

Technical data

Pump name W/7.5

Customer	Date 2024-06-16	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-16 15:45:44	E-mail

Requested data

1	Pump type	SUBMERSIBLE PUMP	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h		Kin. viscosity mm²/s	1.005
4	Head m		Vapour pressure bar	0.0234
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump name	W/7.5	Frequency Hz	50
10	Design	SUBMERSIBLE PUMP	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 118
12	Speed rpm	2850		Designed mm 118
13	No. of Stage	16		Min. mm 118
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 16.5
16	Max Working Pressure bar			Min- m³/h 3.6
17	Shut-off head bar	23.90	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 54.6
19	Shaft power kW	(Power / Stage)		- (Qmin.) m 233.1
20			Max. Shaft Power at max. impeller kW	0.41 (Power / Stage)
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	PPE+PS glass fibre reinforced		
23	Casing	PPE+PS glass fibre reinforced		
24	Shaft	AISI 420		
25				
26				
27				

Motor

28	Manufacturer	FRANKLIN	Insulation class	F
29	Type	SF6_R10-16_380_Three Phase	Phases	3~
30	Specific design	Submersible water filled type / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	7.5	Weight kg	45.2
32	Number of poles	2	Electric voltage V	380
33	Speed rpm	2860	Electric current A	16.3
34	Degree of protection	IP 68		
35				

Remarks

Performance curve

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Requested data

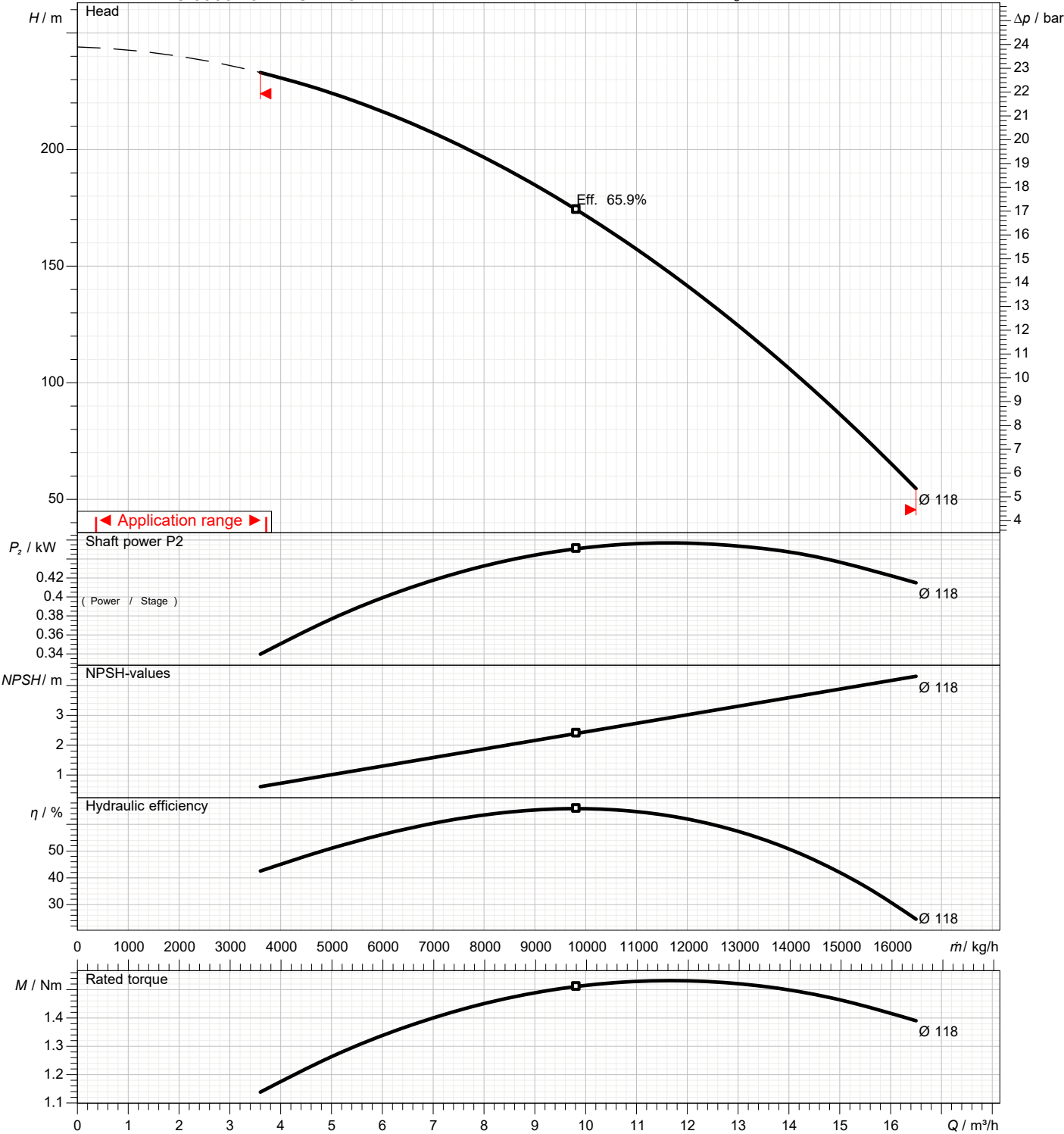
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50	
Operating head	m		Number of poles		2	
Impeller Diameter	Designed	mm	118	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

