

Technical Data

Pump Name

CMB 5.50 T

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-13 13:12:02	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	CMB 5.50 T	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 204
12	Speed rpm	2800		Designed mm 204
13	No. of Stage	1		Min. mm 204
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 bar	8		Min- m³/h 6
17	Shut-off head bar	5.58	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 48.0
19	Shaft power kW			- (Qmin.) m 57.0
20			Max. Shaft Power at max. impeller	kW 4.26
21	Required pump NPSH m		Efficiency	%

Materials

22	Impeller	Brass	
23	Casing	Cast iron	
24	Shaft	AISI 304 (wet extension)	
25			
26			
27			

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CMB 5.50 T_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	4	Weight	kg
32	Number of poles	2	Electric voltage	V 230
33	Speed rpm	2800	Electric current	A 15.1
34	Degree of protection	IP 44		
35				

Remarks

Performance Curve

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Requested data

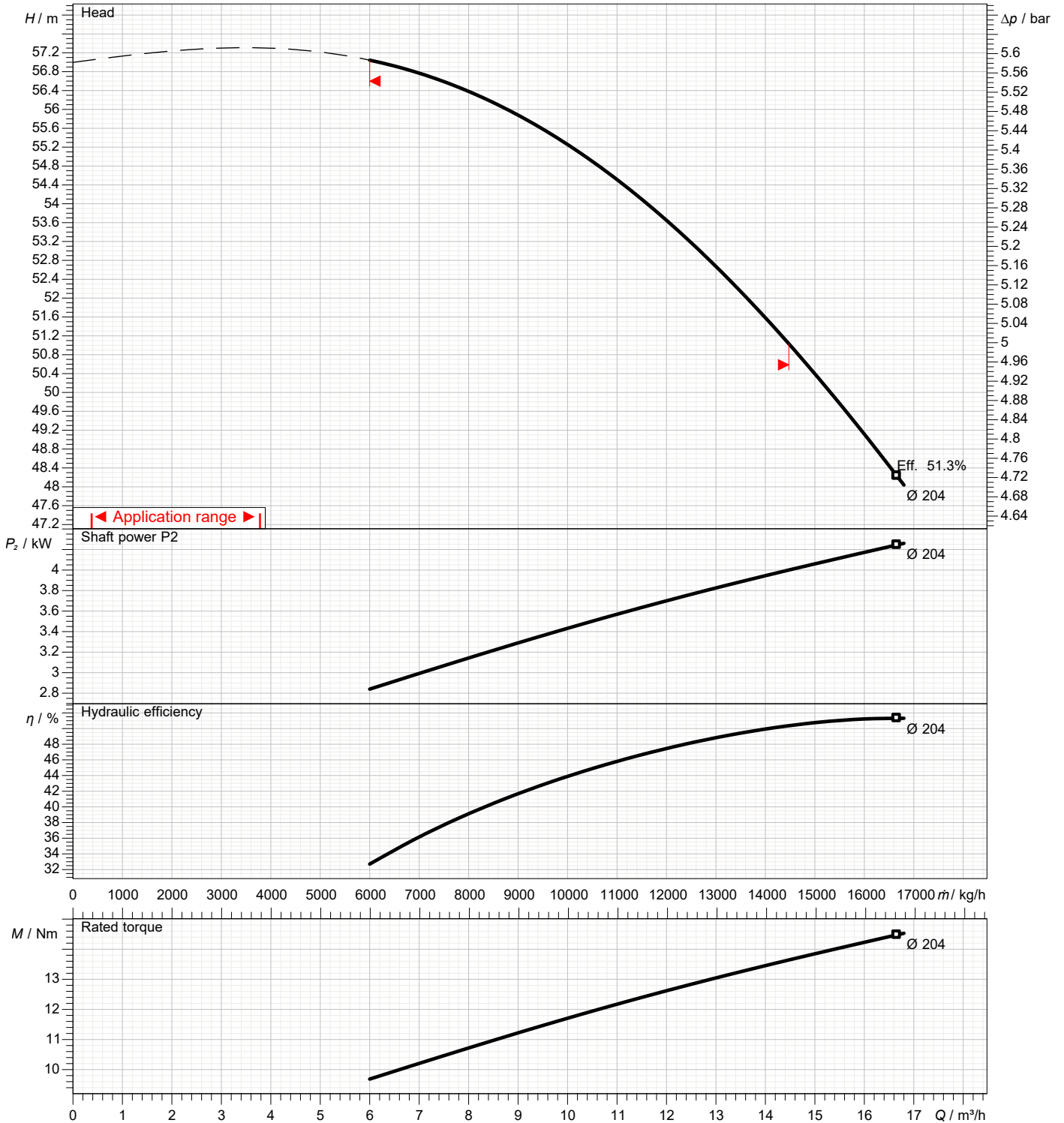
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h	Frequency	Hz	50	
Operating head	m	Number of poles		2	
Impeller diameter designed	mm	204	Speed	rpm	2800

