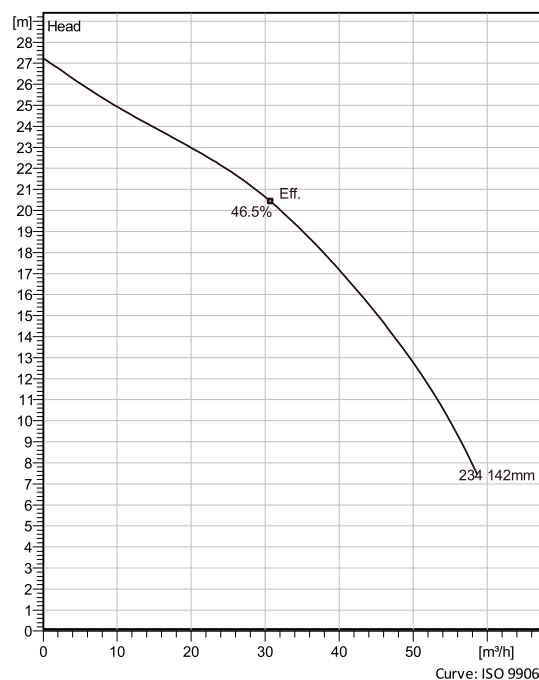
Grindex sludge pumps are designed for professional use in tough applications like mines, construction sites, tunnel sites and other demanding industries. They are designed for pumping water with high content of solids, up to the size of 80 mm. The pumps are designed for continuous, unattended operation. They have proven their reliability and dependable performance in demanding areas like building and construction, mining, tunnelling, quarries, industries, car washes and rental applications.



Technical specification



Curves according to: Water [100%], 4 °C, 999.9 kg/m³, 1.569 mm²/s



Curve: ISO 9906

Configuration

Motor number	Installation type
D8111.281 15-14-2BB-W	S - Portable Semi permanent, Wet
5.6KW	
Impeller diameter	Discharge diameter
142 mm	80 mm

Pump information

Impeller diameter
142 mm
Discharge diameter
80 mm
Inlet diameter
80 mm
Maximum operating speed
2880 rpm
Number of blades
6

Materials

Impeller
Hard-Iron
Stator housing material
Aluminium

Project

Block

0

Created by

Created on

5/13/2020

Last update

8111.281 Sandy N 3~

Technical specification



Motor - General

Motor number D8111.281 15-14-2BB-W 5.6KW	Phases 3~	Rated speed 2880 rpm	Rated power 5.6 kW
ATEX approved No	Number of poles 2	Rated current 19 A	Stator variant 5
Frequency 50 Hz	Rated voltage 220 V	Insulation class H	Type of Duty S1

Motor - Technical

Power factor - 1/1 Load 0.93	Motor efficiency - 1/1 Load 84.0 %	Total moment of inertia 0.0071 kg m ²	Starts per hour max. 30
Power factor - 3/4 Load 0.89	Motor efficiency - 3/4 Load 85.5 %	Starting current, direct starting 123 A	
Power factor - 1/2 Load 0.81	Motor efficiency - 1/2 Load 86.0 %	Starting current, star-delta 41 A	