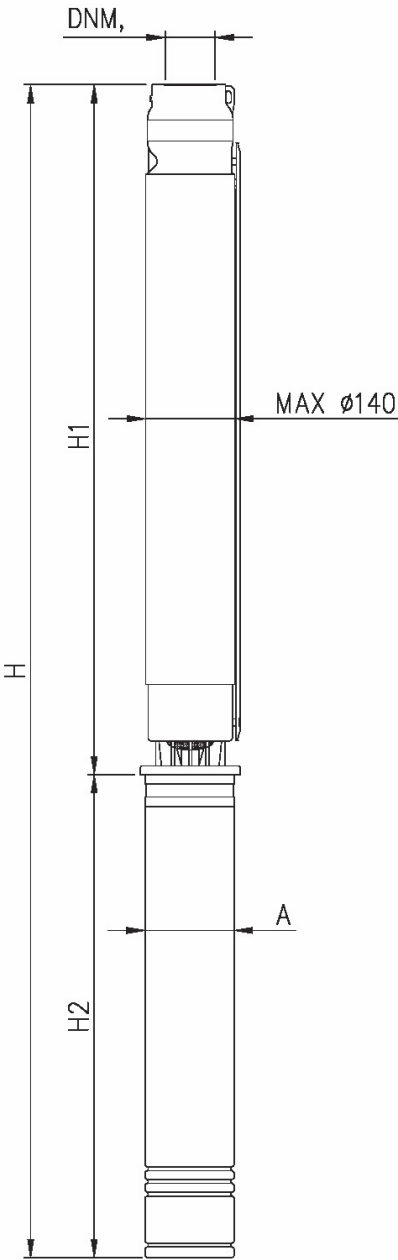
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	DNM	G 3					
2	H1	858					
3	Weight kg	61.5					
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

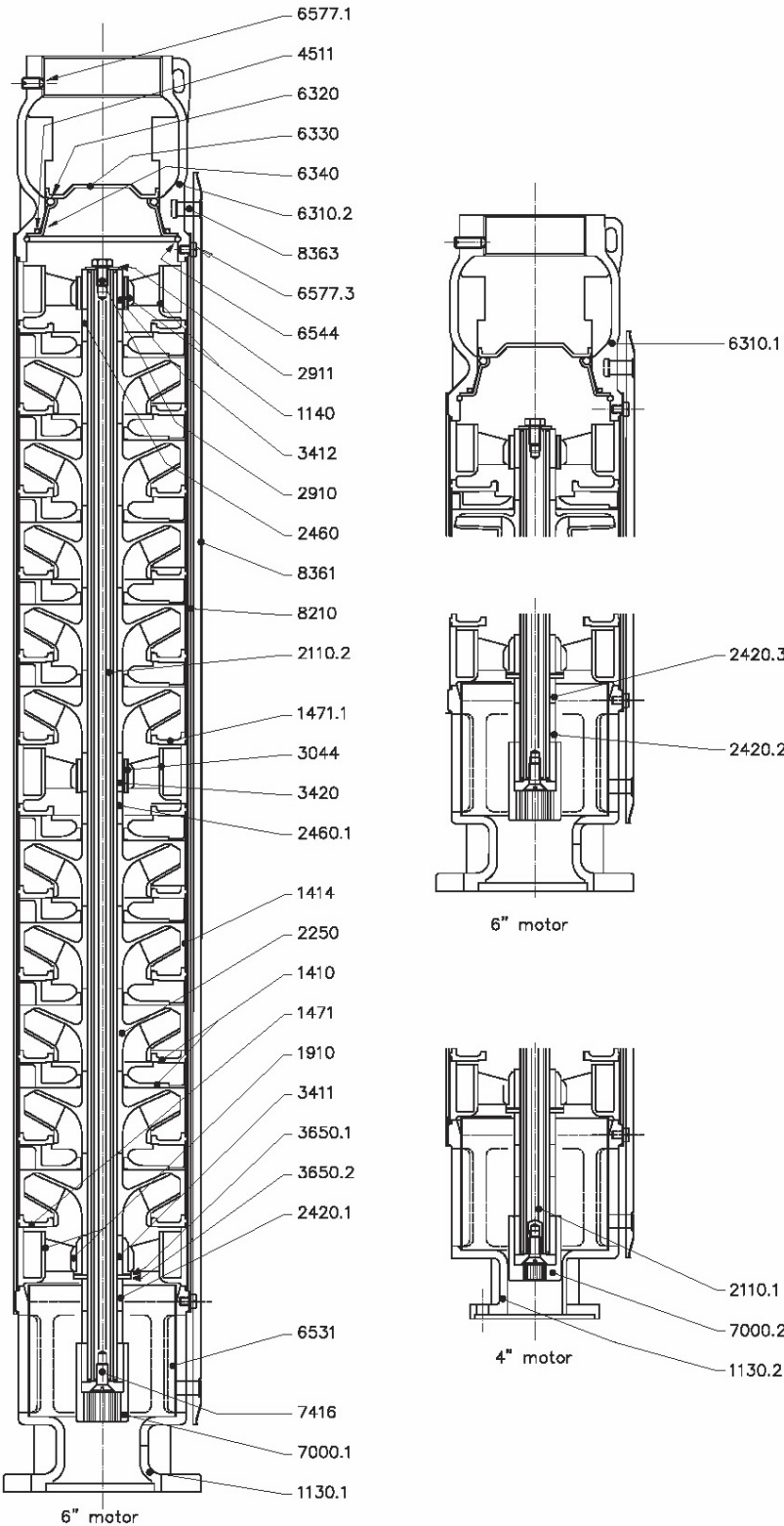
(1/2)

