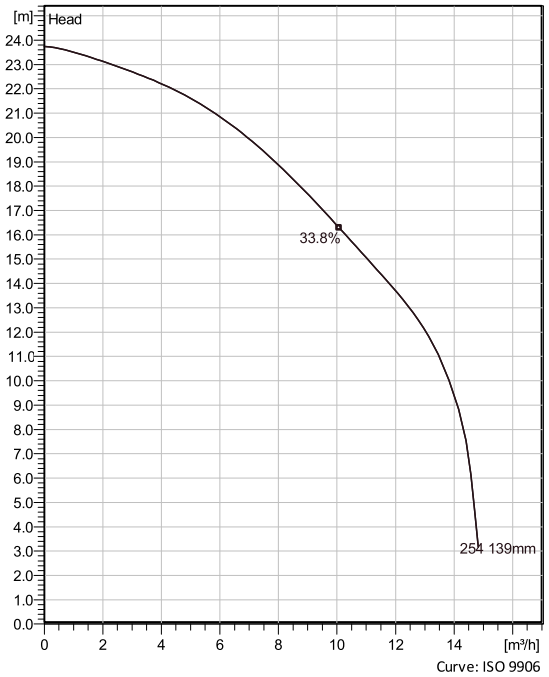
MF 3069 HT 3~ 254

Semi-open multi-channel impellers with integral grinder cutter in single volute casing for liquids containing solids and fibres.

Technical specification

Curves according to: Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



Curve: ISO 9906

Configuration

Motor number
M3069.170 13-08-2BB-W 1.7KW

Installation type
F - Free standing Semi permanent, Wet

Impeller diameter
139 mm

Discharge diameter
40 mm

Pump information

Impeller diameter
139 mm

Discharge diameter
40 mm

Inlet diameter
40 mm

Maximum operating speed
2700 rpm

Number of blades
5

Throughlet diameter
6 mm

Materials

Impeller
Grey cast iron

Stator housing material
Grey cast iron

Project	**Created by**	**Last update**
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MF 3069 HT 3~ 254

Technical specification

Motor - General

Motor number M3069.170 13-08-2BB-W 1.7KW	**Phases** 3~	**Rated speed** 2700 rpm	**Rated power** 1.7 kW
Approval No	**Number of poles** 2	**Rated current** 3.8 A	**Stator variant** 1
Frequency 50 Hz	**Rated voltage** 400 V	**Insulation class** F	**Type of Duty** S1

Motor - Technical

Power factor - 1/1 Load 0.87	**Motor efficiency - 1/1 Load** 75.2 %	**Total moment of inertia** 0.0029 kg m²	**Starts per hour max.** 15
Power factor - 3/4 Load 0.81	**Motor efficiency - 3/4 Load** 78.8 %	**Starting current, direct starting** 17 A	
Power factor - 1/2 Load 0.70	**Motor efficiency - 1/2 Load** 79.6 %	**Starting current, star-delta** 5.66 A	

