Technical data

Pump name CDA 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	CDA 1.00 T	Frequency Hz			50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max. mm		-
12	Speed 1/min	2850		Designed mm		
13	No. of Stage	2		Min. mm		-
14	Connection Suction side	UNI ISO 228	Flow	Operating l/min		
15	Connection Discharge side	UNI ISO 228		Max- l/min		90
16	Max Working Pressure kPa	600		Min- l/min		20
17	Shut-off head kPa	406.34	Head	Operating m		
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m		21.0
19	Shaft power kW			- (Qmin.) m		39.5
20			Max. Shaft Power at max. impeller kW			
21	Required pump NPSH m		Efficiency %			

Materials

22	Impeller	PPE+PS		
23	Casing	Cast iron		
24	Shaft	AISI 303		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CDA 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	2850	Electric current A	3
34	Degree of protection	IP 44		
35				

Remarks

EBARA

Performance curve

Pump name CDA 1.00 T

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Requested data

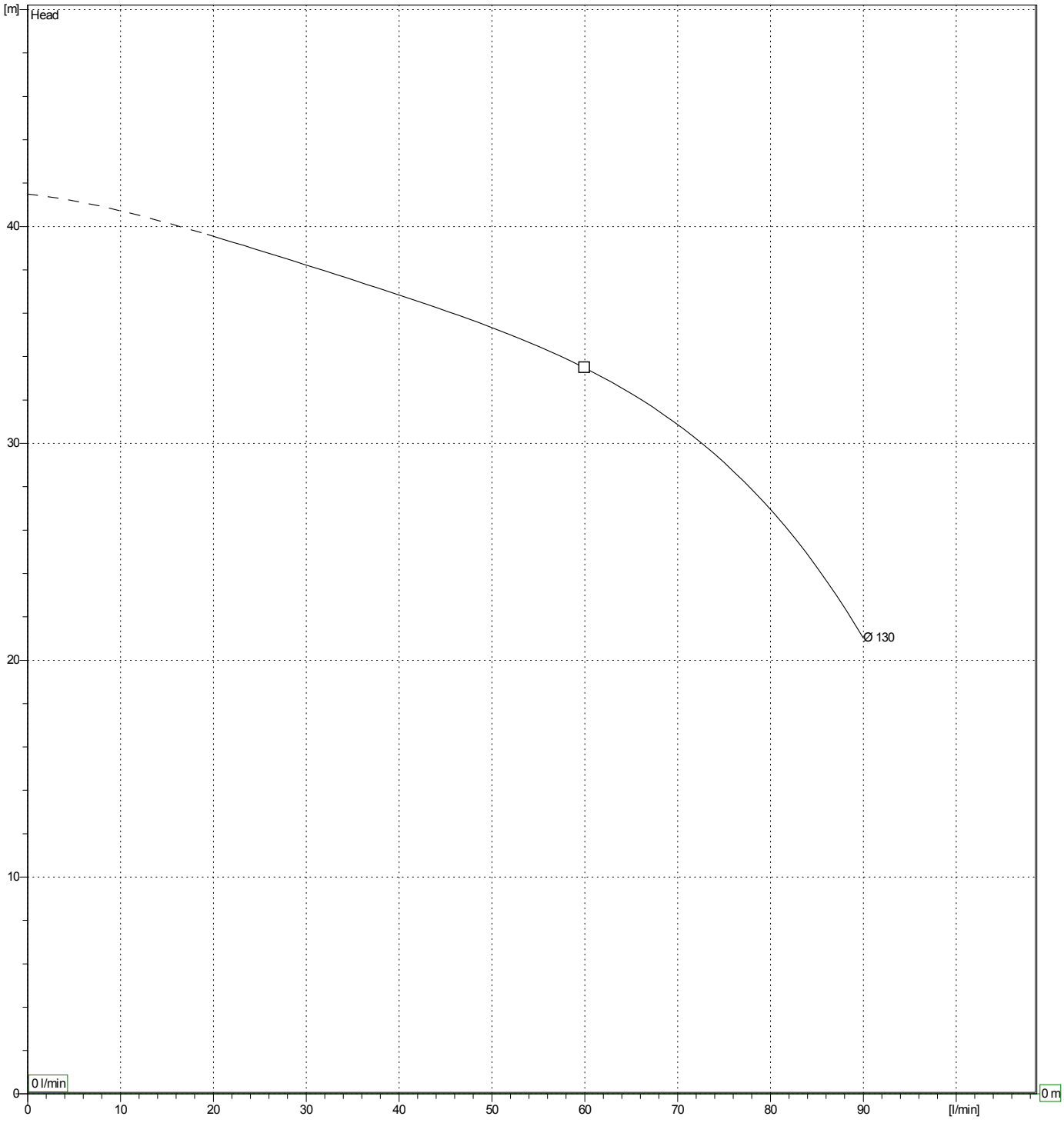
1	Flow	l/min	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	l/min		Impeller Diameter Designed	mm	
Operating Head	m		Frequency	Hz	50
			Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

