

DS 3080 ST 3~ 263

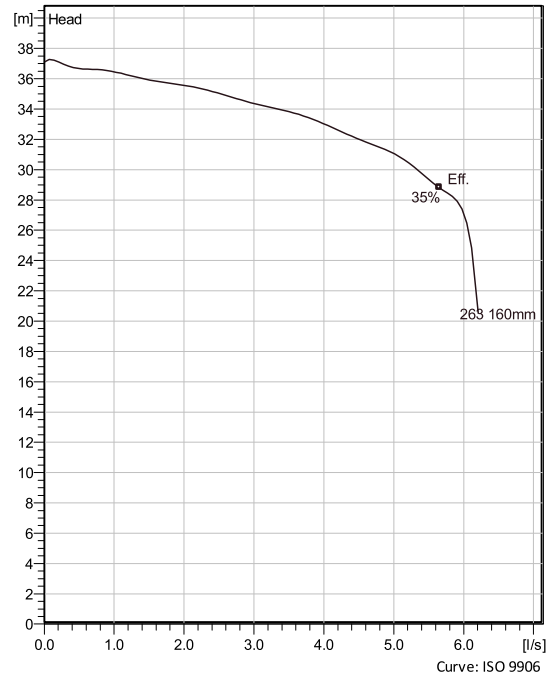
Portable pumps with vortex impellers ideal for applications in which the water or liquid contains concentrations of abrasives when clogging problems can occur.



Technical specification



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



Configuration

Motor number D3080.311 17-11-2AA-W 5.5KW	Installation type S - Portable Semi permanent, Wet
Impeller diameter 160 mm	Discharge diameter 50 mm

Pump information

Impeller diameter 160 mm
Discharge diameter 50 mm
Inlet diameter
Maximum operating speed 2820 rpm
Number of blades 12
Max. fluid temperature 40 °C

Materials

Impeller Spring steel
Stator housing material Grey cast iron

Project
Block

Created by
Created on 1/14/2022 **Last update** 1/14/2022

DS 3080 ST 3~ 263

Technical specification



Motor - General

Motor number D3080.311 17-11-2AA-W 5.5KW	Phases 3~	Rated speed 2820 rpm	Rated power 5.5 kW
Approval No	Number of poles 2	Rated current 11 A	Stator variant 34
Frequency 50 Hz	Rated voltage 400 V	Insulation class H	Type of Duty S1
Version code 311			

Motor - Technical

Power factor - 1/1 Load 0.90	Motor efficiency - 1/1 Load 80.5 %	Total moment of inertia 0.011 kg m ²	Starts per hour max. 15
Power factor - 3/4 Load 0.89	Motor efficiency - 3/4 Load 82.0 %	Starting current, direct starting 65 A	
Power factor - 1/2 Load 0.84	Motor efficiency - 1/2 Load 81.0 %	Starting current, star-delta 21.7 A	