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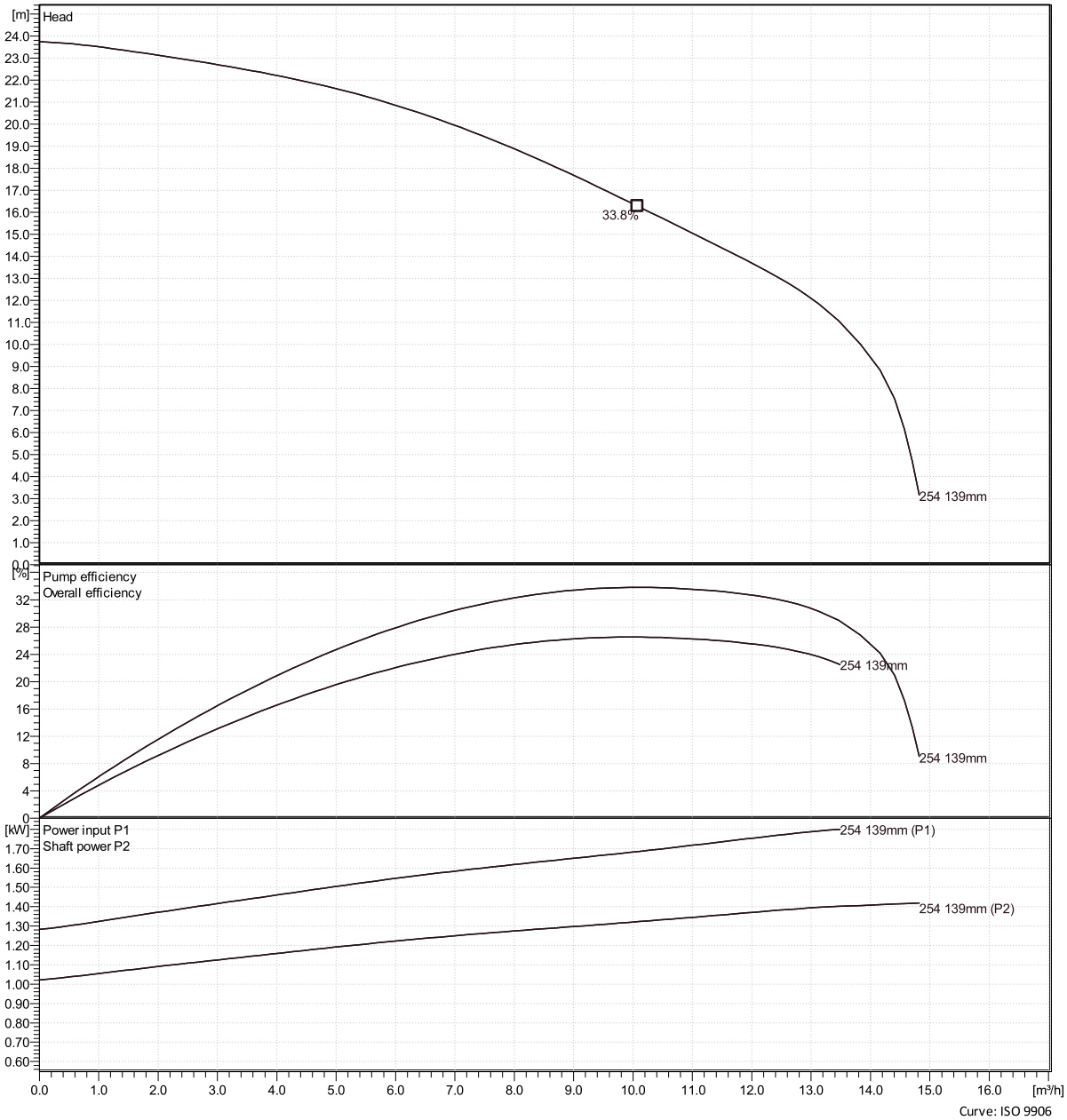
Performance curve

