Technical data

Pump name AGA 1.00 T

Customer	Date 14-May-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid		Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K	293
3	Flow l/min	0	Kin. viscosity	mm²/s	1
4	Head m	0	Vapour pressure	kPa	2.2
5	Geodetic head m	0	PH value		7
6	Inlet pressure (pin) kPa	10	Density	kg/m³	1000
7	Available system NPSH	0	Solids	Weight %	0
8	Ambient temperature K	290			

Pump

9	Pump name	AGA 1.00 T	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	130
12	Speed 1/min	2800		Designed	mm	130
13	No. of Stage	1		Min.	mm	130
14	Connection Suction side	UNI ISO 228	Flow	Operating	l/min	
15	Connection Discharge side	UNI ISO 228		Max-	l/min	60
16	Max Working Pressure kPa	600		Min-	l/min	5
17	Shut-off head kPa	489.72	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	23.0
19	Shaft power kW			- (Qmin.)	m	47.5
20			Max. Shaft Power at max. impeller		kW	0.71
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	PPE+PS glass fibre reinforced		
23	Casing	Cast iron		
24	Shaft	AISI 303 (wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_AGA 1.00 T_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	0.75	Weight	kg	0
32	Number of poles	2	Electric voltage	V	230
33	Speed 1/min	2800	Electric current	A	3
34	Degree of protection	IP 44			
35					

Remarks

EBARA

Performance curve **Pump name** AGA 1.00 T

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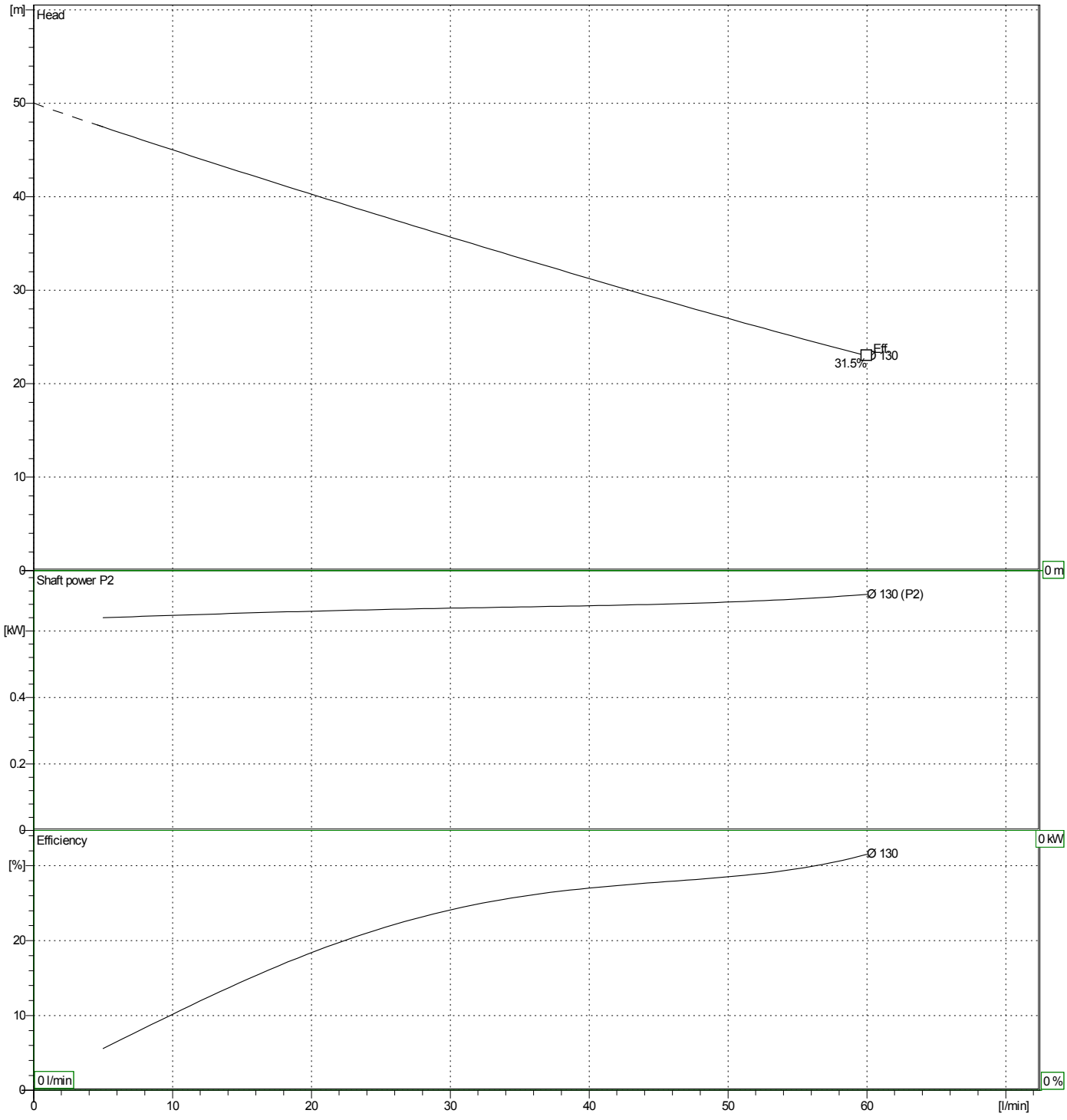
1	Flow	l/min	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	l/min		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	130	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s

