Technical Data

Pump Name 3LP4 40-200/1.1

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 40-200/1.1	Frequency		Hz	50
10	Design		CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm	200
12	Speed	rpm	1400		Designed	mm	200
13	No. of Stage		1		Min.	mm	200
14	Connection Suction side		DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side		DIN 2532		Max-	m³/h	21
16	Max Working Pressure	kPa	1000		Min-	m³/h	6
17	Shut-off head	kPa	133.19	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	9.6
19	Shaft power	kW			- (Qmin.)	m	13.2
20				Max. Shaft Power at max. impeller		kW	0.80
21	Required pump NPSH	m		Efficiency		%	

Materials

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

Motor

28	Manufacturer		LAFERT	Insulation class		F
29	Type		TEFC_3P440-200/1.1_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

EBARA

Performance Curve

Pump Name 3LP4 40-200/1.1

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Requested data

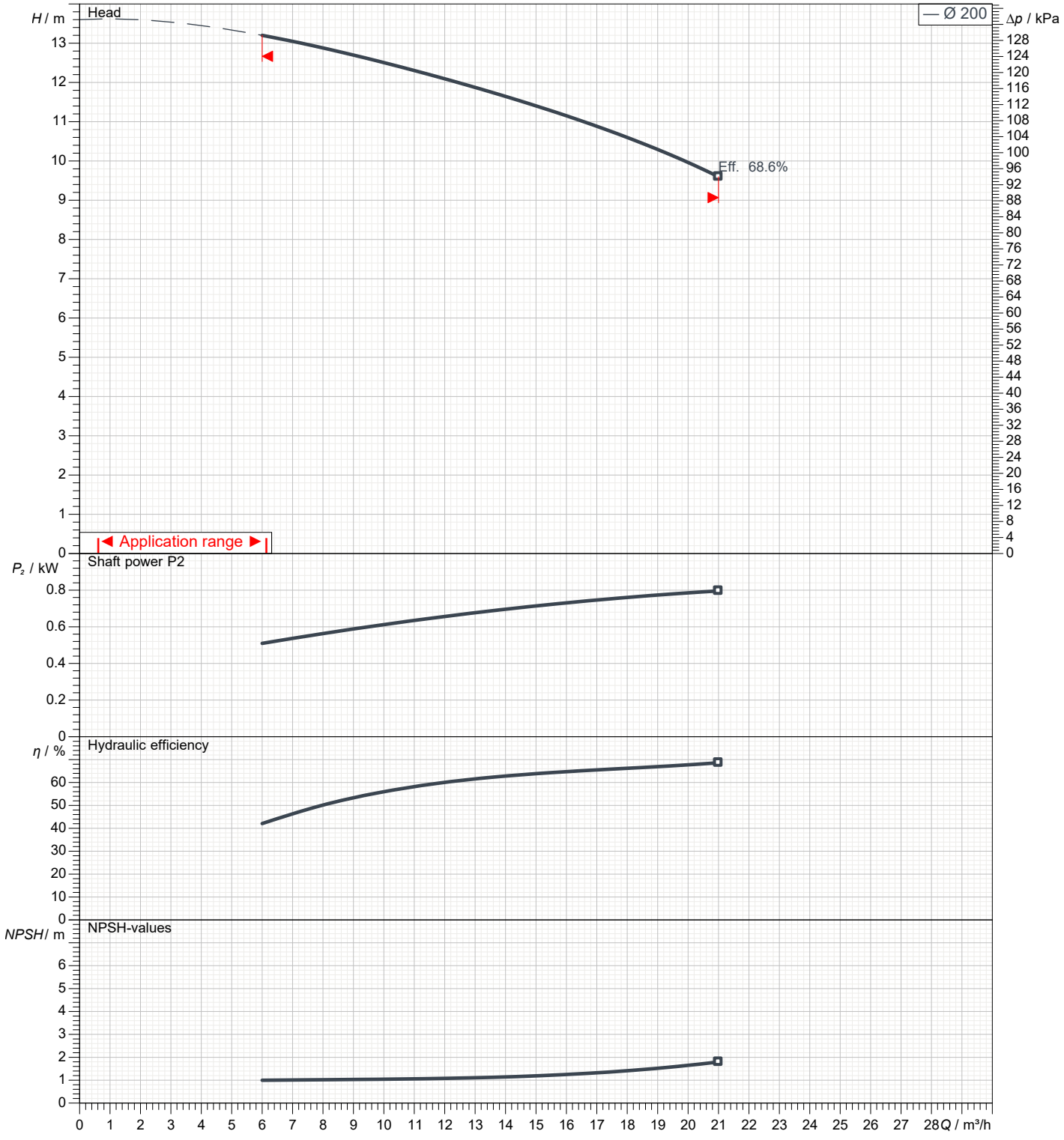
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	200	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

