

Technical data

Pump name

LPS 50/150

Customer	Date 06-June-2019	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	IN LINE CENTRIFUGAL PUMPS	Fluid	Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h	0	Kin. viscosity mm²/s	1
4	Head m	0	Vapour pressure bar	0.022
5	Static head m	0	PH value	7
6	Inlet pressure bar	0.1	Density kg/dm³	1
7	Available system NPSH	0	Solids Weight %	0
8	Environmental temperature °C	20		

Pump

9	Pump name	LPS 50/150	Frequency Hz	50
10	Design	IN LINE CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EPE	Impeller	Max. mm 129
12	Speed 1/min	2800	Diameter	Designed mm 129
13	No. of Stage	1		Min. mm 129
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side			Max- m³/h 24
16	Max Working Pressure bar	10		Min- m³/h 7.2
17	Shut-off head bar	2.03	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 13.7
19	Shaft power kW			- (Qmin.) m 19.8
20			Max. Shaft Power at max. impeller	kW 1.43
21	Required 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 50/150_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	1.5	Weight kg	0
32	Number of poles	2	Electric voltage V	230
33	Speed 1/min	2800	Electric current A	6.6
34	Degree of protection	IP 55		
35				

Remarks

Performance curve Pump name LPS 50/150

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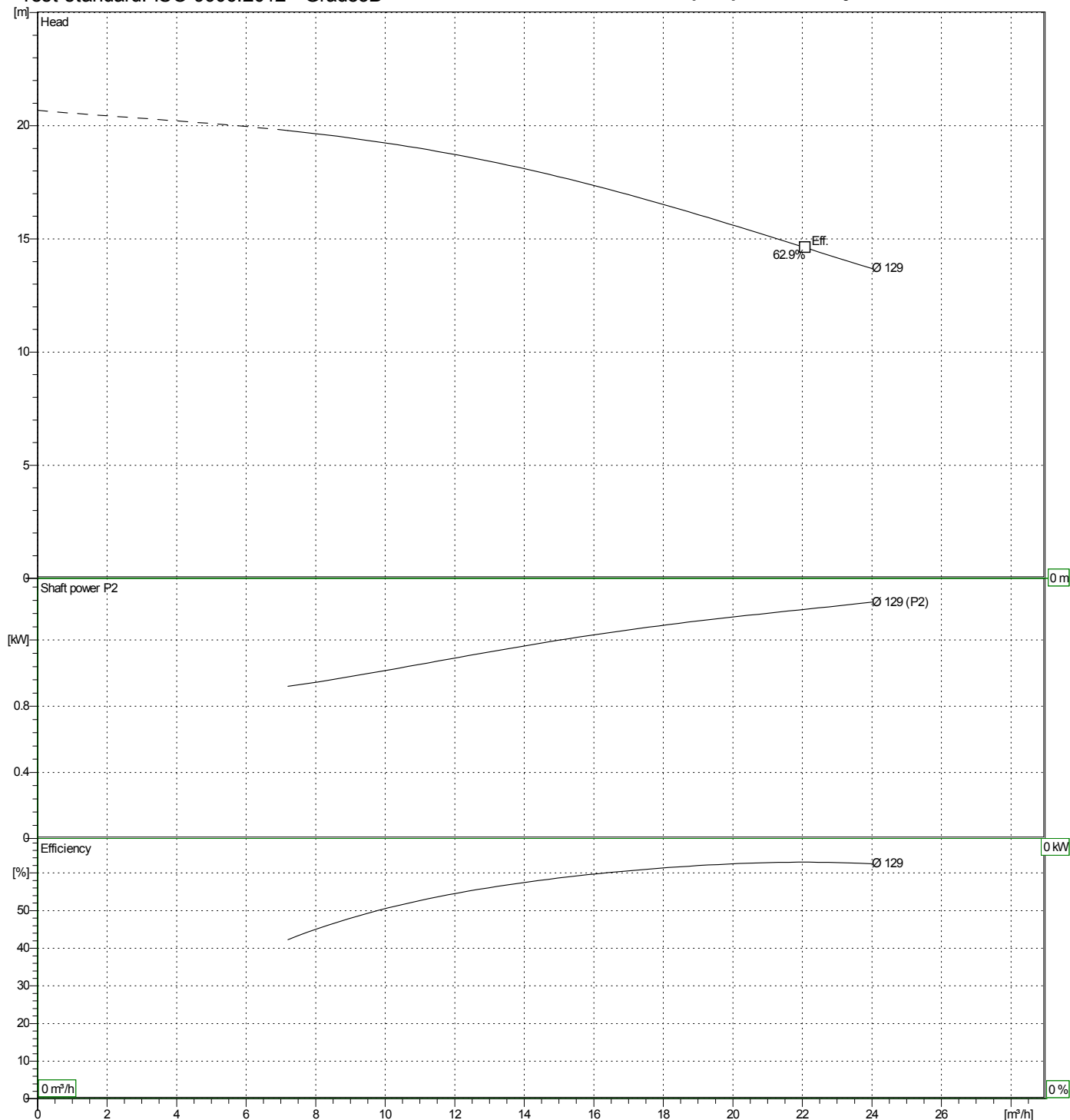
1	Flow	m³/h	0
2	Head	m	0
3	Static head	m	0

