Technical Data

Pump Name LPS 50/40 M

Customer	Date	2024-06-16	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-16 15:45:44	E-mail

Requested data

1	Pump type	IN LINE 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	LPS 50/40 M	Frequency		Hz	50
10	Design	IN LINE CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	95
12	Speed rpm	2800		Designed	mm	95
13	No. of Stage	1		Min.	mm	95
14	Connection Suction side		Flow	Operating	m³/h	
15	Connection Discharge side			Max-	m³/h	19.2
16	Max Working Pressure bar	10		Min-	m³/h	7.2
17	Shut-off head bar	0.96	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	3.5
19	Shaft power kW			- (Qmin.)	m	9.0
20			Max. Shaft Power at max. impeller		kW	0.34
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 303 (wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_LPS 50/40_230_Three Phase	Phases		3~
30	Specific design	- / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	0.4	Weight	kg	
32	Number of poles	2	Electric voltage	V	230
33	Speed rpm	2800	Electric current	A	2.2
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance Curve

Pump Name LPS 50/40 M

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Requested data

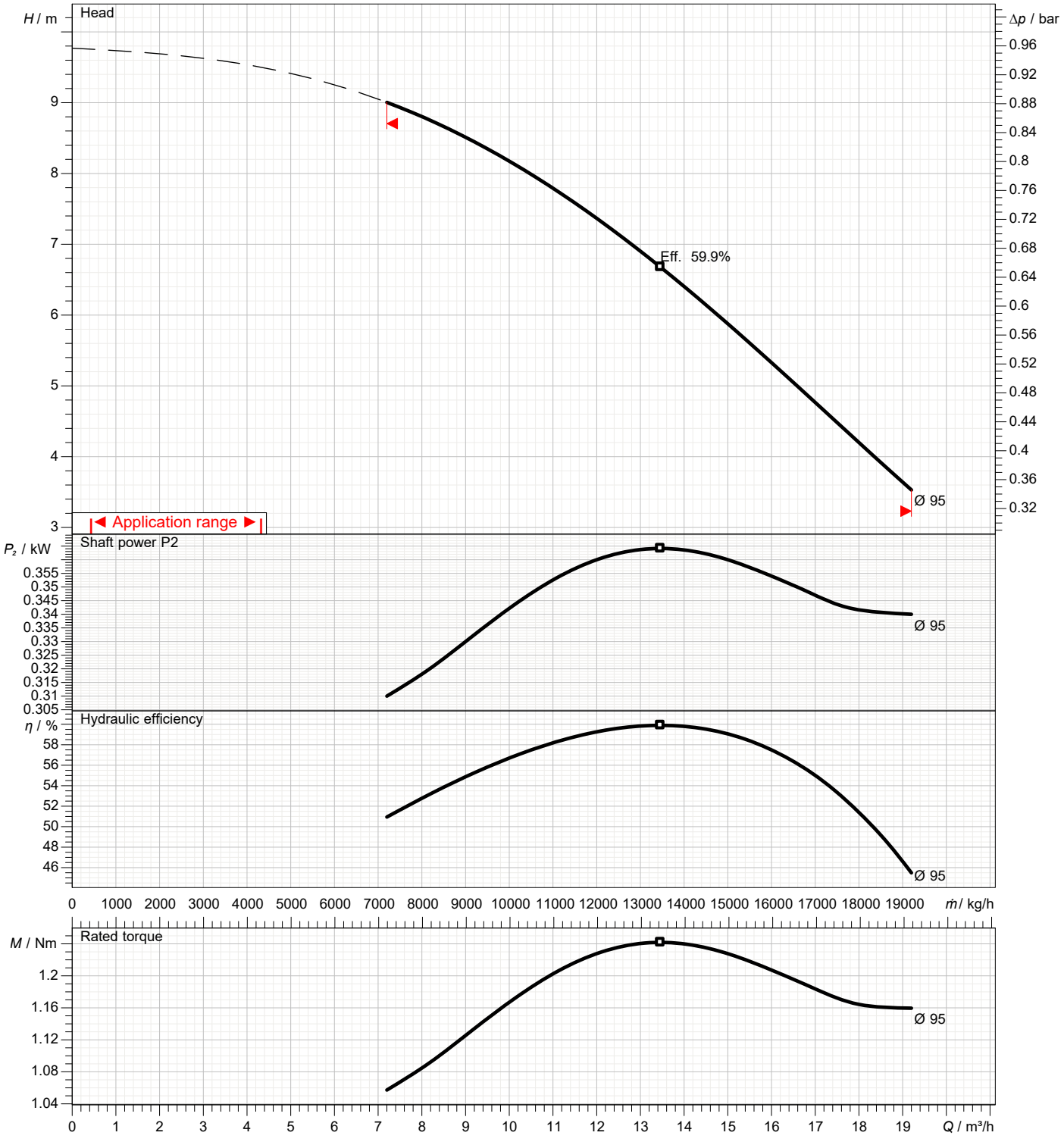
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	95	Speed	rpm	2800

