

Technical Data

Pump Name

3LP4 65-125/1.1

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	3LP4 65-125/1.1	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 149
12	Speed rpm	1400		Designed mm 149
13	No. of Stage	1		Min. mm 149
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 63
16	Max Working Pressure kPa	1000		Min- m³/h 18
17	Shut-off head kPa	75.40	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 2.8
19	Shaft power kW			- (Qmin.) m 7.2
20			Max. Shaft Power at max. impeller	kW 0.82
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_3P465-125/1.1_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 2	Frame size	90 S
31	Rated power kW	1.1	Weight	kg
32	Number of poles	4	Electric voltage	V 230
33	Speed rpm	1400	Electric current	A 4.3
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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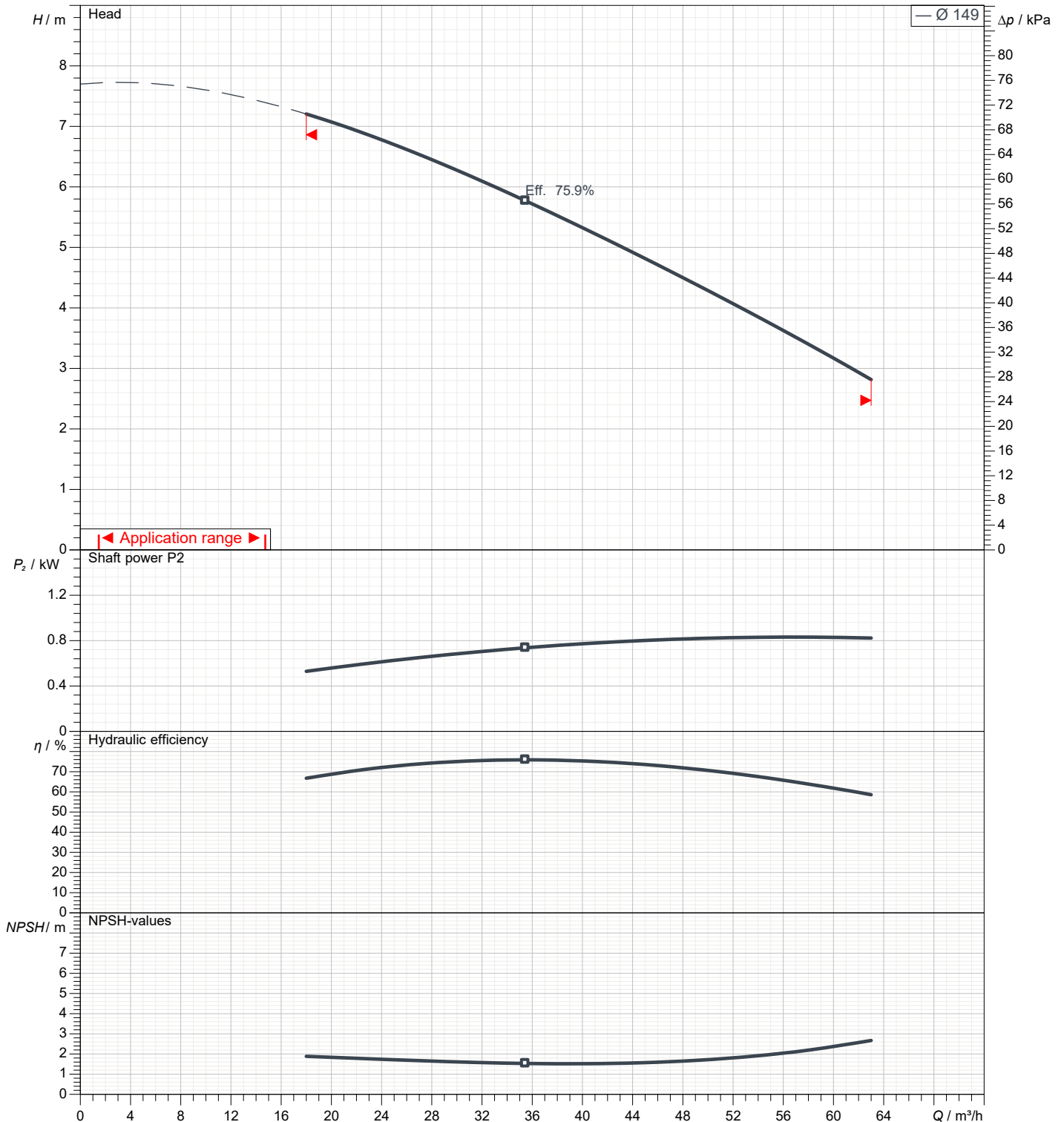
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	149	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

