

Technical data

Pump name

W6BHE20-41/45 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	W6BHE20-41/45 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	41		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	68.53	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		-(Qmax.)	m	251.3
19	Shaft power kW	(Power / Stage)		-(Qmin.)	m	659.5
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	FRANKLIN	Insulation class	F
29	Type	BHE_6 inch_60_45_460_Three Phase	Phases	3~
30	Specific design	Submersible water filled type / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	45	Weight kg	154
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3600	Electric current A	91
34	Degree of protection	IP 68		
35				

Remarks

Performance curve

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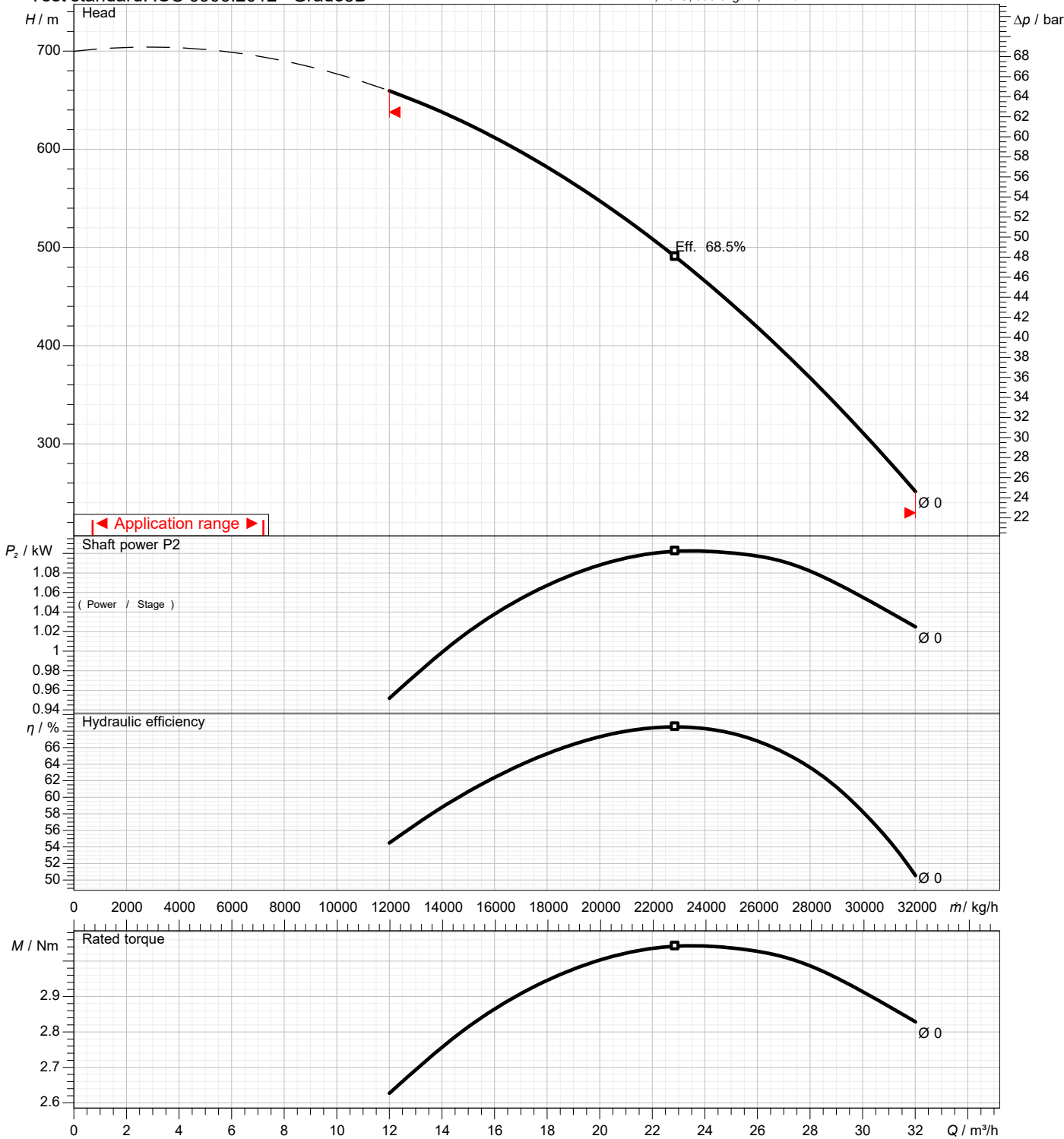
Requested data

