

Technical data

Pump name 4N7-8

Customer	Date 2024-07-02	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Project redenumit 2024-07-02 22:34:28	E-mail

Requested data

1	Pump type	SUBMERSIBLE MULTISTAGE 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	4N7-8	Frequency Hz	60
10	Design	SUBMERSIBLE MULTISTAGE PUMPS	Installation type	without motor
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 74
12	Speed rpm	3450		Designed mm 74
13	No. of Stage	8		Min. mm 74
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 12
16	Max Working Pressure bar			Min- m³/h 3.6
17	Shut-off head bar	6.85	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 14.4
19	Shaft power kW	(Power / Stage)		- (Qmin.) m 61.6
20			Max. Shaft Power at max. impeller kW	1.12 (Power / Stage)
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	1xsf		
23	Casing	EN 1.4301 (AISI 304)		
24	Shaft	EN 1.4301 (AISI 304)		
25				
26				
27				

Motor

28	Manufacturer	without motor	Insulation class	
29	Type	without motor 1	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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Requested data

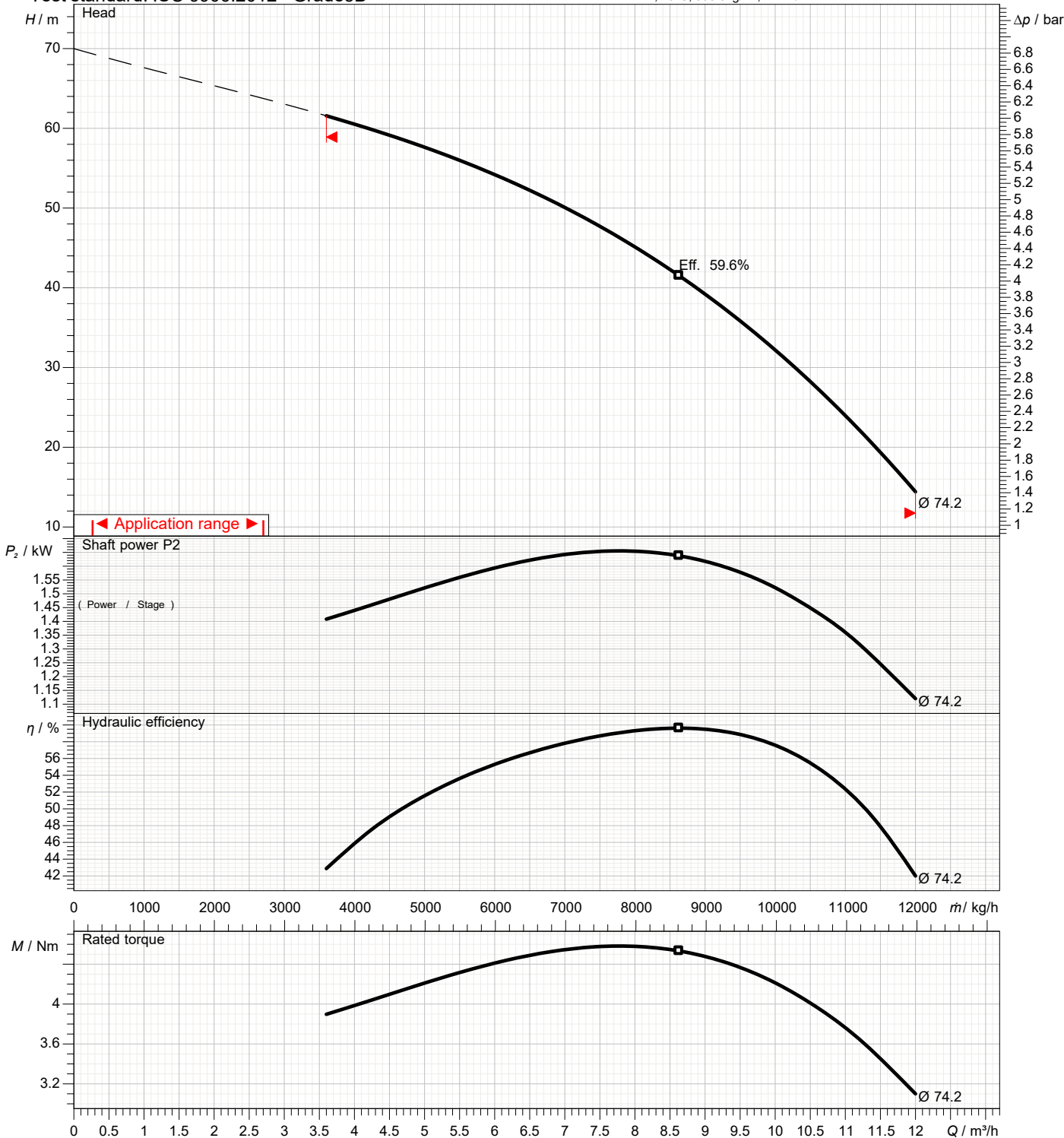
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60	
Operating head	m		Number of poles		2	
Impeller Diameter	Designed	mm	74	Speed	rpm	3450