Pump Name 3LP4 40-200/1.1

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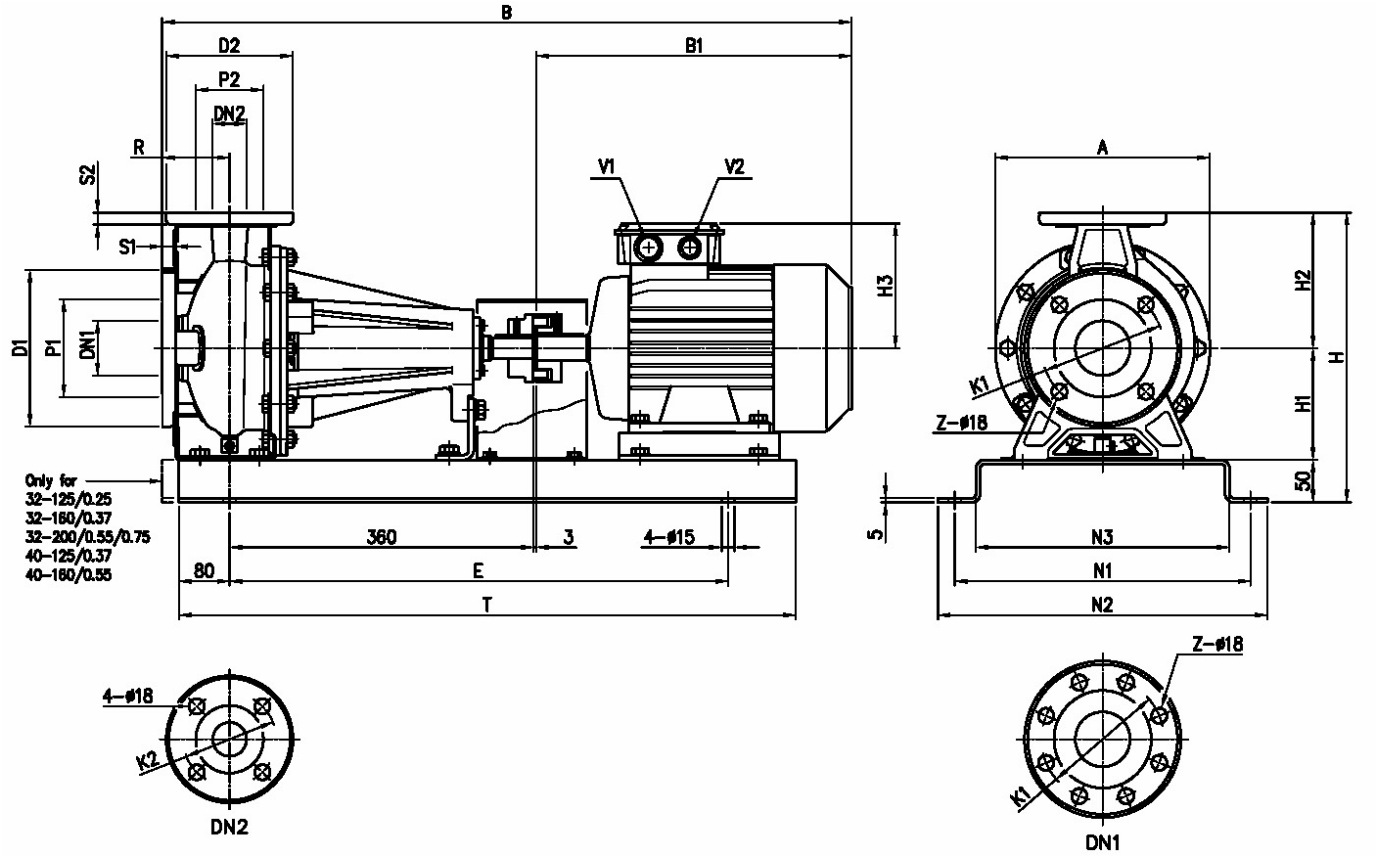

Dimensions in	mm							
1	A	296	H3	148				
2	B	780	N1	350				
3	B1	317	N2	390				
4	Dia D1	185	N3	300				
5	Dia D2	150	R	100				
6	Dia DN1	65	S1	16				
7	Dia DN2	40	S2	14				
8	Dia K1	145	T	750				
9	Dia K2	110	V1	M25X1,5				
10	Dia P1	115	V2	M20X1,5				
11	Dia P2	80	Weight P&M	59,3 kg				
12	E	590	Z	4				
13	H	390						
14	H1	160						
15	H2	180						

