

Technical Data

Pump Name

CMA 206 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	0	Density	kg/m³
7	Available system NPSH		Solids	Weight %
8	Ambient temperature °C	20		

Pump

9	Pump Name	CMA 206 M	Frequency	Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm	159
12	Speed rpm	3400		Designed mm	159
13	No. of Stage	1		Min. mm	159
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h	
15	Connection Discharge side	UNI ISO 228		Max- m³/h	7.2
16	Max Working Pressure bar	8		Min- m³/h	1.2
17	Shut-off head bar	4.70	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	38.5
19	Shaft power kW			- (Qmin.) m	47.4
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 (wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CMA 206 M_220_Single Phase	Phases	1~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	1.5	Weight	kg
32	Number of poles	2	Electric voltage	V
33	Speed rpm	3400	Electric current	A
34	Degree of protection	IP 44		
35				

Remarks

Performance Curve

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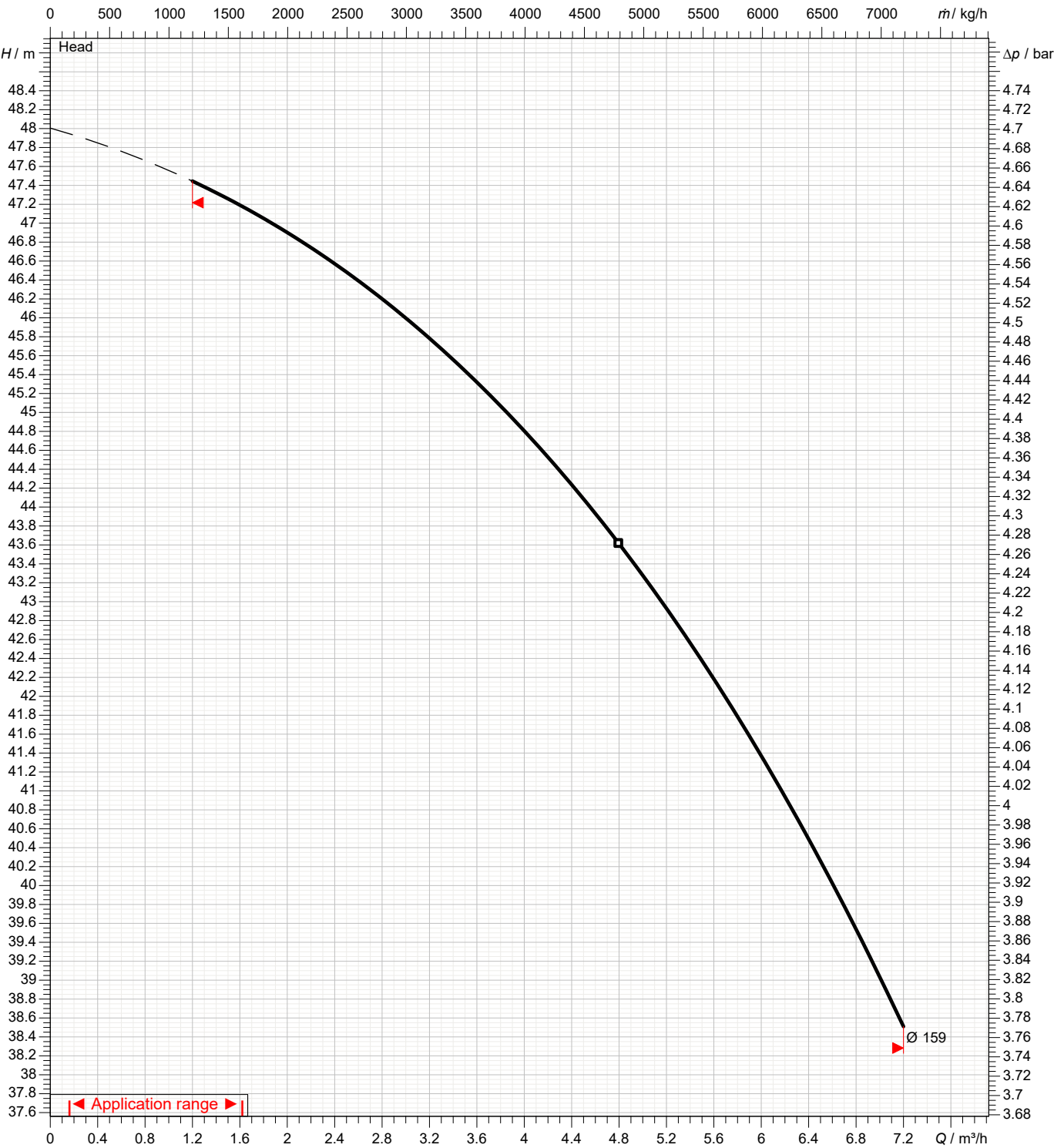
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	159	Speed	rpm	3400