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

Pump Name LPS 50/40 M

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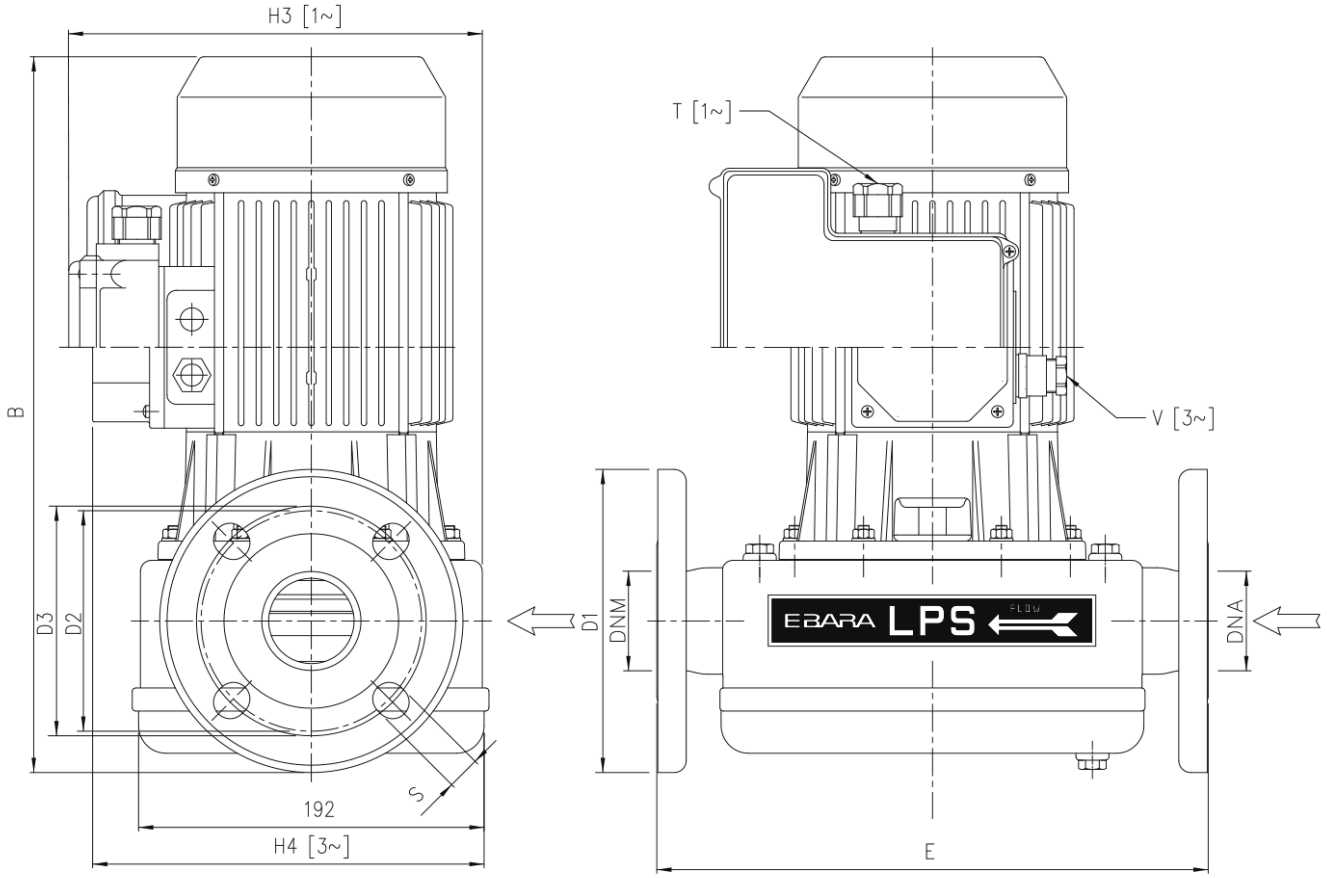