EBARA

(1/3)
Construction

Pump Name 3LP4 40-200/1.1

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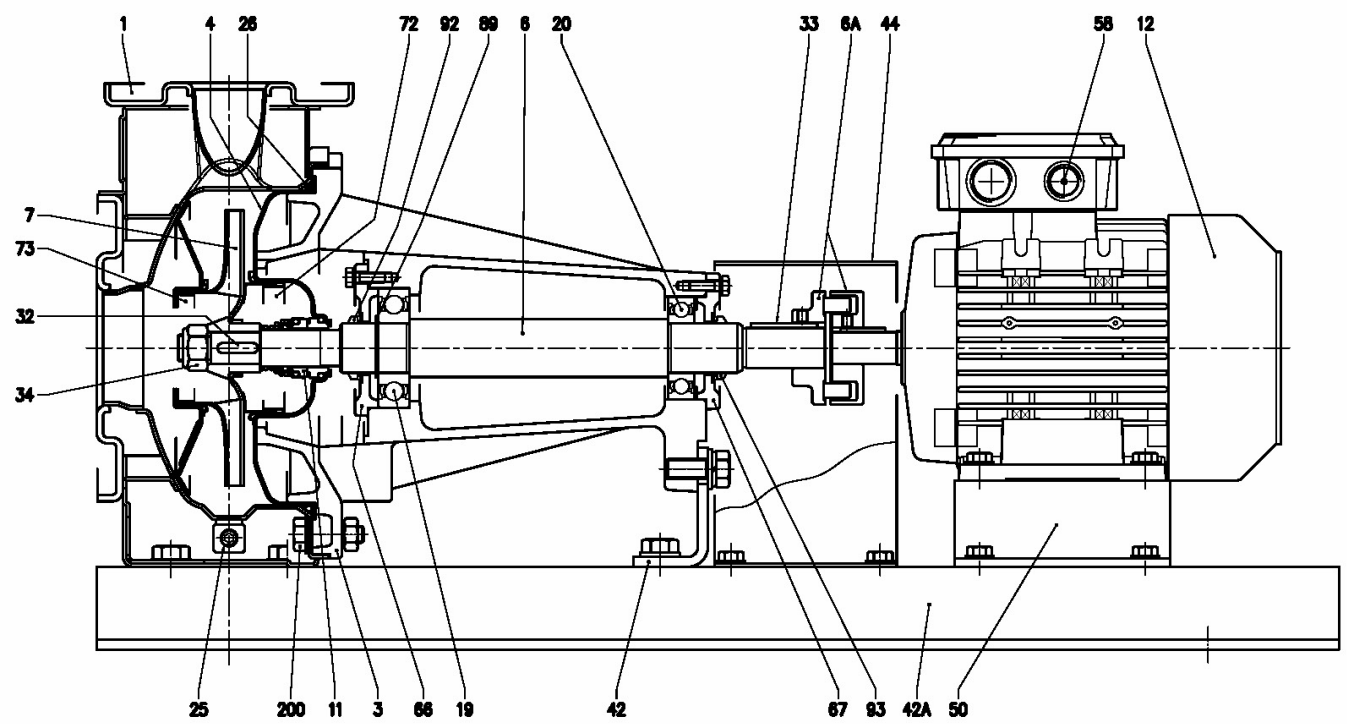

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Construction

Pump Name 3LP4 40-200/1.1

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N°	PART NAME		MATERIAL 3P4	MATERIAL 3LP4	DIMENSIONS	STANDARD	Q.TY
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	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	CF8M - EN 1.4408 (AISI 316)				
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	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			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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Construction

Pump Name 3LP4 40-200/1.1

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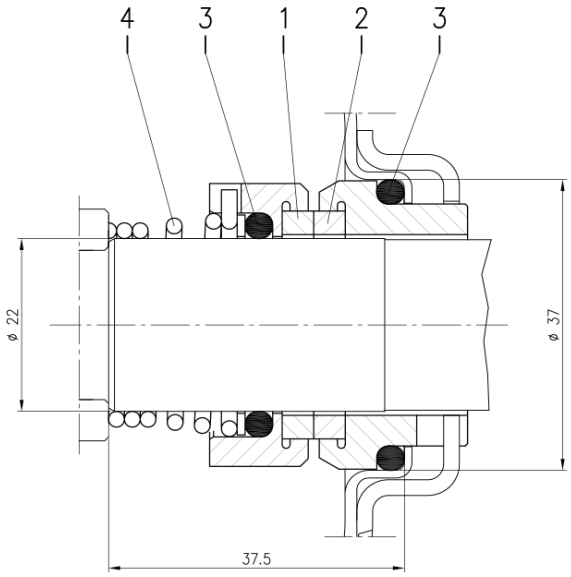

Version	Pump type	Material 1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ø22	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)