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

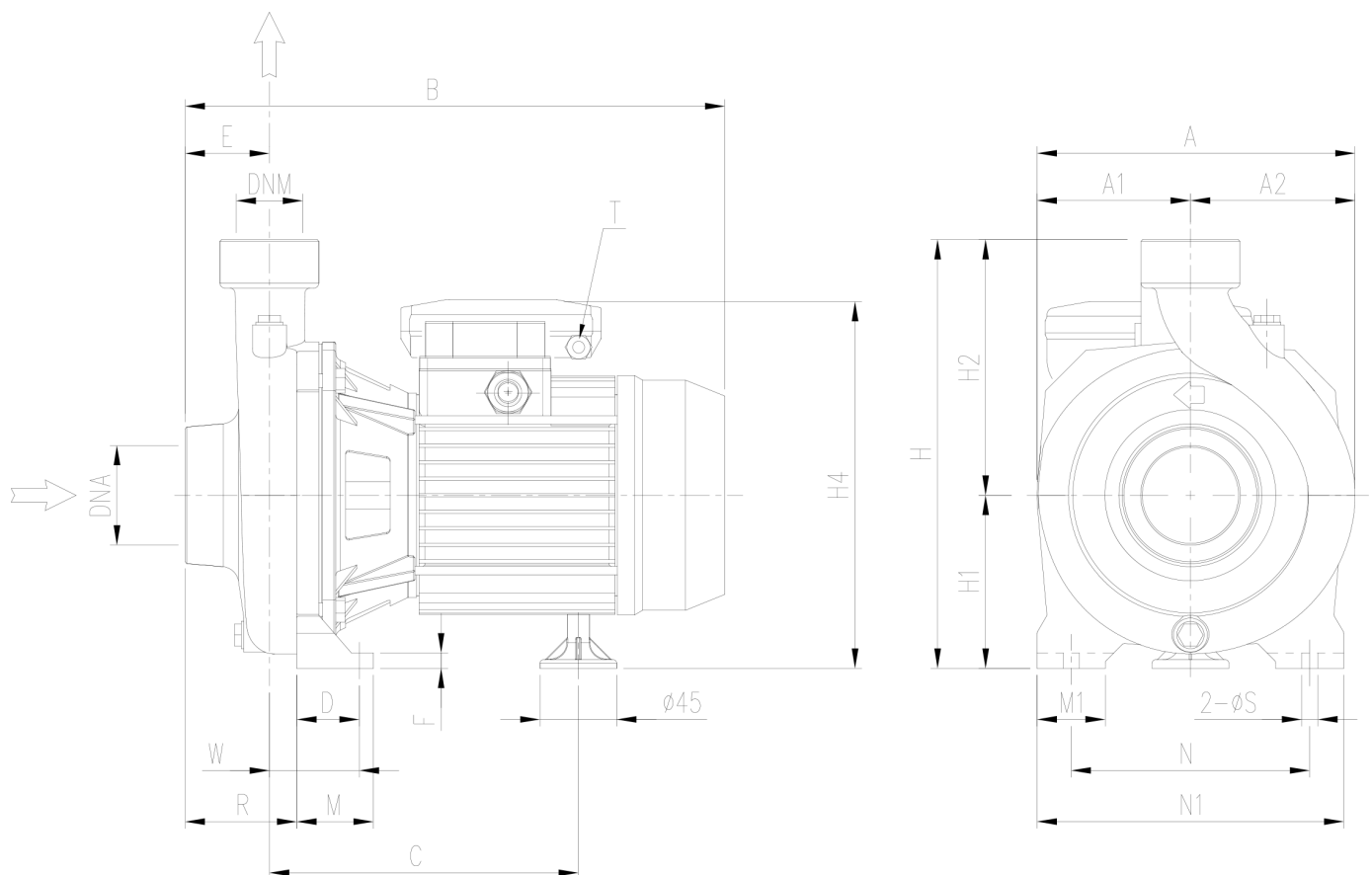


EBARA

Dimensions

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Dimensions in mm								
1	A	223	M1	40				
2	A1	110.5	N	180				
3	A2	112.5	N1	220				
4	B	361	R	45.5				
5	C	209	S	9.5				
6	D	42	T	PG 13,5				
7	DNA	G 1 1/4	W	42				
8	DNM	G 1	Weight P&M	23 kg				
9	E	45.5						
10	F	9						
11	H	285						
12	H1	115						
13	H2	170						
14	H4	247						
15	M	50						

