

Technical Data

Pump Name

CDA 156 T

Customer	Date	2024-07-01	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-07-01 15:55:48	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C
3	Flow	m³/h	Kin. viscosity	mm²/s
4	Head	m	Vapour pressure	bar
5	Geodetic head	m	PH value	
6	Inlet pressure (pin)	bar	Density	kg/m³
7	Available system NPSH		Solids	Weight %
8	Ambient temperature	°C		

Pump

9	Pump Name	CDA 156 T	Frequency	Hz	60	
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD	
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	
12	Speed	rpm		3450	Designed	mm
13	No. of Stage			2	Min.	mm
14	Connection	Suction side	Flow	Operating	m³/h	
15	Connection	Discharge side		Max-	m³/h	
16	Max Working Pressure	bar		10	Min-	m³/h
17	Shut-off head	bar	5.19	Head	Operating	m
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m
19	Shaft power	kW			- (Qmin.)	m
20				Max. Shaft Power at max. impeller	kW	
21	Required pump NPSH	m		Efficiency	%	

Materials

22	Impeller	BRASS		
23	Casing	Cast iron		
24	Shaft	AISI 303		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F	
29	Type	TEFC_CDA 156 M_220_Single Phase	Phases	1~	
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size		
31	Rated power	kW	1.1	Weight	kg
32	Number of poles	2	Electric voltage	V	220
33	Speed	rpm	3450	Electric current	A
34	Degree of protection	IP 55			
35					

Remarks

Performance Curve

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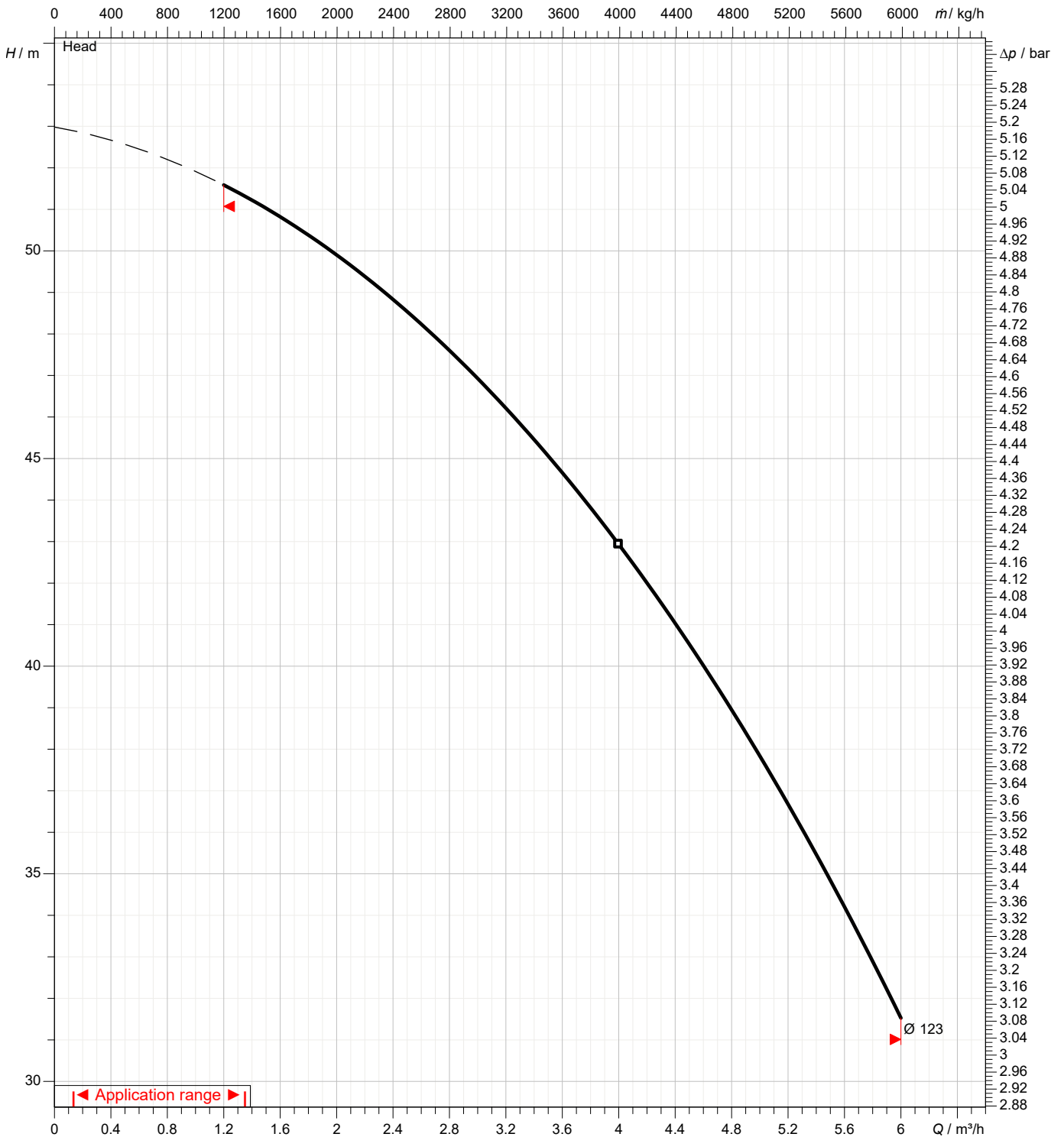
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	123	Speed	rpm	3450

