

Technical Data

Pump Name

CMB 106 M

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	CMB 106 M	Frequency	Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm
12	Speed	rpm		Designed	mm
13	No. of Stage	1		Min.	mm
14	Connection	Suction side	Flow	Operating	m³/h
15	Connection	Discharge side		Max-	m³/h
16	Max Working Pressure	bar		Min-	m³/h
17	Shut-off head	bar	Head	Operating	m
18	Total weight	kg		- (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	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 106 M_220_Single Phase	Phases	1~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power	kW	Weight	kg
32	Number of poles	2	Electric voltage	V
33	Speed	rpm	Electric current	A
34	Degree of protection	IP 44		
35				

Remarks

Performance Curve

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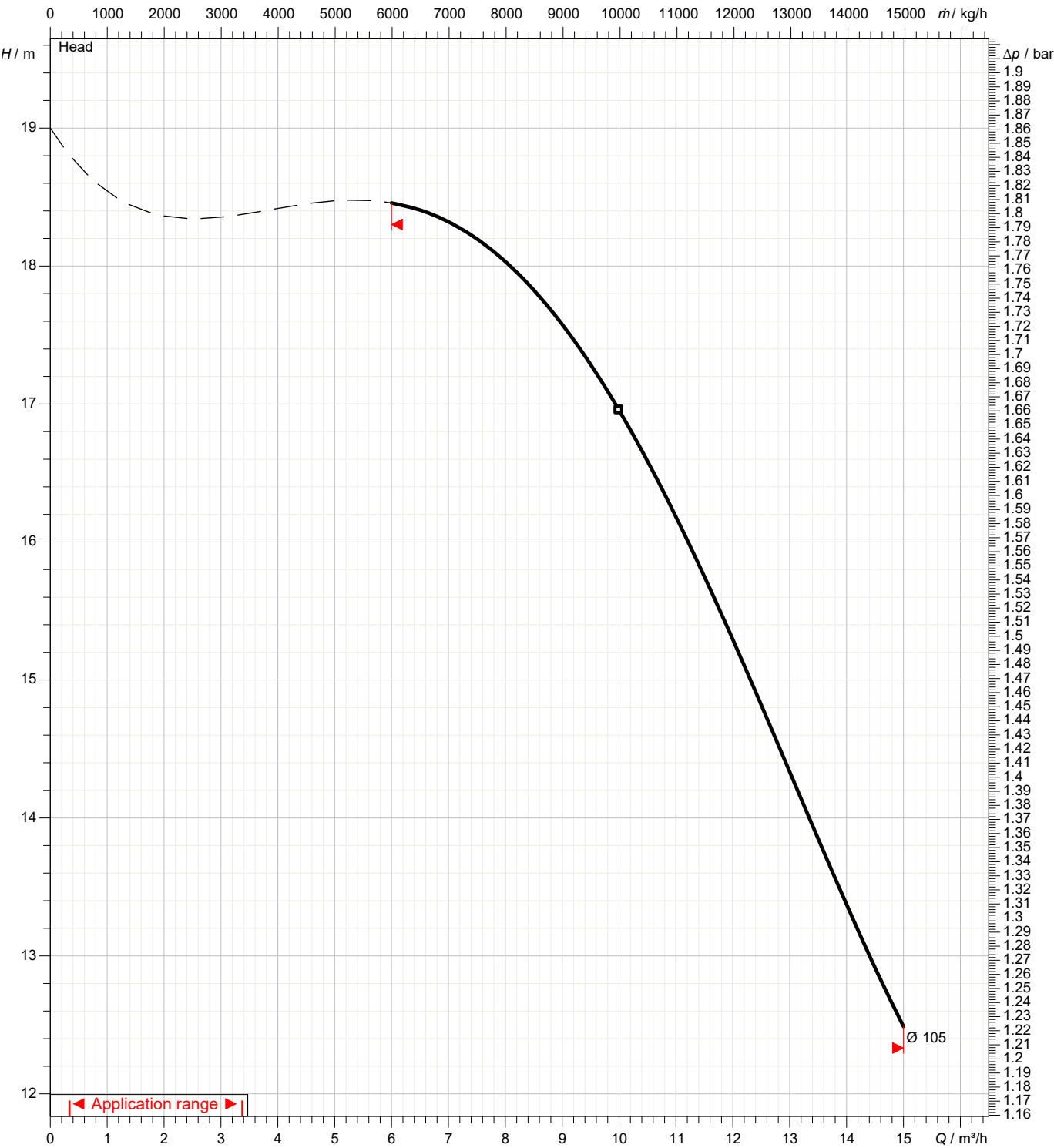
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	105	Speed	rpm	3400

