Technical data

Pump name CMA 1.00 T

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid		Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K	293
3	Flow m³/h	0	Kin. viscosity	mm²/s	1
4	Head m	0	Vapour pressure	kPa	2.2
5	Geodetic head m	0	PH value		7
6	Inlet pressure (pin) kPa	10	Density	kg/m³	1000
7	Available system NPSH	0	Solids	Weight %	0
8	Ambient temperature K	290			

Pump

9	Pump name	CMA 1.00 T	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	160
12	Speed 1/min	2800		Designed	mm	160
13	No. of Stage	1		Min.	mm	160
14	Connection Suction side	UNI ISO 228	Flow	Operating	m³/h	
15	Connection Discharge side	UNI ISO 228		Max-	m³/h	5.7
16	Max Working Pressure kPa	600		Min-	m³/h	1.2
17	Shut-off head kPa	329.09	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	23.5
19	Shaft power kW			- (Qmin.)	m	33.0
20			Max. Shaft Power at max. impeller		kW	0.77
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	PPE+PS glass fibre reinforced		
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 1.00 T_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	0.75	Weight	kg	0
32	Number of poles	2	Electric voltage	V	230
33	Speed 1/min	2800	Electric current	A	3
34	Degree of protection	IP 44			
35					

Remarks

EBARA

Performance curve

Pump name CMA 1.00 T

Customer	Date 23-June-2020	Company
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Requested data

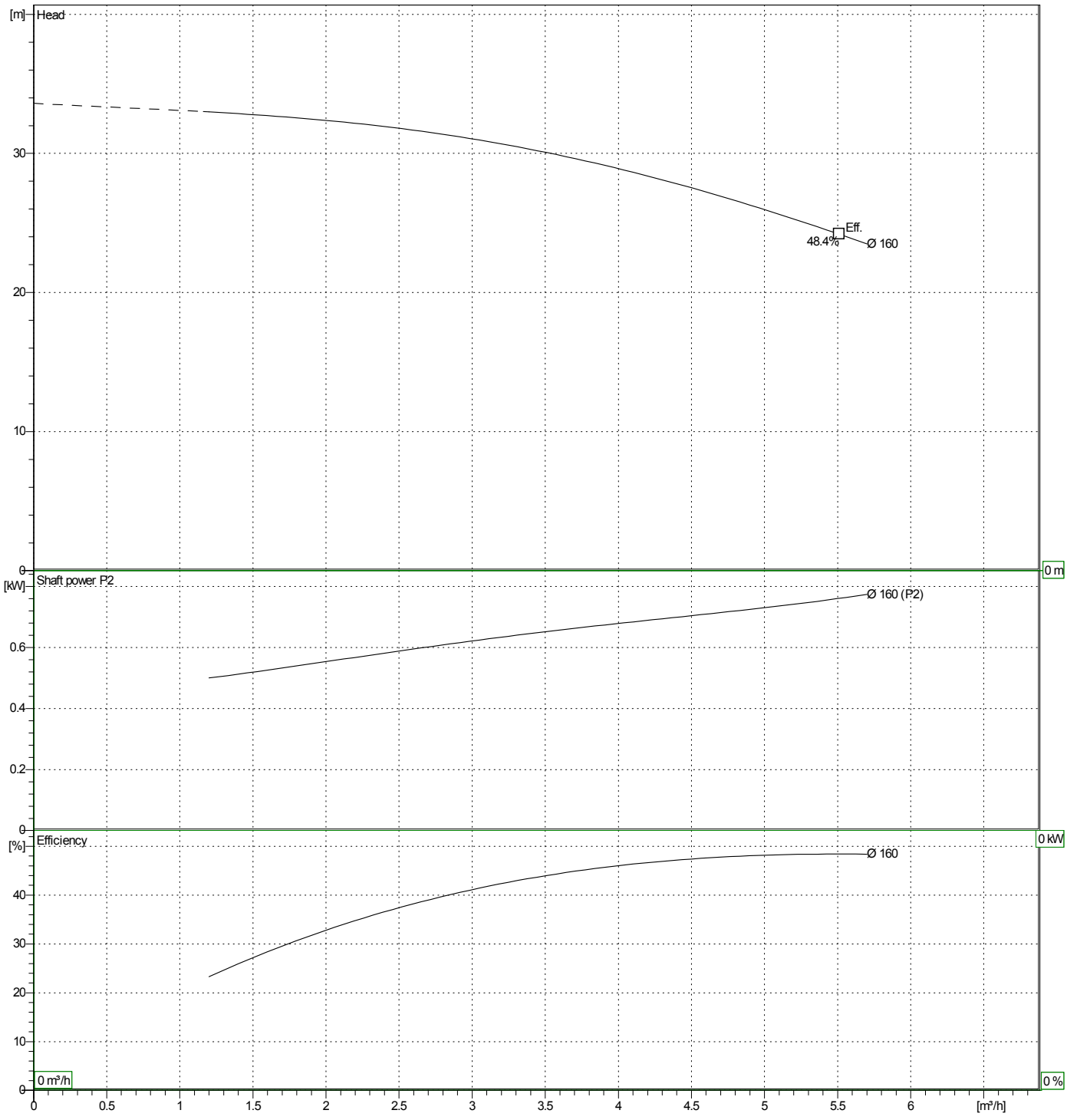
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	160	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s