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

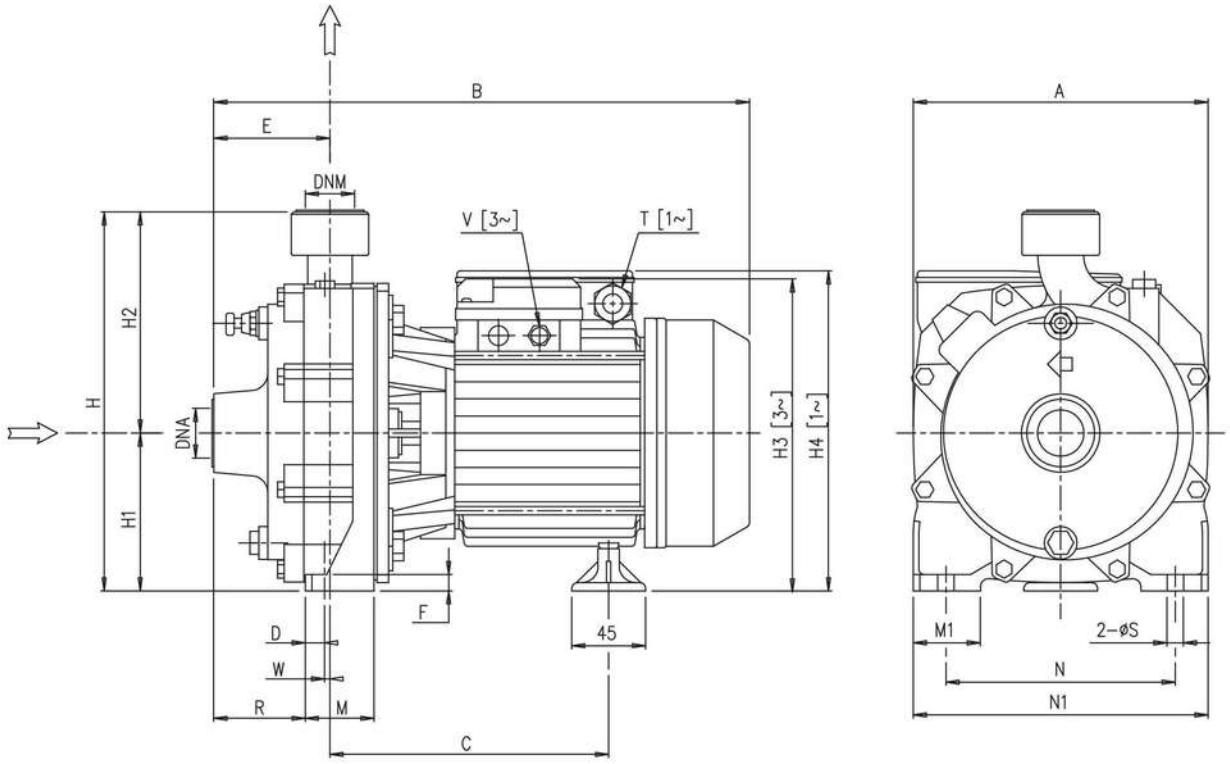


EBARA

Dimensions

Pump name CDA 1.00 T

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[1~] Single phase
[3~] Three phase

