

Technical Data

Pump Name

3LS4 65-125/0.55

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h		Kin. viscosity cSt	1.005
4	Head m		Vapour pressure kPa	2.34
5	Geodetic head m		PH value	
6	Inlet pressure (pin) kPa	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump Name	3LS4 65-125/0.55	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 128
12	Speed rpm	1400		Designed mm 128
13	No. of Stage	1		Min. mm 128
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 57
16	Max Working Pressure kPa	1000		Min- m³/h 18
17	Shut-off head kPa	51.91	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 1.4
19	Shaft power kW			- (Qmin.) m 4.8
20			Max. Shaft Power at max. impeller kW	0.43
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	AISI 316		
23	Casing	AISI 316L		
24	Shaft	AISI 316L		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3S465-125/0.55_230_Three Phase	Phases	3~
30	Specific design	- / 50 Hz / Pole pairs 2	Frame size	80
31	Rated power kW	0.55	Weight kg	
32	Number of poles	4	Electric voltage V	230
33	Speed rpm	1400	Electric current A	2.8
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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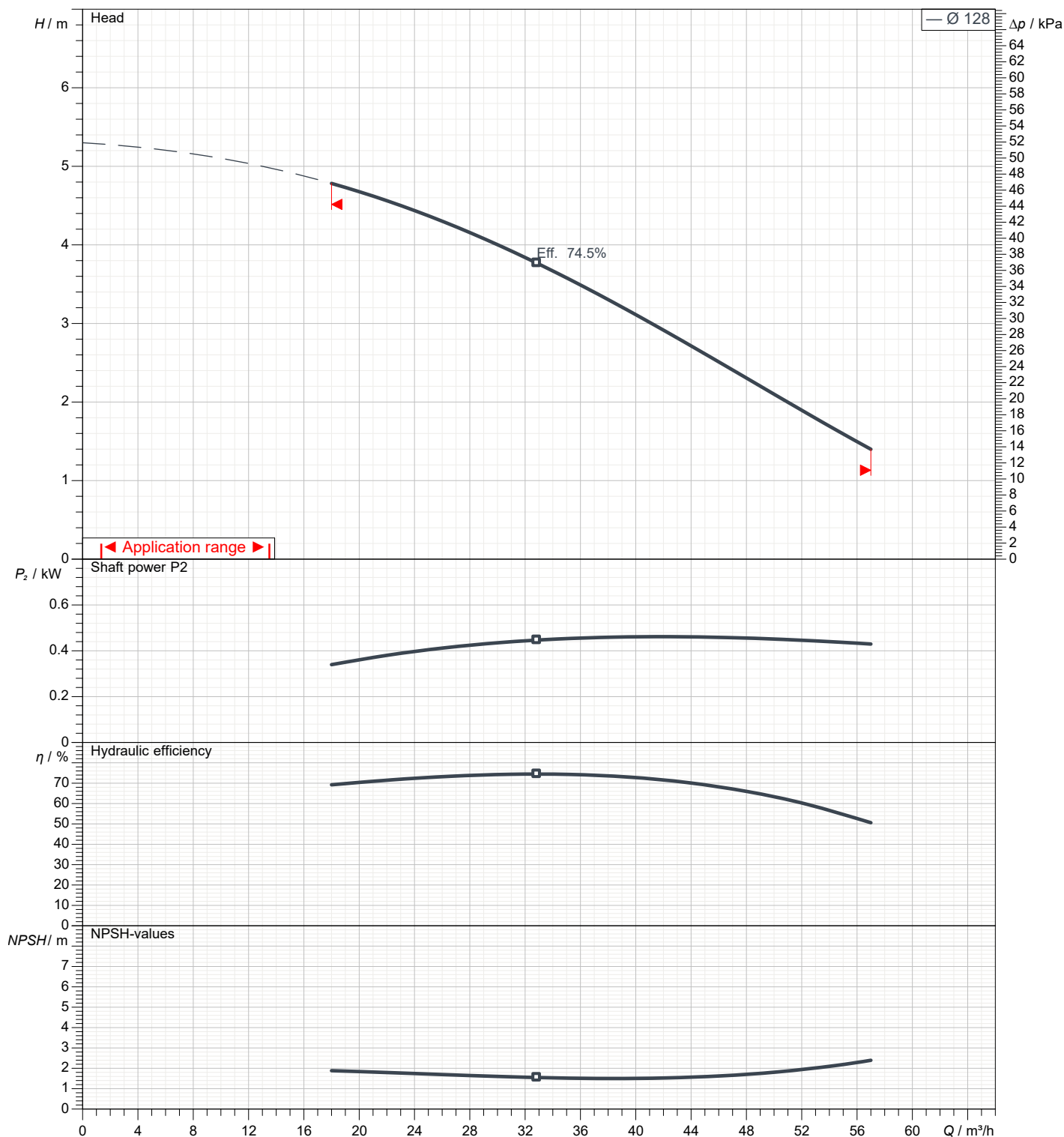
Requested data

