Technical data

Pump name CMB 1.50 M

Customer	Date 23-June-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 m³/h	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	CMB 1.50 M	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	132
12	Speed 1/min	2800		Designed	mm	132
13	No. of Stage	1		Min.	mm	132
14	Connection Suction side	UNI ISO 228	Flow	Operating	m³/h	
15	Connection Discharge side	UNI ISO 228		Max-	m³/h	16.8
16	Max Working Pressure kPa	600		Min-	m³/h	6
17	Shut-off head kPa	219.37	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	16.2
19	Shaft power kW			- (Qmin.)	m	22.5
20			Max. Shaft Power at max. impeller		kW	1.28
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	Cast iron		
23	Casing	Cast iron		
24	Shaft	AISI 303 (wet extension		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_CMB 1.50 M_230_Single Phase	Phases		1~
30	Specific design	- / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	1.1	Weight	kg	0
32	Number of poles	2	Electric voltage	V	230
33	Speed 1/min	2800	Electric current	A	8.2
34	Degree of protection	IP 44			
35					

Remarks

EBARA

Performance curve **Pump name** CMB 1.50 M

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

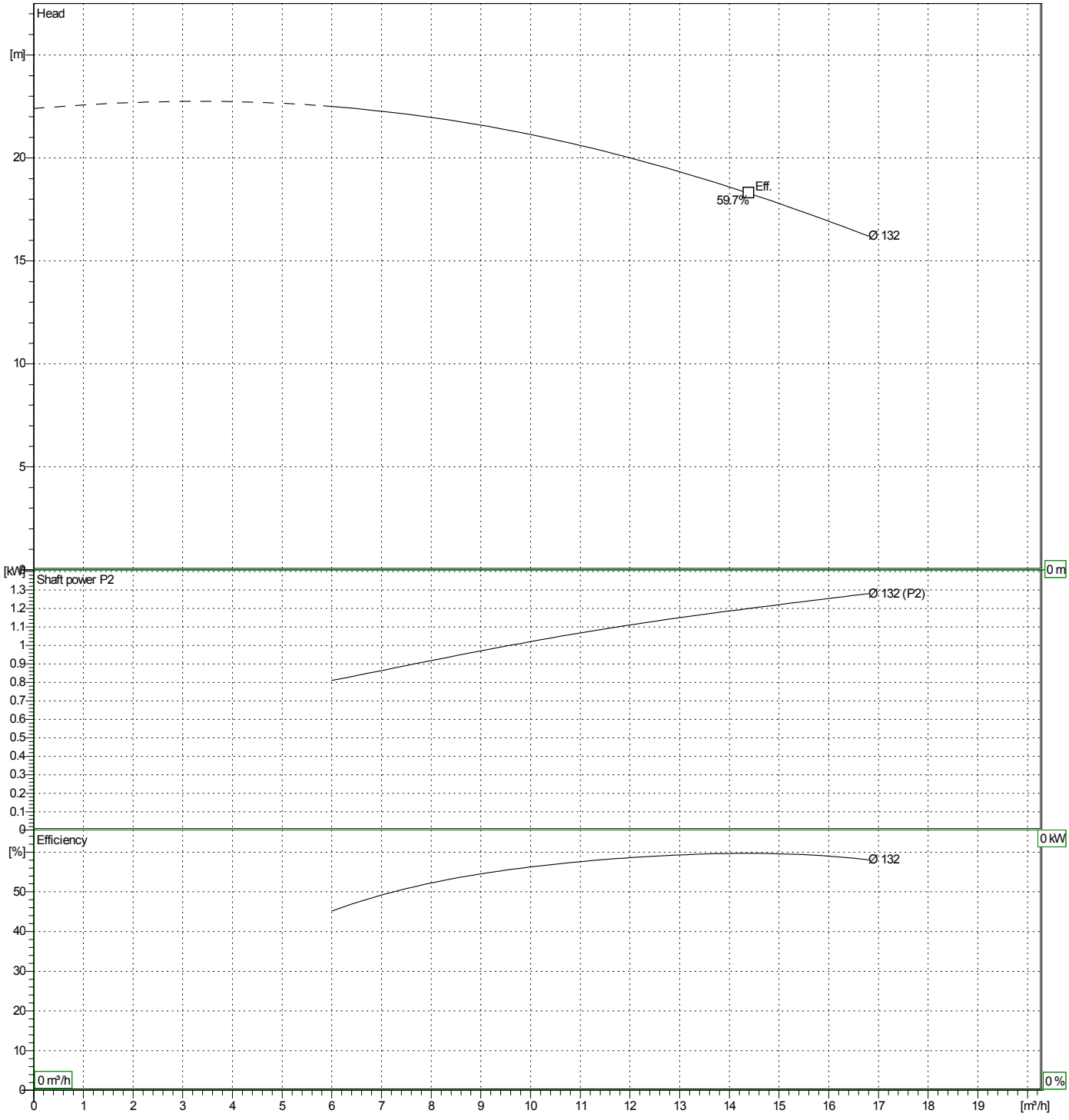
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	132	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