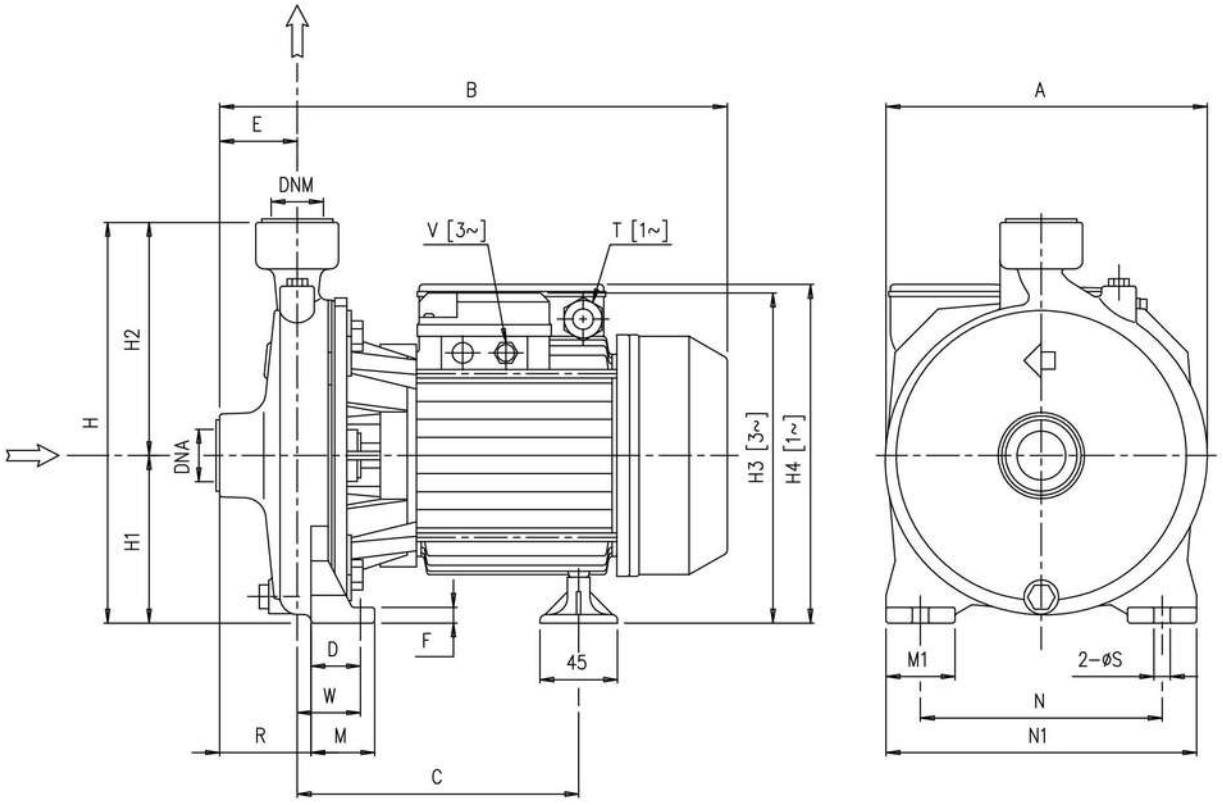


EBARA

Dimensions

Pump name CMA 1.00 T

Customer	Date 23-June-2020	Company
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[1~] Single phase
[3~] Three phase