Construction

Pump name

W/7.5

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Construction

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N°	PART NAME	MATERIAL
1130.1	Suction casing 6"	Ni-resist D-2B - Stainless modular cast iron
1130.2	Suction casing 4"	Ni-resist D-2B - Stainless modular cast iron
1140	Upper bearing support + rubber bearing	(PPE+PS glass fibre reinforced) and NBR
1410	Diffuser	(PPE+PS glass fibre reinforced) + EN 1.4301 (AISI 304)
1414	Diffuser casing	EN 1.4301 (AISI 304)
1471	Suction disc	(PPE+PS glass fibre reinforced) + EN 1.4301 (AISI 304)
1471.1	Suction disc	(PPE+PS glass fibre reinforced) + EN 1.4301 (AISI 304)
1910	Lower bearing support + bronze bearing	(PPE+PS glass fibre reinforced) + bronze
2110.1	Pump shaft 4"	EN 1.4021 (AISI 420)
2110.2	Pump shaft 6"	EN 1.4021 (AISI 420)
2250	Impeller	PPE+PS glass fibre reinforced
2420.1	Shaft sleeve	PPE+PS glass fibre reinforced
2420.2	Shaft sleeve	PPE+PS glass fibre reinforced
2420.3	Shaft sleeve	PPE+PS glass fibre reinforced
2460	Shaft sleeve	PPE+PS glass fibre reinforced
2460.1	Spacer sleeve	PPE+PS glass fibre reinforced
2910	Screw	EN 1.4301 (AISI 304)
2911	Washer	EN 1.4301 (AISI 304)
3044	Intermediate bearing support + rubber bearing	(PPE+PS glass fibre reinforced) and NBR
3411	Lower bearing sleeve	EN 1.4401 (AISI 316L) + ceramic coating
3412	Upper bearing sleeve	EN 1.4401 (AISI 316L) + ceramic coating
3420	Intermediate bearing sleeve	EN 1.4401 (AISI 316L) + ceramic coating
3650.1	Thrust bearing - washer	Low friction RULON W2
3650.2	Thrust bearing - plate	EN 1.4301 (AISI 304)
4511	O-Ring	NBR
6310.1	Discharge casing (G 2 1/2)	Ni-resist D-2B - Stainless modular cast iron
6310.2	Discharge casing (G 3)	Ni-resist D-2B - Stainless modular cast iron
6320	O-Ring	NBR
6330	Valve plate	EN 1.4301 (AISI 304)
6340	Valve seat	EN 1.4301 (AISI 304)
6531	Strainer	EN 1.4301 (AISI 304)
6544	Split ring	EN 1.4301 (AISI 304)
6577.1	Set screw	EN 1.4301 (AISI 304)
6577.3	Screw	EN 1.4301 (AISI 304)
7000.1	Coupling (with screw)	EN 1.4105 (AISI 430F)
7000.2	Coupling (with screw)	EN 1.4105 (AISI 430F)
7416	Screw	EN 1.4301 (AISI 304)
8210	Pump casing	EN 1.4301 (AISI 304)
8361	Cable guard	EN 1.4301 (AISI 304)
8363	Cable guard hook	EN 1.4301 (AISI 304)