

Technical Data

Pump Name

PRA 086 M

Customer	Date	2024-07-02	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-07-02 22:34:28	E-mail

Requested data

1	Pump type	PERIPHERAL 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	PRA 086 M	Frequency Hz	60
10	Design	PERIPHERAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 67
12	Speed rpm	3350		Designed mm 67
13	No. of Stage	1		Min. mm 67
14	Connection Suction side	UNI ISO 228	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228		Max- m³/h 2.7
16	Max Working Pressure bar	7.5		Min- m³/h 0.3
17	Shut-off head bar	5.77	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 13.1
19	Shaft power kW			- (Qmin.) m 53.2
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_PRA 086 M_110_Single Phase	Phases	1~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.6	Weight kg	
32	Number of poles	2	Electric voltage V	110
33	Speed rpm	3350	Electric current A	12.5
34	Degree of protection	IP 44		
35				

Remarks

Performance Curve

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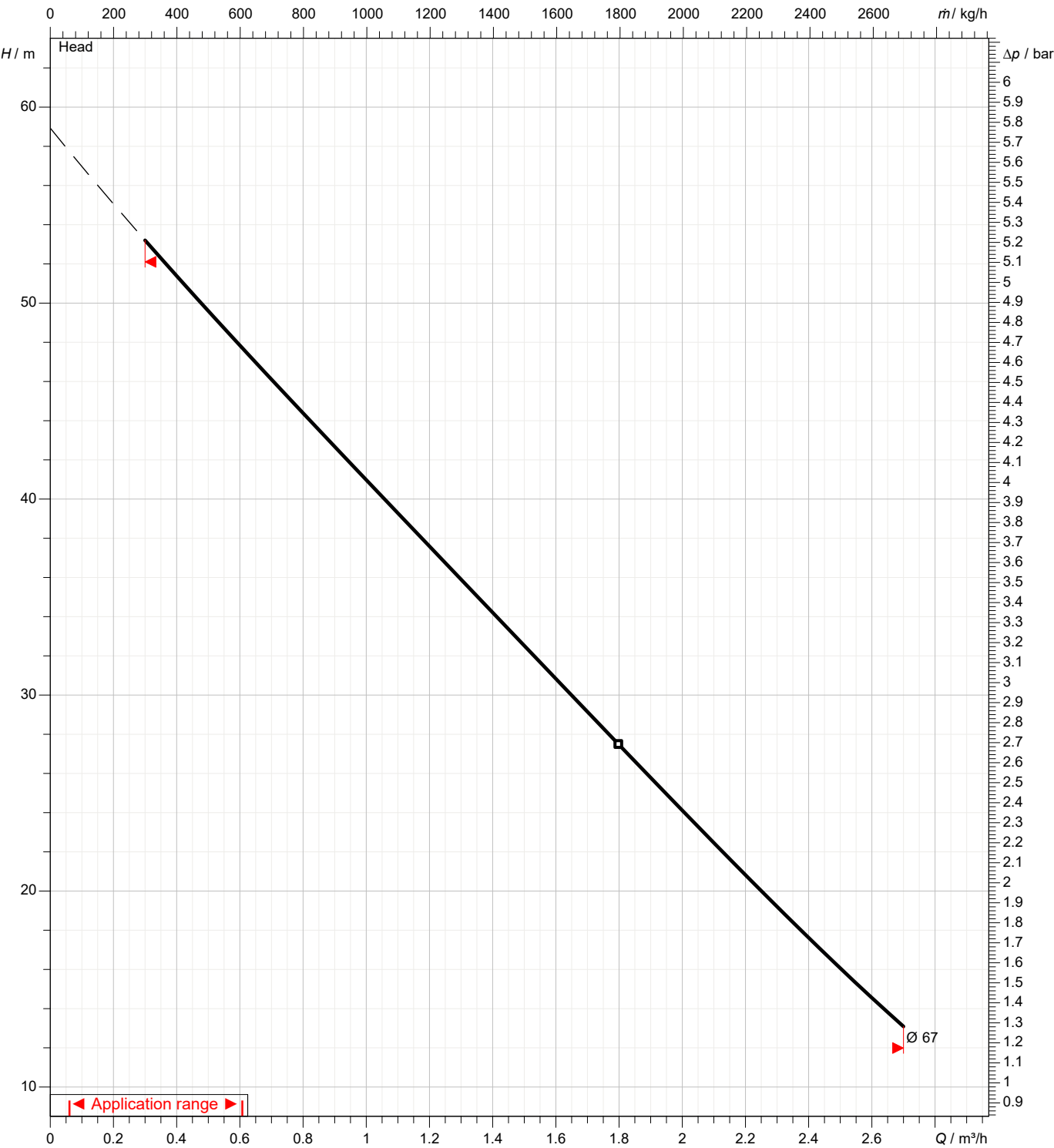
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	67	Speed	rpm	3350