1	Flow	m³/h		Operating flow	m³/h		Frequency	Hz	50
2	Head	m		Operating head	m		Number of poles		4
3	Geodetic head	m		Impeller diameter designed	mm	128	Speed	rpm	1400

Pump

Test standard: ISO 9906:2012 - Grade3B

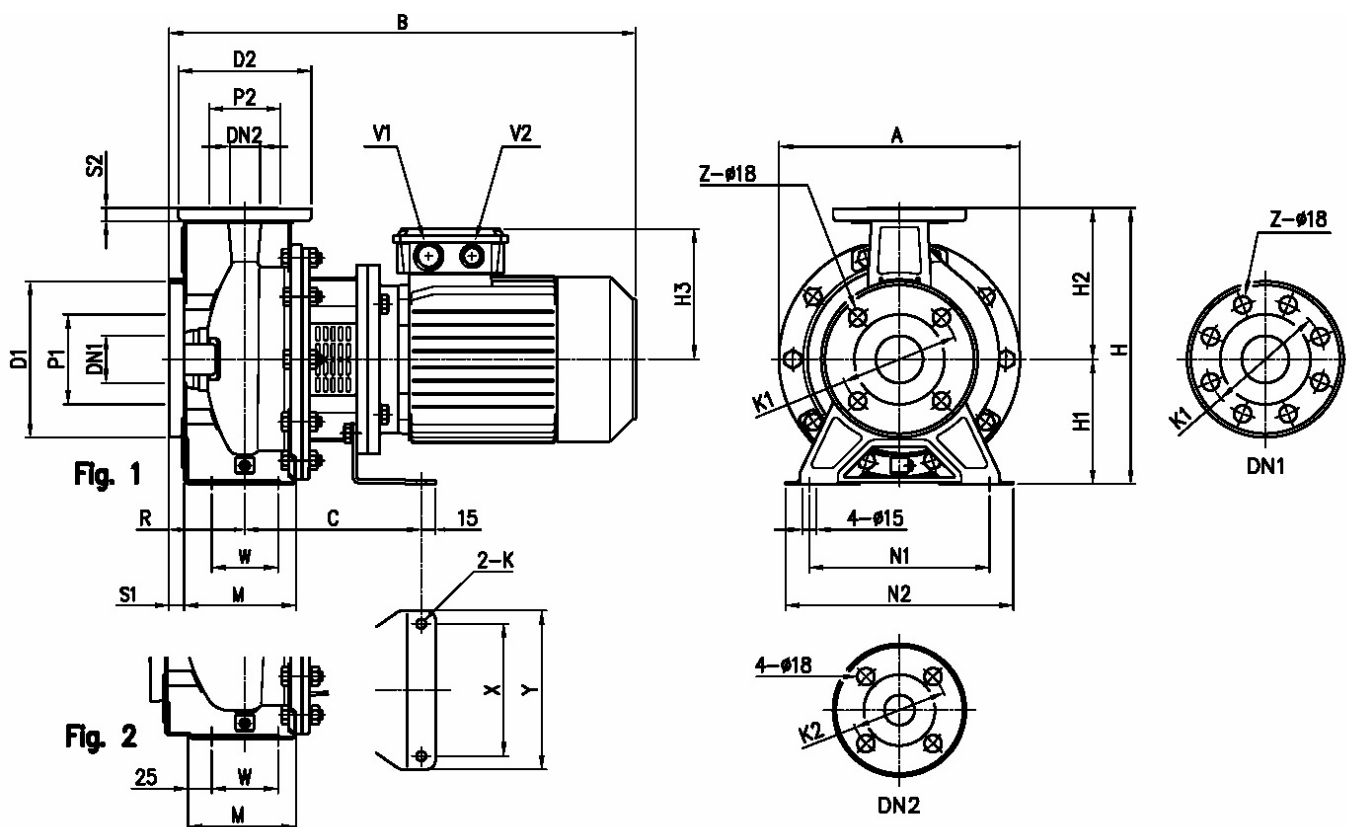
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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Dimensions in mm							
1	A	254	H3	139	Z option	4	
2	B	450	K	10			
3	C	174	M	140			
4	Dia D1	200	N1	212			
5	Dia D2	185	N2	280			
6	Dia DN1	80	R	100			
7	Dia DN2	65	S1	18			
8	Dia K1	160	S2	16			
9	Dia K2	145	V1	M25X1,5			
10	Dia P1	134	V2	M20X1,5			
11	Dia P2	115	W	95			
12	Fig	2	Weight P&M	21,5 kg			
13	H	340	X	140			
14	H1	160	Y	168			
15	H2	180	Z	8			

