

8121.211 Micro 1~

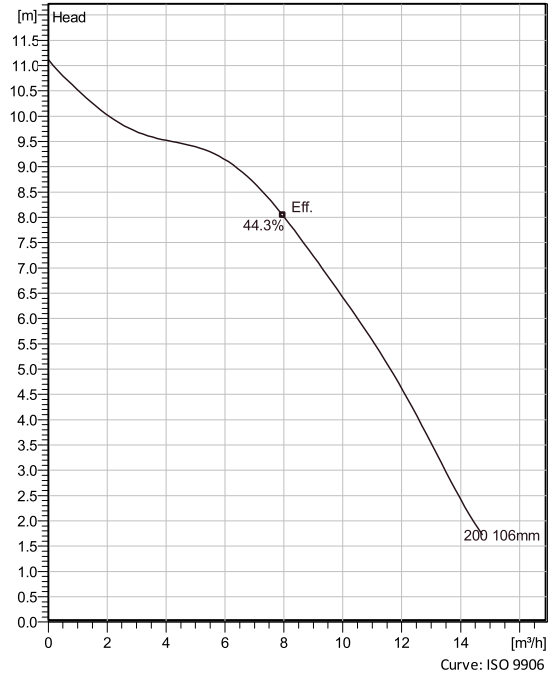
Grindex drainage pumps are designed for professional use in tough applications like mines, construction sites, tunnel sites and other demanding industries. They are designed for pumping water that may contain solids – up to the size of the strainer holes. Grindex drainage pumps are designed for continuous, 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, pure [100%], 4 °C, 1000 kg/m³, 1.569 mm²/s



Configuration

Motor number B8121.211 12-05-2BB-W 0.42KW	Installation type S - Portable Semi permanent, Wet
Impeller diameter 106 mm	Discharge diameter 50 mm

Pump information

Impeller diameter 106 mm
Discharge diameter 50 mm
Inlet diameter
Maximum operating speed 2795 rpm
Number of blades 8

Materials

Impeller Thermoplastic polyurethane

Project	Created by	Last update	8/30/2022
Block 0	Created on 8/30/2022		

8121.211 Micro 1~

Technical specification



Motor - General

Motor number B8121.211 12-05-2BB-W 0.42KW	Phases 1~	Rated speed 2795 rpm	Rated power 0.42 kW
Approval No	Number of poles 2	Rated current 5.1 A	Stator variant 1
Frequency 50 Hz	Rated voltage 115 V	Insulation class F	Type of Duty S1

Motor - Technical

Power factor - 1/1 Load 0.99	Motor efficiency - 1/1 Load 71.7 %	Total moment of inertia 0.001 kg m ²	Starts per hour max. 30
Power factor - 3/4 Load 0.99	Motor efficiency - 3/4 Load 71.4 %	Starting current, direct starting 19 A	
Power factor - 1/2 Load 0.98	Motor efficiency - 1/2 Load 65.6 %	Starting current, star-delta 6.34 A	