1	Flow	m³/h		Operating flow	m³/h		Frequency	Hz	60
2	Head	m		Operating head	m		Number of poles		2
3	Geodetic head	m		Impeller Diameter	Designed	mm	Speed	rpm	3460

Pump

Test standard: ISO 9906:2012 - Grade3B

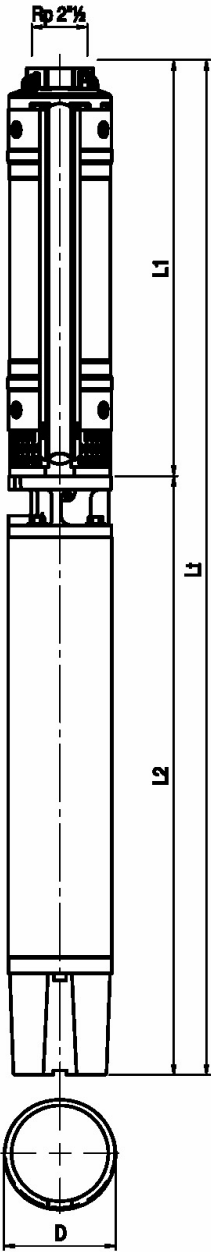
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm								
1	D - 1 CABLE	145						
2	D - 2 CABLE	146.5						
3	L1	1807						
4	L2	1574						
5	Lt	3381						
6	Weight kg	348						
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8								
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13								
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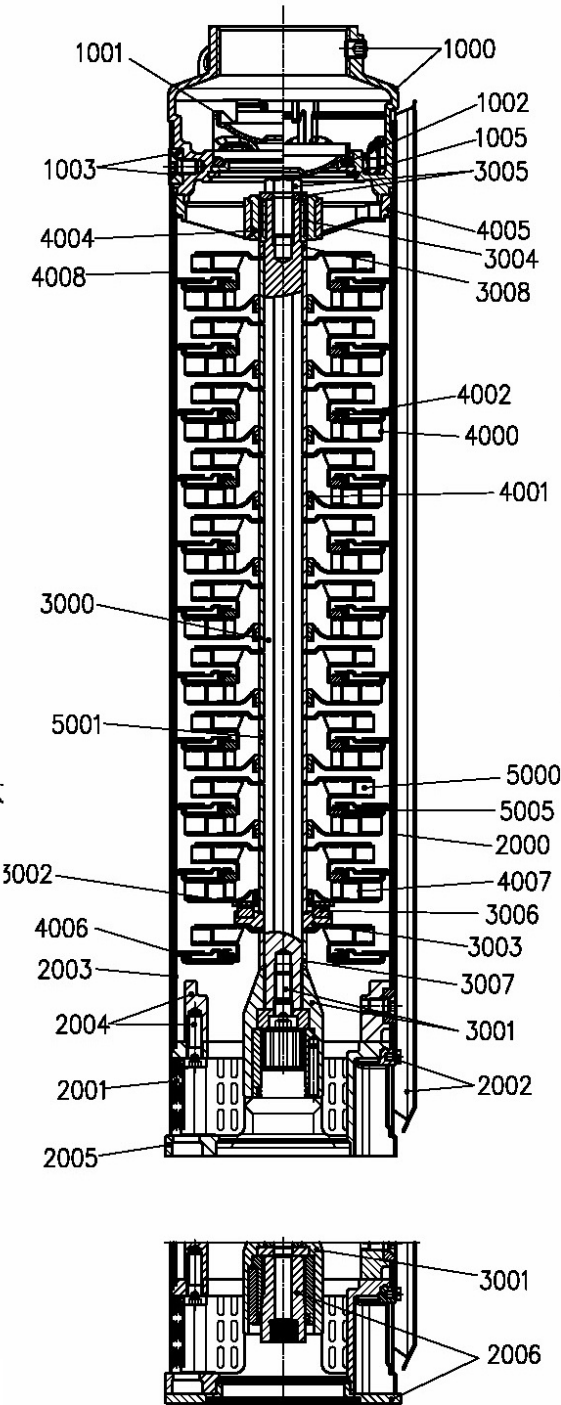
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Construction

Pump name

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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)	-