Duty point

Flow	Head

Curves according to: Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



Curve: ISO 9906

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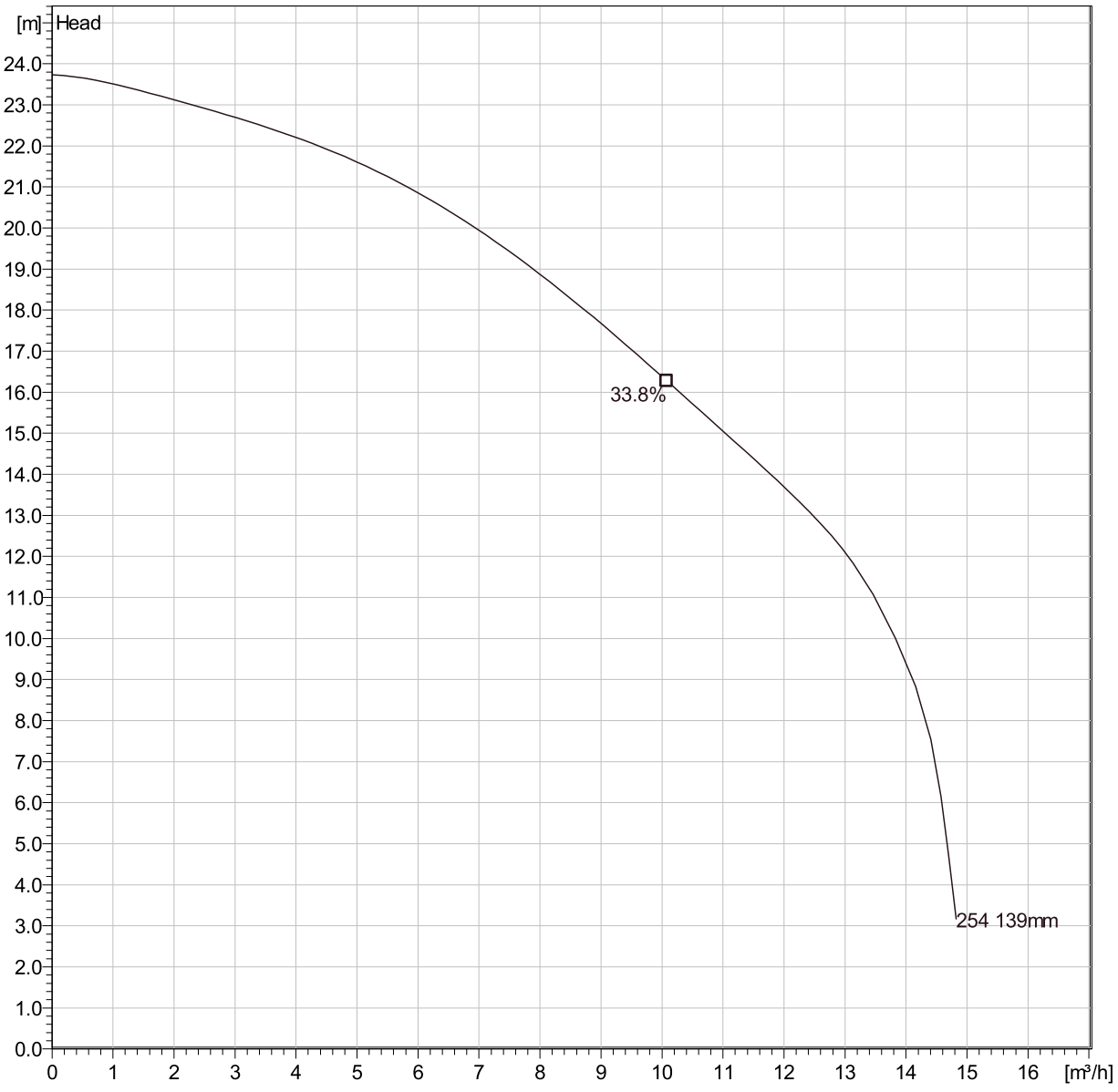
MF 3069 HT 3~ 254

Duty Analysis

Curves according to: Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



Curve: ISO 9906

Operating characteristics

Pumps/Systems	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific energy	NPSHr

