

Technical data

Pump name

6BHE20-6 - motor 4 inch 6

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-20 16:39:09	E-mail

Requested data

1	Pump type		SUBMERSIBLE DEEPWELL 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		6BHE20-6 - motor 4 inch 6	Frequency	Hz	60	
10	Design		SUBMERSIBLE DEEPWELL PUMP	Installation type		STANDARD	
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm	0
12	Speed	rpm	3460		Designed	mm	
13	No. of Stage		6		Min.	mm	0
14	Connection	Suction side		Flow	Operating	m³/h	
15	Connection	Discharge side			Max-	m³/h	32
16	Max Working Pressure	bar	70		Min-	m³/h	12
17	Shut-off head	bar	9.89	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	36.7
19	Shaft power	kW	(Power / Stage)		- (Qmin.)	m	96.5
20				Max. Shaft Power at max. impeller	kW	1.02	(Power / Stage)
21	Required pump NPSH	m		Efficiency	%		

Materials

22	Impeller		EN 1.4301 (AISI 304)		
23	Discharge casing		EN 1.4301 (AISI 304)		
24	Shaft		EN 1.4057 (AISI 431)		
25	Diffuser		EN 1.4301 (AISI 304)		
26					
27					

Motor

28	Manufacturer		without motor	Insulation class	
29	Type		without motor 3	Phases	
30	Specific design		without motor / 60 Hz / Pole pairs 1	Frame size	
31	Rated power	kW		Weight	kg
32	Number of poles		2	Electric voltage	V
33	Speed	rpm		Electric current	A
34	Degree of protection				
35					

Remarks

Performance curve

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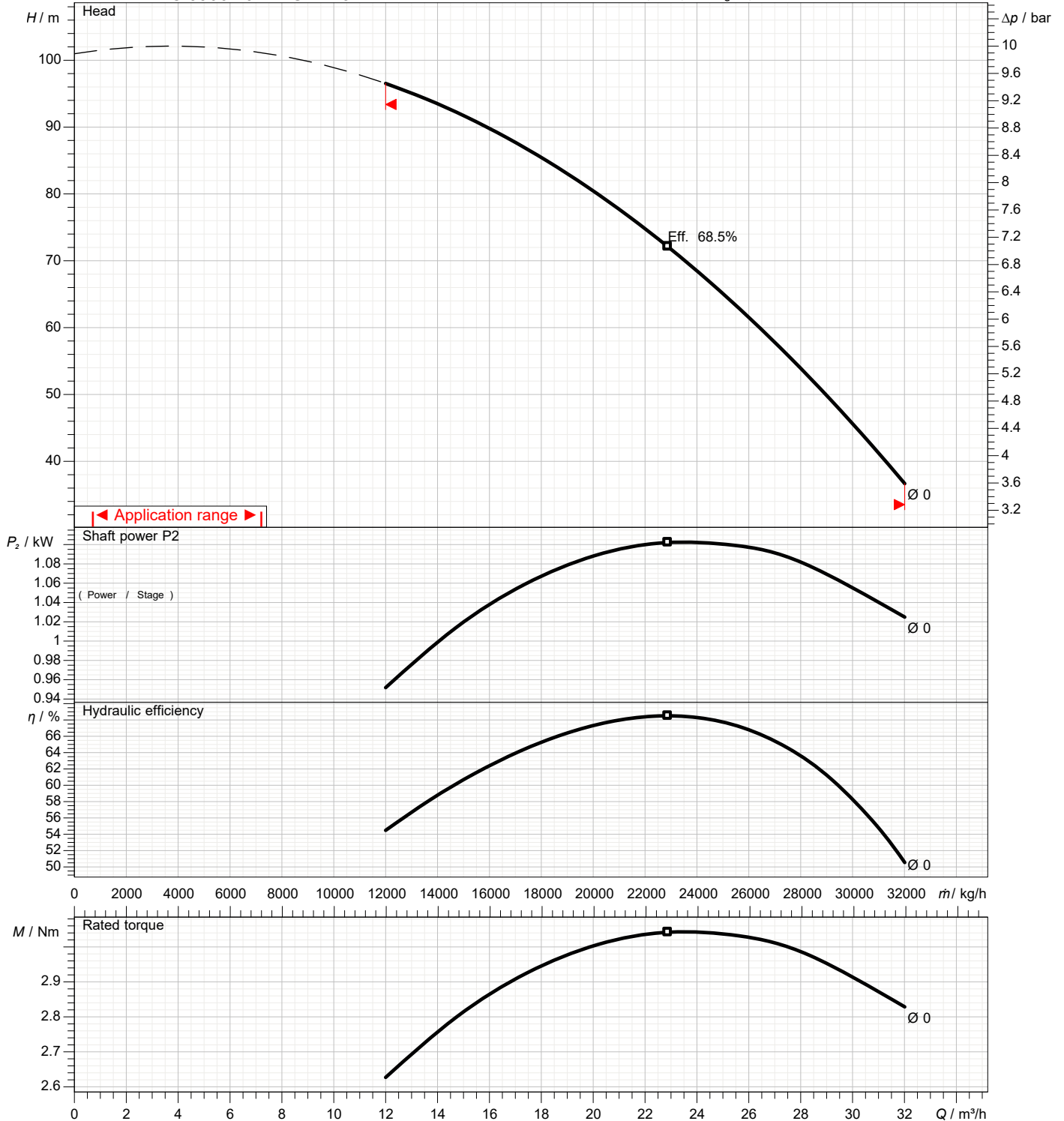
1	Flow	m ³ /h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m ³ /h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller Diameter	Designed	mm	Speed	rpm	3460