Pump

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

Test standard: ISO 9906:2012 - Grade3B

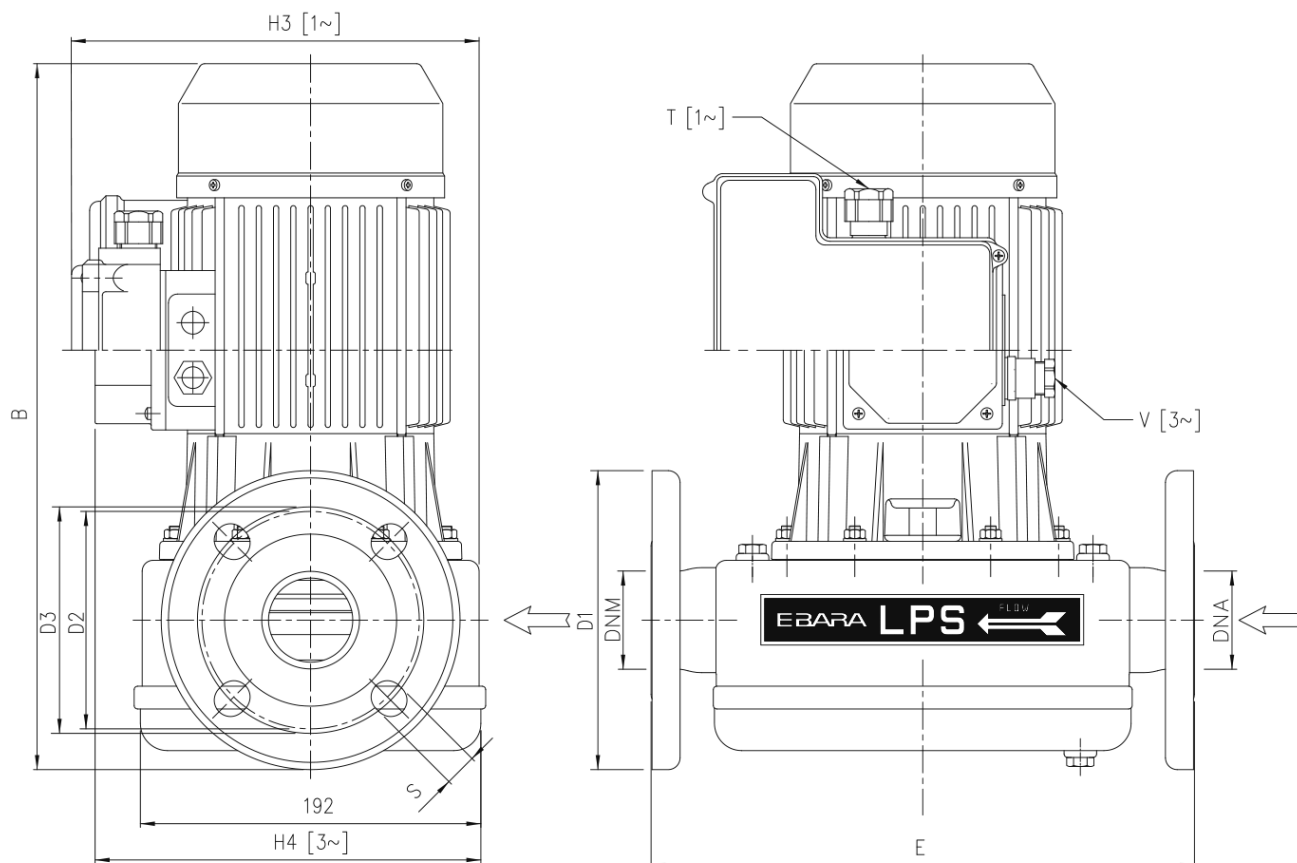
Water, clean [100%] ; 20°C; 0.9983kg/dm³; 1mm²/s