Dimensions in	mm							
1	B	356.5						
2	D1	165						
3	D2	120						
4	D3	125						
5	DNA	50						
6	DNM	50						
7	E	310						
8	H3	206						
9	S	18						
10	T	PG 11						
11	Weight P&M	16.1 kg						
12								
13								
14								
15								

EBARA

(1/3)
Construction

Pump Name LPS 50/40 M

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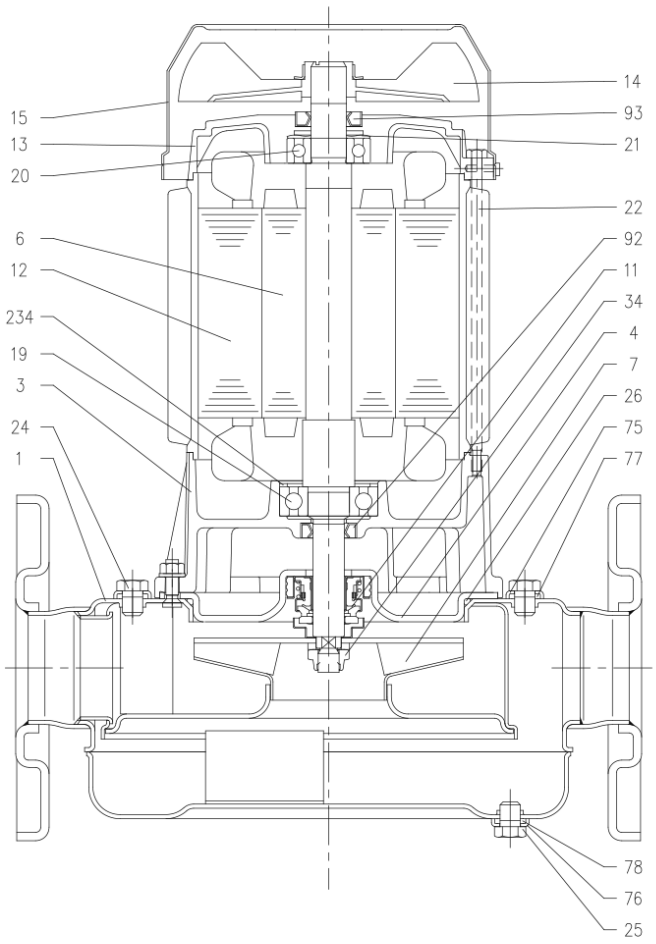

