

Technical Data

Pump Name

CMR 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	20
3	Flow m³/h		Kin. viscosity mm²/s	1.005
4	Head m		Vapour pressure bar	0.0234
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump Name	CMR 106 M	Frequency Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 104
12	Speed rpm	3450		Designed mm 104
13	No. of Stage	1		Min. mm 104
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 16.5
16	Max Working Pressure bar	6		Min- m³/h 3
17	Shut-off head bar	1.68	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 7.0
19	Shaft power kW			- (Qmin.) m 16.3
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_CM R 106 M_220_Single Phase	Phases	1~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.75	Weight kg	
32	Number of poles	2	Electric voltage V	220
33	Speed rpm	3450	Electric current A	5
34	Degree of protection	IP 44		
35				

Remarks

Performance Curve

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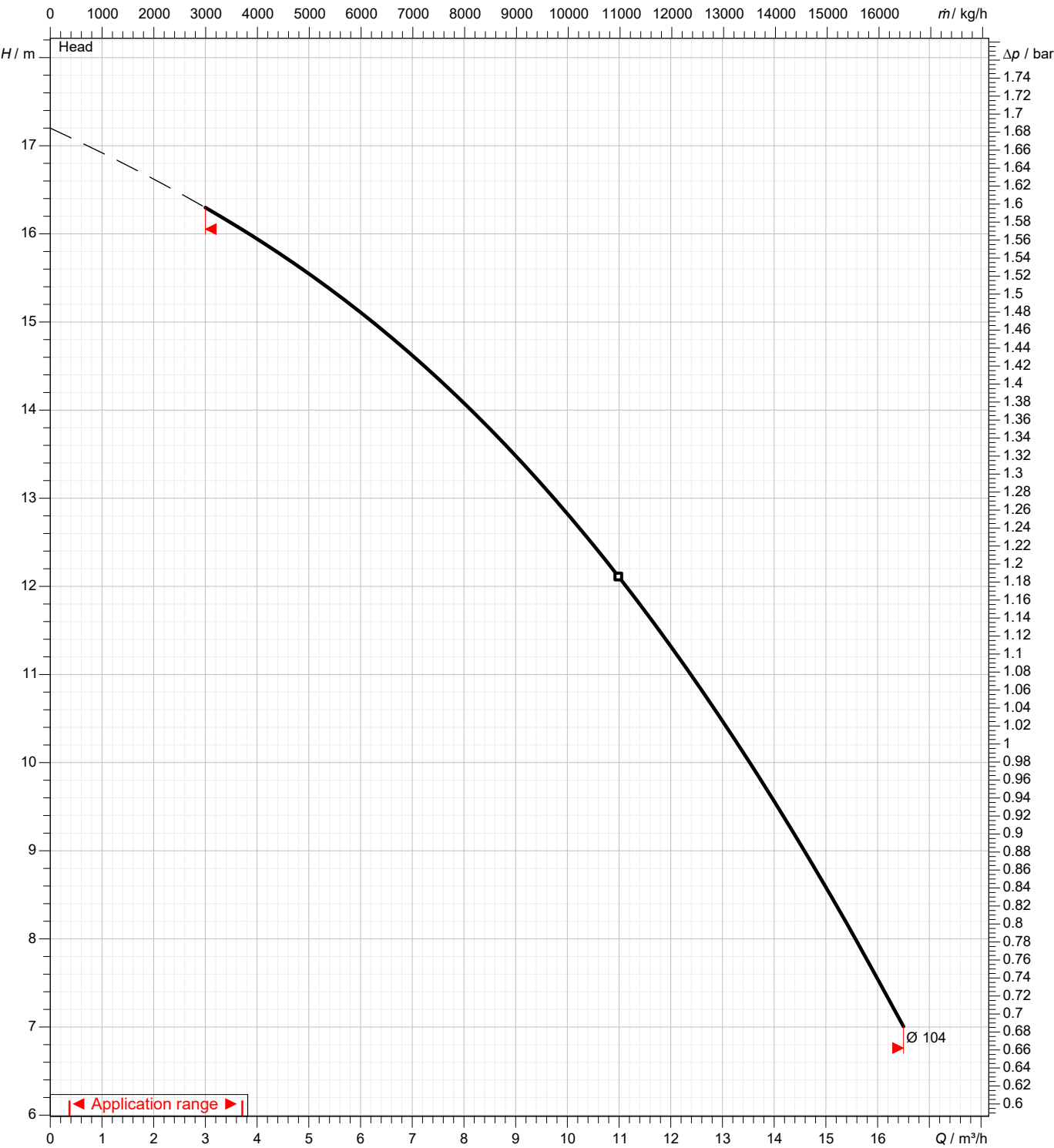
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	104	Speed	rpm	3450