Dimensions

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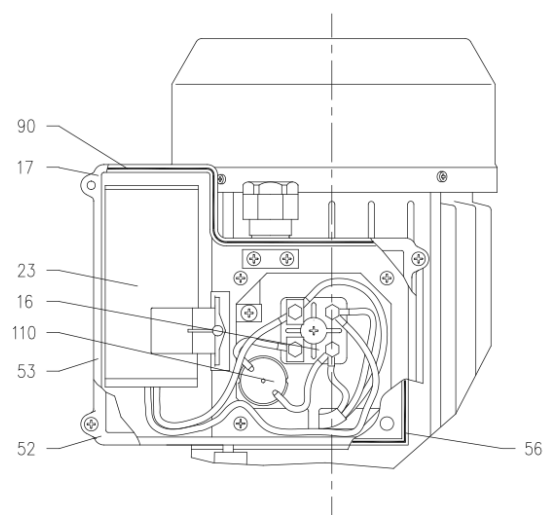
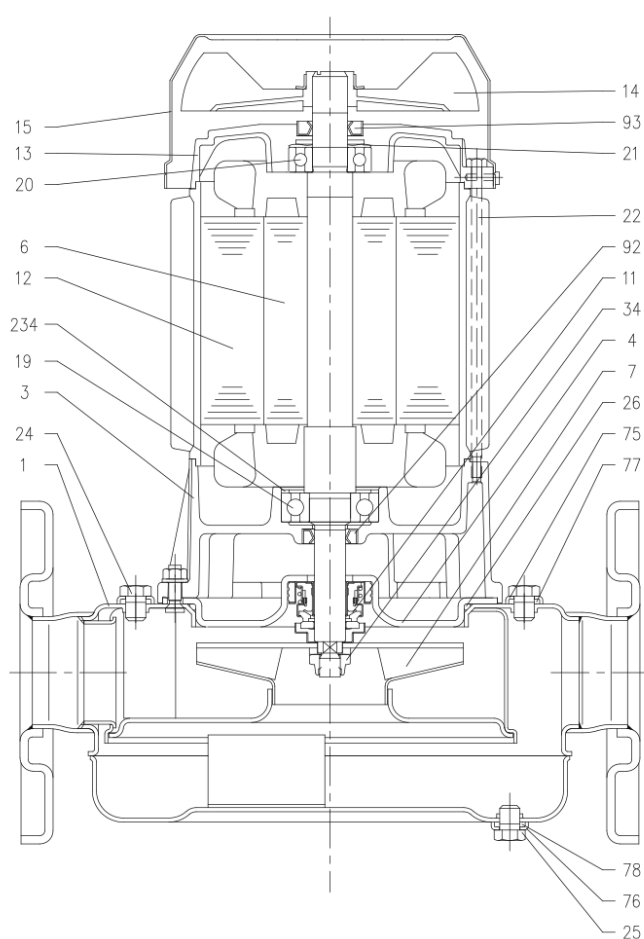


Dimensions in mm							
1	B	412.5					
2	D1	165					
3	D2	120					
4	D3	125					
5	DNA	50					
6	DNM	50					
7	E	310					
8	H4	214.5					
9	S	18					
10	V	M20X1.5					
11	Weight P&M	20.5 kg					

(1/3) Construction

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(2/3) Construction

Pump name LPS 50/150

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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

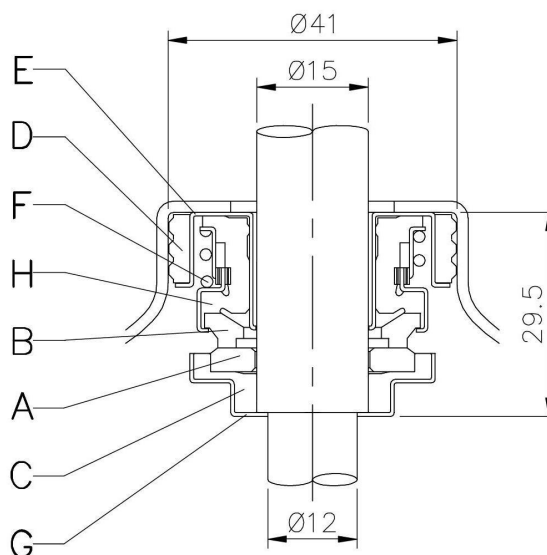
[3] Only for version single phase: LPS 50/150M

[4] See **CONSTRUCTION 3**

(3/3) Construction

Pump name LPS 50/150

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REF	PART NAME	MATERIAL
A	Rotary seal ring	ceramic
B	Stationary seal ring	carbon graphite
C	Cup Gasket	NBRH
D	Seal ring	NBRH
E	Case	AS1304
F	Selfdriving spring	AS1304
G	Case	AS1304
H	Belows	NBRH