Technical data

Pump name CDA 4.0 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 4.0 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	190
16	Max Working Pressure kPa	1000		Min-	l/min	50
17	Shut-off head kPa	685.36	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	48.1
19	Shaft power kW			- (Qmin.)	m	67.1
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 304		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_CDA 4.00 T_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	3	Weight	kg	0
32	Number of poles	2	Electric voltage	V	230
33	Speed 1/min	2850	Electric current	A	11.1
34	Degree of protection	IP 44			
35					

Remarks

EBARA

Performance curve

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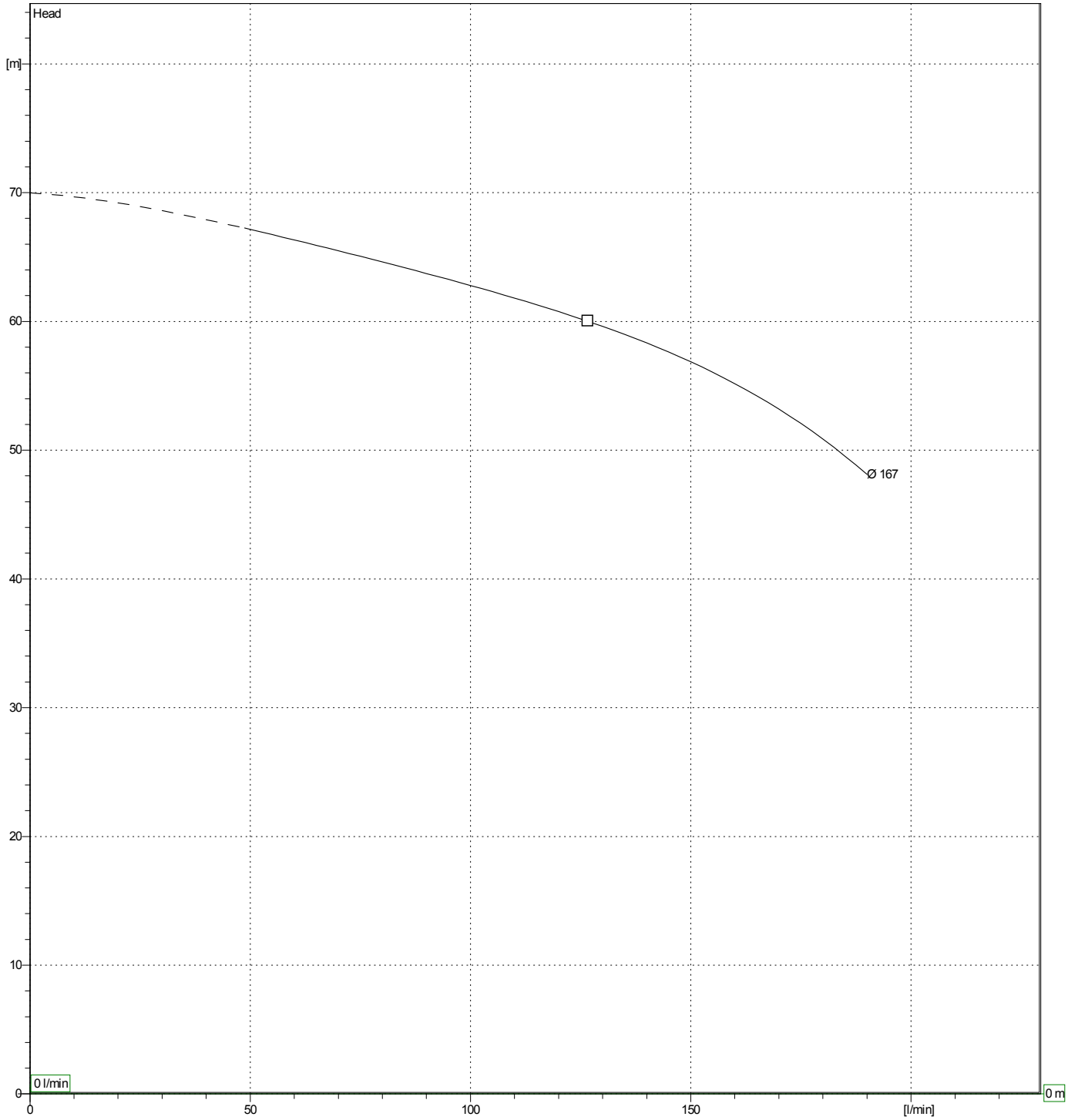
Requested data