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

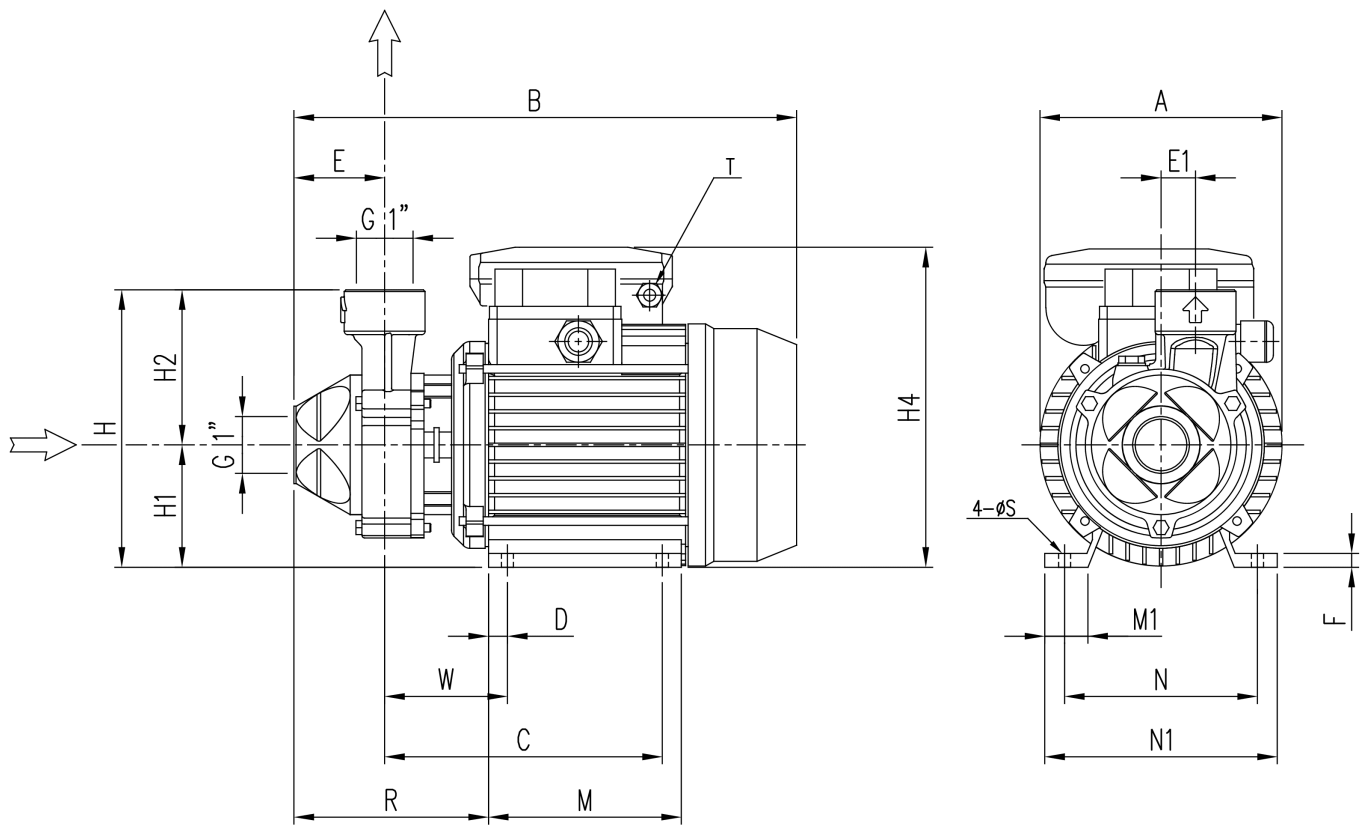


EBARA

Dimensions

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Dimensions in mm								
1	A	141	R	113				
2	B	290.5	S	7				
3	C	161.3	T	PG11				
4	D	11	W	71.3				
5	E	52.7	Weight P&M	9,2 kg				
6	E1	20						
7	F	9						
8	H	161						
9	H1	71						
10	H2	90						
11	H4	178						
12	M	112						
13	M1	25						
14	N	112						
15	N1	135						