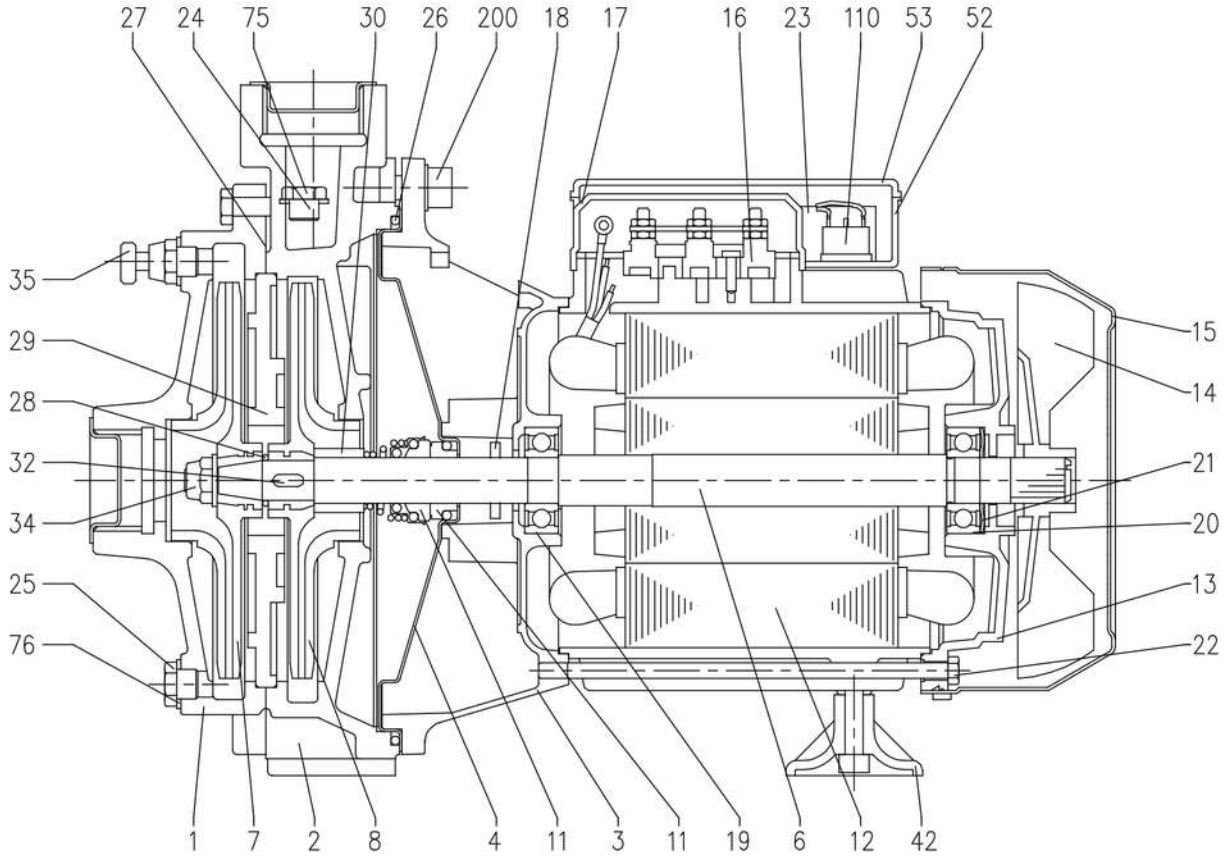
Dimensions in mm								
1	A	183	M1	40				
2	B	336.3	N	140				
3	C	179.8	N1	180				
4	D	8.3	R	57.5				
5	DNA	G1	S	9.5				
6	DNM	G1	V	M16x1.5				
7	E	73	W	6.8				
8	F	9	Weight P&M	15 kg				
9	H	227						
10	H1	97						
11	H2	130						
12	H3	197.5						
13	M	42						

EBARA

(1/3)
Construction

Pump name CDA 1.00 T

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EBARA

(2/3)
Construction

Pump name CDA 1.00 T

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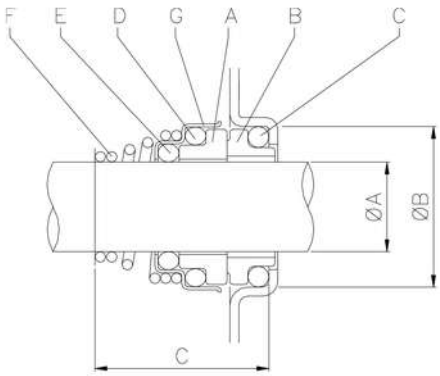
N°	PART NAME	MATERIAL	Q. TY
1	Casing	Cast iron	1
2	Casing	Cast iron	1
3	Motor bracket	[8]	1
4	Casing cover	[9]	1
6	Shaft with rotor	[6]	1
7	Impeller	[4]	1
8	Impeller	[4]	1
11	Mechanical seal [7]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PP	1
15	Fan cover	Fe 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	Compressed 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] Material : PPE+PS glass fibre reinforced for version CDA 0.75 - 1.00
Brass for version CDA 1.50 - 2.00 - 3.00 - 4.00 - 5.50
[5] Only for version single phase CDA 1.50 - 2.00
[6] Material : AISI 303 (wet extension) for version CDA 0.75 - 1.00 - 1.50 - 2.00 - 3.00
AISI 304 (wet extension) for version CDA 4.00 - 5.50
[7] See **CONSTRUCTION 3**
[8] Material : Aluminium for version CDA 0.75 - 1.00
Cast iron for version CDA 1.50 - 2.00 - 3.00 - 4.00 - 5.50
[9] Material : AISI 304 for version CDA 0.75 - 1.00
Cast iron built-in the motor bracket for version CDA 1.50 – 2.00 – 3.00 - 4.00 - 5.50
[10] With gasket in NBR only for version single phase CDA 0.75 - 1.00

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Construction

Pump name CDA 1.00 T

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Single Phase	Three Phase	ØA	ØB	C
CDA 0.75 M	CDA 0.75 T	15	26	29
CDA 1.00 M	CDA 1.00 T	15	26	29
CDA 1.50 M	CDA 1.50 T	18	30.9	32
CDA 2.00 M	CDA 2.00 T	18	30.9	32
-	CDA 3.00 T	18	30.9	32
-	CDA 4.00 T	20	30.9	33
-	CDA 5.50 T	20	30.9	33

REF	PART NAME	MATERIAL
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