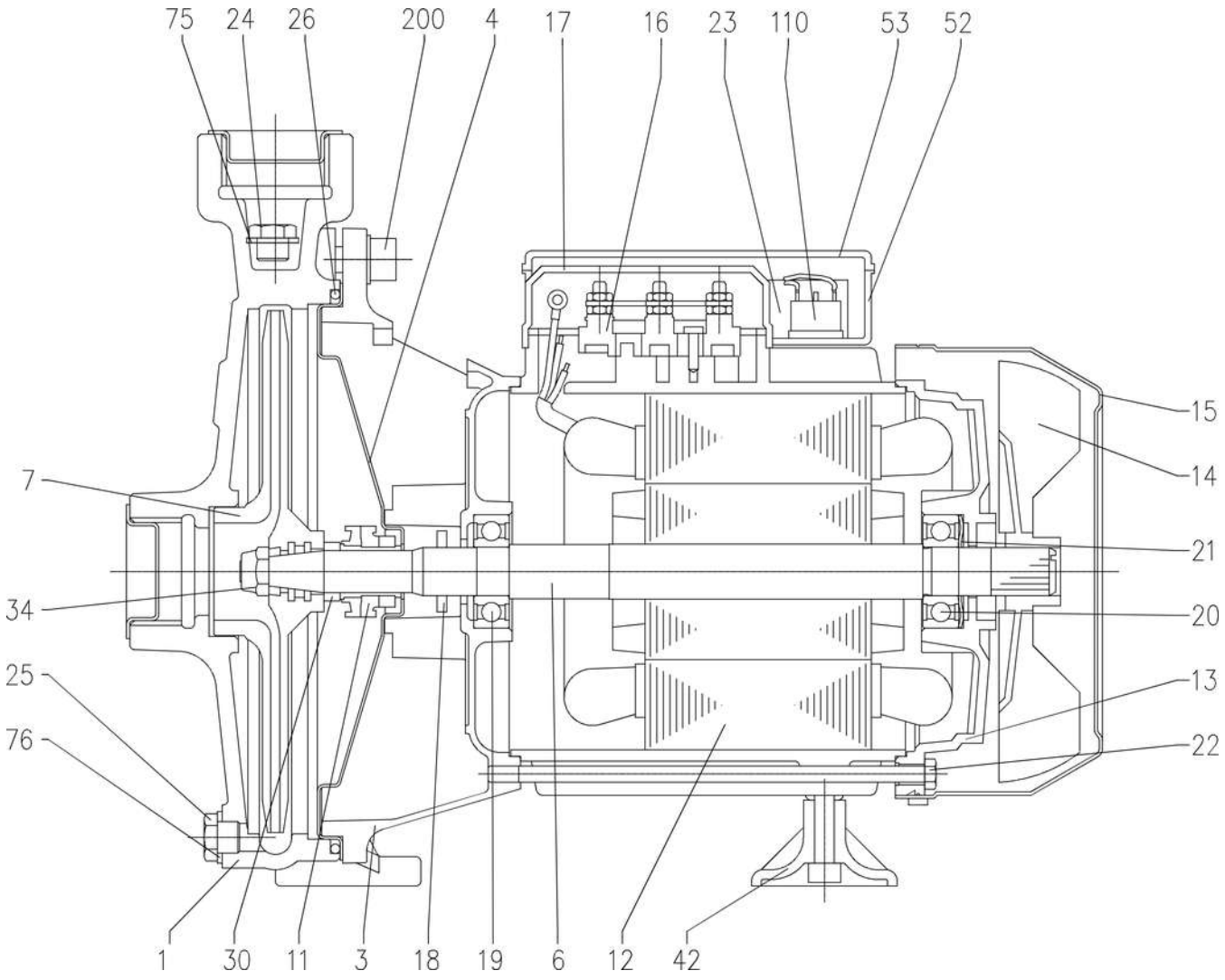
Dimensions in mm								
1	A	185	M1	40				
2	B	300.3	N	140				
3	C	171.8	N1	180				
4	D	36.8	R	45				
5	DNA	G 1	S	9.5				
6	DNM	G 1	V	M16X1.5				
7	E	45	W	36.8				
8	F	9	Weight P&M	11.6 kg				
9	H	232						
10	H1	97						
11	H2	135						
12	H3	197.5						
13	M	45						