(2/3)

Construction

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N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
			3S4	3LS4			
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
007	Impeller	32, 40, 50 65-125/160/200	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
011	Mechanical seal	[4]	Carbon/Ceramic/NBR	SiC/SiC/FPM			1
012	Motor		-				1
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [5]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200, 50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
034	Impeller nut	Other model 50-200/2.2	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5 M18x1.5	UNI 7474	1
042	Foot		Galvanized steel				[1]
044	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	2
072	Casing ring (not for 65 version) [2]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
200	Screw	32-125, 40-125 40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		M 10x35			UNI 5739	[3]	
206	Screw	up to 0.37kW from 0.55 to 1.5kW for 2.2 and 3kW	Gv. Steel 8.8 strenght class ISO 898/1		M 8x20	UNI 5739	4
		M 10x25					
		M 12x30					

- [1] Quantity = 1 up to 1.5kW
Quantity = 2 for 2.2 and 3kW
- [2] Only for version 32-200, 40-200, 50-160, 50-200
- [3] Quantity = 10 for 32-160, 40-160, 50-125, 65-125
Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
- [4] Special version: see CONSTRUCTION 3
- [5] FPM (H-HS-HW-HSW version)
EPDM (E version)

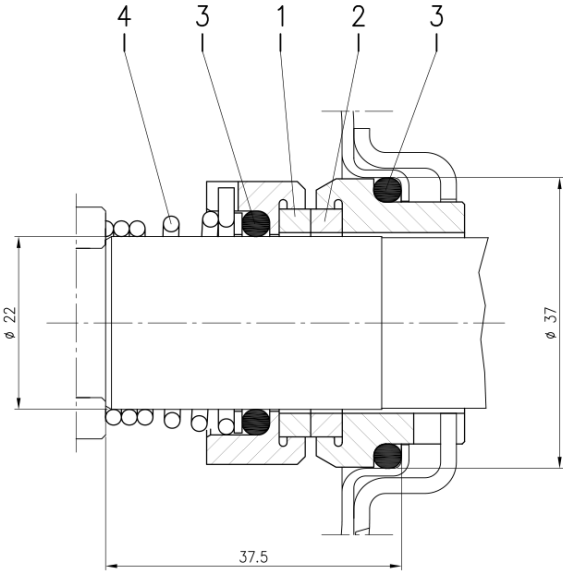
(3/3)

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Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ø22	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)