Technical data

Pump name CMR 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	CMR 1.00 T	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	120
12	Speed 1/min	2800		Designed	mm	120
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	16.5
16	Max Working Pressure kPa	600		Min-	m³/h	3
17	Shut-off head kPa	185.11	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	8.7
19	Shaft power kW			- (Qmin.)	m	17.3
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_CMR 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 CMR 1.00 T

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Requested data

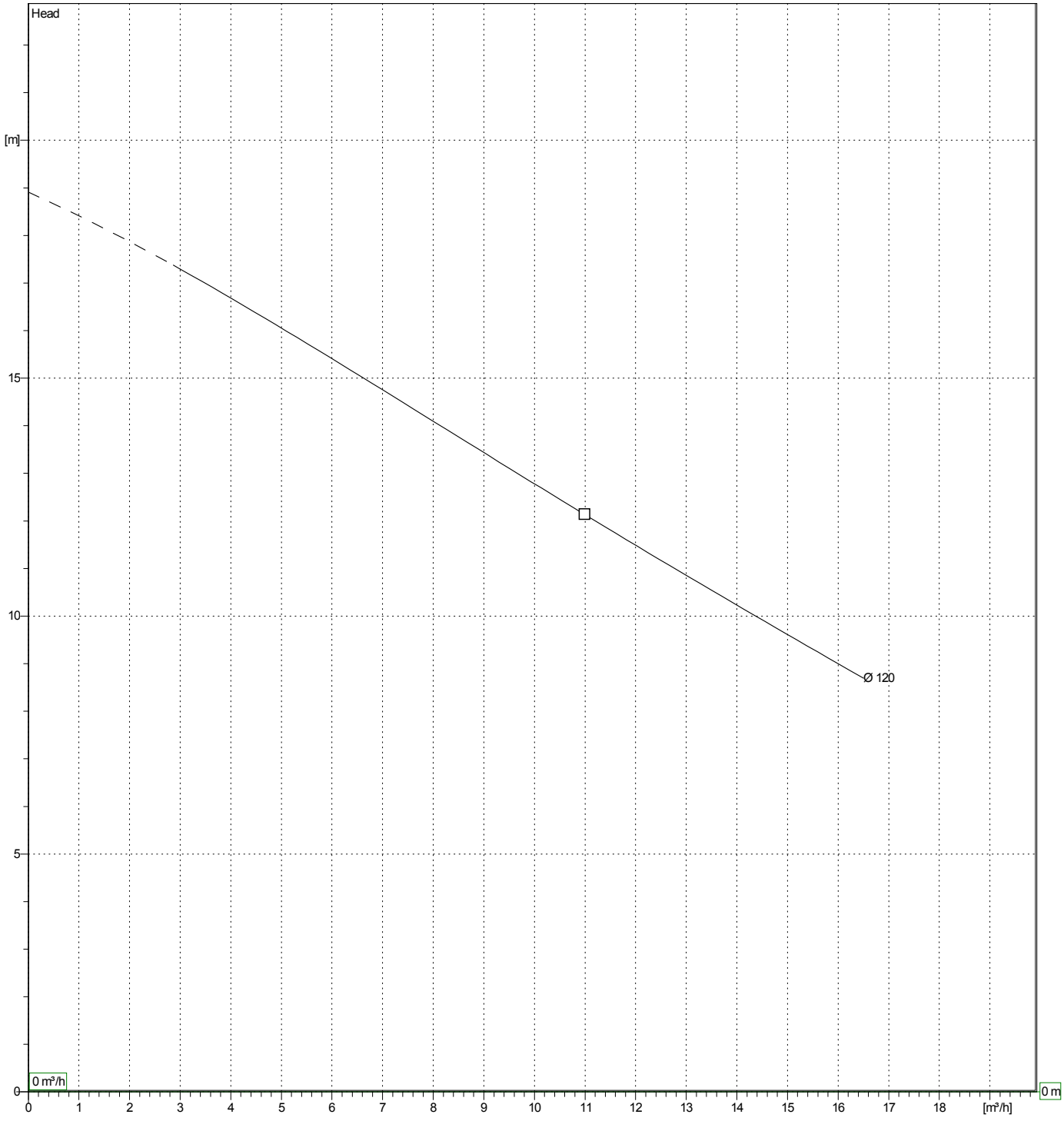
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	120	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