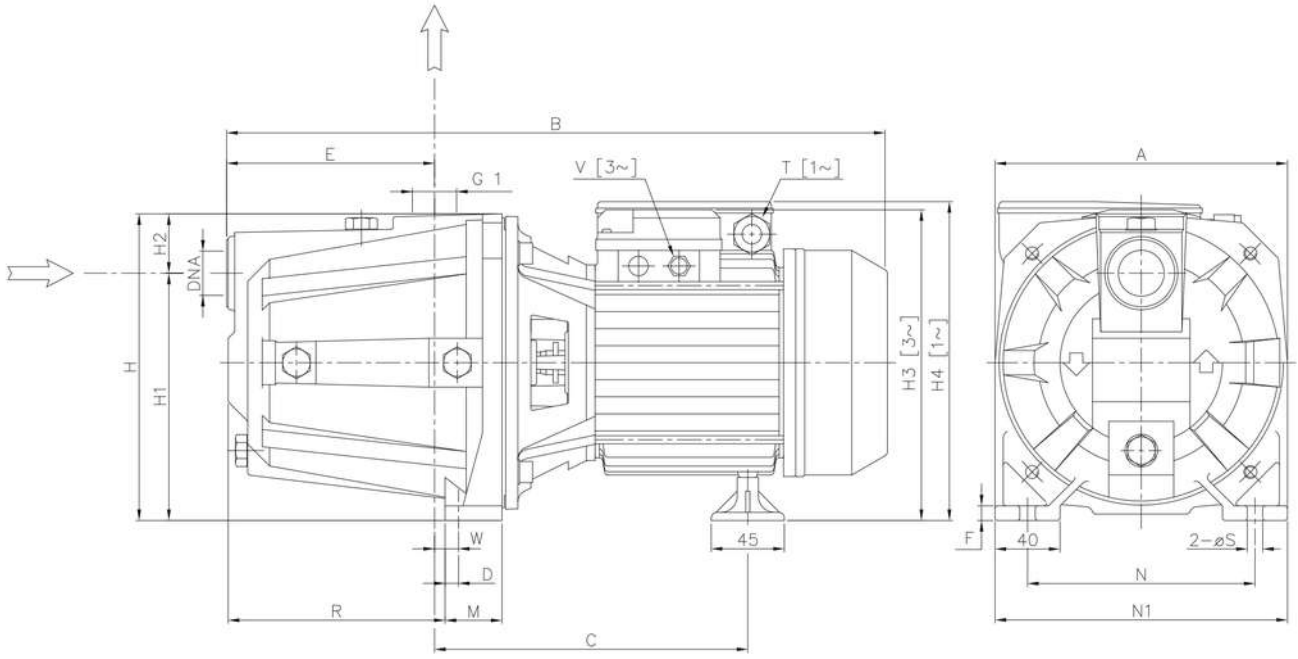


EBARA

Dimensions

Pump name AGA 1.00 T

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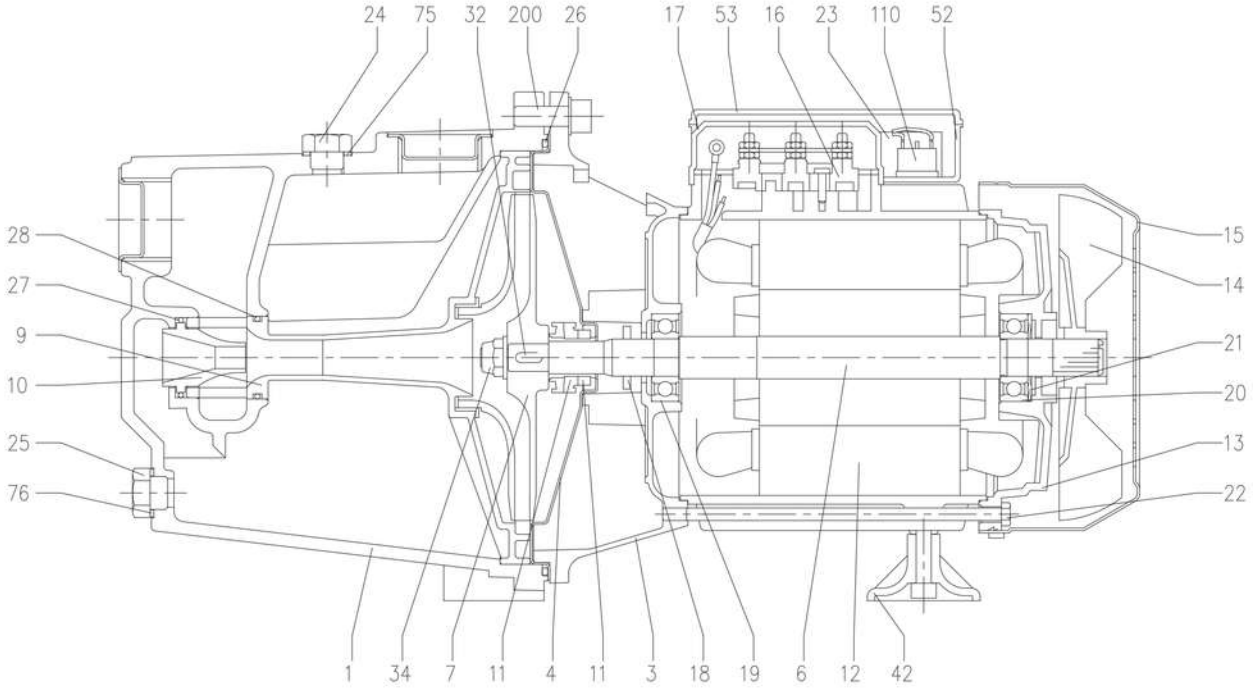
Dimensions in mm								
1	A	180	N1	180				
2	B	405	R	128.5				
3	C	195	S	9.5				
4	D	10.3	V	M16X1.5				
5	DNA	G 1	W	11.8				
6	E	127	Weight P&M	14.8 kg				
7	F	9						
8	H	185						
9	H1	152						
10	H2	33						
11	H3	197.5						
12	M	40						
13	N	140						