Test standard: ISO 9906:2012 - Grade3B

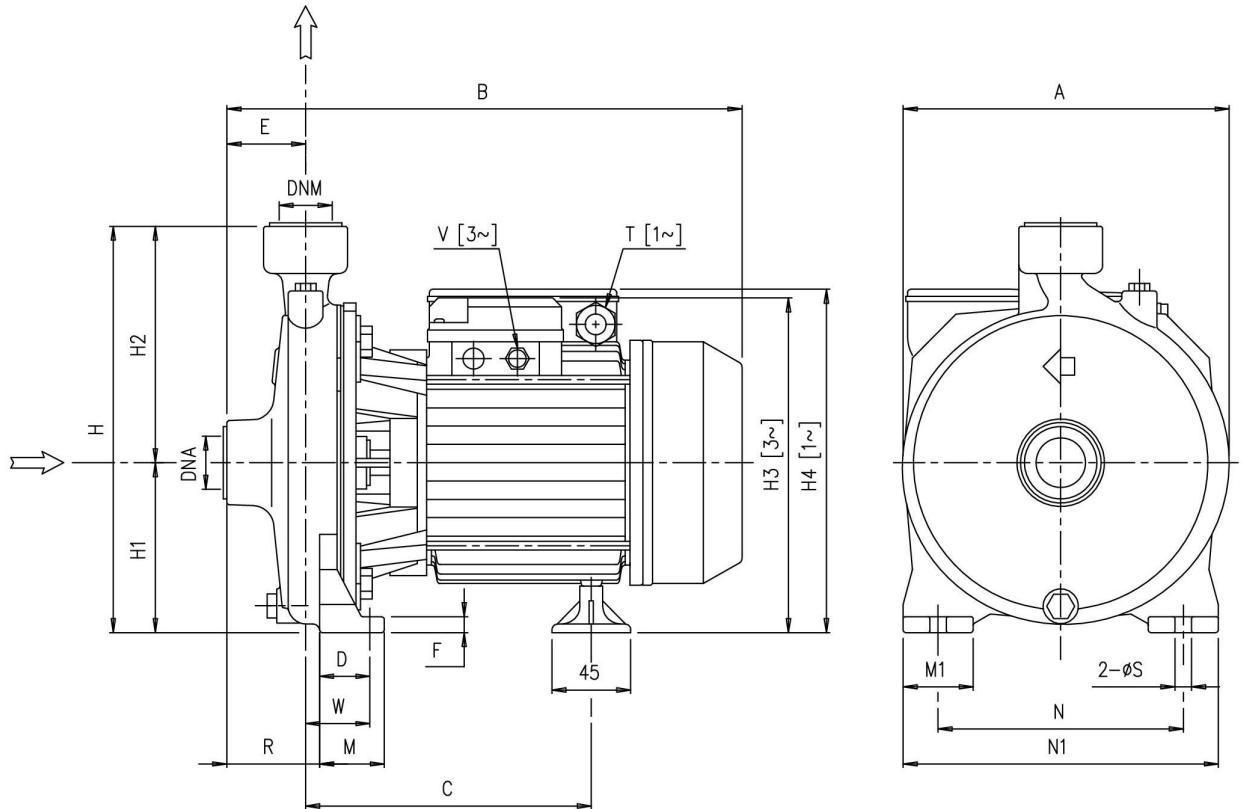
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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