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

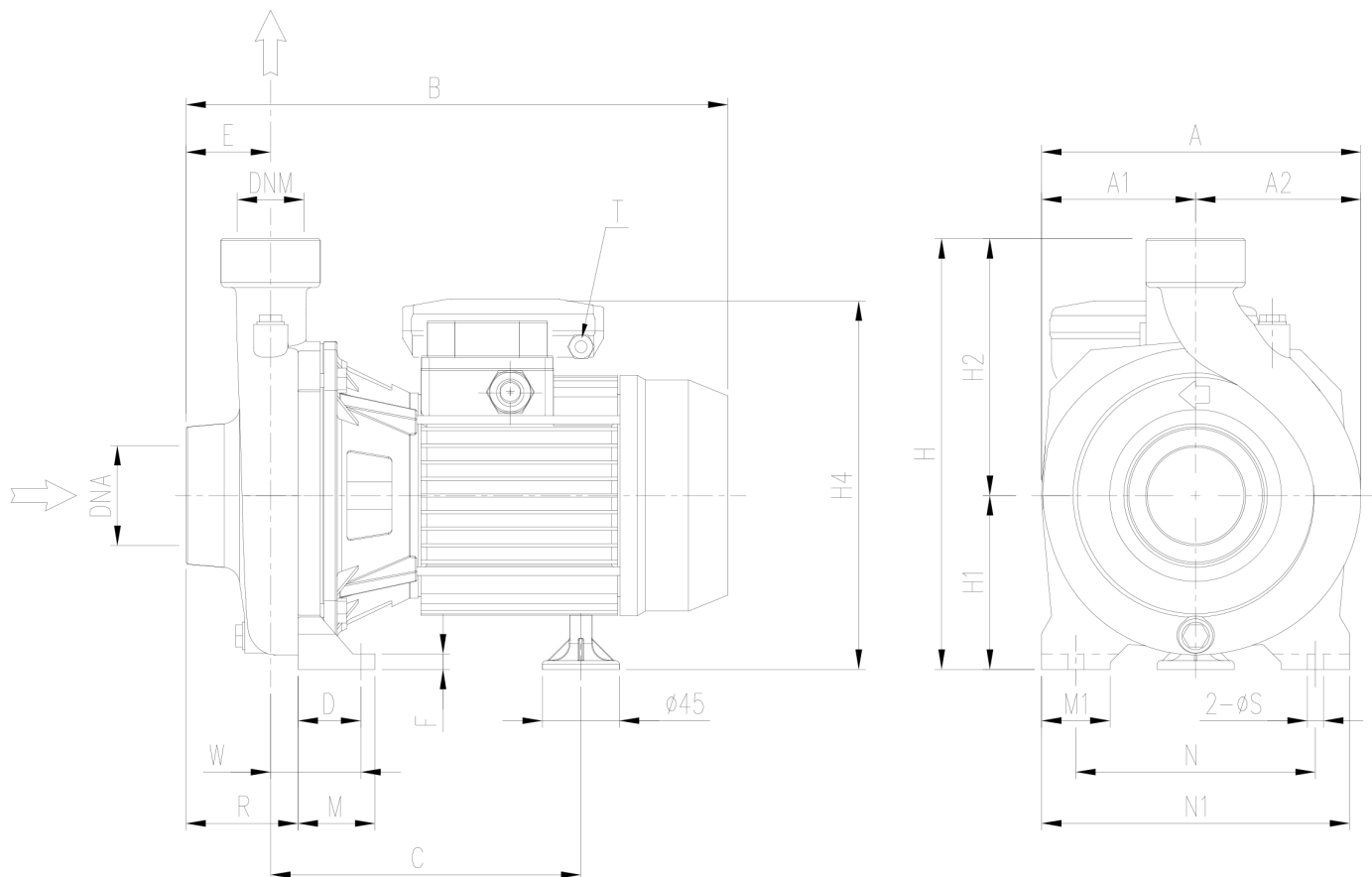


EBARA

Dimensions

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Dimensions in mm								
1	A	188	M1	40				
2	A1	90	N	140				
3	A2	98	N1	180				
4	B	316	R	65.5				
5	C	183	S	9.5				