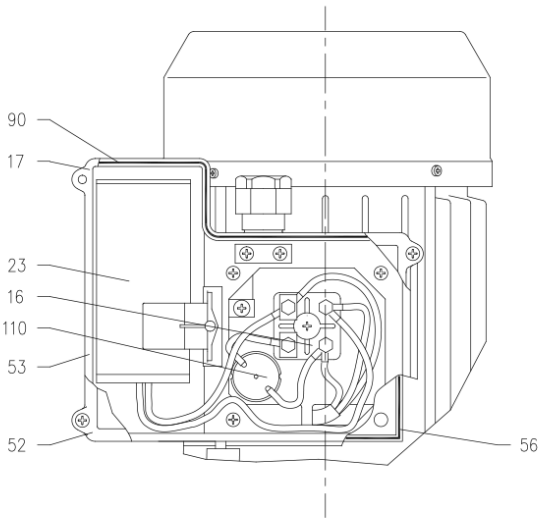

EBARA

(2/3)
Construction

Pump Name LPS 50/40 M

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Phone	Project		Phone	
E-mail	Project ID	Proiect redenumit 2024-06-16 15:45:44	E-mail	

N°	PART NAME	MATERIAL	DIMENSION	STANDARD
1	Casing	AISI 304		
3	Motor bracket	Aluminium		
4	Casing cover	AISI 304		
6	Shaft with rotor	AISI 303 (Wet extension)		
7	Impeller	AISI 304		
11	Mechanical seal [4]	Carbon/Ceramic/NBRH		
12	Motor frame with stator	-		
13	Motor cover	Aluminium		
14	Fan	PA		
15	Fan cover	Fe P04 Galvanized		
16	Terminal board	-		
17	Terminal box cover [2]	Aluminium		
19	Pump side ball bearing	-		
20	Fan side ball bearing	-		
21	Adjusting ring	Steel C70		
22	Tie rod	Fe 420 Galvanized		
23	Capacitor [1]	-		
24	Priming plug	AISI 304	1/8" G	ISO 228/2
25	Drain plug	AISI 304	1/8" G	ISO 228/2
26	O-ring	NBR		
34	Impeller nut	AISI 304	M10x1.25	UNI 7474
52	Capacitor box [1]	ABS class V-0		
53	Capacitor box cover [1]	ABS class V-0		
56	Box gasket	NBR		
75	Washer	AISI 304		
76	Washer	AISI 304		
77	O-ring	NBR		
78	O-ring	NBR		
90	Terminal box cover gasket	NBR		
92	Lip seal	NBR		
93	Lip seal	NBR		
110	Protector [3]	-		
234	Seeger ring	Carbon steel		

[1] Only for single phase
[2] Only for three phase
[3] Only for version single phase: LPS 50/150M
[4] See **CONSTRUCTION 3**

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Construction

Pump Name LPS 50/40 M

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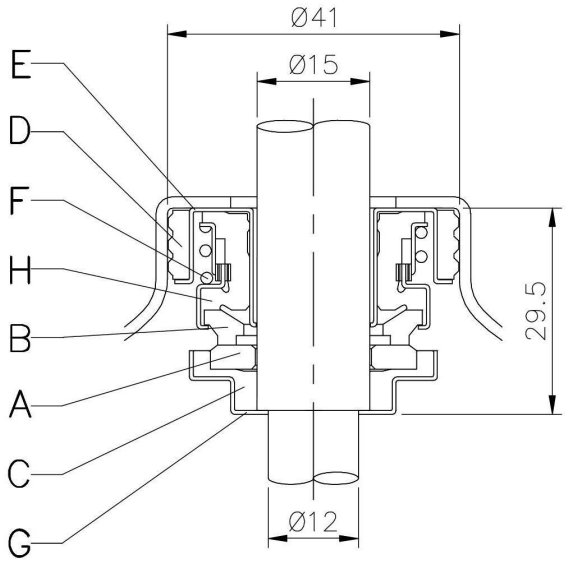

REF	PART NAME	MATERIAL
A	Rotary sealring	ceramic
B	Stationary sealring	carbon graphite
C	Cup Gasket	NBRH
D	Seatring	NBRH
E	Case	AISI304
F	Selfdriving spring	AISI304
G	Case	AISI304
H	Bellows	NBRH