Project		Created by		Last update	8/30/2022
Block	0	Created on	8/30/2022		

8121.211 Micro 1~

Performance curve

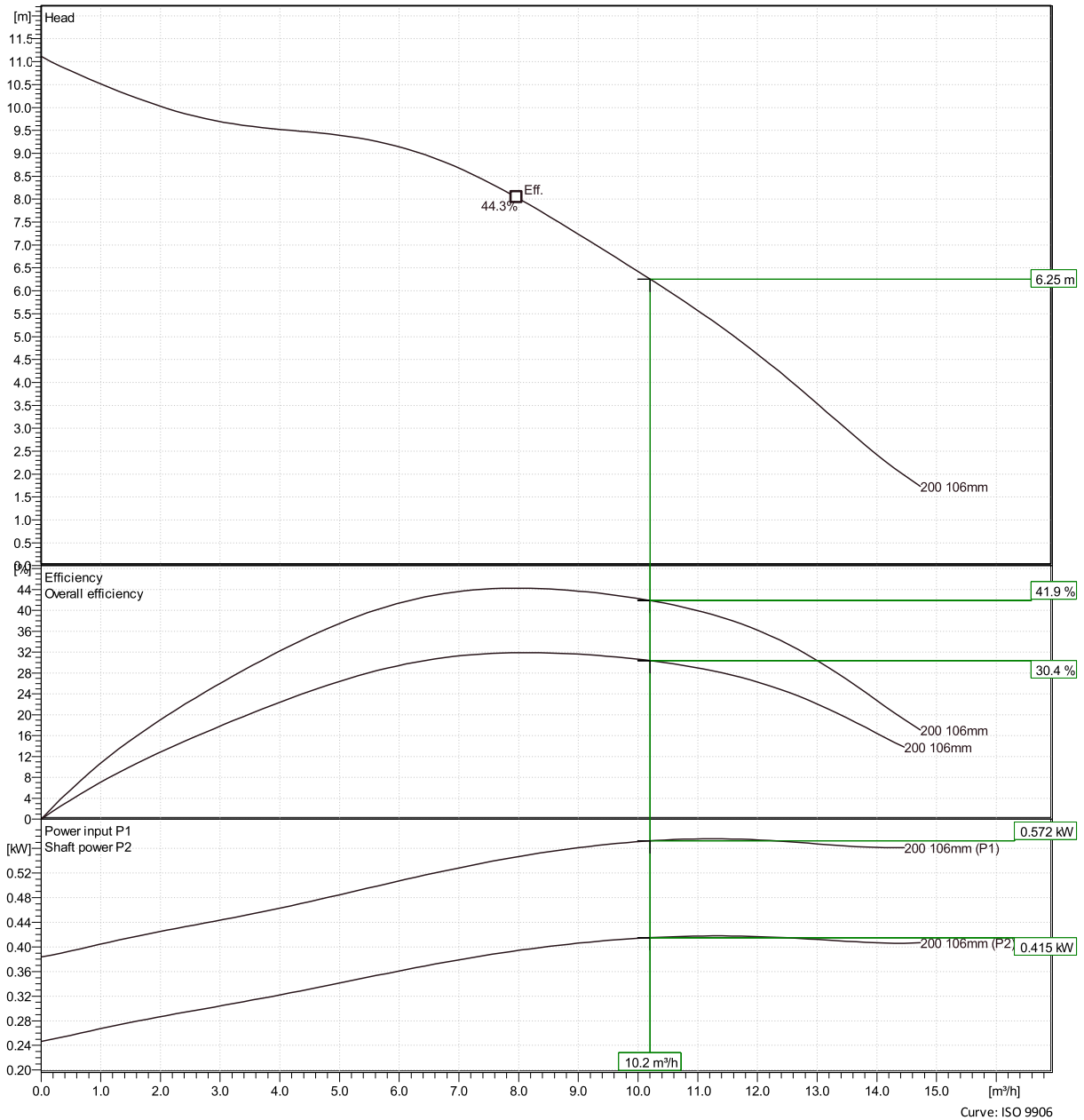


Duty point

Flow
10.2 m³/h

Head
6.25 m

Curves according to: Water, pure [100%], 4 °C, 1000 kg/m³, 1.569 mm²/s



Project

Block 0

Created by

Created on 8/30/2022

Last update

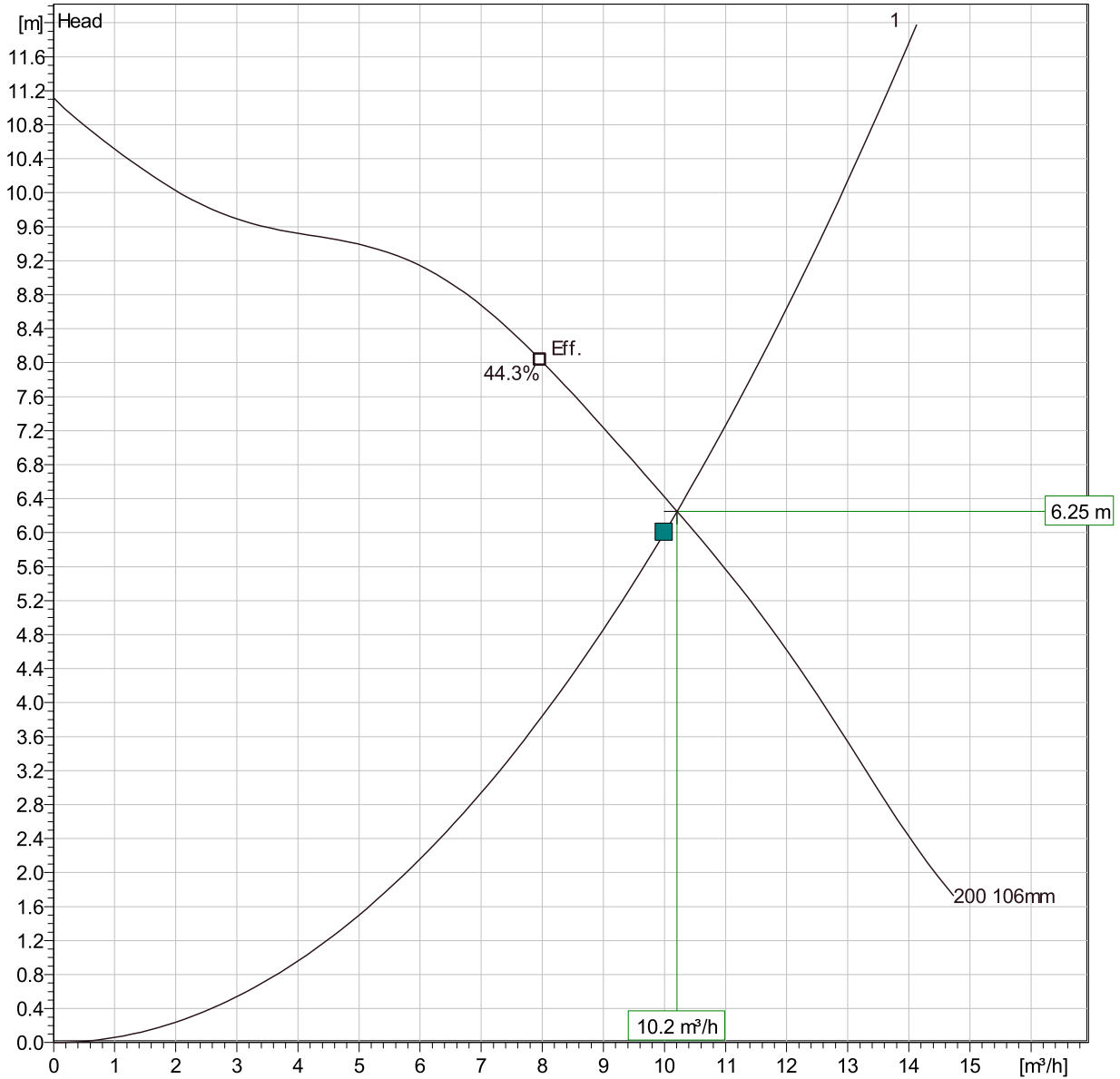
8/30/2022

8121.211 Micro 1~

Duty Analysis



Curves according to: Water, pure [100%], 4 °C, 1000 kg/m³, 1.569 mm²/s



Curve: ISO 9906

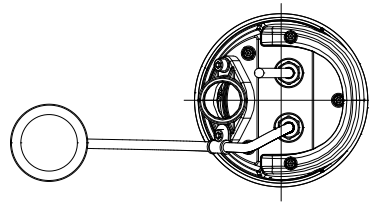