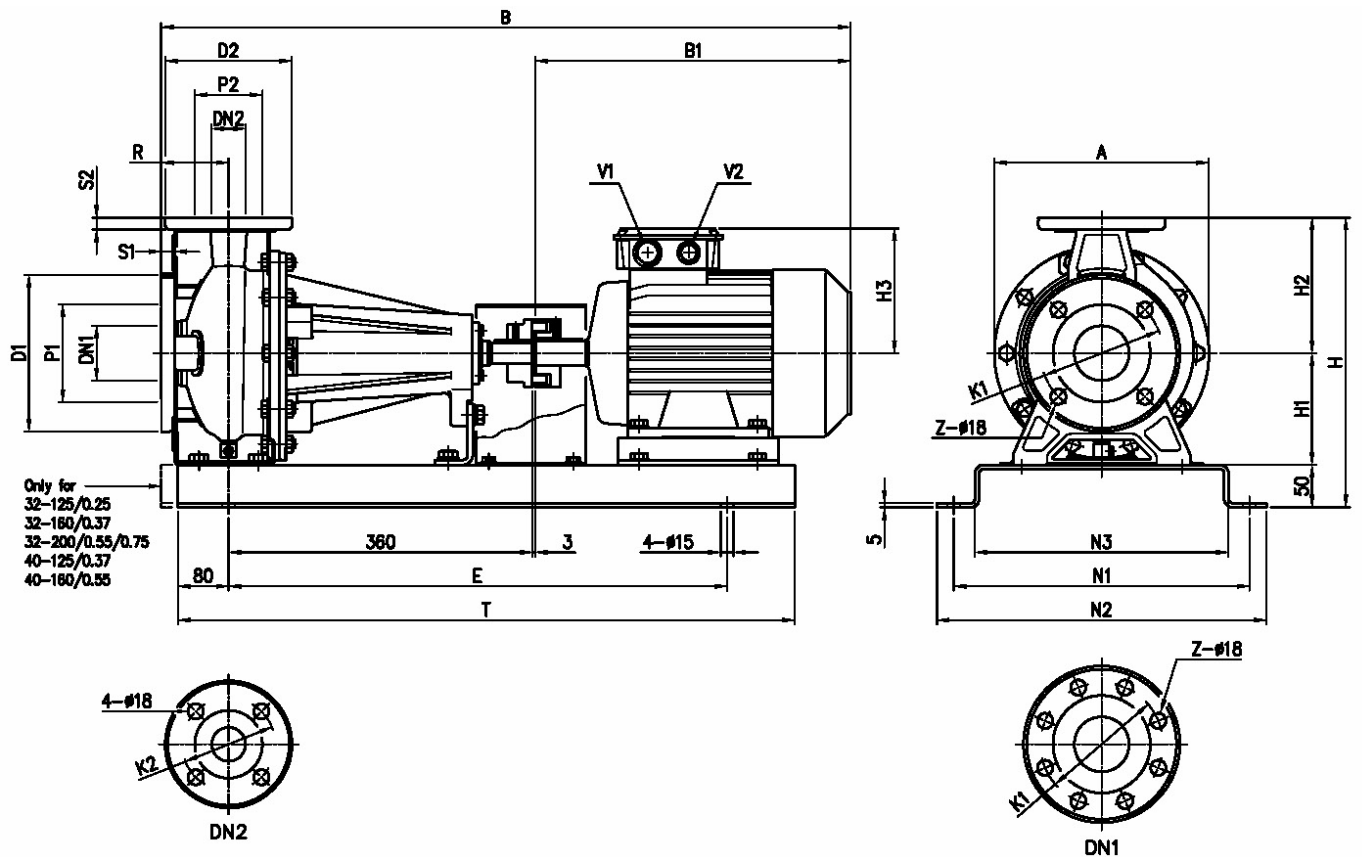
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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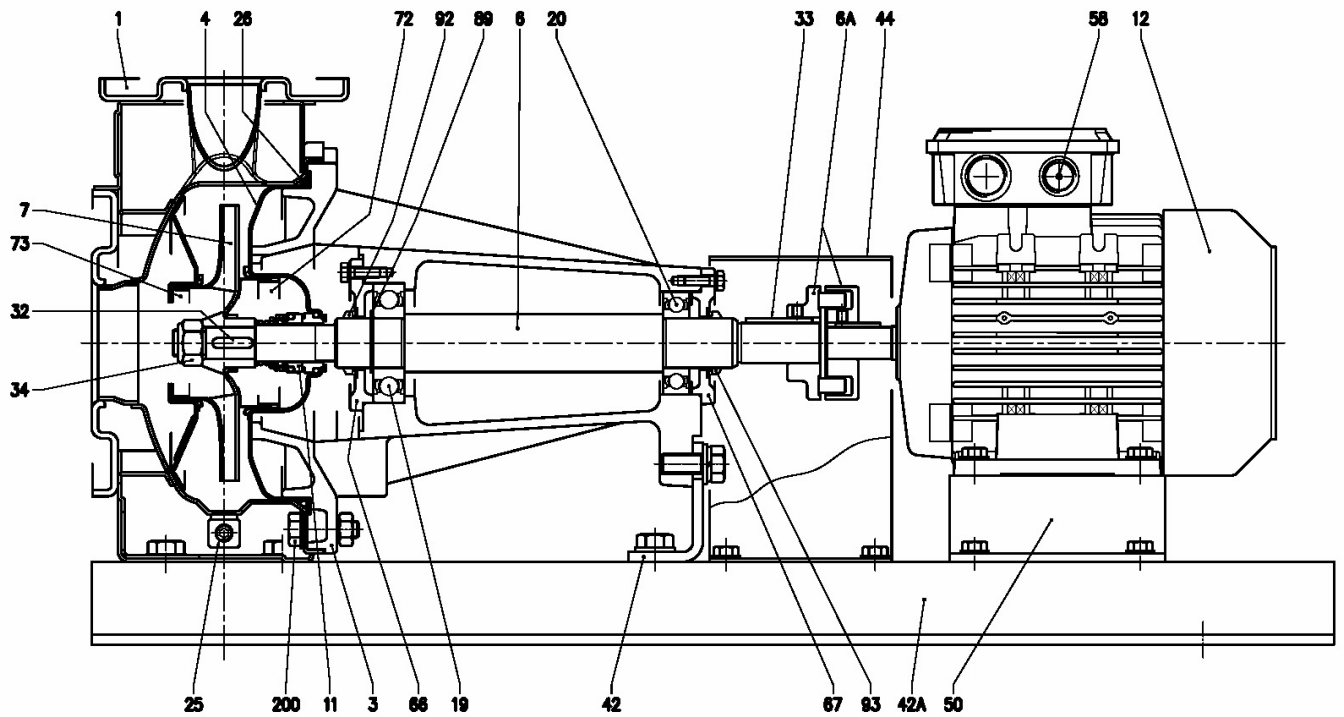
Dimensions in		mm						
1	A	254	H3	148				
2	B	780	N1	350				
3	B1	317	N2	390				
4	Dia D1	200	N3	300				
5	Dia D2	185	R	100				
6	Dia DN1	80	S1	18				
7	Dia DN2	65	S2	16				
8	Dia K1	160	T	750				
9	Dia K2	145	V1	M25X1,5				
10	Dia P1	134	V2	M20X1,5				
11	Dia P2	115	Weight P&M	53,8 kg				
12	E	590	Z	8				
13	H	390	Z option	4				
14	H1	160						
15	H2	180						

