

Technical Data

Pump Name

BEST 5

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-13 09:28:44	E-mail

Requested data

1	Pump type		SUBMERSIBLE SUMP PUMPS	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		BEST 5	Frequency	Hz	50
10	Design		SUBMERSIBLE SUMP PUMPS	Installation type		Without switch (STANDARD)
11	Manufacturer		EBARA	Impeller Diameter	Max. mm	125
12	Speed	rpm	2800		Designed mm	125
13	No. of Stage		1		Min. mm	125
14	Connection	Suction side	Strainer	Flow	Operating m³/h	
15	Connection	Discharge side	UNI ISO 228		Max- m³/h	21.6
16	Max Working Pressure	bar			Min- m³/h	1.2
17	Shut-off head	bar	1.87	Head	Operating m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.) m	4.9
19	Shaft power	kW			- (Qmin.) m	18.4
20				Max. Shaft Power at max. impeller	kW	
21	Required pump NPSH	m		Efficiency	%	

Materials

22	Impeller		AISI 304			
23	Casing		AISI 304			
24	Shaft		AISI 303 (wet extension)			
25						
26						
27						

Motor

28	Manufacturer		EPE Standard	Insulation class		F
29	Type		BEST5_400_Three Phase	Phases		3~
30	Specific design		Submersible dry type / 50 Hz / Pole pairs 1	Frame size		
31	Rated power	kW	1.5	Weight	kg	
32	Number of poles		2	Electric voltage	V	400
33	Speed	rpm	2800	Electric current	A	3.3
34	Degree of protection		IP 68			
35						

Remarks

Performance Curve

Pump Name

BEST 5

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-13 09:28:44	E-mail

Requested data

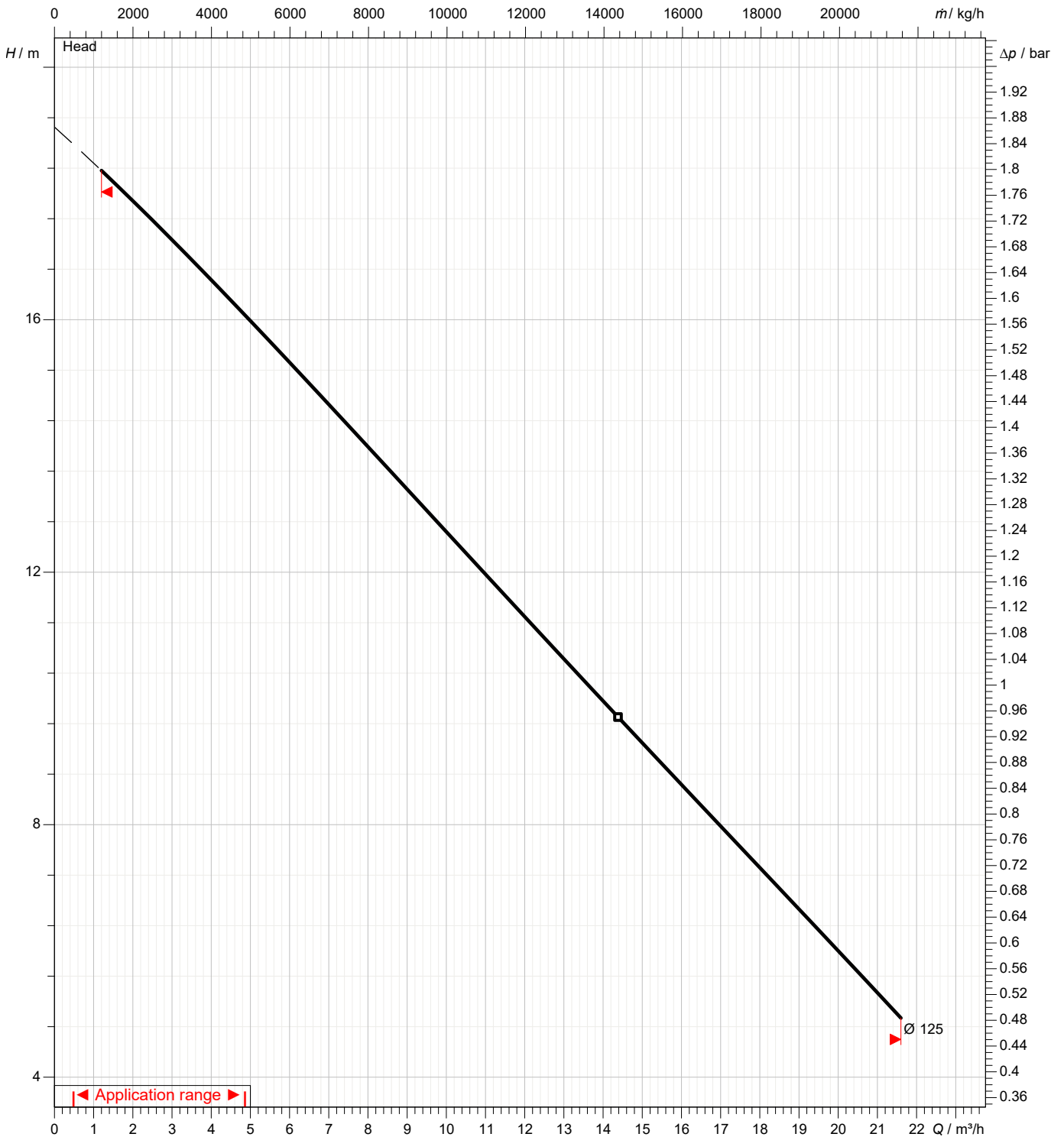
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	125	Speed	rpm	2800

