

Technical Data

Pump Name

CMD 3.00

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
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	CMD 3.00	Frequency	Hz	50	
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD	
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	
12	Speed	rpm		2850	Designed	mm
13	No. of Stage	1		Min.	mm	120
14	Connection	Suction side	UNI ISO 228	Flow	Operating	m³/h
15	Connection	Discharge side	UNI ISO 228		Max-	m³/h
16	Max Working Pressure	bar	6		Min-	m³/h
17	Shut-off head	bar	1.56	Head	Operating	m
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m
19	Shaft power	kW			- (Qmin.)	m
20				Max. Shaft Power at max. impeller	kW	2.38
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_CMD 3.00 T_230_Three Phase	Phases	3~	
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power	kW	2.2	Weight	kg
32	Number of poles	2	Electric voltage	V	230
33	Speed	rpm	2800	Electric current	A
34	Degree of protection	IP 44			
35					

Remarks

Performance Curve

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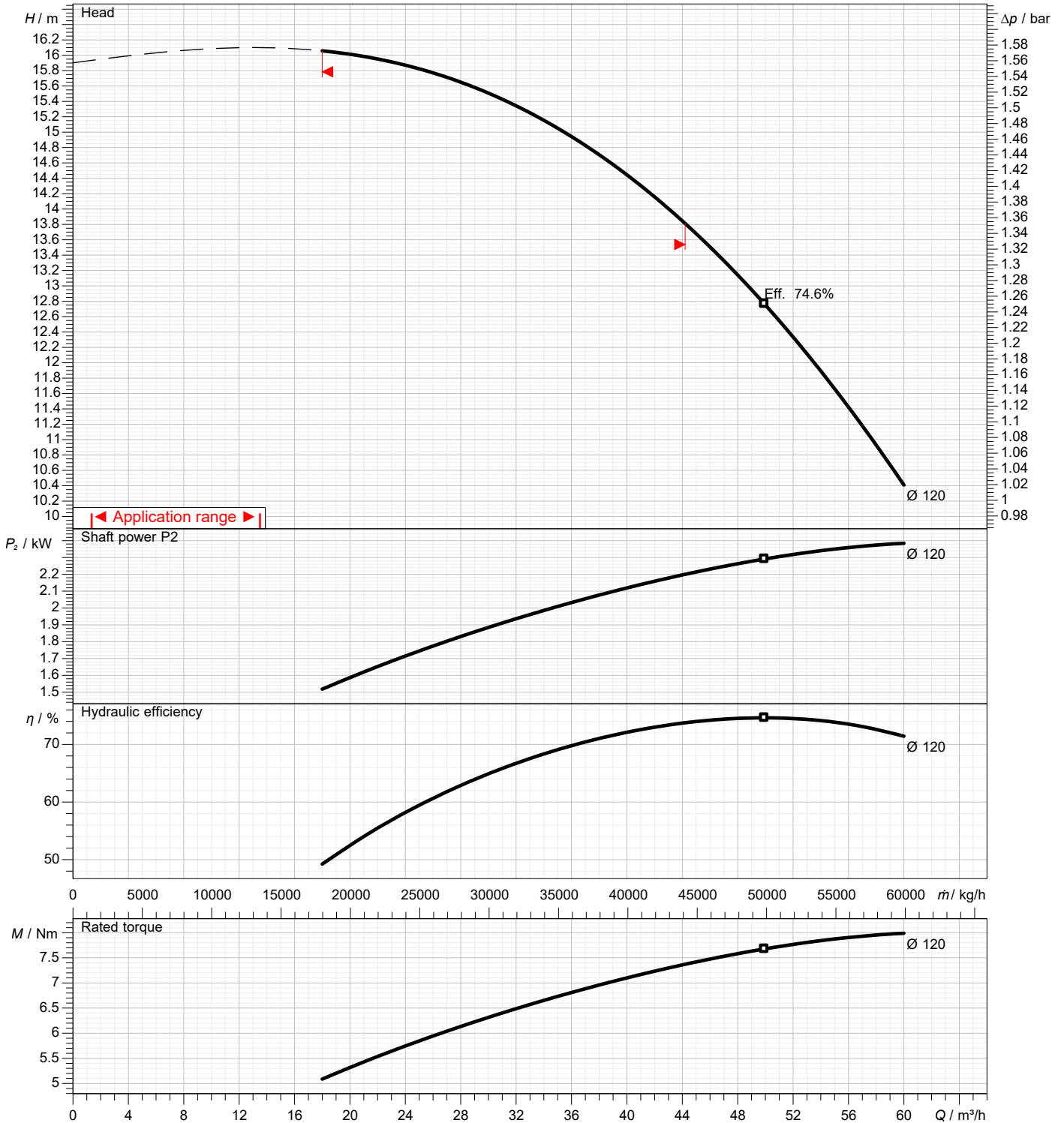
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	120	Speed	rpm	2850