Test standard: ISO 9906:2012 - Grade3B

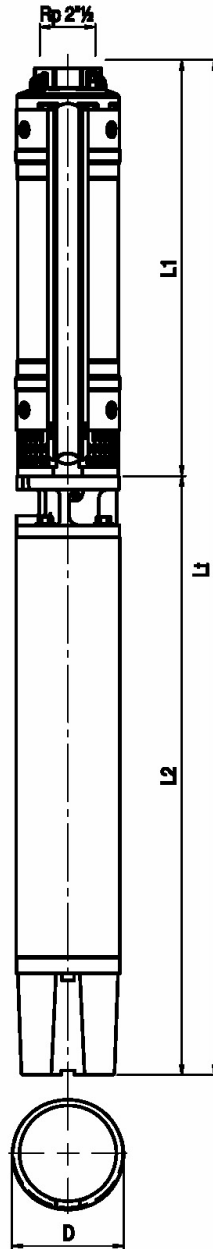
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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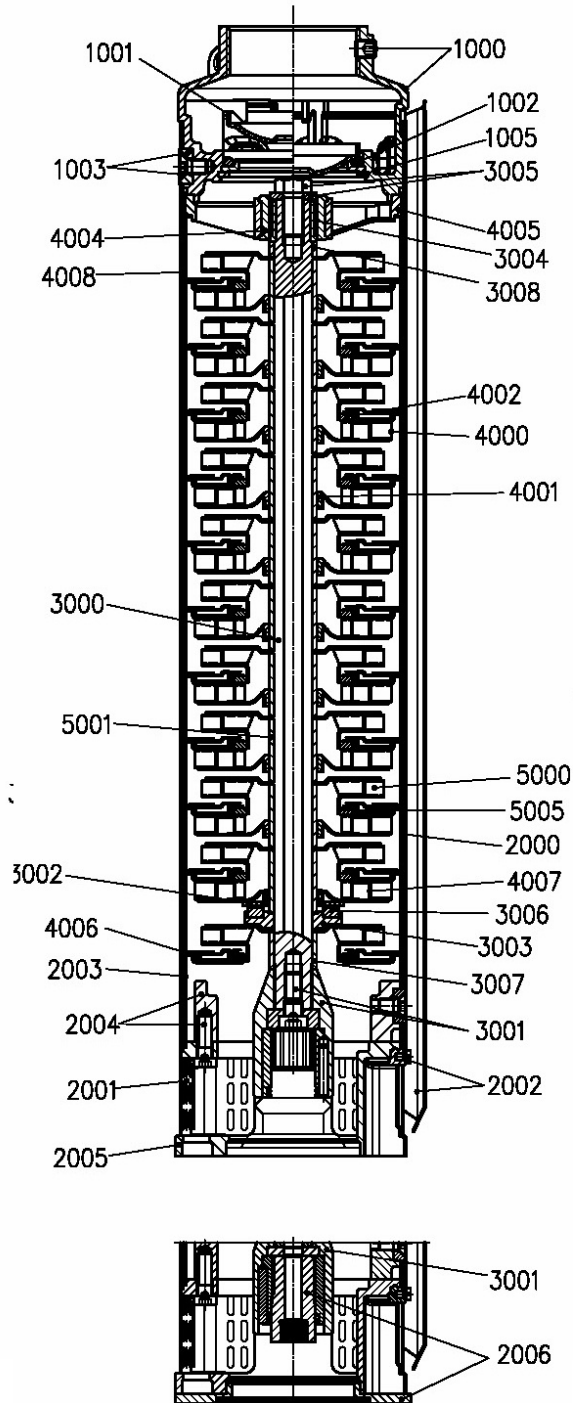
Dimensions in		mm						
1	D - 1 CABLE	142.5						
2	L1	497.5						
3	Weight kg	43						
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