Test standard: ISO 9906:2012 - Grade3B

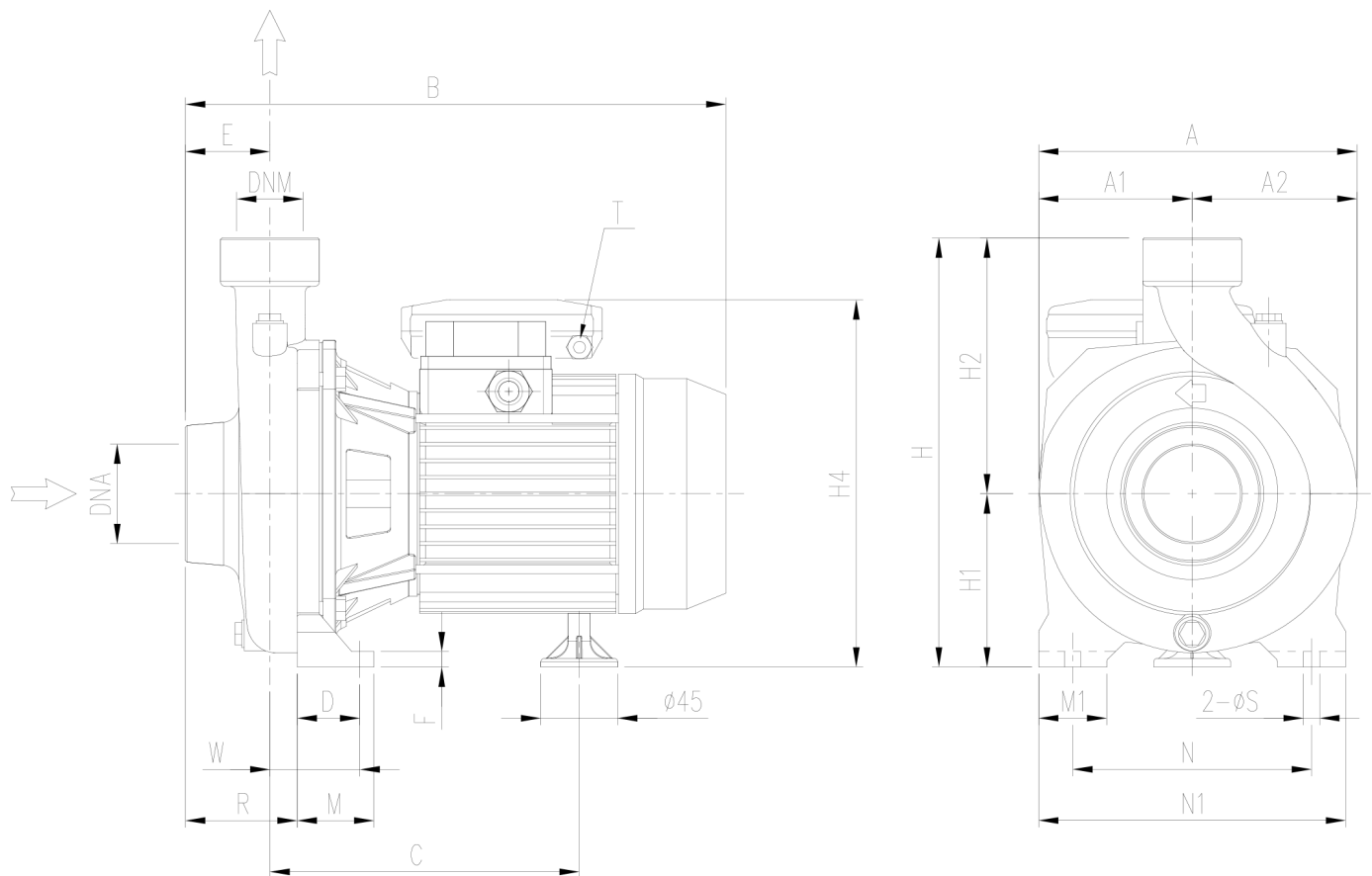
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm							
1	A	180	M1	40			
2	A1	90	N	140			
3	A2	90	N1	180			
4	B	311	R	60.5			
5	C	182	S	9.5			
6	D	37	T	PG 11			
7	DNA	G 1 1/2	W	53			
8	DNM	G 1 1/2	Weight P&M	11,9 kg			
9	E	45					
10	F	9					
11	H	229					
12	H1	97					
13	H2	132					
14	H4	198					
15	M	45					