Test standard: ISO 9906:2012 - Grade3B

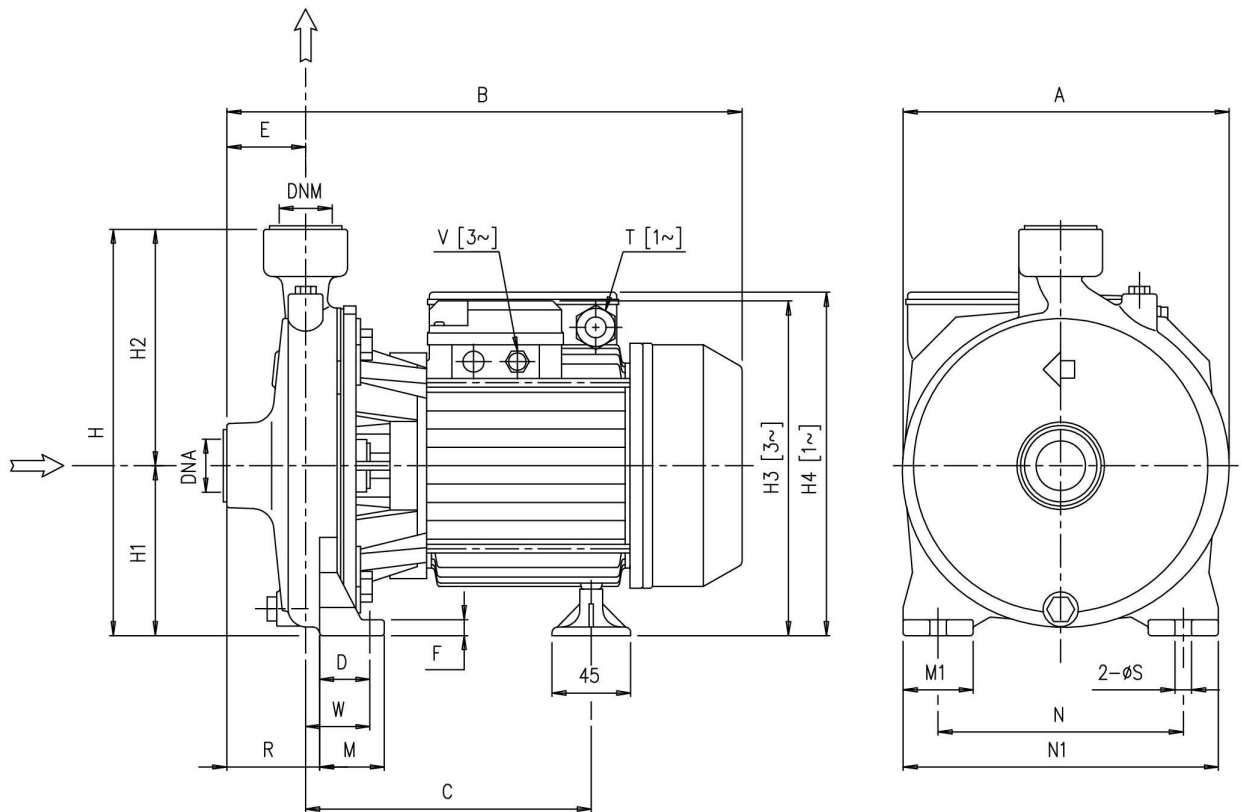
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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