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

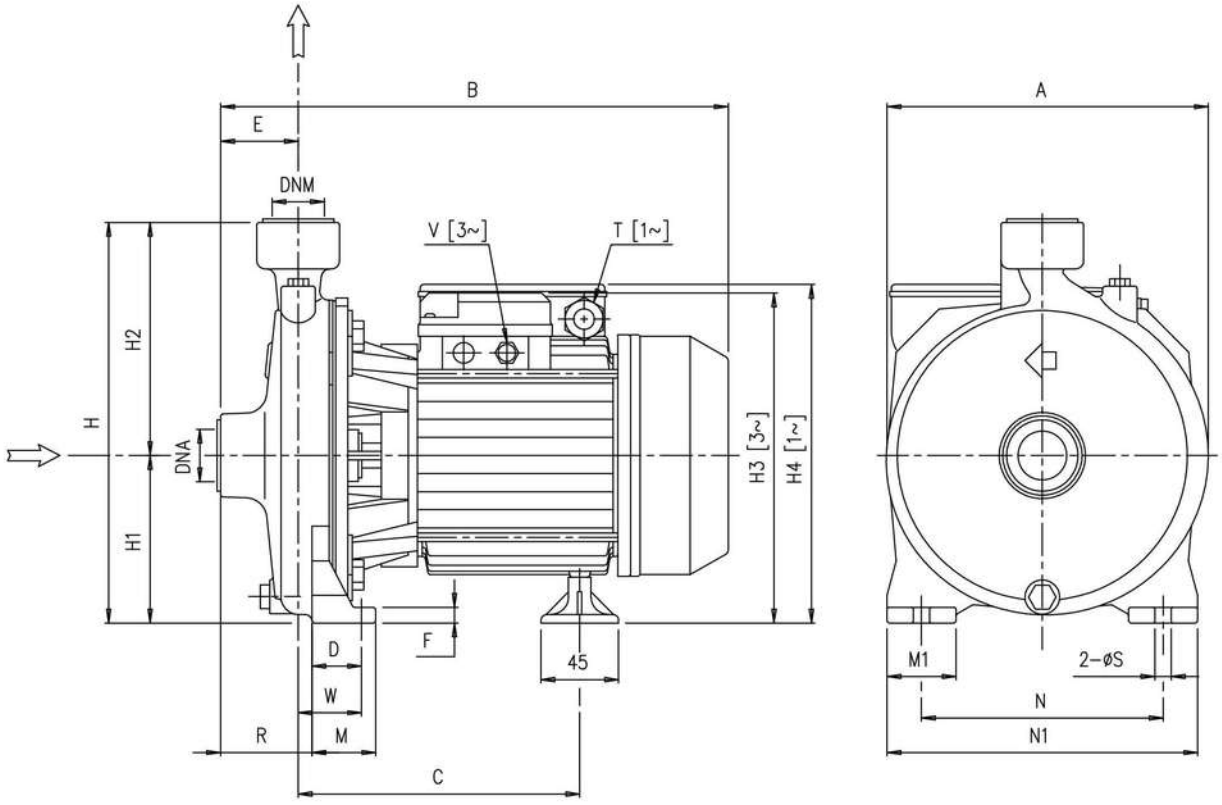


EBARA

Dimensions

Pump name CMR 1.00 T

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

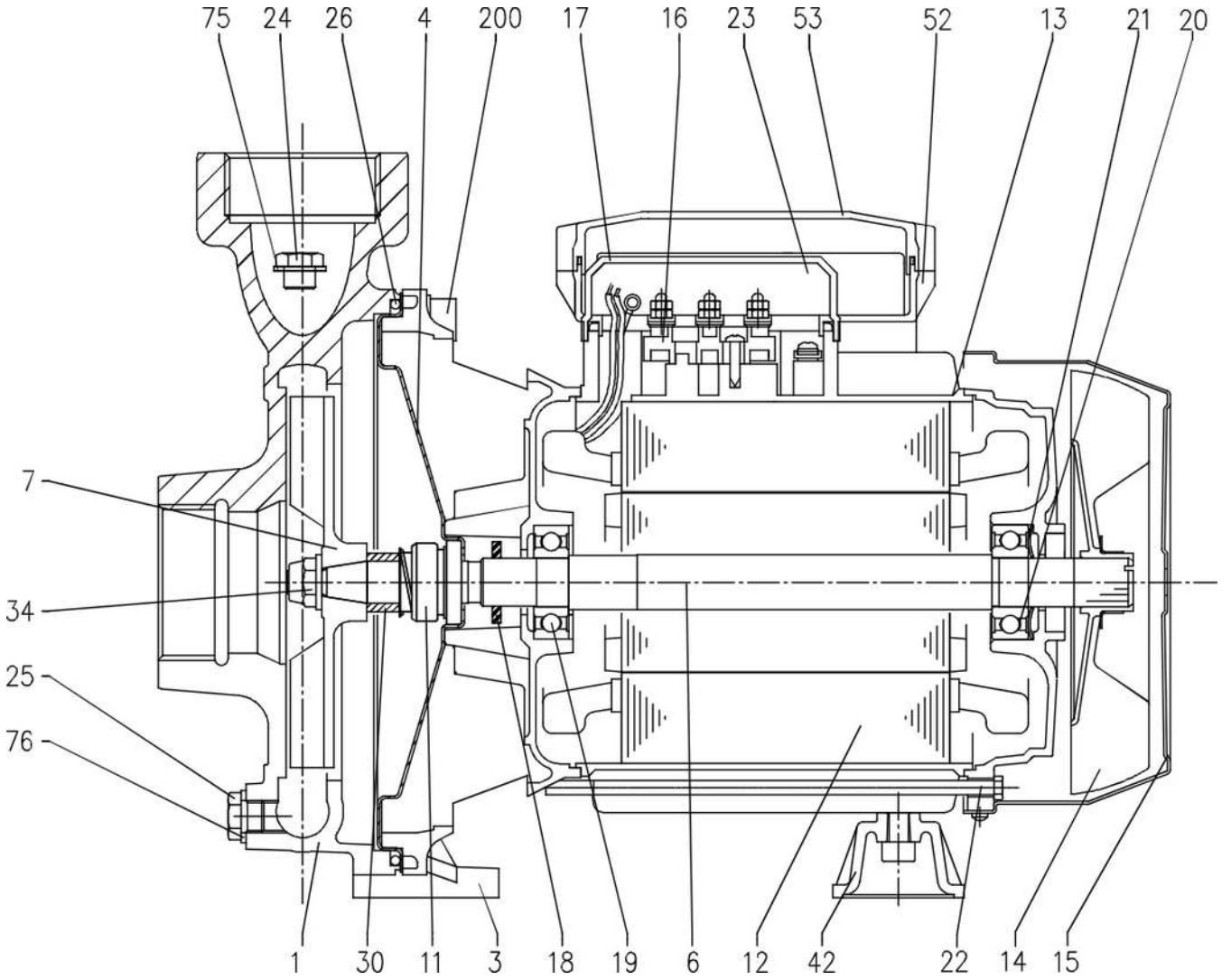
Dimensions in mm								
1	A	180	M1	40				
2	B	310	N	140				
3	C	182	N1	180				
4	D	37	R	61				
5	DNA	G 1 1/2	S	10				
6	DNM	G 1 1/2	V	M16X1.5				
7	E	45	W	52				
8	F	9	Weight P&M	12.7 kg				
9	H	229						
10	H1	97						
11	H2	132						
12	H3	198						
13	M	45						

EBARA

(1/3)
Construction

Pump name CMR 1.00 T

Customer	Date 23-June-2020	Company
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EBARA

(2/3)
Construction

Pump name CMR 1.00 T

Customer	Date 23-June-2020	Company
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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 extension)	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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Construction

Pump name CMR 1.00 T

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