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

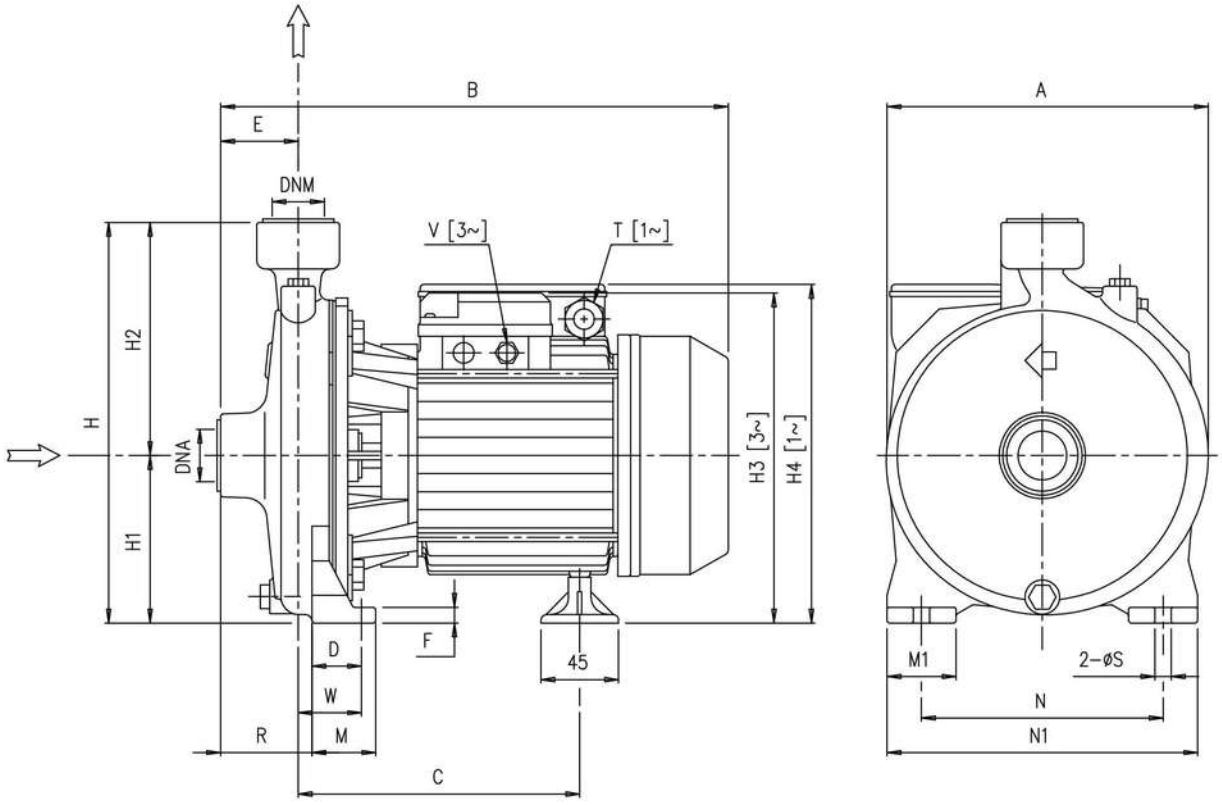


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Dimensions

Pump name CMB 1.50 M

Customer	Date 23-June-2020	Company
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[1~] Single phase
[3~] Three phase