Project
Block

Created by
Created on 1/14/2022 **Last update** 1/14/2022

DS 3080 ST 3~ 263

Performance curve

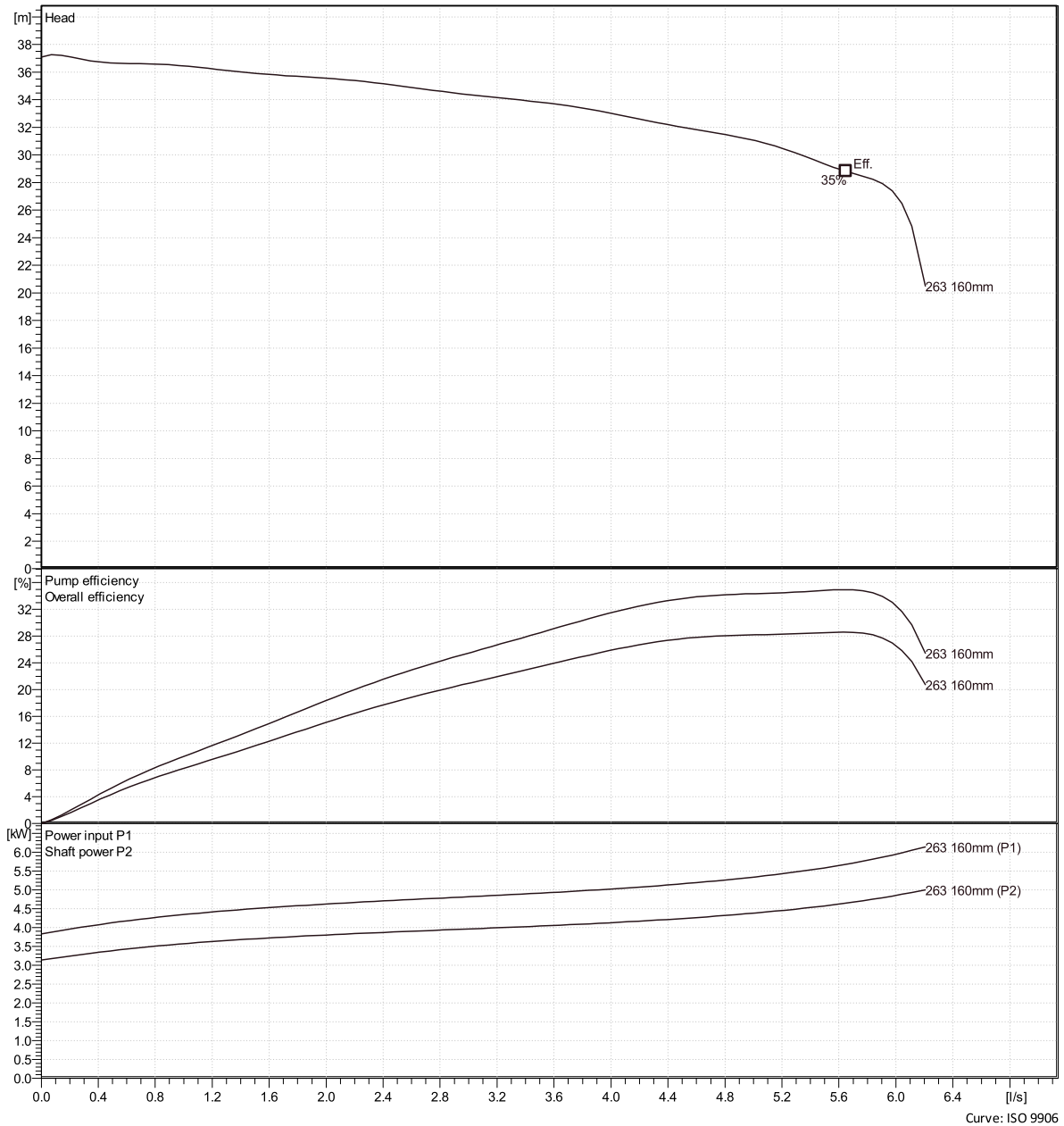


Duty point

Flow

Head

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



Project
Block

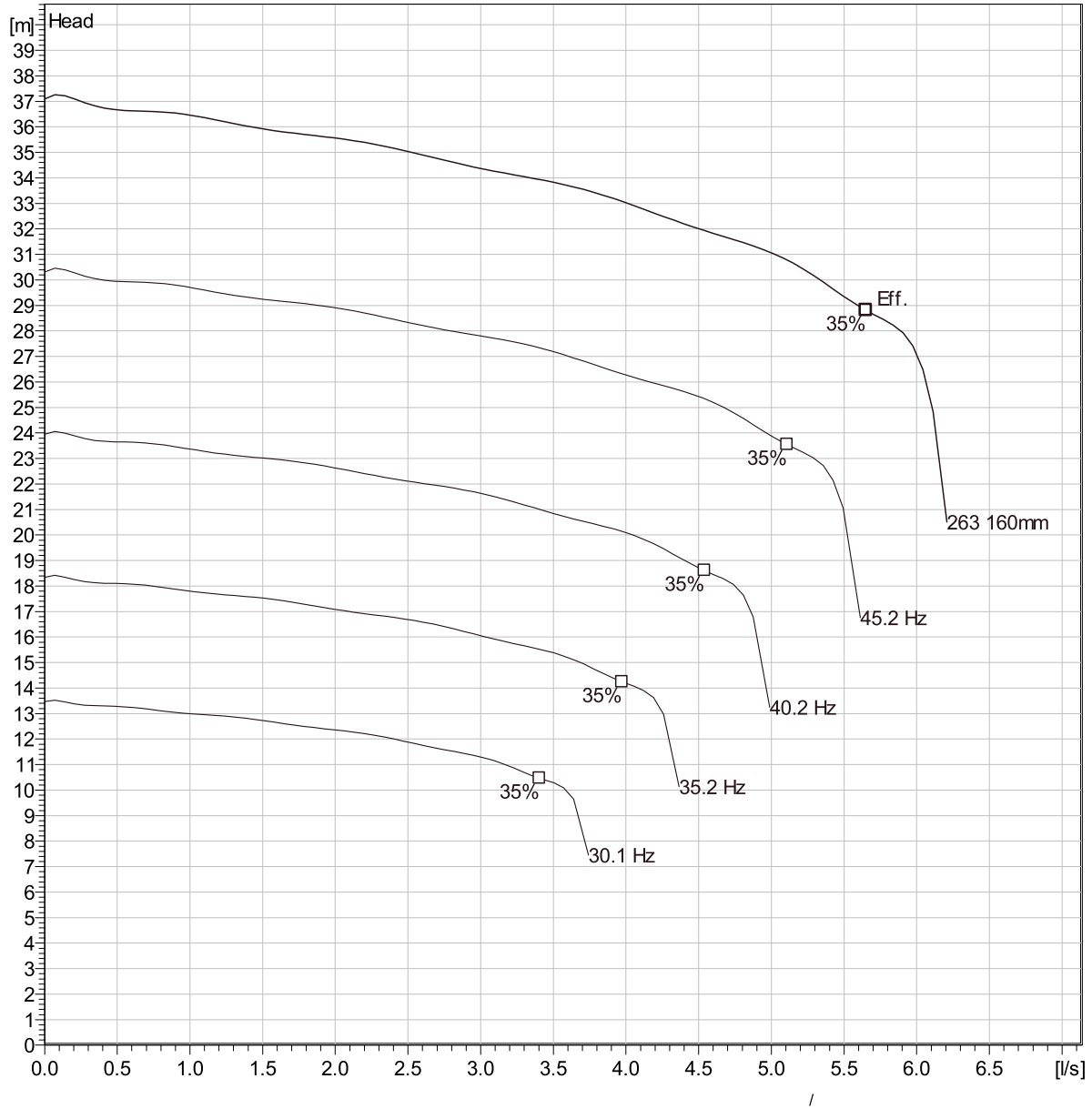
Created by
Created on 1/14/2022 Last update 1/14/2022

DS 3080 ST 3~ 263

Duty Analysis



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



Operating characteristics

Pumps / Systems	Flow l/s	Head m	Shaft power kW	Flow l/s	Head m	Shaft power kW	Hydr. eff.	Spec. Energy kWh/m ³	NPSHre m
-----------------	-------------	-----------	-------------------	-------------	-----------	-------------------	------------	------------------------------------	-------------

