

8103.181 Minor N 3~

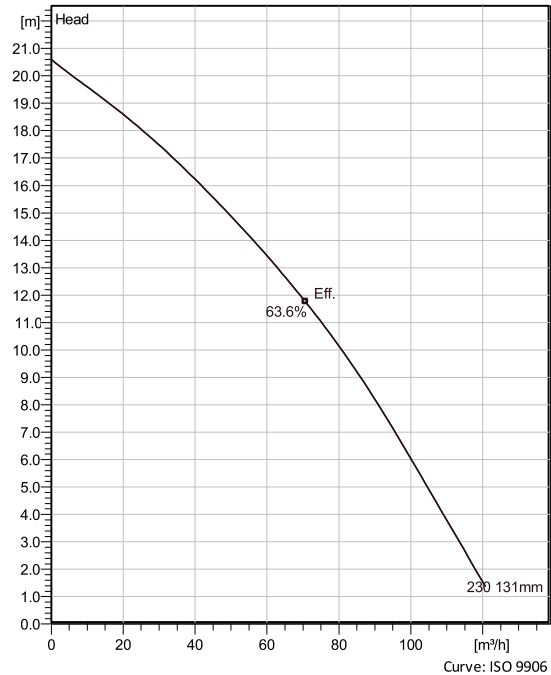
Grindex drainage pumps are designed for professional use in tough applications like mines, construction sites, tunnel sites and other demanding industries. They are designed for pumping water that may contain solids – up to the size of the strainer holes. Grindex drainage pumps are designed for continuous, unattended operation. They have proven their reliability and dependable performance in demanding areas like building and construction, mining, tunnelling, quarries, industries and rental applications.



Technical specification



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



Configuration

<b>Motor number</b> B8103.181 15-12-2BB-W 3.7KW	<b>Installation type</b> S - Portable Semi permanent, Wet
<b>Impeller diameter</b> 131 mm	<b>Discharge diameter</b> 100 mm

Pump information

<b>Impeller diameter</b> 131 mm
<b>Discharge diameter</b> 100 mm
<b>Inlet diameter</b> 90 mm
<b>Maximum operating speed</b> 2855 rpm
<b>Number of blades</b> 2

Materials

<b>Impeller</b> Hard-Iron
<b>Stator housing material</b> Aluminium

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

## 8103.181 Minor N 3~

### Technical specification



#### Motor - General

<b>Motor number</b> B8103.181 15-12-2BB-W 3.7KW	<b>Phases</b> 3~	<b>Rated speed</b> 2855 rpm	<b>Rated power</b> 3.7 kW
<b>ATEX approved</b> No	<b>Number of poles</b> 2	<b>Rated current</b> 13 A	<b>Stator variant</b> 5
<b>Frequency</b> 50 Hz	<b>Rated voltage</b> 220 V	<b>Insulation class</b> H	<b>Type of Duty</b> S1

#### Motor - Technical

<b>Power factor - 1/1 Load</b> 0.92	<b>Motor efficiency - 1/1 Load</b> 83.2 %	<b>Total moment of inertia</b> 0.0097 kg m <sup>2</sup>	<b>Starts per hour max.</b> 30
<b>Power factor - 3/4 Load</b> 0.88	<b>Motor efficiency - 3/4 Load</b> 85.5 %	<b>Starting current, direct starting</b> 80 A	
<b>Power factor - 1/2 Load</b> 0.78	<b>Motor efficiency - 1/2 Load</b> 86.2 %	<b>Starting current, star-delta</b> 26.6 A	