Test standard: ISO 9906:2012 - Grade3B

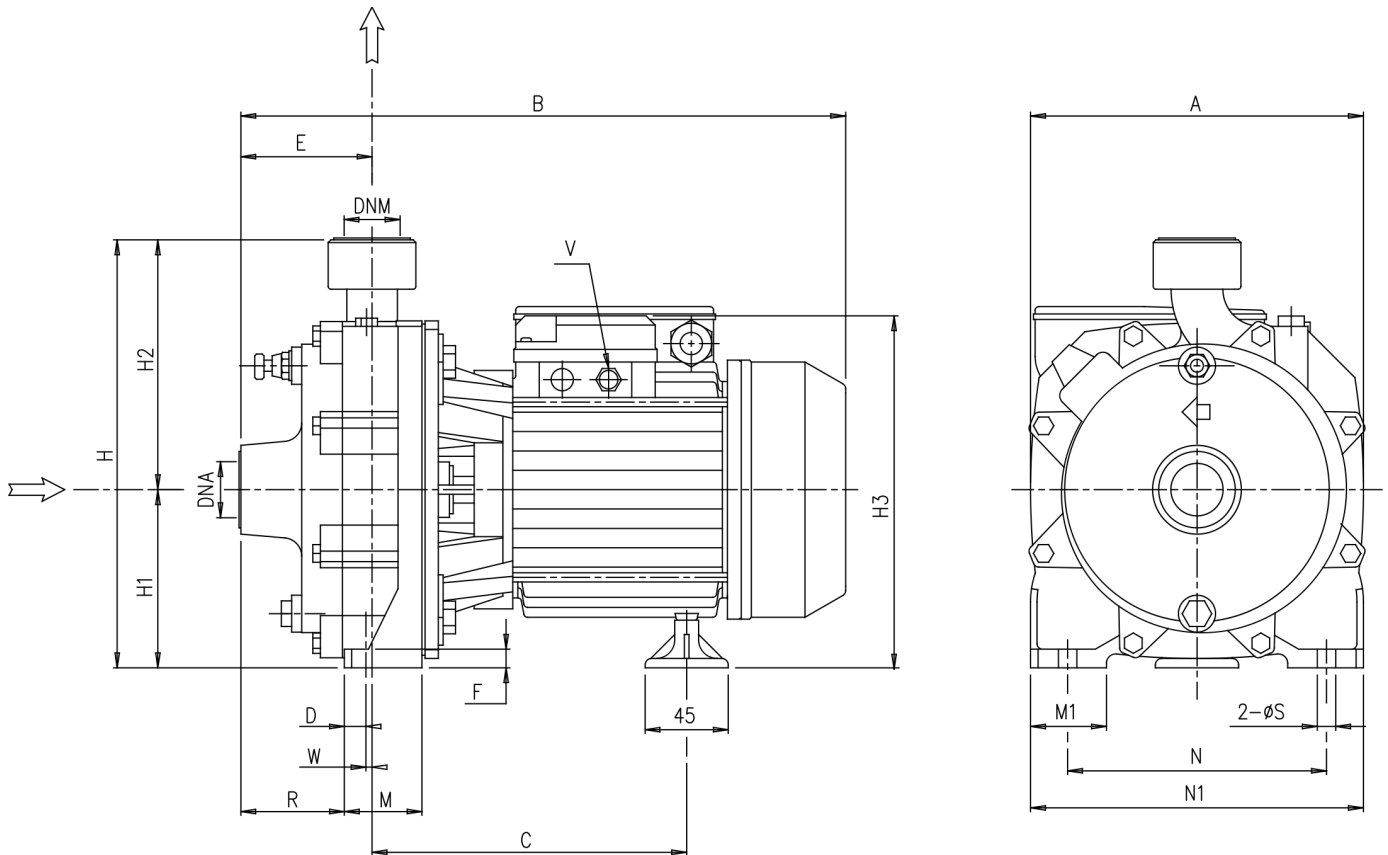
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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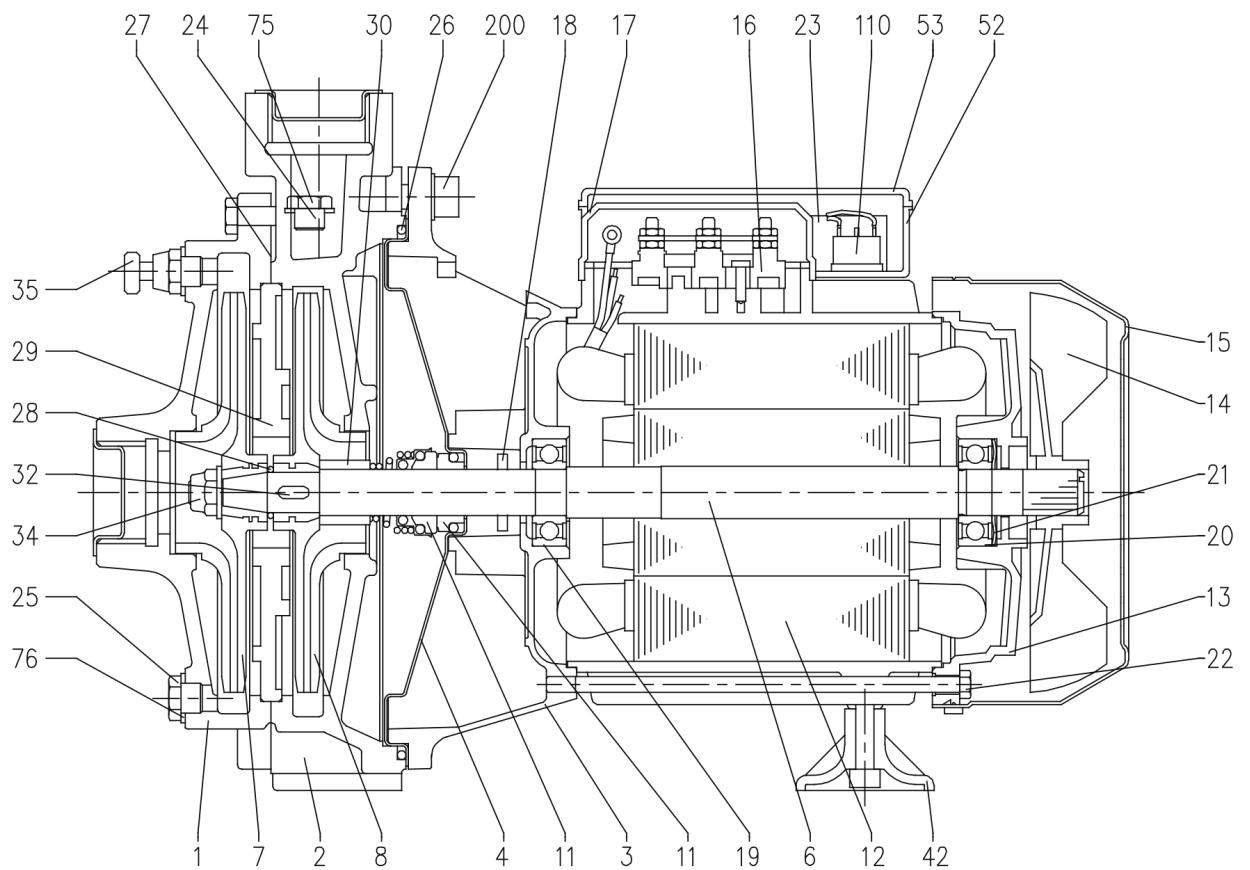
Dimensions in		mm						
1	A	194	N1	195				
2	B	395	R	66				
3	C	218	S	10				
4	D	8	V	PG 11				
5	DNA	G 1 1/4	W	12				
6	DNM	G 1	Weight P&M	24 kg				
7	E	86						
8	F	9						
9	H	265						
10	H1	110						
11	H2	155						
12	H3	224						
13	M	48						
14	M1	40						
15	N	155						