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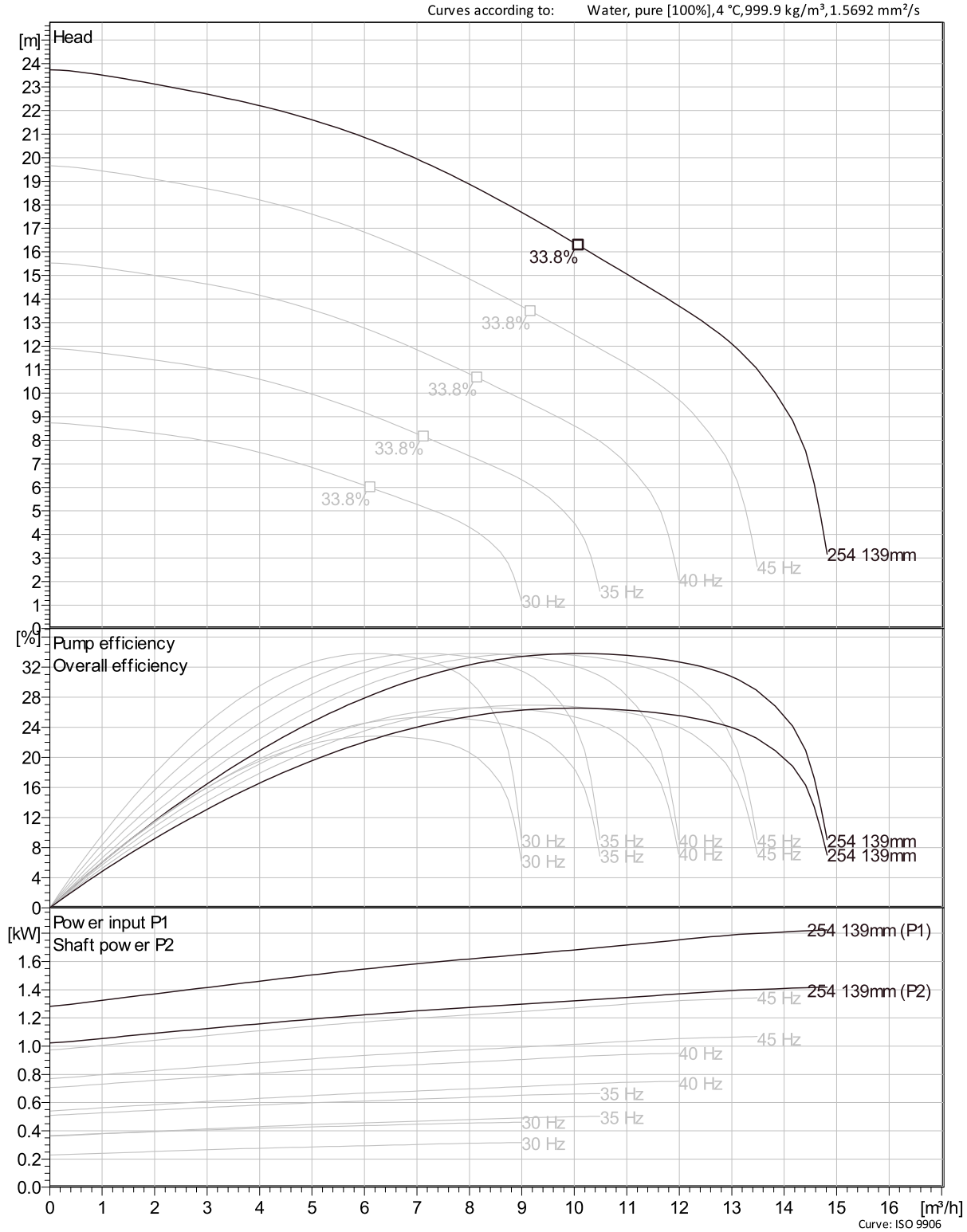
MF 3069 HT 3~ 254