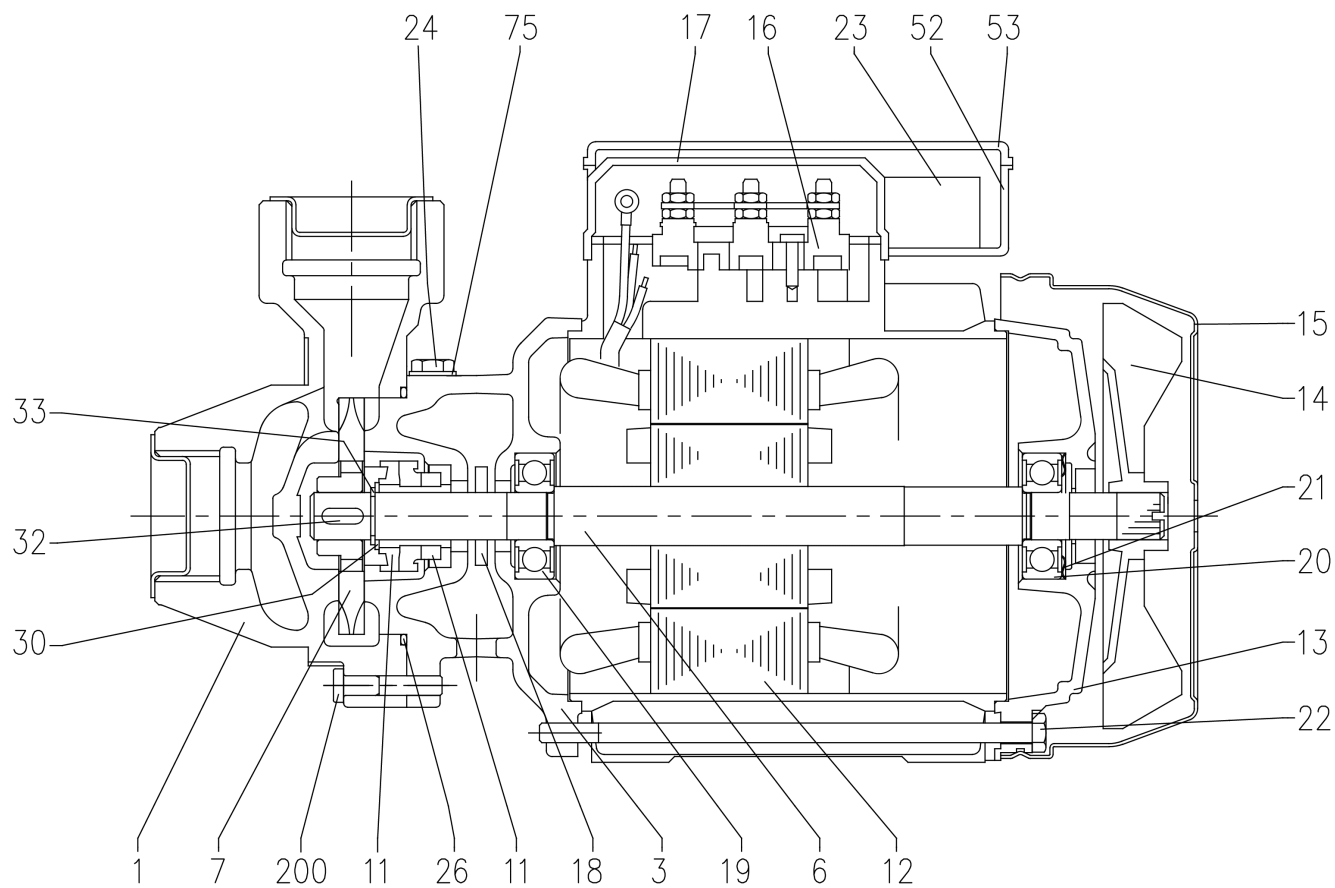
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Construction

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Construction

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Nº	PART NAME	MATERIAL	Q.TY
1	Casing	Cast Iron	1
3	Motor bracket	Cast Iron	1
6	Shaft with rotor	[1]	1
7	Impeller	Brass	1
11	Mechanical seal [2]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PP	1
15	Fan cover	Fe P04 Zincate	1
16	Terminal box	-	1
17	Terminal box cover [3]	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 [4]	-	1
24	Priming plug	Brass	1
26	O-Ring	NBR	1
30	Washer	AISI 304	1
32	Key	AISI 316	1
33	Seeger ring	AISI 304	1
52	Capacitor box [4]	ABS class V-0	1
53	Capacitor box cover [4]	ABS class V-0	1
75	Washer	Aluminium	1
200	Screw	Zincate Steel Cl. 8.8 ISO 898-1	3

[1] Material: Carbon steel (1.0736) for model PRA 056
AISI 303 (wet extension) for the other models

[2] See **CONSTRUCTION 3**

[3] Only for Three phase

[4] Only for Single phase

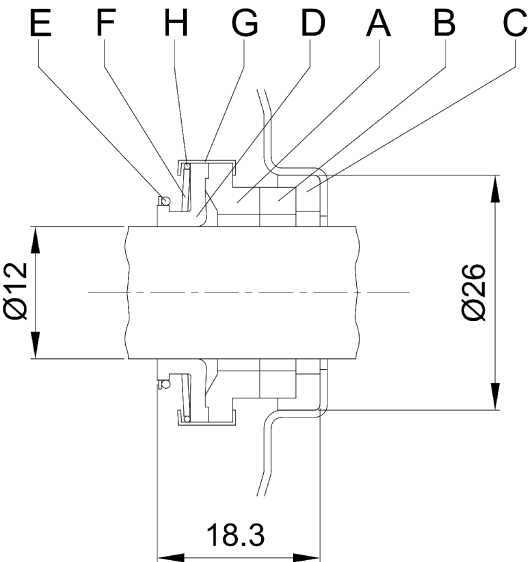
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REF	PART NAME	MATERIAL
		Standard version
A	Rotary seal ring	carbon graphite
B	Stationary seal ring	ceramic
C	Gasket	NBR
D	Bellows	NBR
E	Ring	AISI 304
F	Self driving spring	AISI 304
G	Frame	AISI 304
H	Reatainer ring	AISI 304