(1/3)

Construction

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(2/3)

Construction

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N°	PART NAME	MATERIAL	Q. TY
1	Casing	Cast iron	1
2	Casing	Cast iron	1
3	Motor bracket	[8]	1
4	Casing cover	[9]	1
6	Shaft with rotor	[6]	1
7	Impeller	[4]	1
8	Impeller	[4]	1
11	Mechanical seal [7]		1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PP	1
15	Fan cover	Fe P04 Zincate	1
16	Terminal box	-	1
17	Terminal box cover [2]	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 [1]	-	1
24	Priming plug	Brass	1
25	Drain plug	Brass	1
26	O-ring	NBR	1
27	Gasket	Compression cellulose fibre	1
28	O-ring	NBR	1
29	Intermediate plate	Cast iron	1
30	Mechanical seal spacer	Brass	1
32	Key	AISI 316	1
34	Impeller nut [3]	AISI 304	1
35	Air breather valve	Brass	1
42	Foot	PP	1
52	Capacitor box [1]	ABS class V-0	1
53	Capacitor box cover [10]	ABS class V-0 [10]	1
75	Washer	Aluminium	1
76	Washer	Aluminium	1
110	Protector [5]	-	1
200	Screw	Zn Steel Cl. 8.8 ISO 898-1	4

[1] Only for single phase

[2] Only for three phase

[3] Only for version with impeller in Brass

[4] PPE+PS glass fibre reinforced for version CDA 076 - CDA 106
Brass for version CDA 156 - CDA 206 - CDA 306 - CDA 406 - CDA 556

[5] Only for version single phase CDA 156 - CDA 206

[6] AISI 303 (wet extension) for version CDA 076 - CDA 106 - CDA 156 - CDA 206 - CDA 306
AISI 304 (wet extension) for version CDA 406 - CDA 556

[7] See **CONSTRUCTION 3**

[8] Aluminium for version CDA 076 - CDA 106
Cast iron for version CDA 156 - CDA 206 - CDA 306 - CDA 406 - CDA 556

[9] AISI 304 for version CDA 076 - CDA 106
Cast iron built-in the motor bracket for version CDA 156.- CDA 206 – CDA 306 - CDA 406 - CDA 556

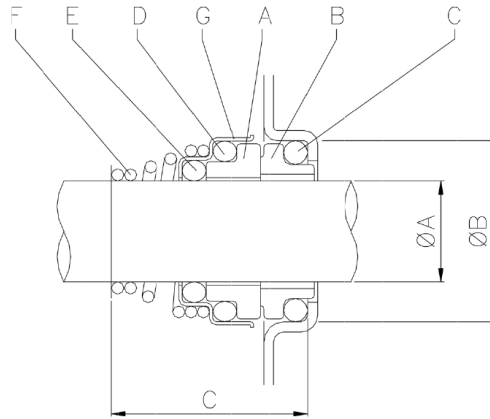
[10] With gasket in NBR only for version single phase CDA 076 – CDA 106

(3/3)

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Single Phase	Three Phase	ØA	ØB	C
CDA 076 M	CDA 076 T	15	26	29
CDA 106 M	CDA 106 T	15	26	29
CDA 156 M	CDA 156 T	18	30,9	32
CDA 206 M	CDA 206 T	18	30,9	32
-	CDA 306 T	18	30,9	32
-	CDA 406 T	20	30,9	33
-	CDA 556 T	20	30,9	33

REF	PART NAME	MATERIAL Standard version CDA
A	Rotary seal ring	ceramic
B	Stationary seal ring	carbon graphite
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Self driving spring	AISI 316
G	Frame	AISI 304