

Technical Data

Pump Name

3LP4 40-160/0.55

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	3LP4 40-160/0.55	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 166
12	Speed rpm	1400		Designed mm 166
13	No. of Stage	1		Min. mm 166
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	89.12	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 5.4
19	Shaft power kW			- (Qmin.) m 8.6
20			Max. Shaft Power at max. impeller kW	0.46
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_3P440-160/0.55_230_Three Phase	Phases	3~
30	Specific design	- / 50 Hz / Pole pairs 2	Frame size	
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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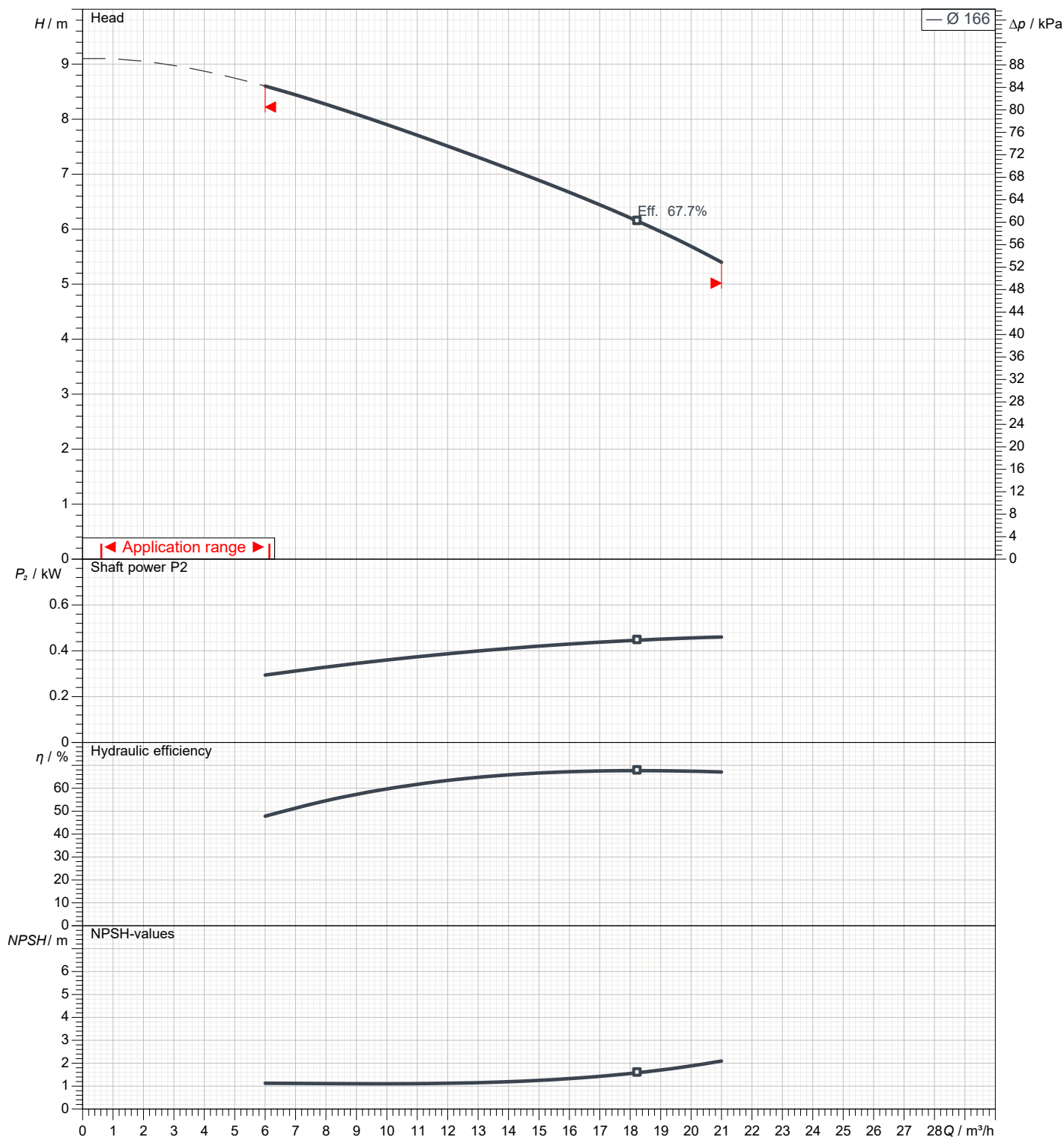
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	166	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