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

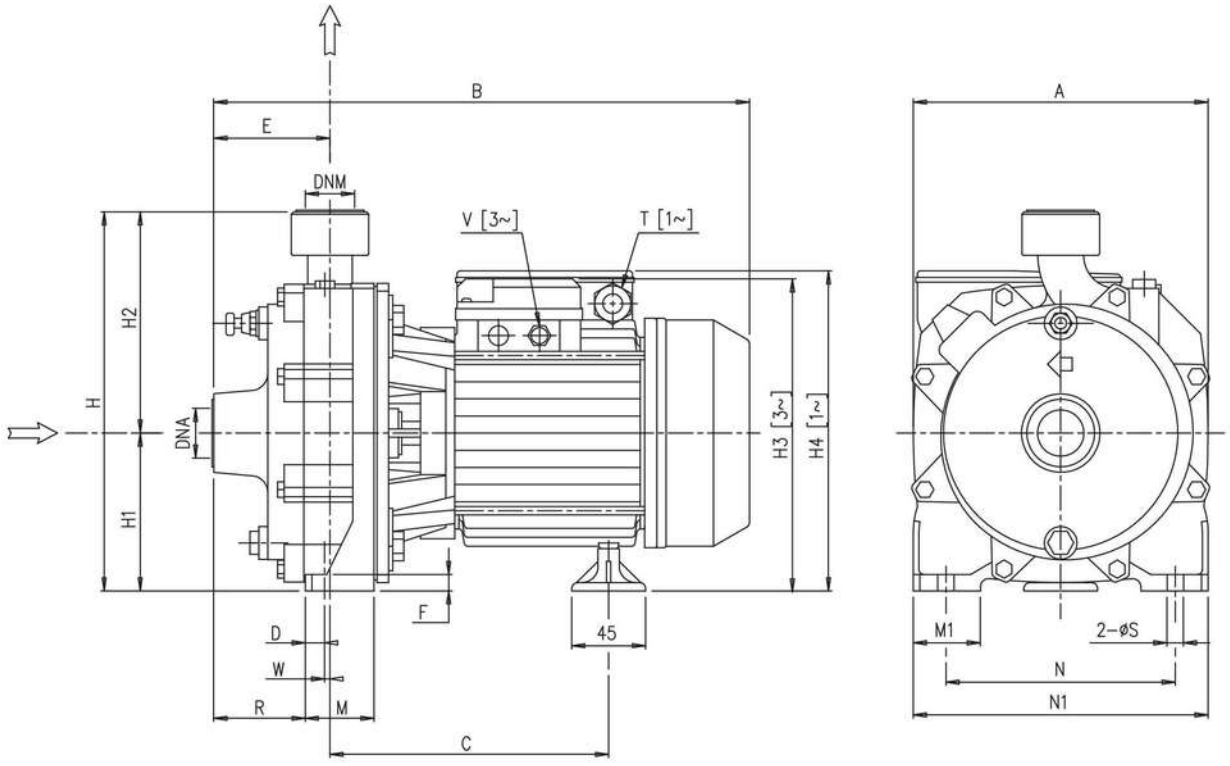


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Dimensions

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

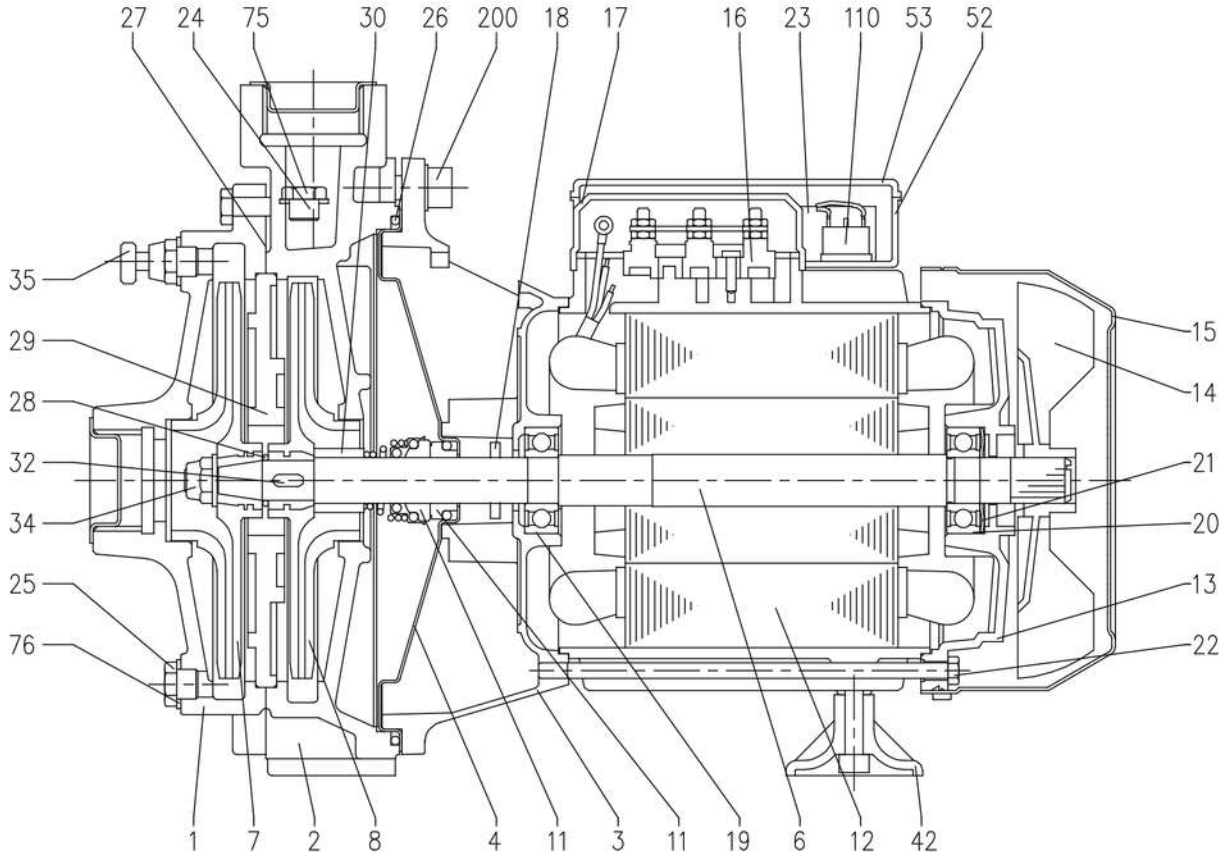
Dimensions in mm								
1	A	228	M1	50				
2	B	494.5	N	180				
3	C	225.3	N1	230				
4	D	8.3	R	71.5				
5	DNA	G1 1/2	S	12				
6	DNM	G1 1/4	V	M20x1.5				
7	E	95.5	W	12				
8	F	12	Weight P&M	46.8 kg				
9	H	308.5						
10	H1	133.5						
11	H2	175						
12	H3	259.5						
13	M	57						

EBARA

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Construction

Pump name CDA 4.0 T

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Construction

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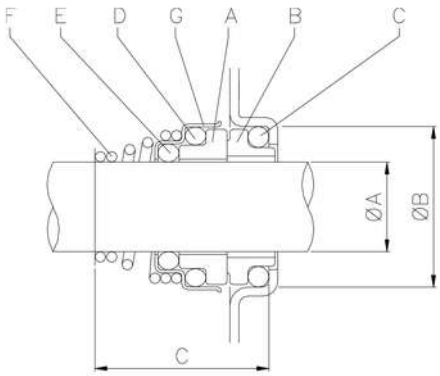
N°	PART NAME	MATERIAL	Q. TY
1	Casing	Cast iron	1
2	Casing	Cast iron	1
3	Motor bracket	[8]	1
4	Casing cover	[9]	1
6	Shaft with rotor	[6]	1
7	Impeller	[4]	1
8	Impeller	[4]	1
11	Mechanical seal [7]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PP	1
15	Fan cover	Fe 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

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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