EBARA

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Construction

Pump name AGA 1.00 T

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Construction

Pump name AGA 1.00 T

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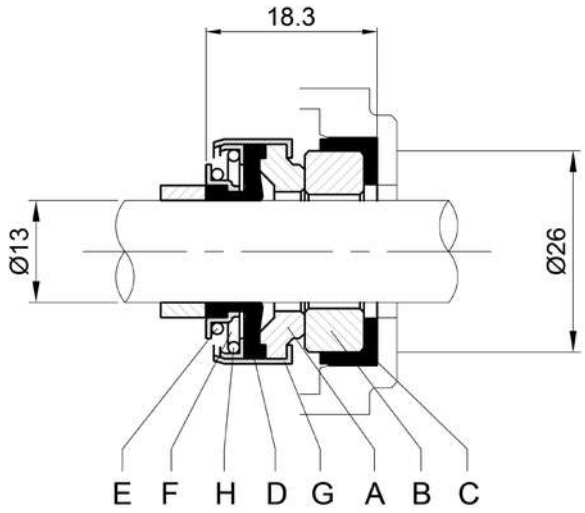
N°	PART NAME	MATERIAL	Q.TY
1	Casing	Cast iron	1
3	Motor bracket [1]	-	1
4	Casing cover [2]	AISI 304	1
6	Shaft with rotor	AISI 303 (wet extension)	1
7	Impeller [3]		1
9	Diffuser + Venturi tube	PPE+PS glass fibre reinforced	1
10	Venturi nozzle	PPE+PS glass fibre reinforced	1
11	Mechanical seal [4]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PA	1
15	Fan cover	Fe P04 Zincate	1
16	Terminal board	-	1
17	Terminal box cover [5]	Aluminium	1
18	Splash ring	NBR	1
19	Pump side ball bearing	-	1
20	Fan side ball bearing	-	1
21	Adjusting ring	Steel C70	1
22	Tie rod	Fe 42 Zincate	4
23	Capacitor [6]	-	1
24	Priming plug	Brass	1
25	Drain plug	Brass	1
26	O-ring	NBR	1
27	O-ring	NBR	1
28	O-ring	NBR	1
32	Key	AISI 316	1
34	Impeller nut [7]	AISI 304	1
42	Foot	PP	1
52	Capacitor box [8]	ABS class V-0	1
53	Capacitor box cover [9]	ABS class V-0	1
75	Washer	Aluminium	1
76	Washer	Aluminium	1
110	Protector [8]	-	1
200	Screw	Zn Steel Cl. 8.8 ISO 898-1	4

[1] Material : Cast iron for version AGA 1.50 - AGA 2.00 - AGA 3.00 - AGC 1.50 - AGC 2.00 - AGC 3.00
Aluminium for version AGA 0.60 - AGA 0.75 - AGA 1.00
[2] Only for version AGA 0.60 - AGA 0.75 - AGA 1.00
[3] Material : PPE+PS glass fibre reinforced for version AGA 0.60 - AGA 0.75 - AGA 1.00
Brass for version AGA 1.50 - AGA 2.00 - AGA 3.00 - AGC 1.50 - AGC 2.00 - AGC 3.00
[4] See **CONSTRUCTION 3**
[5] Only for three phase
[6] Only for single phase
[7] Only for version with impeller in Brass
[8] Only for version single phase AGA 1.50 - AGA 2.00 - AGC 1.50 - AGC 2.00
[9] With gasket in NBR only for version single phase AGA 0.60 - AGA 0.75 – AGA 1.00

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Construction

Pump name AGA 1.00 T

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REF	PART NAME	MATERIAL
A	Rotary seal ring	Carbon graphite
B	Stationary seal ring	Ceramic
C	Gasket	NBR
D	Bellows	NBR
E	O-Ring	AISI 304
F	Self-driving spring	AISI 304
G	Frame	AISI 304
H	Retainer ring	AISI 304