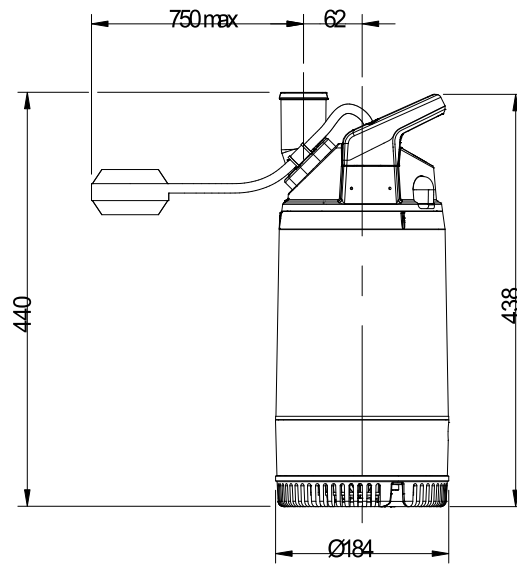
Operating characteristics

Pumps/Syste ms	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific Energy	NPSHr
1	10.2 m ³ /h	6.25 m	0.415 kW	10.2 m ³ /h	6.25 m	0.415 kW	41.9 %	0.0561 kWh/m ³	

Project		Created by		Last update	8/30/2022
Block	0	Created on	8/30/2022		

8121.211 Micro 1~

Dimensional drawing



Screen opening 35mm

Weight (kg)
Pump
12

ISO metric



Denomination
Dimensional drwg
BS 8121.211

Drawn by DS	Checked by	Date 120117
Scale 1:5	Reg no 5399	
7701600		0

Project
Block 0

Created by
Created on 8/30/2022

Last update 8/30/2022