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(1/3)
Construction

Pump name CMA 1.00 T

Customer	Date 23-June-2020	Company
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EBARA

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Construction

Pump name CMA 1.00 T

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

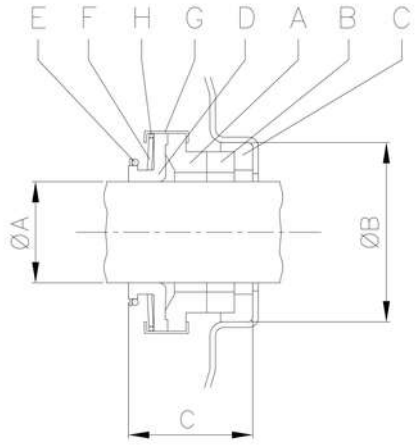
N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing		Cast iron			1
3	Motor bracket		Aluminium			1
4	Casing cover		AISI 304			1
6	Shaft with rotor		[1]			1
7	Impeller		[2]			1
11	Mechanical seal	[7]	Carbon/Ceramic/NBR			1
12	Motor frame with stator		-			1
13	Motor cover		Aluminium			1
14	Fan		PA			1
15	Fan cover		Fe P04 Galvanized			1
16	Terminal box		-			1
17	Terminal box cover	[3]	Aluminium			1
18	Splash ring	CMA 0.50	NBR	D25x11.5x2.5	EBARA DRAWING	1
		other models		D25x14.5x2.5		
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		Brass	G 1/8"	UNI 338	1
25	Drain plug		Brass	G 1/8"	UNI 338	1
26	O-ring		NBR			1
30	Mechanical seal spacer	[5]	Brass			1
34	Impeller nut	[6]	AISI 304	M8x1	UNI7474	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		Aluminium	10x16x1.5		1
76	Washer		Aluminium	10x16x1.5		1
110	Protector	[4]	-			-
200	Screw	CMA 0.50	Zn Steel Cl. 8.8	M6x16	ISO 898-1	4
		CMA 0.75; 1.00 CMC 0.75; 1.00		M8x18		
		CMB 0.75; 1.00		M8x22		

[1] Material: AISI 416 (integral) for CMA 0.50
AISI 303 (wet extension) for other model;
[2] Material: PPE+PS glass fibre reinforced for version CMA
Cast iron for version CMB, CMC;
[3] Only for three phase
[4] Only for single phase
[5] Only for version: CMA 0.50, CMB 0.75-1.00, CMC 0.75-1.00
[6] Except for CMA 0.50
[7] See **CONSTRUCTION 3**

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Construction

Pump name CMA 1.00 T

Customer	Date 23-June-2020	Company
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Pump type		Dimensions mm		
Single phase	Three phase	Ø A	Ø B	C
CMA 0.75 M	CMA 0.75 T	13	26	18.3
CMA 1.00 M	CMA 1.00 T	13	26	18.3
CMB 0.75 M	CMB 0.75 T	13	26	18.3
CMB 1.00 M	CMB 1.00 T	13	26	18.3
CMC 0.75 M	CMC 0.75 T	13	26	18.3
CMC 1.00 M	CMC 1.00 T	13	26	18.3

REF	PART NAME	MATERIAL product standard
A	Rotary seal ring	carbon graphite
B	Stationary seal ring	ceramic
C	Gasket	NBR
D	Bellows	NBR
E	Ring	AISI 304
F	Self driving spring	AISI 304
G	Frame	AISI 304
H	Retainer ring	AISI 304