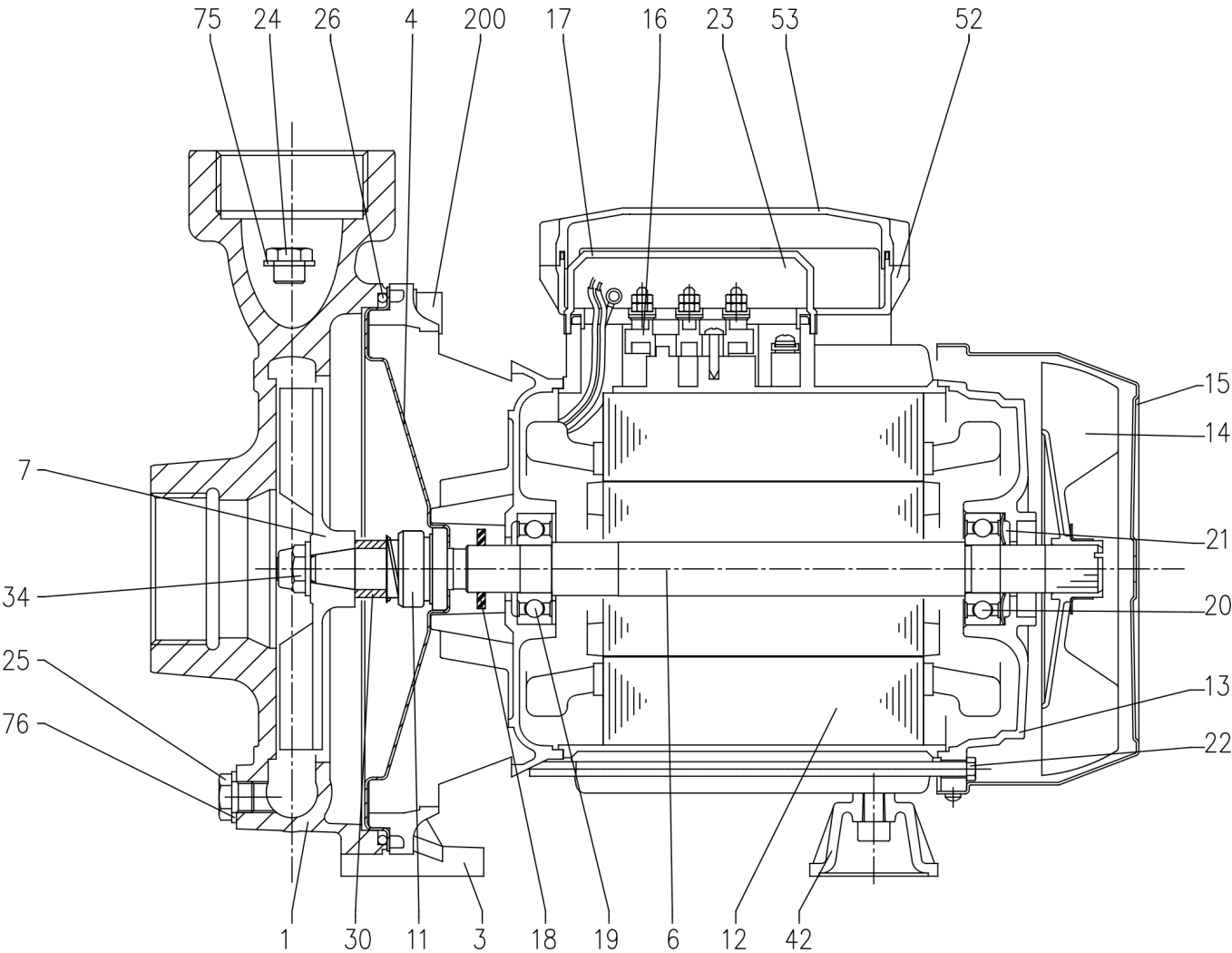
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Construction

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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	AISI 303 (wet wxtension)	1
7	Impeller	Brass	1
11	Mechanical seal [3]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover [1]	Aluminium	1
14	Fan	PP	1
15	Fan cover	Fe P04 Zincate	1
16	Terminal box	-	1
17	Terminal box cover [1]	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 [2]	-	1
24	Priming plug	Brass	1
25	Drain plug	Brass	1
26	O-ring	NBR	1
30	Mechanical seal spacer	Brass	1
34	Impeller nut	AISI 304	1
42	Foot	PP	1
52	Capacitor box [2]	ABS class V-0	1
53	Capacitor box cover with gasket [2]	ABS class V-0 + NBR	1
75	Washer	Aluminium	1
76	Washer	Aluminium	1
200	Screw	Zn Steel Cl. 8.8 ISO 898-1	4

[1] Three Phase

[2] Single Phase

[3] See **CONSTRUCTION 3**

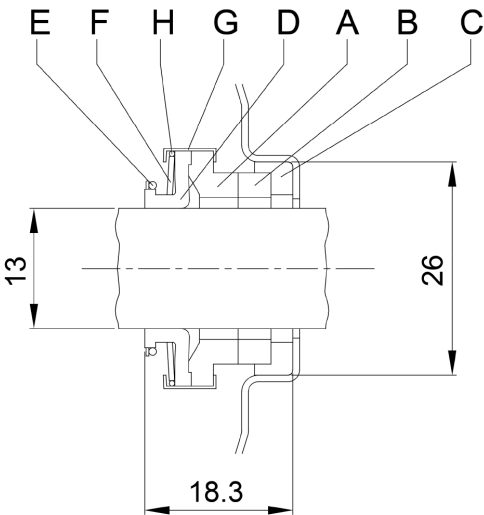
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REF	PART NAME	MATERIAL
		Standard version
A	Rotary seal ring	Carbon Graphite
B	Stationary seal ring	Ceramic
C	Gasket	NBR
D	Bellows	NBR
E	Ring	Al Si 304
F	Self driving spring	Al Si 304
G	Frame	Al Si 304
H	Retainer ring	Al Si 304