Test standard: ISO 9906:2012 - Grade3B

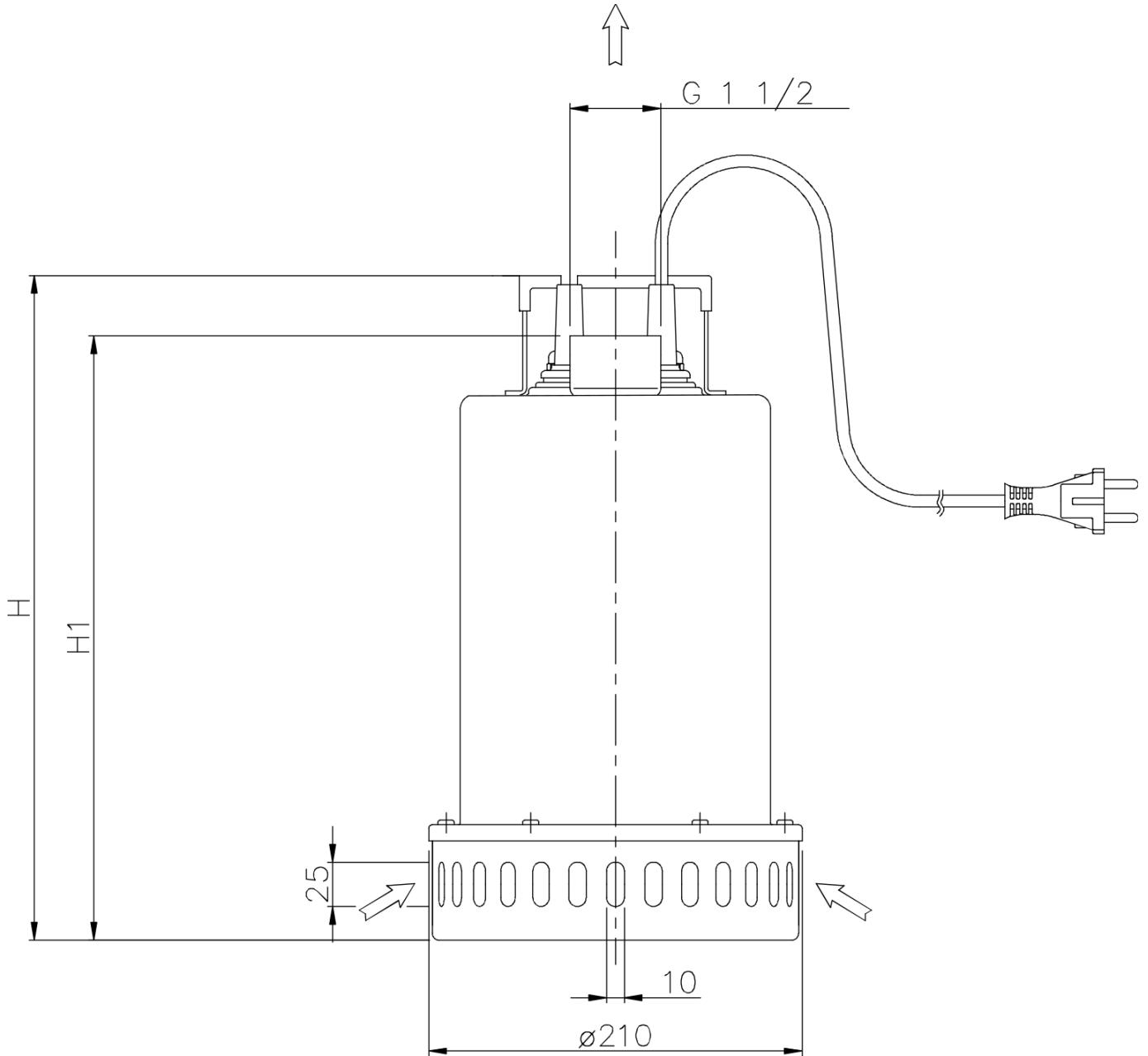
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