VFD Curve

FLYGT
a xylem brand

Curves according to: Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



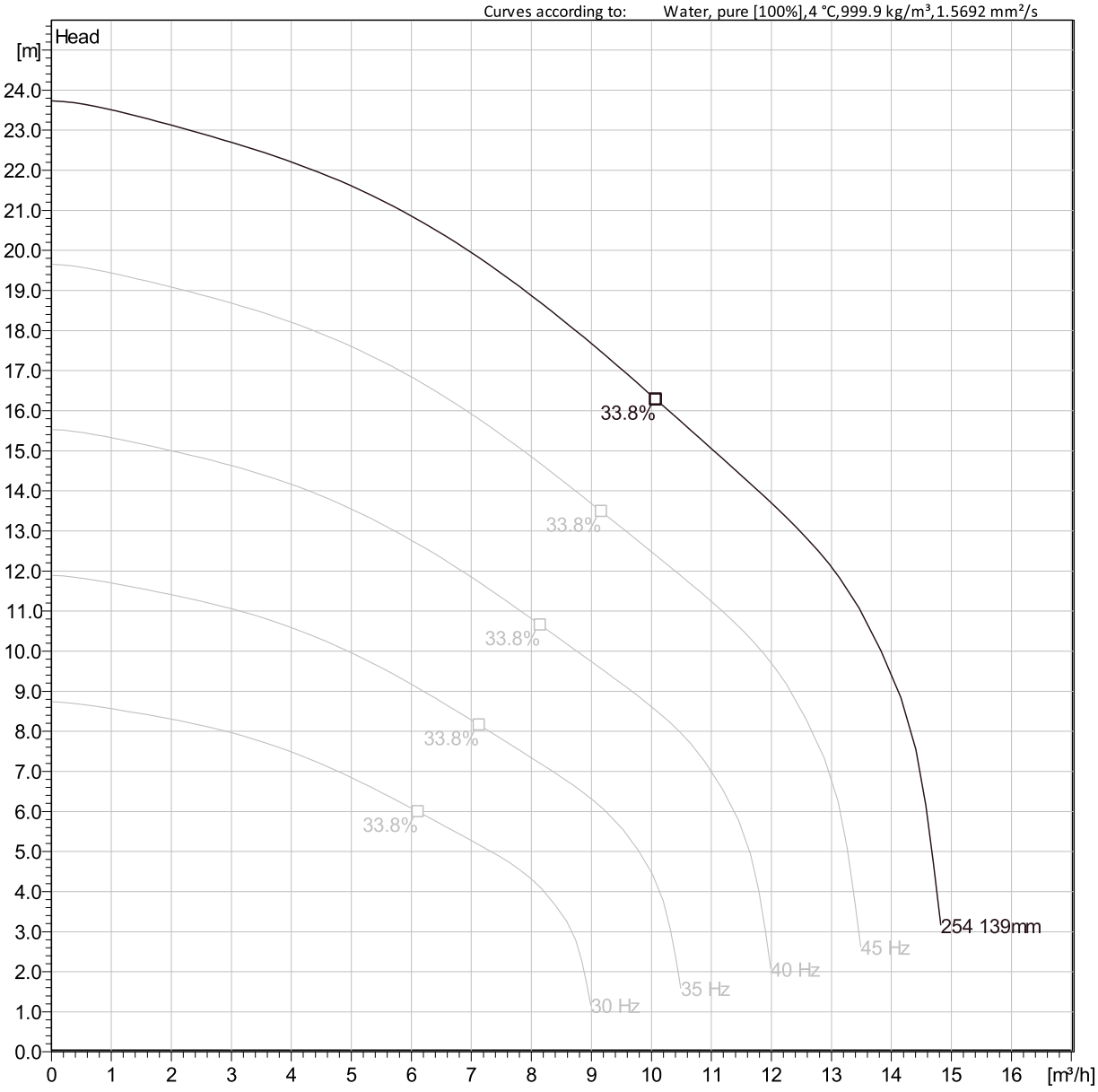
Curve: ISO 9906

Project	**Created by**	**Last update**
Block	**Created on** 1/14/2020	

MF 3069 HT 3~ 254

VFD Analysis

Curves according to: Water, pure [100%],4 °C,999.9 kg/m³,1.5692 mm²/s