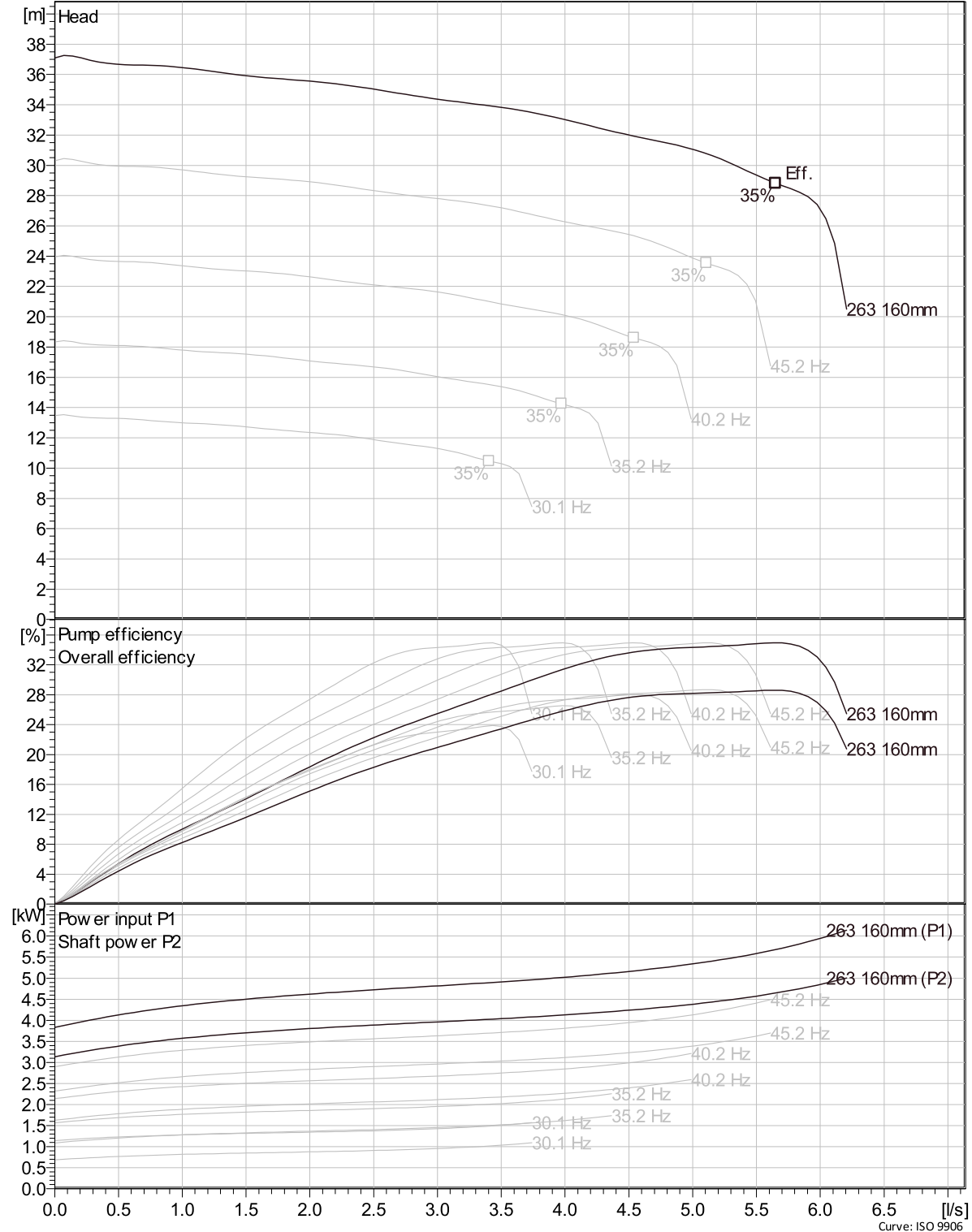
Project	Created by			
Block	Created on	1/14/2022	Last update	1/14/2022