Pump Name BEST 5

Customer	Date 2024-06-13	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-13 09:28:44	E-mail

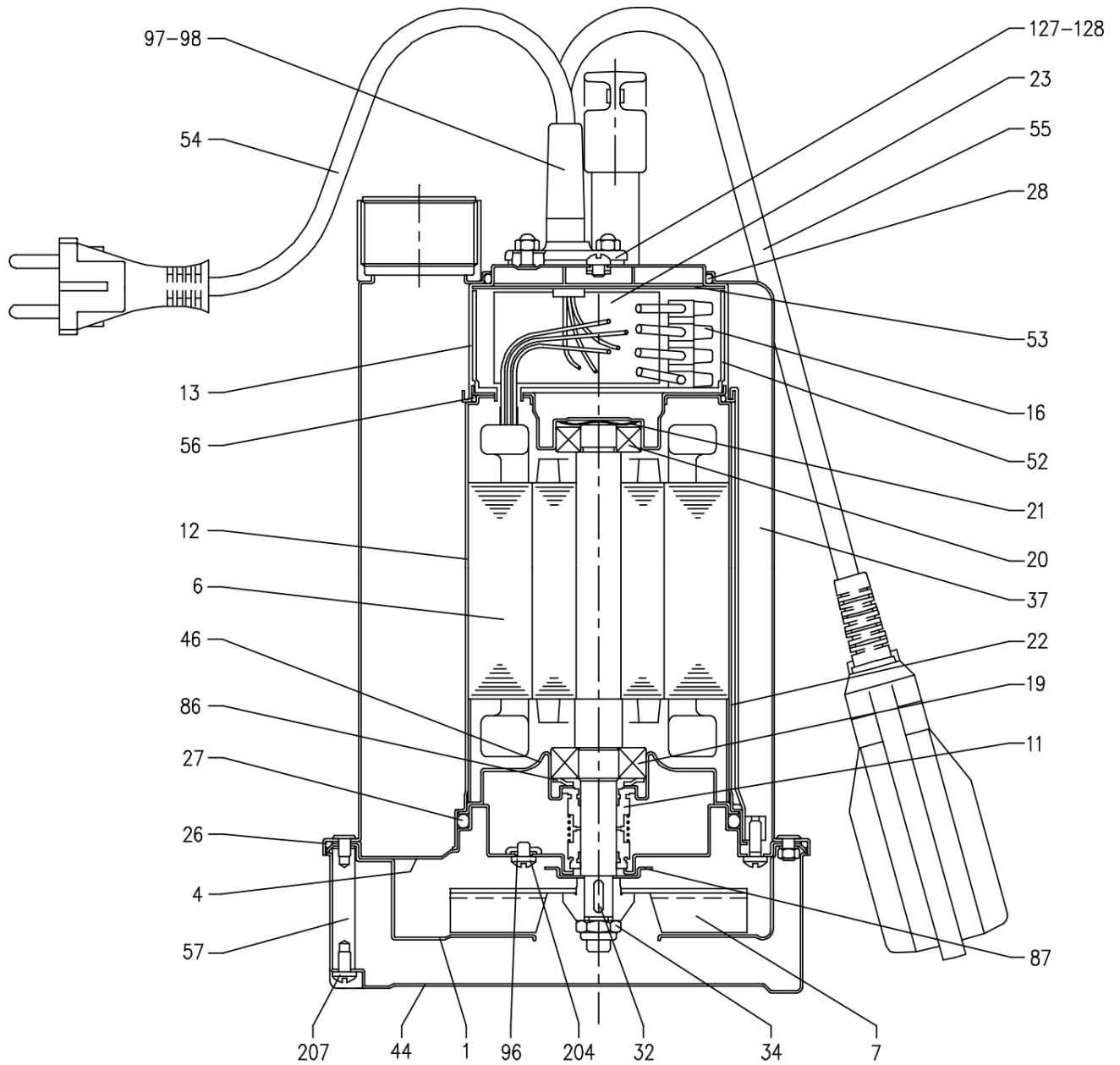


Dimensions in		mm						
1	H	377						
2	H1	340						
3	Weight P&M	13,5 kg						
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

(1/3) Construction

Pump Name BEST 5

Customer	Date 2024-06-13	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-13 09:28:44	E-mail



(2/3)

Construction

Pump Name BEST 5

Customer	Date 2024-06-13	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Project redenumit 2024-06-13 09:28:44	E-mail

N°	PART NAME	MATERIAL	Q.TY
1	Volute	AISI 304	1
4	Motor bracket	AISI 304	1
6	Shaft with rotor	AISI 303	1
7	Impeller	AISI 304	1
11	Mechanical seal [3]	NBR	2
12	Motor frame with stator	-	1
13	Motor cover	AISI 304	1
16	Terminal	-	1
19	Pump side ball bearing	-	1
20	Fan side ball bearing	-	1
21	Adjusting ring	Steel C70	1
22	Tie rod	AISI 304	3
23	Capacitor [2]	-	1
26	"O" Ring	NBR	1
27	"O" Ring	NBR	1
28	"O" Ring	NBR	1
32	Key	AISI 304	1