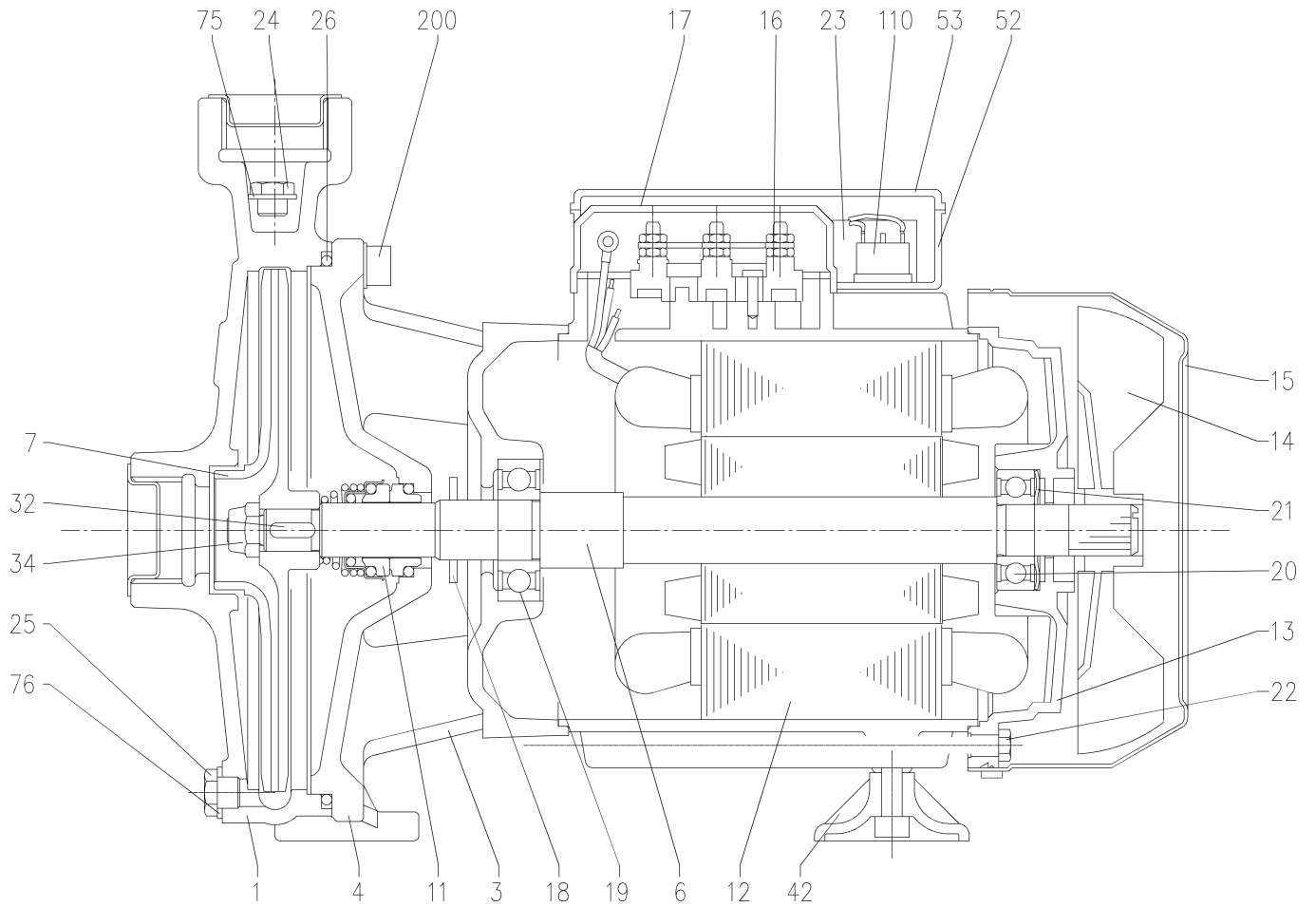
Dimensions in		mm						
1	A	213	N1	200				
2	B	409.8	R	100.5				
3	C	222.8	S	9.5				
4	D	36.8	V	M20x1.5				
5	DNA	G 2 1/2	W	69.3				
6	DNM	G 2 1/2	Weight P&M	23.9 kg				
7	E	68						
8	F	12						
9	H	271.5						
10	H1	111.5						
11	H2	160						
12	H3	225.5						
13	M	45						
14	M1	40						
15	N	160						

(1/3)

Construction

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(2/3)

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	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

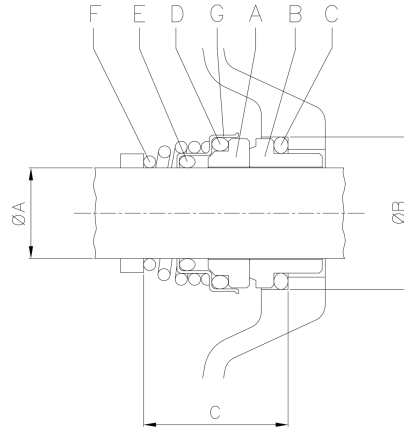
[5] See **CONSTRUCTION 3**

(3/3)

Construction

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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
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