Test standard: ISO 9906:2012 - Grade3B

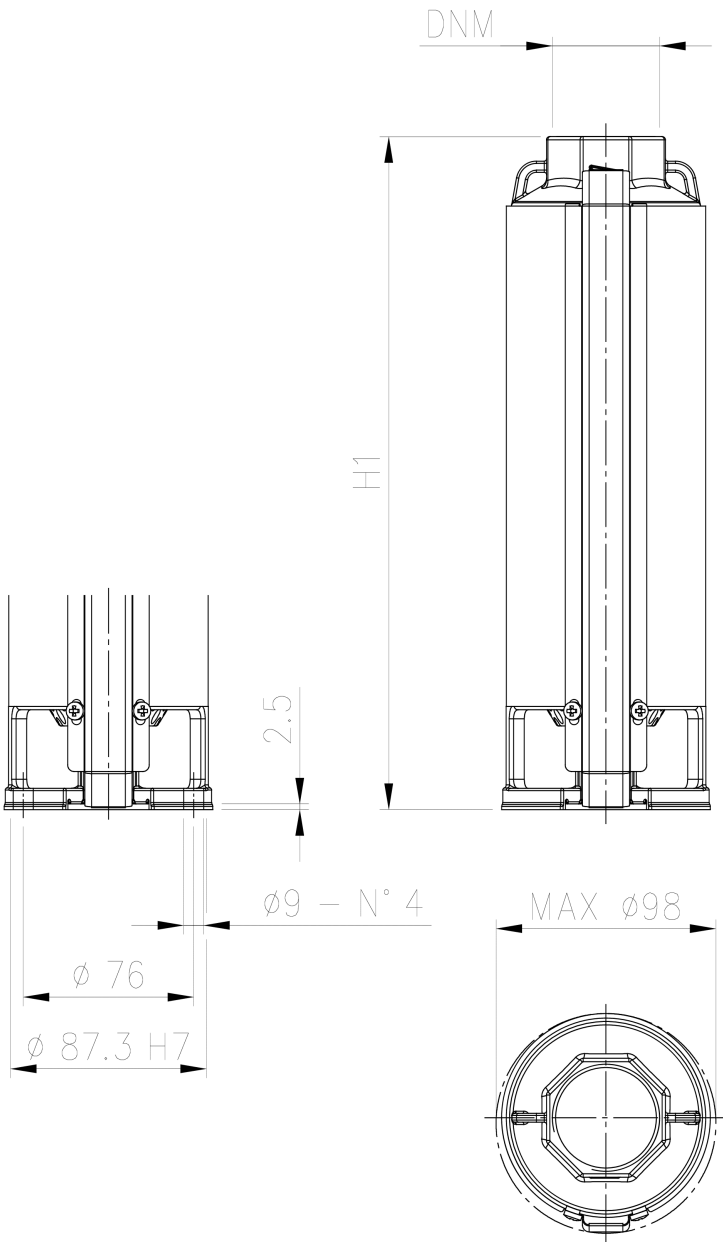
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	DNM	G 2					
2	H1	427					
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