Project

Block 0

Created by

Created on 5/13/2020

Last update

8111.281 Sandy N 3~

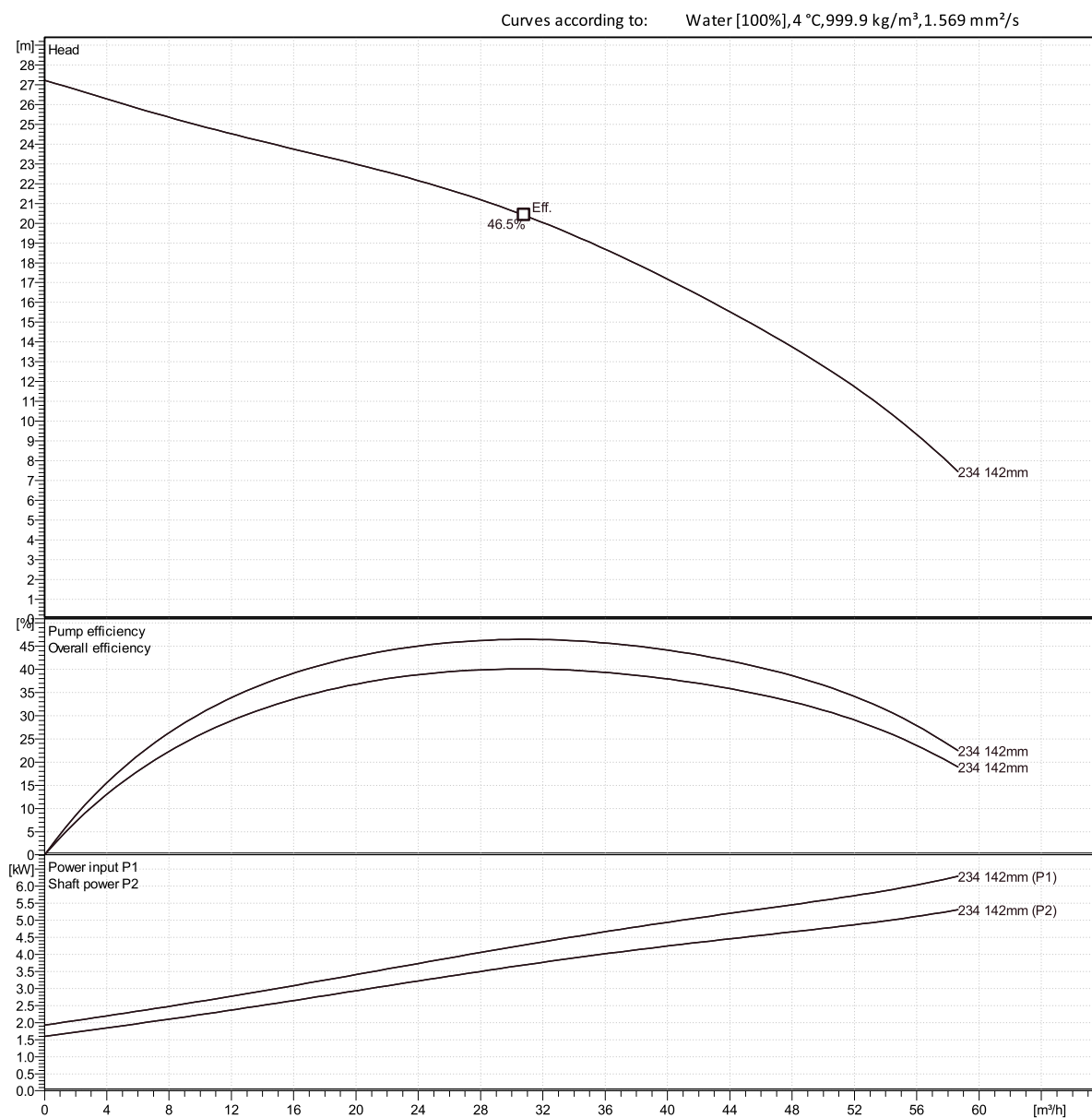
Performance curve



Duty point

Flow

Head



Curve: ISO 9906

Project

Block 0

Created by

Created on 5/13/2020

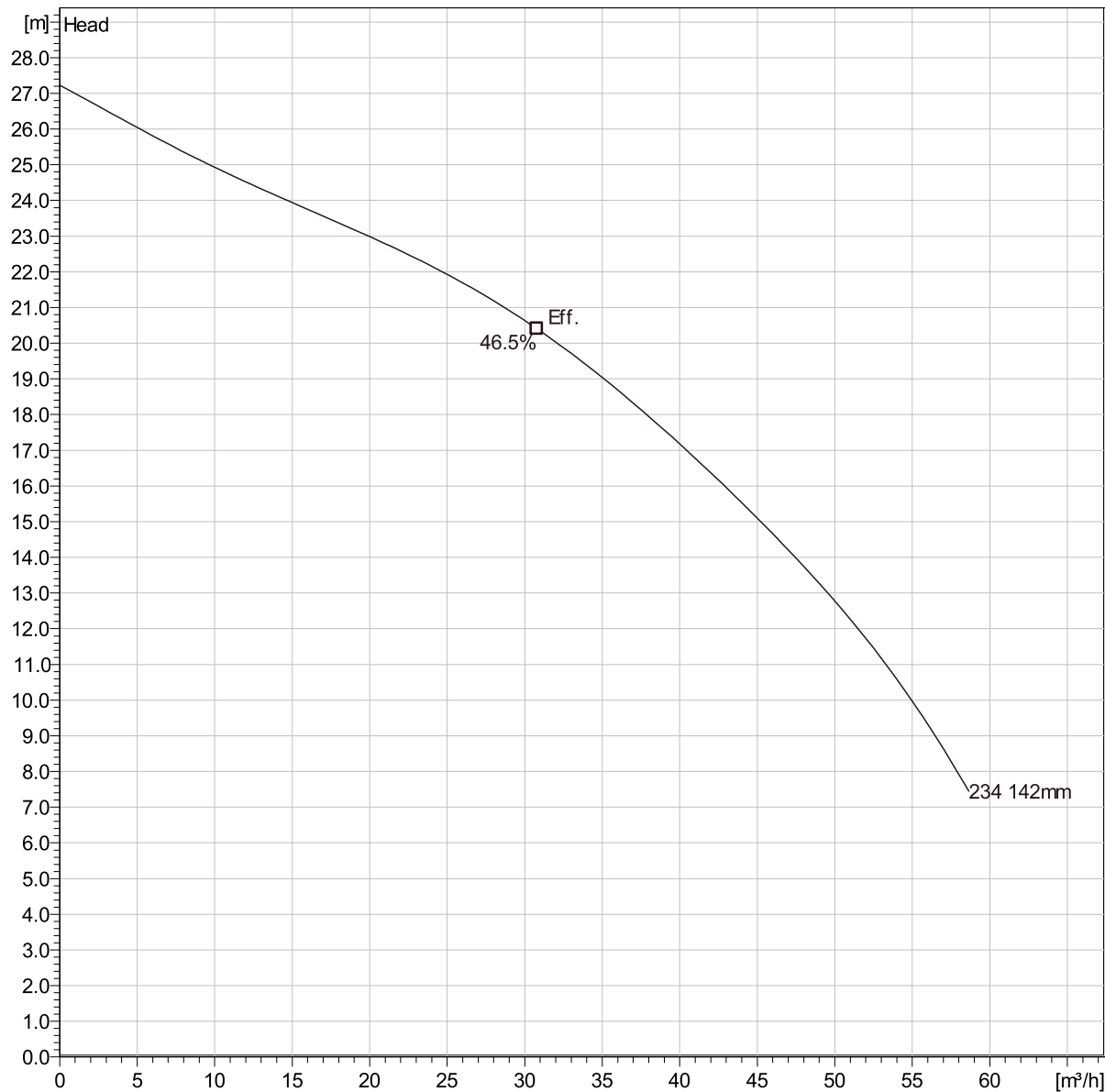
Last update

8111.281 Sandy N 3~

Duty Analysis



Curves according to: Water [100%], 4 °C, 999.9 kg/m³, 1.569 mm²/s



Curve: ISO 9906

Operating characteristics

Pumps/Syste ms	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHr
-------------------	------	------	-------------	------	------	-------------	-----------	--------------------	-------

Project

Block

0

Created by

Created on

5/13/2020

Last update

8111.281 Sandy N 3~

Dimensional drawing



Project		Created by		Last update	
Block	0	Created on	5/13/2020		