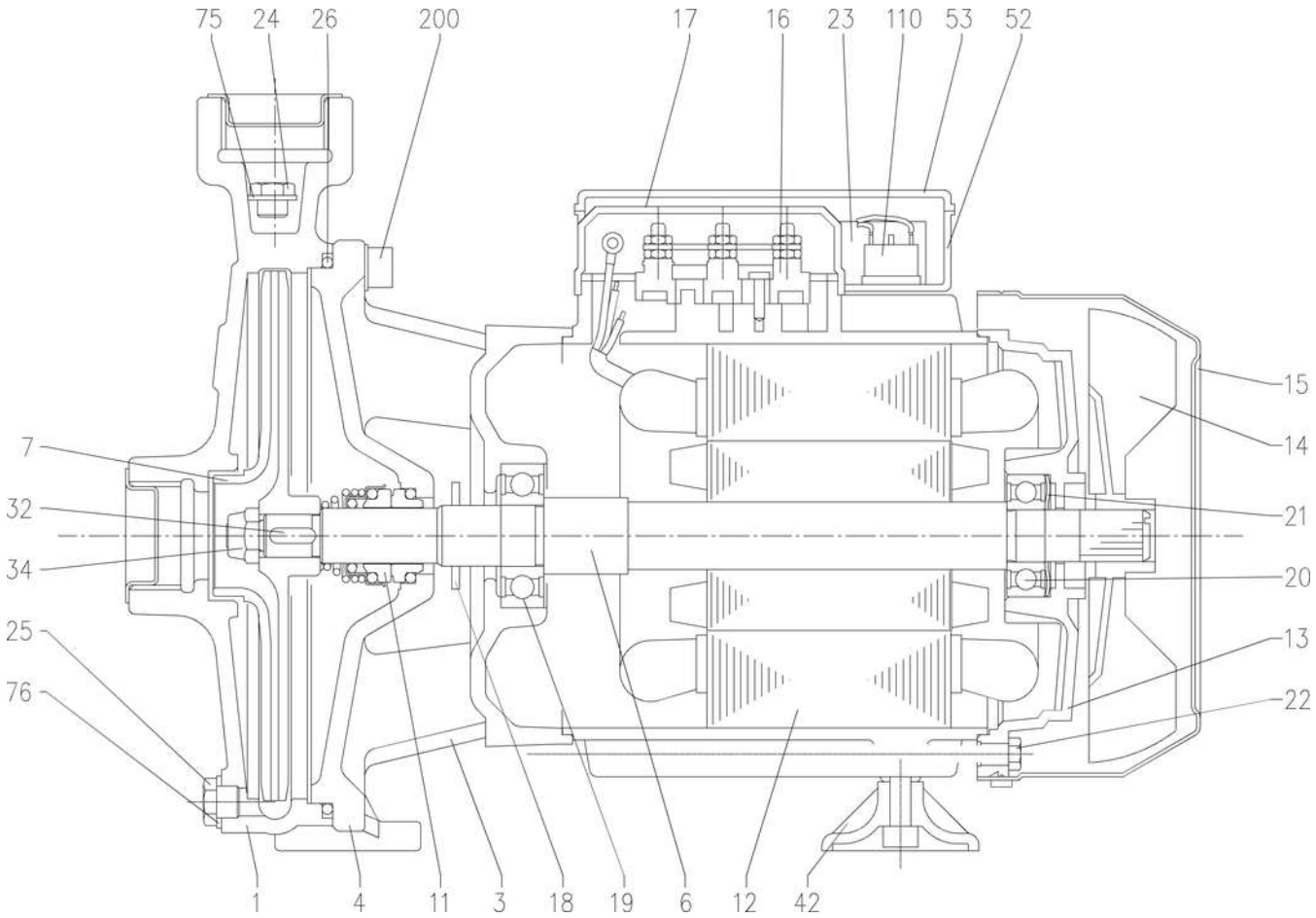
Dimensions in mm								
1	A	188	M1	40				
2	B	349.3	N	140				
3	C	206.3	N1	180				
4	D	36.8	R	65.5				
5	DNA	G 2	S	9.5				
6	DNM	G 1 1/4	T	PG 13.5				
7	E	49.5	W	52.8				
8	F	9	Weight P&M	19.9 kg				
9	H	251.5						
10	H1	101.5						
11	H2	150						
12	H4	233.5						
13	M	63						