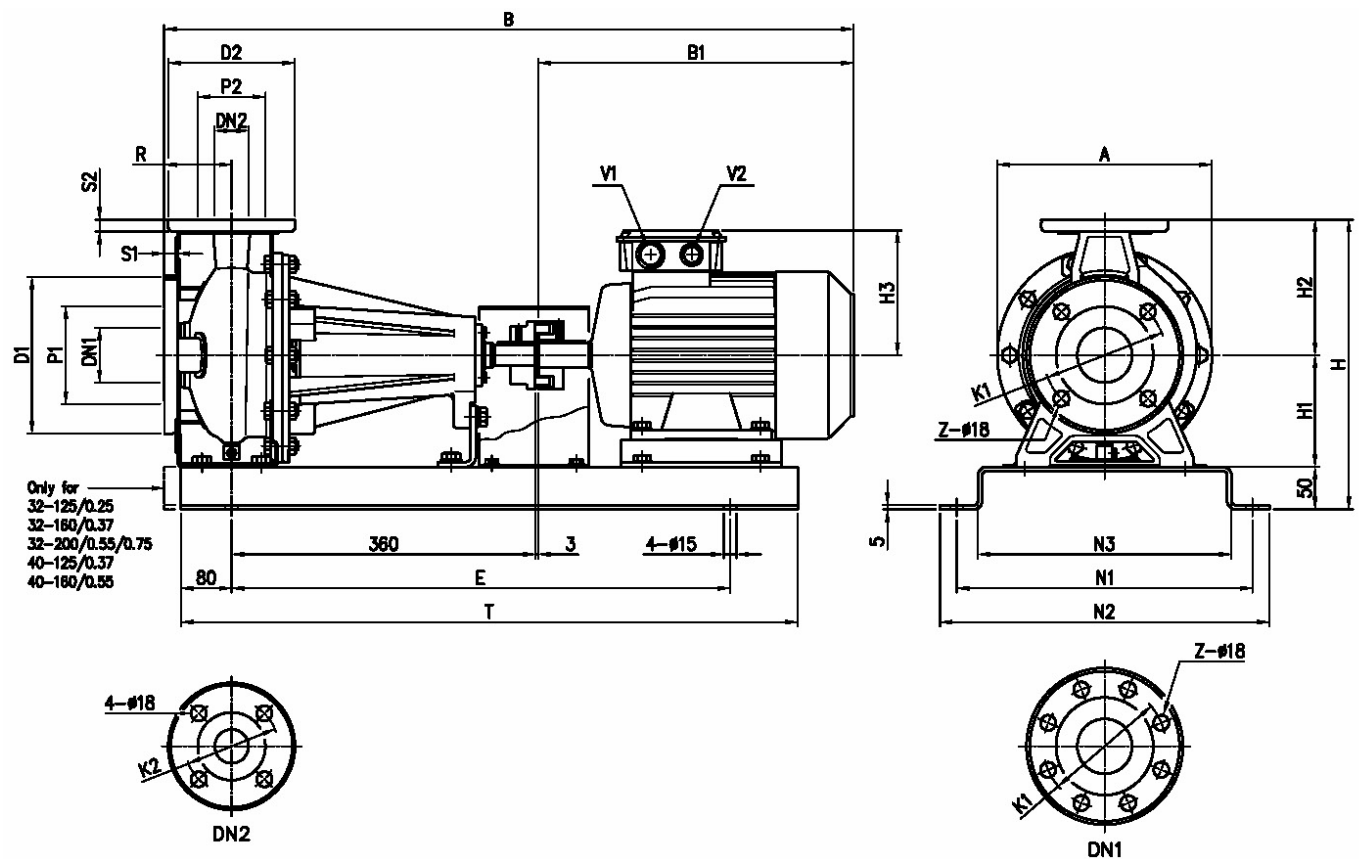
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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Dimensions in mm							
1	A	254	H3	139			
2	B	715	N1	350			
3	B1	272	N2	390			
4	Dia D1	185	N3	300			
5	Dia D2	150	R	80			
6	Dia DN1	65	S1	16			
7	Dia DN2	40	S2	14			
8	Dia K1	145	T	670			
9	Dia K2	110	V1	M25X1,5			
10	Dia P1	115	V2	M20X1,5			
11	Dia P2	80	Weight P&M	44,5 kg			
12	E	510	Z	4			
13	H	342					
14	H1	132					
15	H2	160					

Construction

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N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
001	Casing		3P4 EN 1.4301 (AISI 304)	3LP4 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)			1
011	Mechanical seal	[3]	CF8M - EN 1.4408 (AISI 316)				1
012	Motor		Carbon/Ceramic/NBR	SiC/SiC/FPM			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,			227.96x5.34	OR 6895	
		50-200, 65-160, 65-200					
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 M18x1.5	UNI 7474	1
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 Other model	Carbon tool steel TC 80		Ø30 Ø40	UNI 7435	1
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)

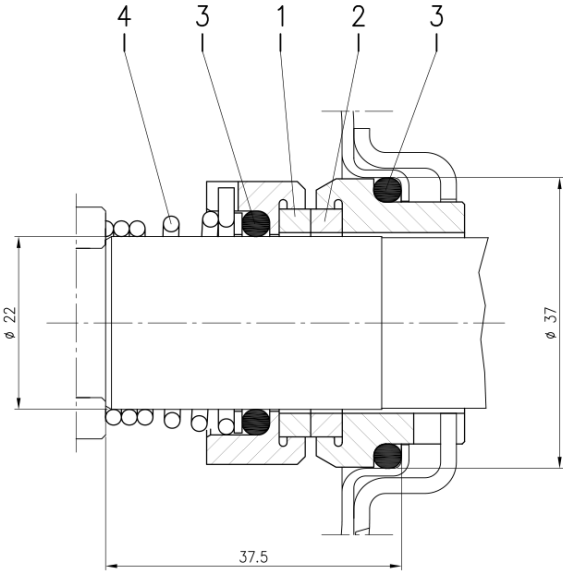
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Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ø22	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)