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Construction

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Construction

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N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD	Q.TY	
		3P4	3LP4				
001	Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
003	Support	Cast iron EN-GJL-200-EN 1561				1	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
006	Shaft - Part in contact with liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
006 A	Flexible coupling	Cast iron EN-GJL-250-EN 1561				1	
007	Impeller	32-40-50 65-125/160/200	EN 1.4301 (AISI 304) EN 1.4404 (AISI 316L) CF8M - EN 1.4408 (AISI 316)			1	
011	Mechanical seal	[3]	Carbon/Ceramic/NBR	SiC/SiC/FPM		1	
012	Motor		-			1	
019	Bearing		-			1	
020	Bearing		-			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 [4]	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	
033	Key	C 40		8x7x40	UNI 6604	1	
034	Impeller nut	Other model 50-200/2.2	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
					M18x1.5		
042	Pump support	Galvanized steel			EBARA DRAWING	1	
042 A	Base	Galvanized steel				1	
044	Protection	Galvanized steel				1	
050	Foot	Galvanized steel				1	
058	Fasting nut	-				1	
066	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561				1	
067	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561				1	
072	Casing ring (not for 65 version) [1]	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	
089	Snap ring	32-125, 32-160, 40-125, 50-125	Carbon tool steel TC 80	Ø30	UNI 7435	1	
		Other model		Ø40			
092	"V" ring		-	VS - 0030		1	
093	"V" ring		-	VS - 0030		1	
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1	M 8x30	UNI 5739	8	
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200		M 10x35	UNI 5739	[2]	

[1] For version: 32-200, 40-200, 50-160, 50-200

[2] 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

[3] Special version: see CONSTRUCTION 3

[4] FPM (H-HS-HW-HSW version)

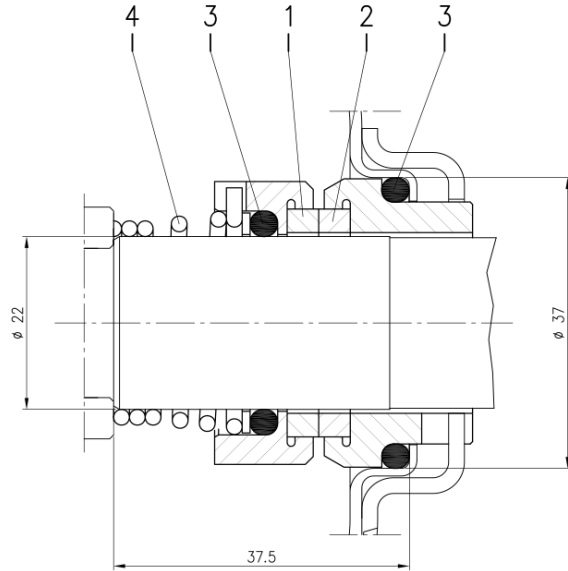
EPDM (E version)

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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)