Curve: ISO 9906

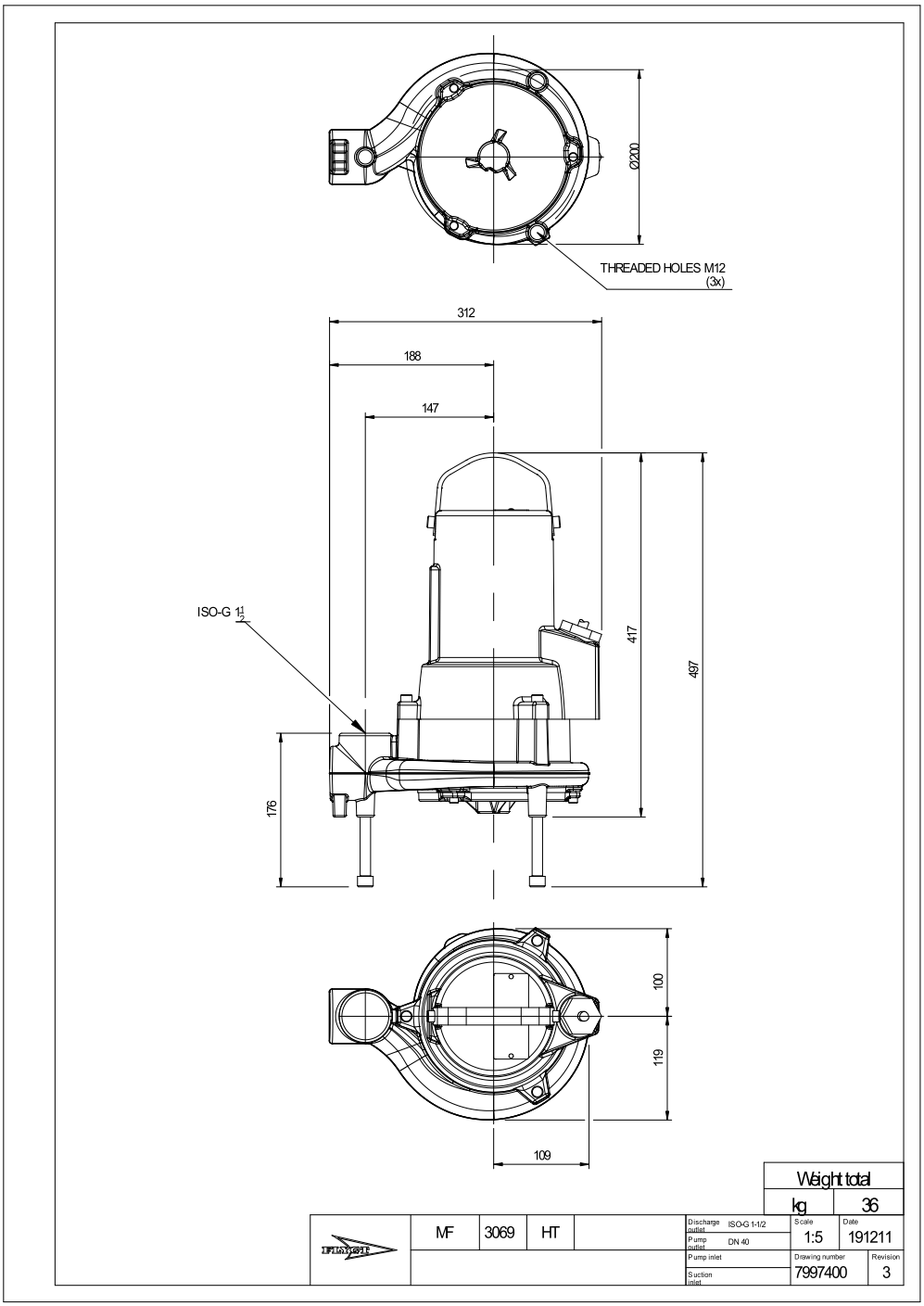
Operating Characteristics

Pumps/Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific energy	NPSHr

Project	**Created by**		**Last update**
Block	**Created on**	1/14/2020	

MF 3069 HT 3~ 254

Dimensional Drawing



Project	**Created by**	**Last update**
Block	**Created on** 1/14/2020	