6	D	37	T	PG 11				
7	DNA	G 2	W	53				
8	DNM	G 1 1/4	Weight P&M	14 kg				
9	E	49.5						
10	F	9						
11	H	251.5						
12	H1	101.5						
13	H2	150						
14	H4	127.5						
15	M	45						

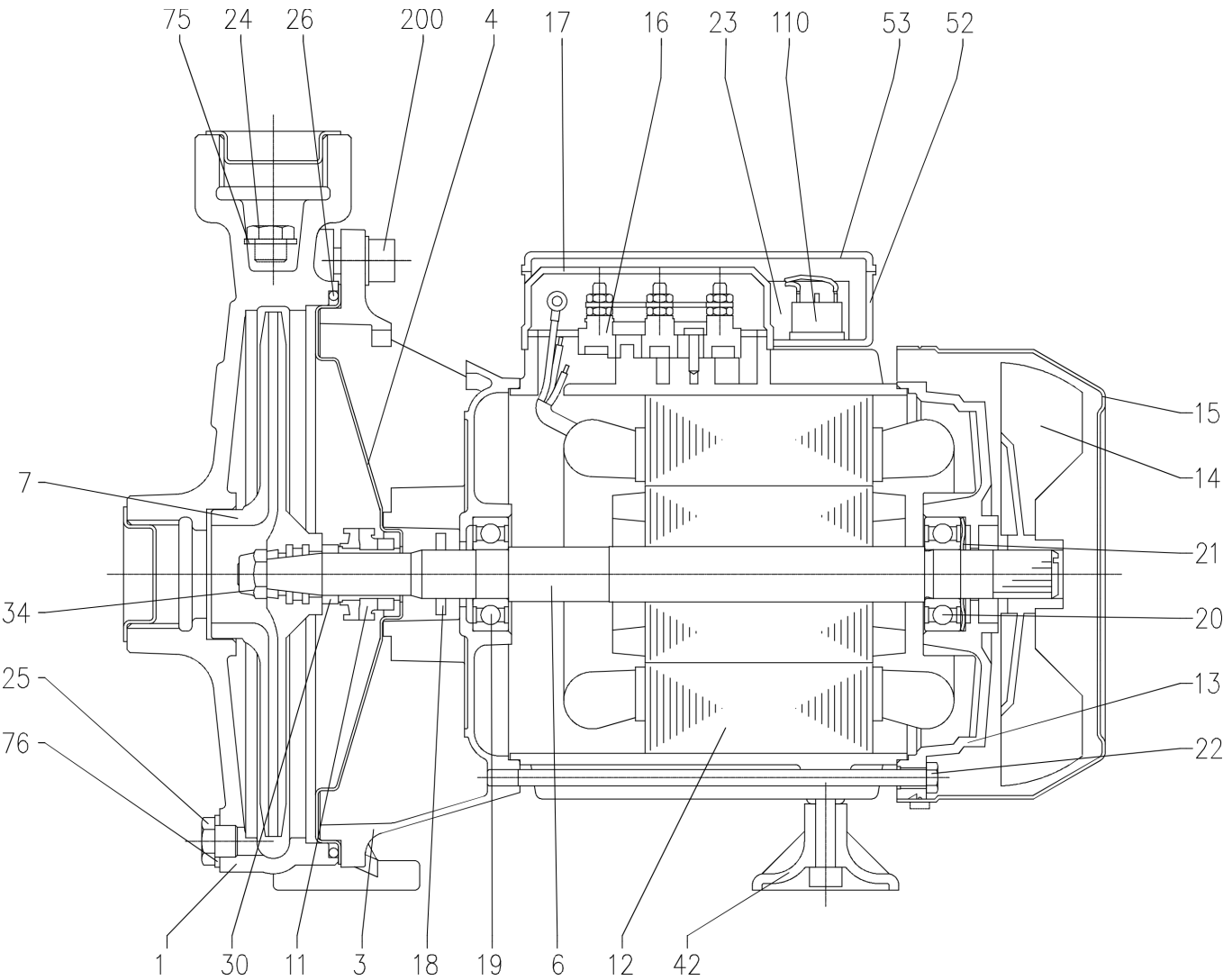
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Construction