Project

Block 0

Created by

Created on 5/13/2020

Last update

8103.181 Minor N 3~

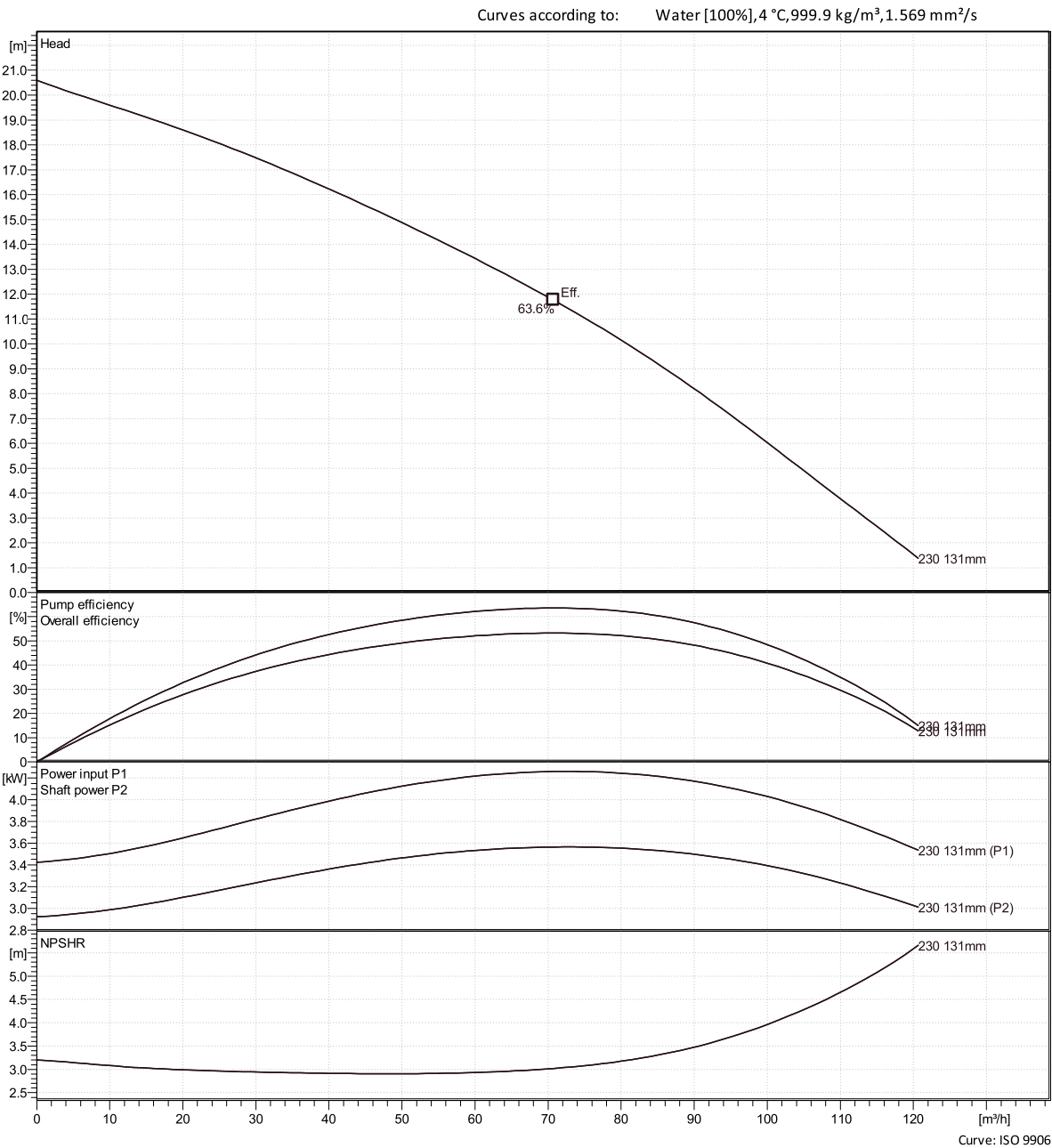
Performance curve



Duty point

Flow

Head



Project

Block

0

Created by

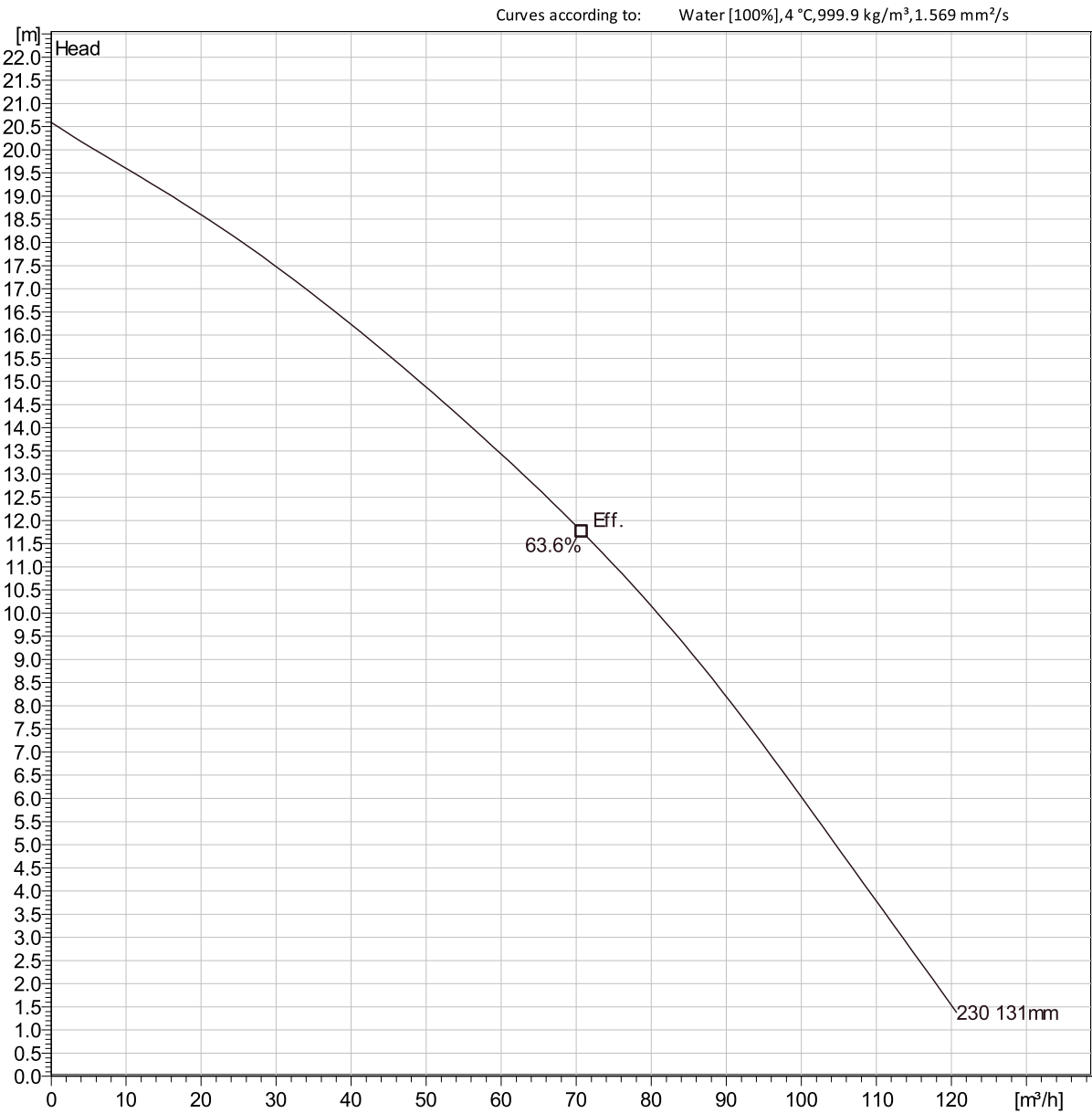
Created on

5/13/2020

Last update

8103.181 Minor N 3~

Duty Analysis



Curve: ISO 9906

Operating characteristics

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

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