(1/2)

Construction

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(2/2)

Construction

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N°	PART NAME	MATERIAL	Q.TY
1000	Discharge head and screw	Stainless steel (AISI 304)	-
1001	Valve	Stainless steel (AISI 316)	-
1002	O-ring	Nitrile rubber (NBR)	-
1003	Screws and outer case locking nuts	Stainless steel (AISI 316)	-
1004	Valve support	Stainless steel (AISI 316)	-
1005	Seeger ring	Stainless steel (AISI 316)	-
2000	Outer case	Stainless steel (AISI 304)	-
2001	Suction strainer	Stainless steel (AISI 316)	-
2002	Cable guard and screws	Stainless steel (AISI 316)	-
2003	Initial spacer	Stainless steel (AISI 304)	-
2004	Flange and bolts	Stainless steel (AISI 304)	-
2005	Motor adapter	Stainless steel (AISI 304)	-
2006	4" motor flange/coupling adapter		-
3000	Pump shaft	Stainless steel (AISI 431)	-
3001	Coupling	Stainless steel (AISI 431/329)	-
3002	Upper up-thrust washer	Stainless steel (AISI 316)	-
3003	Lower up-thrust washer	Stainless steel (AISI 316)	-
3004	Upper journal sleeve	Stainless steel (AISI 329) with ceramic coating	-
3005	Screw and washer	Stainless steel (AISI 316)	-
3006	Up-thrust ring	Teflon (PTFE)	-
3007	Lower spacer	Stainless steel (AISI 316)	-
3008	Upper spacer	Stainless steel (AISI 316)	-
4000	Diffusers	Stainless steel (AISI 304)	-
4001	Secondary bearing bush	Nitrile rubber (NBR)	-
4002	Floating neck ring	Teflon (PTFE)	-
4004	Bearing bush	Nitrile rubber (NBR)	-
4005	Upper bearing guide	Stainless steel (AISI 316)	-
4006	First diffuser	Stainless steel (AISI 316)	-
4007	Diffuser with upper up-thrust washer	Stainless steel (AISI 316)	-
4008	Last diffuser	Stainless steel (AISI 316)	-
5000	Impeller	Stainless steel (AISI 304)	-
5001	Secondary journal sleeve	Stainless steel (AISI 316)	-
5005	Wear ring	Stainless steel (AISI 304)	-