34	Impeller nut	AISI 304	1
37	Pump casing	AISI 304	1
44	Strainer	AISI 304	1
46	Bearing housing	AISI 304	1
52	Terminal insulating box	PA66 glass fibre reinforced class V-0	1
53	Terminal insulating cover	PA66 class V-0	1
54	Power cable	-	1
55	Float switch [1]	-	1
56	"O" Ring	NBR	1
57	Bolt	AISI 303	3
86	Washer	AISI 304	1
87	Impeller ring	AISI 304	1
96	"O" Ring	NBR	3
97	Cable connector [1]	NBR	1
98	Cable connector	NBR	1
127	Cable connector [1]	AISI 304	1
128	Cable connector	AISI 304	1
204	Screw	Stainless steel A2 UNI 7323	3
207	Screw	Stainless steel A2 UNI 7323	3

[1] Only for version single phase with float switch

[2] Only for version single phase

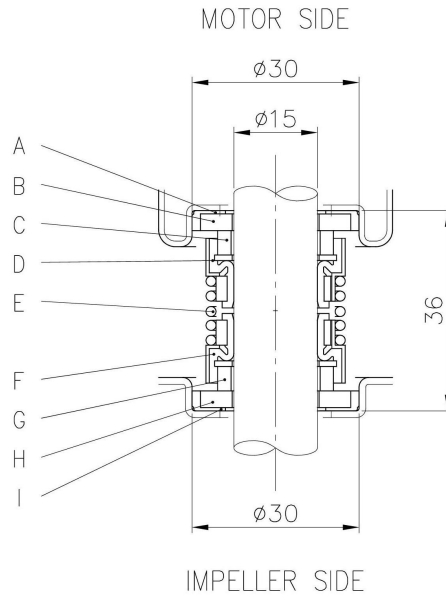
[3] See **CONSTRUCTION 3**

(3/3)

Construction

Pump Name BEST 5

Customer	Date 2024-06-13	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-13 09:28:44	E-mail



REF	PART NAME	MATERIAL
A	Rubber cup	NBR
B	Seat	Ceramic
C	Seal face	Carbon
D	Belw	NBR
E	Spring	AS1304
F	Belw	NBR
G	Seal face	Silicon carbide
H	Seat	Silicon carbide
I	Rubber cup	NBR