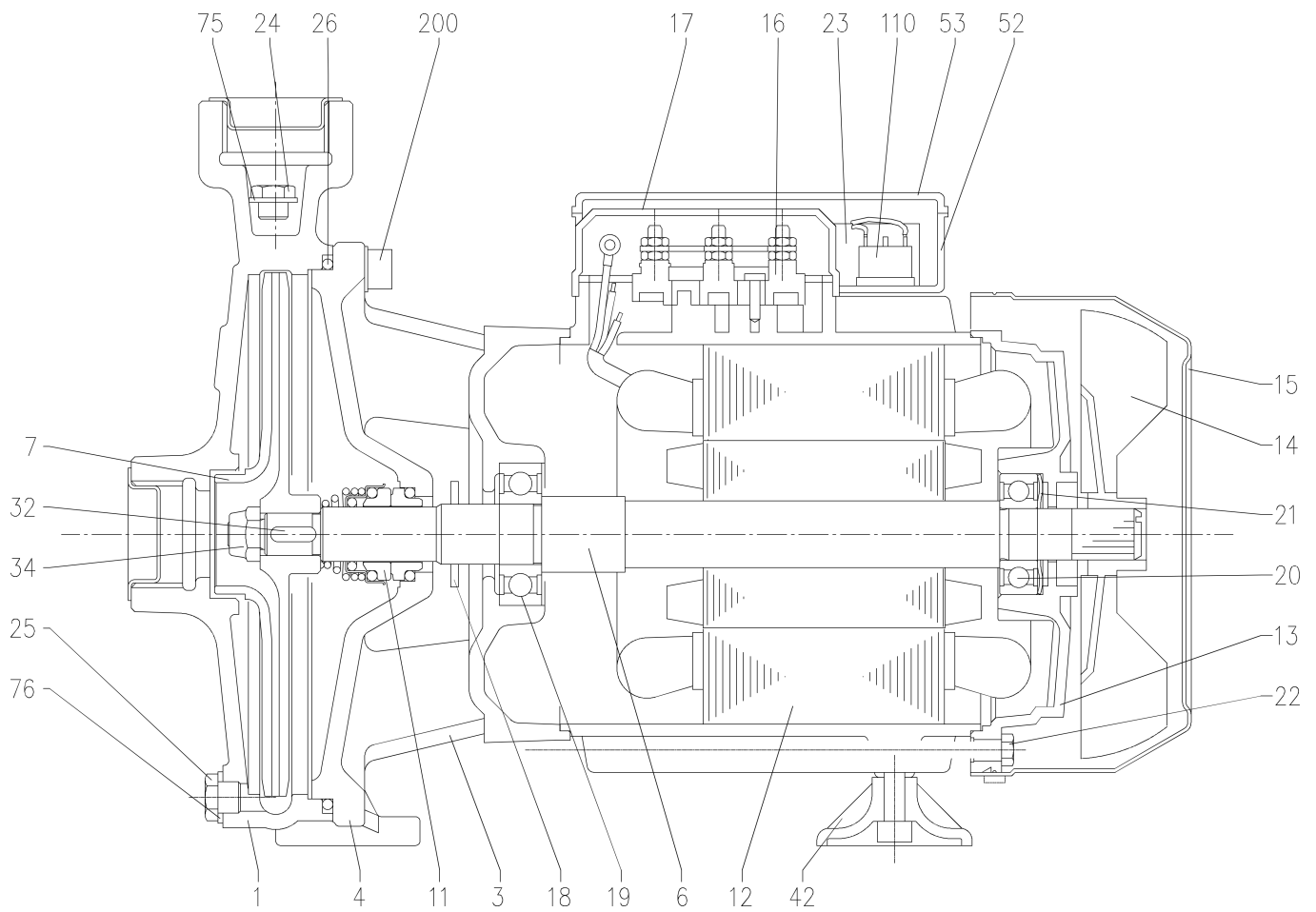
Dimensions in		mm						
1	A	247	N1	240				
2	B	469	R	77.5				
3	C	222.3	S	12				
4	D	48	V	M20X1.5				
5	DNA	G 2	W	65.5				
6	DNM	G 1 1/4	Weight P&M	43.4 kg				
7	E	60						
8	F	12						
9	H	323.5						
10	H1	133.5						
11	H2	190						
12	H3	264.5						
13	M	60						
14	M1	50						
15	N	190						

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Construction

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Construction

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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 other models	Brass	G 1/4"	UNI 338	1
				G 1/8"		
25	Drain plug	CMD 1.50; 2.00; 3.00; 4.00 other models	Brass	G 1/4"	UNI 338	1
				G 1/8"		
26	O-ring	NBR			1	
32	Key	AISI 316			1	
34	Impeller nut	other models CMB 4.00; 5.50	AISI 304	M10	UNI 7474	1
				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 other models	Aluminium	13.5x19x1.5		1
				10x16x1.5		1
76	Washer	CMD 1.50; 2.00; 3.00; 4.00 other models	Aluminium	13.5x19x1.5		1
				10x16x1.5		1
110	Protector	[4] -			1	
200	Screw	CMD 1.50; 2.00; 3.00; 4.00 CMB 1.50; 2.00; 3.00 CMA 1.50	Zn Steel Cl. 8.8	M8x25	ISO 898-1	4
				M8x22		
				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

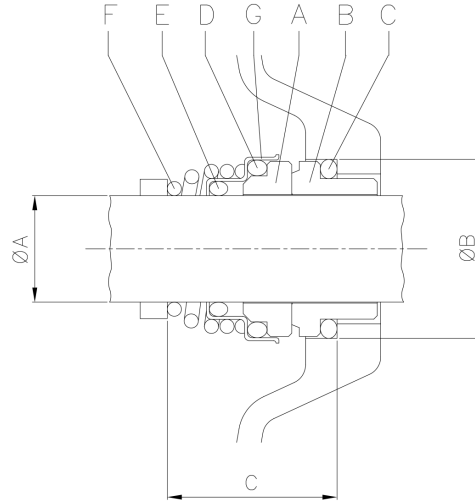
[5] See **CONSTRUCTION 3**

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Construction

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Pump type		Dimensions mm		
Single phase	Three phase	Ø A	Ø B	C
-	CMB 4.00 T	20	30.9	33
-	CMB 5.50 T	20	30.9	33

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