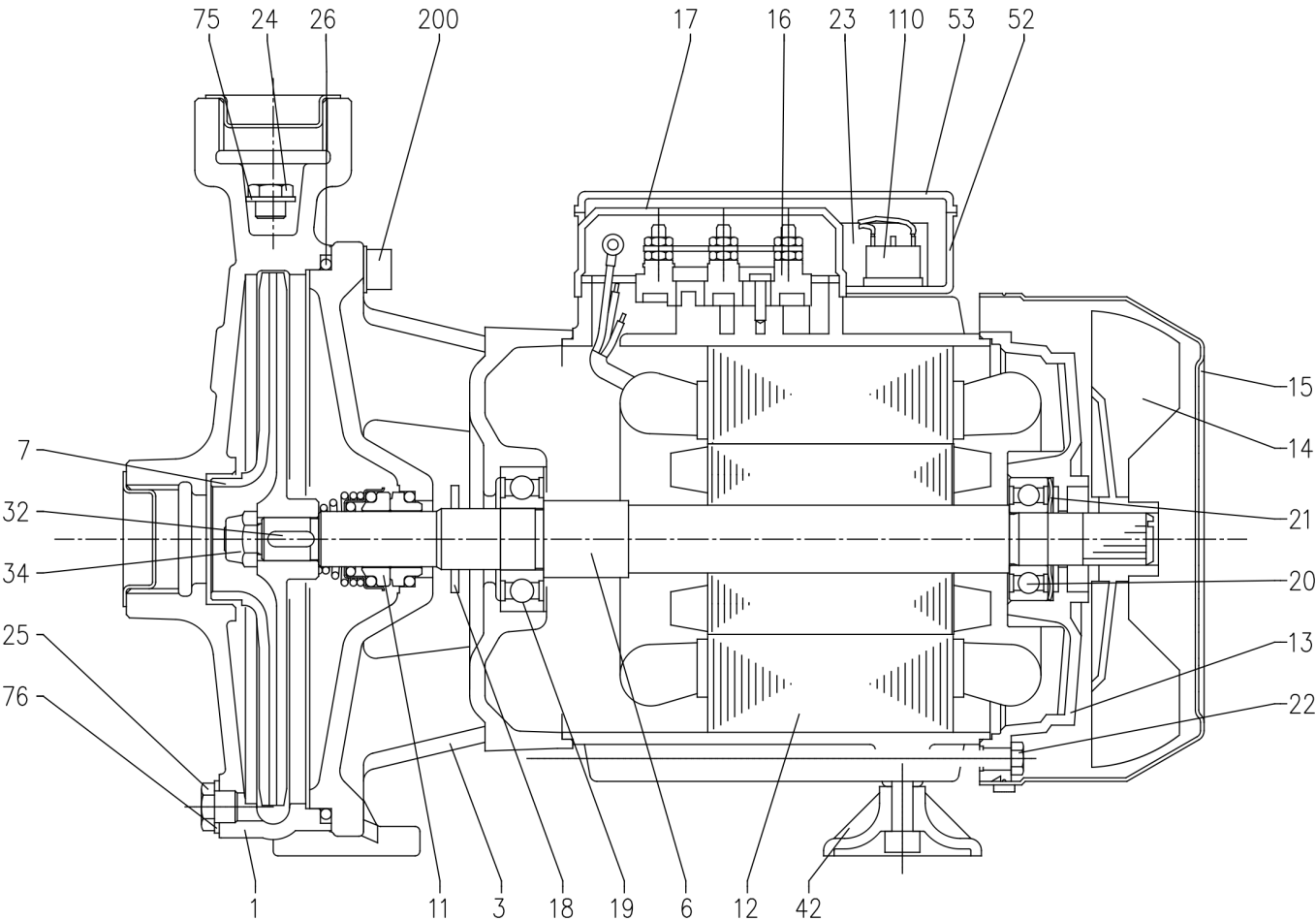
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Construction

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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	Cast iron	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 board	-	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
32	Key	AISI 316	1
34	Impeller nut	AISI 304	1
42	Foot	PP	1
52	Capacitor box [5]	ABS class V-0	1
53	Capacitor box cover [5]	ABS class V-0	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] Material: AISI 303 (wet extension) for version CMA, CMB 156-206-306, CMD 206-306

AISI 304 (wet extension) for version CMB 406-556, CMD 406

[2] Material: Brass for version: CMA, CMB 206-306-406-556

Cast iron for version: CMB 156, CMD

[3] See CONSTRUCTION 3

[4] Only for three phase

[5] Only for single phase

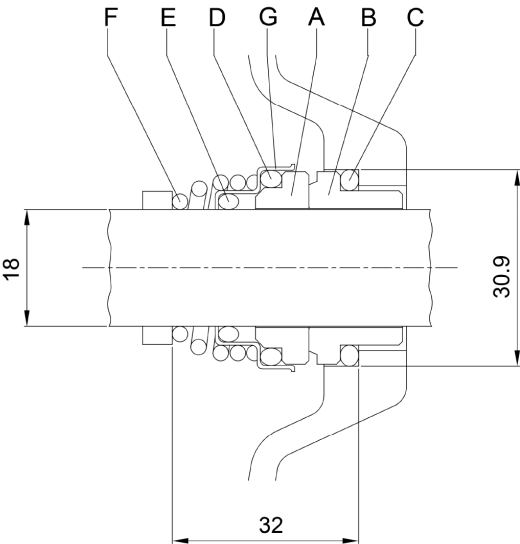
(3/3)

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REF	PART NAME	MATERIAL Standard version
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