DS 3080 ST 3~ 263

VFD Curve



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



Project	Created by		
Block	Created on	1/14/2022	Last update 1/14/2022

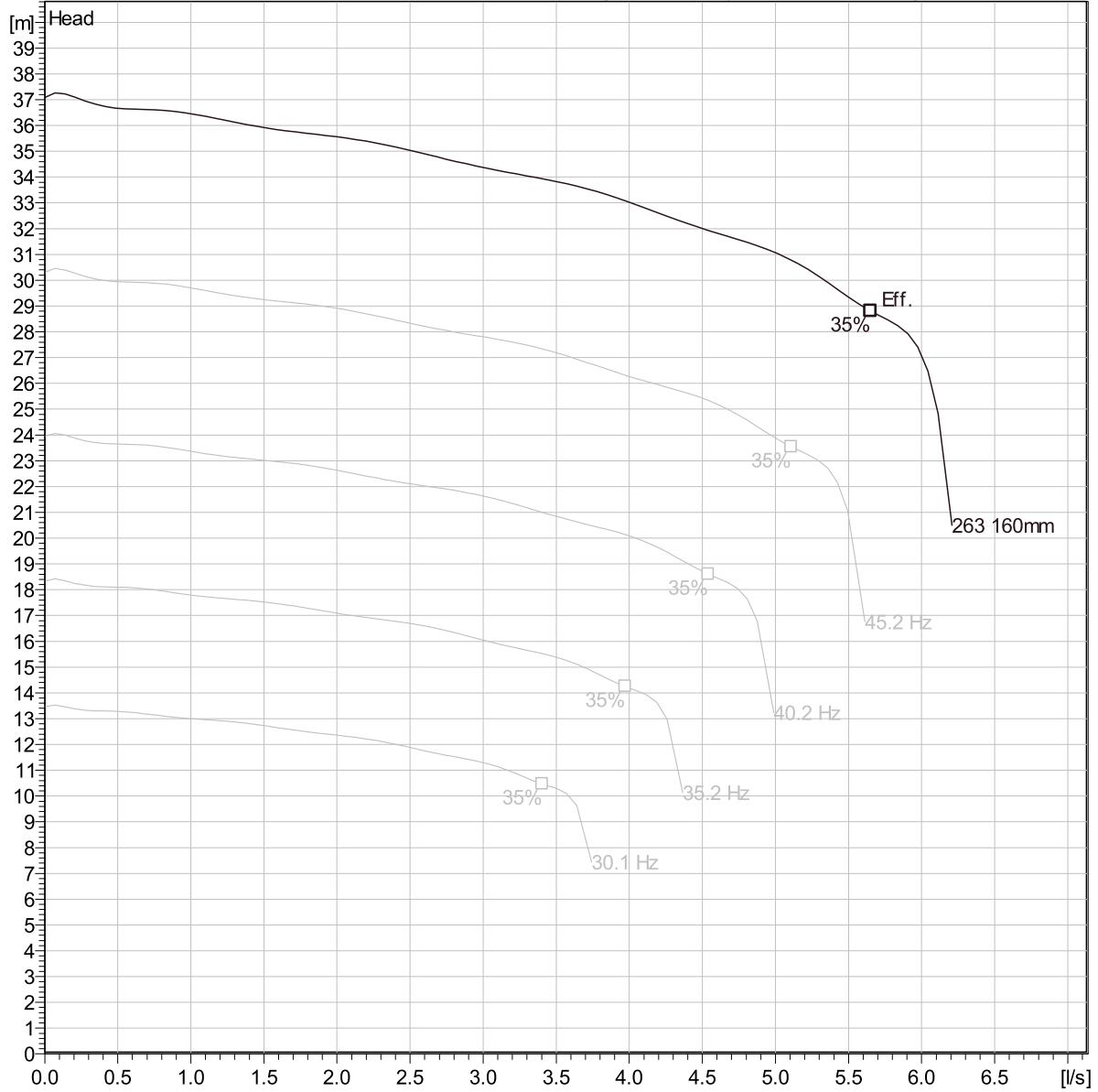
Curve: ISO 9906

DS 3080 ST 3~ 263

VFD Analysis



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



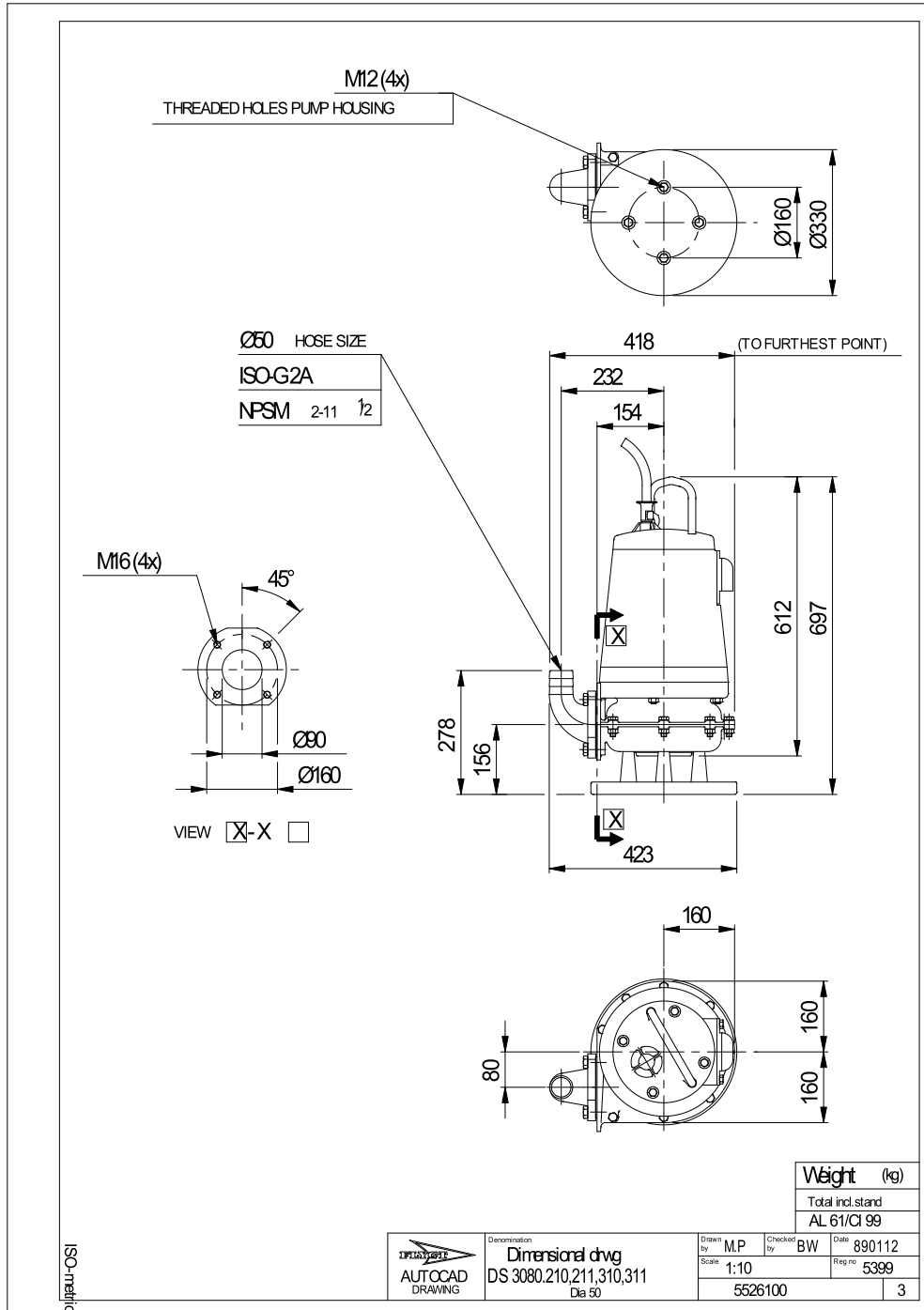
Operating Characteristics

Pumps / Systems	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr. eff.	Specific energy	NPSHre
		l/s	m	kW	l/s	m	kW		kWh/m ³	m

Project	Created by			
Block	Created on	1/14/2022	Last update	1/14/2022

DS 3080 ST 3~ 263

Dimensional drawing



Project
Block

Created by
Created on 1/14/2022 Last update 1/14/2022