EBARA

(1/3)
Construction

Pump name CMB 1.50 M

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
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EBARA

(2/3)
Construction

Pump name CMB 1.50 M

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing		Cast iron			1
3	Motor bracket		Cast iron			1
4	Casing cover		AISI 304			1
6	Shaft with rotor		[1]			1
7	Impeller		[2]			1
11	Mechanical seal	[5]	Carbon/Ceramic/NBR			1
12	Motor frame with stator		-			1
13	Motor cover		Aluminium			1
14	Fan		PA			1
15	Fan cover		Fe P04 Galvanized			1
16	Terminal board		-			1
17	Terminal box cover	[3]	Aluminium			1
18	Splash ring		NBR	D35x19.5x2.5	EBARA DRAWING	1
19	Pump side ball bearing		-			1
20	Fan side ball bearing		-			1
21	Adjusting ring		Steel C70			1
22	Tie rod		Fe 42 Galvanized			4
23	Capacitor	[4]	-			1
24	Priming plug	CMD 1.50; 2.00; 3.00; 4.00	Brass	G 1/4"	UNI 338	1
		other models		G 1/8"		
25	Drain plug	CMD 1.50; 2.00; 3.00; 4.00	Brass	G 1/4"	UNI 338	1
		other models		G 1/8"		
26	O-ring		NBR			1
32	Key		AISI 316			1
34	Impeller nut	other models	AISI 304	M10	UNI 7474	1
		CMB 4.00; 5.50		M12x1.25		1
42	Foot		PP			1
52	Capacitor box	[4]	ABS class V-0			1
53	Capacitor box cover	[4]	ABS class V-0			1
75	Washer	CMD 1.50; 2.00; 3.00; 4.00	Aluminium	13.5x19x1.5		1
		other models		10x16x1.5		1
76	Washer	CMD 1.50; 2.00; 3.00; 4.00	Aluminium	13.5x19x1.5		1
		other models		10x16x1.5		1
110	Protector	[4]	-			1
200	Screw	CMD 1.50; 2.00; 3.00; 4.00	Zn Steel Cl. 8.8	M8x25	ISO 898-1	4
		CMB 1.50; 2.00; 3.00		M8x22		
		CMA 1.50		M10x35		

[1] Material: AISI303 (wet extension) for version CMA, CMB 1.50-2.00-3.00, CMD 1.50-2.00-3.00
AISI304 (wet extension) for version CMB 4.00-5.50, CMD 4.00

[2] Material: Brass for version: CMA, CMB 2.00-3.00-4.00-5.50
Cast iron for version: CMB 1.50, CMD

[3] Only for three phase

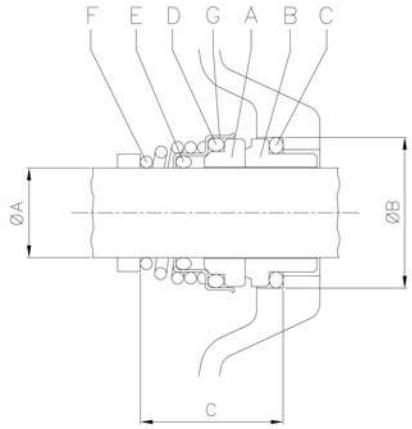
[4] Only for single phase

[5] See **CONSTRUCTION 3**

(3/3)
Construction

Pump name CMB 1.50 M

Customer	Date 23-June-2020	Company
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Pump type		Dimensions mm		
Single phase	Three phase	Ø A	Ø B	C
CMA 1.50 M	CMA 1.50 T	18	30.9	32
CMA 2.00 M	CMA 2.00 T	18	30.9	32
-	CMA 3.00 T	18	30.9	32
CMB 1.50 M	CMB 1.50 T	18	30.9	32
CMB 2.00 M	CMB 2.00 T	18	30.9	32
-	CMB 3.00 T	18	30.9	32
CMD 1.50 M	CMD 1.50 T	18	30.9	32
CMD 2.00 M	CMD 2.00 T	18	30.9	32
-	CMD 3.00 T	18	30.9	32
-	CMD 4.00 T	18	30.9	32

REF	PART NAME	MATERIAL product standard
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