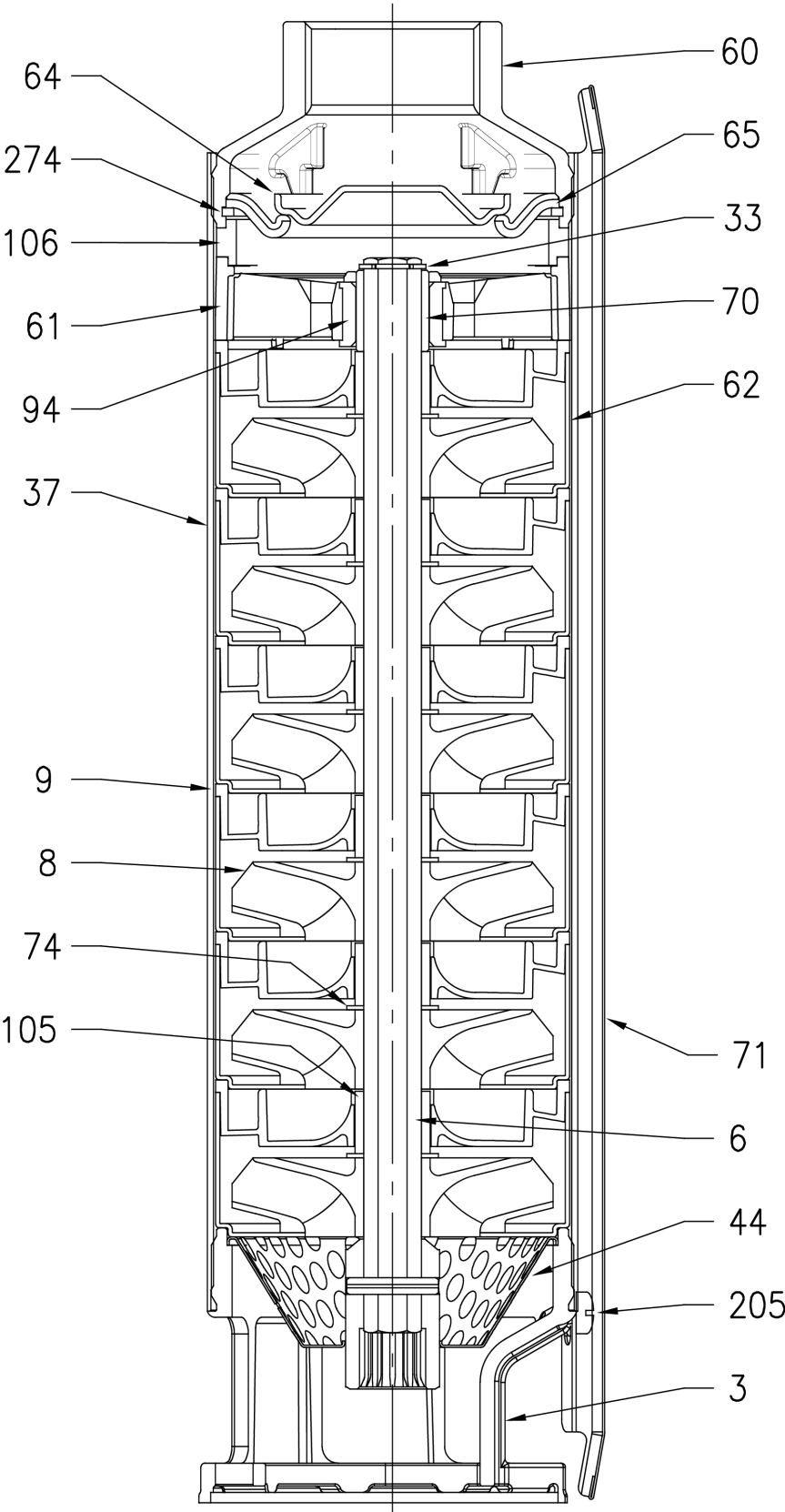
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Construction

Pump name

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Construction

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N°	PART NAME	MATERIAL	Q.TY
3	Bracket	EN 1.4308 (ASTM CF8)	1
6	Pump shaft with coupling	EN 1.4301 (AISI 304)	1
8	Impeller	Ixef®	[*]
9	Diffuser	PPE+PS Glass fibre reinforced	[*]
33	Elastic Ring	EN 1.4301 (AISI 304)	1
37	Outer casing	EN 1.4301 (AISI 304)	[*]
44	Strainer	EN 1.4301 (AISI 304)	1
60	Discharge casing	EN 1.4308 (ASTM CF8)	1
61	Upper / Intermediate bracket	PPE+PS Glass fibre reinforced	[*]
62	Stage housing	EN 1.4301 (AISI 304)	[*]
64	Valve	EN 1.4301 (AISI 304)	1
65	Valve seat	EN 1.4301 (AISI 304) + EPDM Rubber	1
70	Shaft sleeve bearing	Alumina (Ceramic)	[*]
71	Cable guard	EN 1.4301 (AISI 304)	1
74	Thrust washer	EN 1.4301 (AISI 304)	[*]
94	Bearing	EPDM Rubber	[*]
105	Spacer	PPE+PS Glass fibre reinforced	[*]
106	Spacer	NORYL+GF20%	1
205	Screw (M4 x 6 UNI 7687)	EN 1.4301 (AISI 304)	2
274	Elastic Ring	EN 1.4310 (AISI 302)	1

[*] See **CONSTRUCTION 3**

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Construction

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Pump type	POS. 3A Join Ring	POS. 8 Impeller	POS. 9 Diffuser	POS. 37 Outer casing	POS. 61 Upper / Intermediate bracket	POS. 62 Stage housing	POS. 70 Shaft sleeve bearing	POS. 73 Thurst washer first impeller	POS. 74 Thurst washer	POS. 94 Bearing	POS. 105 Spacer
4N7 4	-	4	4	1	1	4	1	-	4	1	4
4N7 6	-	6	6	1	1	6	1	-	6	1	6
4N7 8	-	8	8	1	1	8	1	-	8	1	8
4N7 11	-	11	12	1	1	12	1	-	11	1	13+1
4N7 15	-	15	15	1	1	15	1	-	15	1	15
4N7 20	-	20	20	1	1	20	1	-	20	1	20
4N7 28	1	28	30	2	2	30	2	-	28	2	35+2