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(2/3)

Construction

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N°	PART NAME	MATERIAL	Q.TY
1	Casing	Cast iron	1
3	Motor bracket	Aluminium	1
4	Casing cover	AISI 304	1
6	Shaft with rotor [1]	-	1
7	Impeller [2]	-	1
11	Mechanical seal [3]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PA6	1
15	Fan cover	Fe P04 Zincate	1
16	Terminal box	-	1
17	Terminal box cover [4]	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 [5]	-	1
24	Priming plug	Brass	1
25	Drain plug	Brass	1
26	O-ring	NBR	1
30	Mechanical seal spacer [6]	Brass	1
34	Impeller nut [7]	AISI 304	1
42	Foot	PP	1
52	Capacitor box [5]	ABS class V-0	1
53	Capacitor box cover [5] [8]	ABS class V-0	1
75	Washer	Aluminium	1
76	Washer	Aluminium	1
110	Protector [5]	-	-
200	Screw	Zn Steel Cl. 8.8 ISO 898-1	4

[1] Material: AISI 416 (integral) for CMA 056

AISI 303 (wet extension) for other model;

[2] Material: PPE+PS mod. glass fibre reinforced for version CMA

Cast iron for version CMB

[3] See **CONSTRUCTION 3**

[4] Only for three phase

[5] Only for single phase

[6] Only for version: CMA 056, CMB 076-106

[7] Except for CMA 056

[8] With gasket in NBR only for version single phase CMA 056-076-106, CMB 076-106

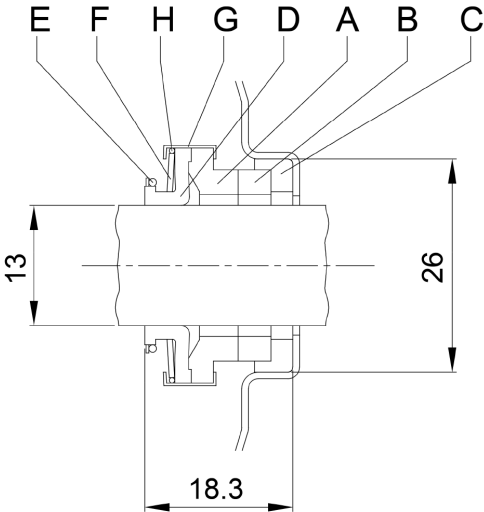
(3/3)

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REF	PART NAME	MATERIAL
		Standard version
A	Rotary seal ring	Carbon Graphite
B	Stationary seal ring	Ceramic
C	Gasket	NBR
D	Bellows	NBR
E	Ring	Al SI 304
F	Self driving spring	Al SI 304
G	Frame	Al SI 304
H	Retainer ring	Al SI 304