

Technical Data

Pump Name

3DP4 50-200/2.2

Customer	Date 09.06.2024	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	3DP4 50-200/2.2	Frequency Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 224
12	Speed rpm	1400		Designed mm 224
13	No. of Stage	1		Min. mm 224
14	Connection Suction side	EN 1092-2	Flow	Operating m³/h
15	Connection Discharge side	EN 1092-2		Max- m³/h 39
16	Max Working Pressure kPa	1000		Min- m³/h 12
17	Shut-off head kPa	174.32	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 13.1
19	Shaft power kW			- (Qmin.) m 17.5
20			Max. Shaft Power at max. impeller kW	2.03
21	Required pump NPSH m		Efficiency %	

Materials

22	Casing	Cast iron		
23	Impeller	AISI 304		
24	Shaft	AISI 304		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3DP450-200/2.2_230_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 2	Frame size	100 L
31	Rated power kW	2.2	Weight kg	
32	Number of poles	4	Electric voltage V	230
33	Speed rpm	1400	Electric current A	8.8
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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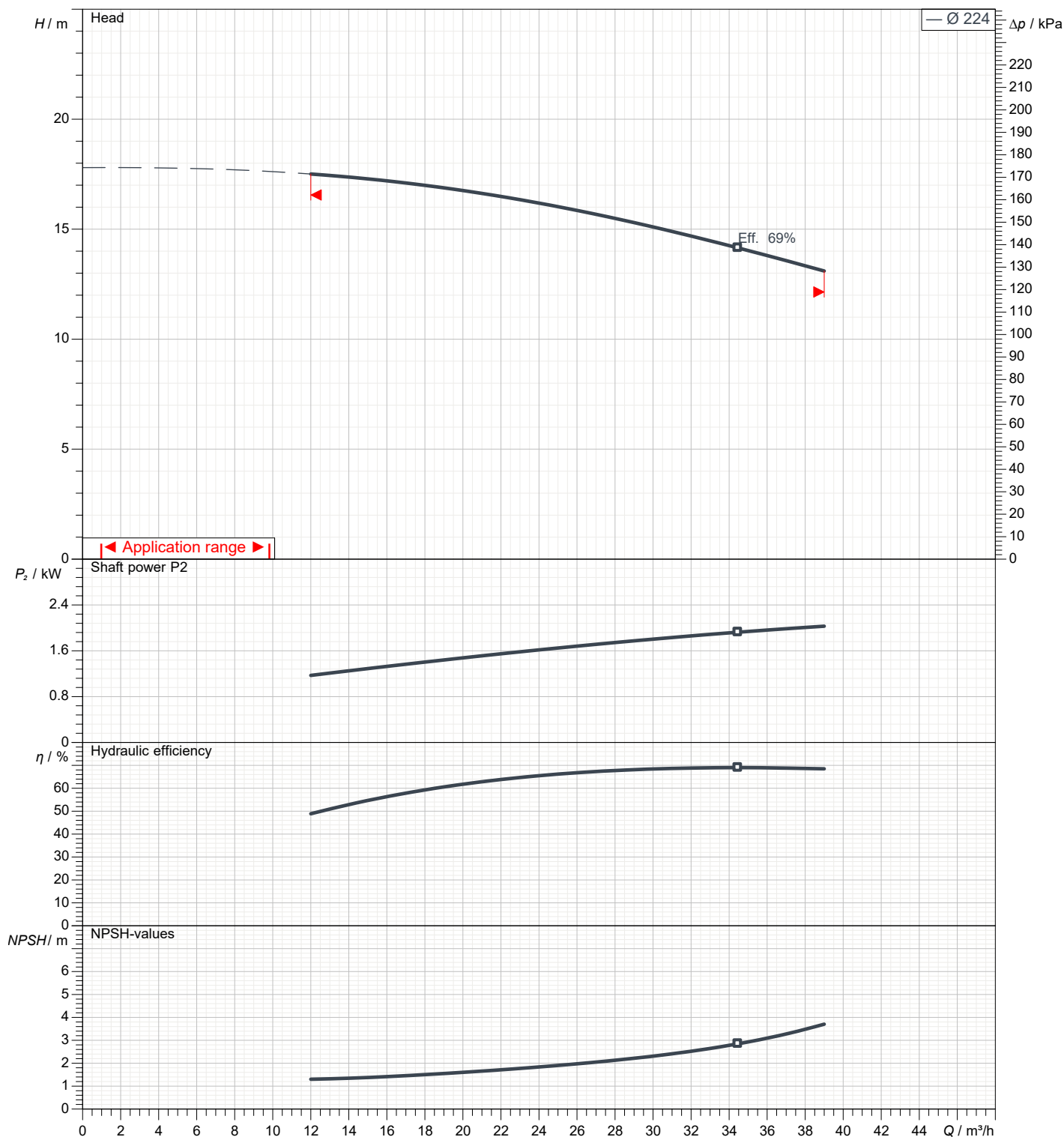
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	224	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

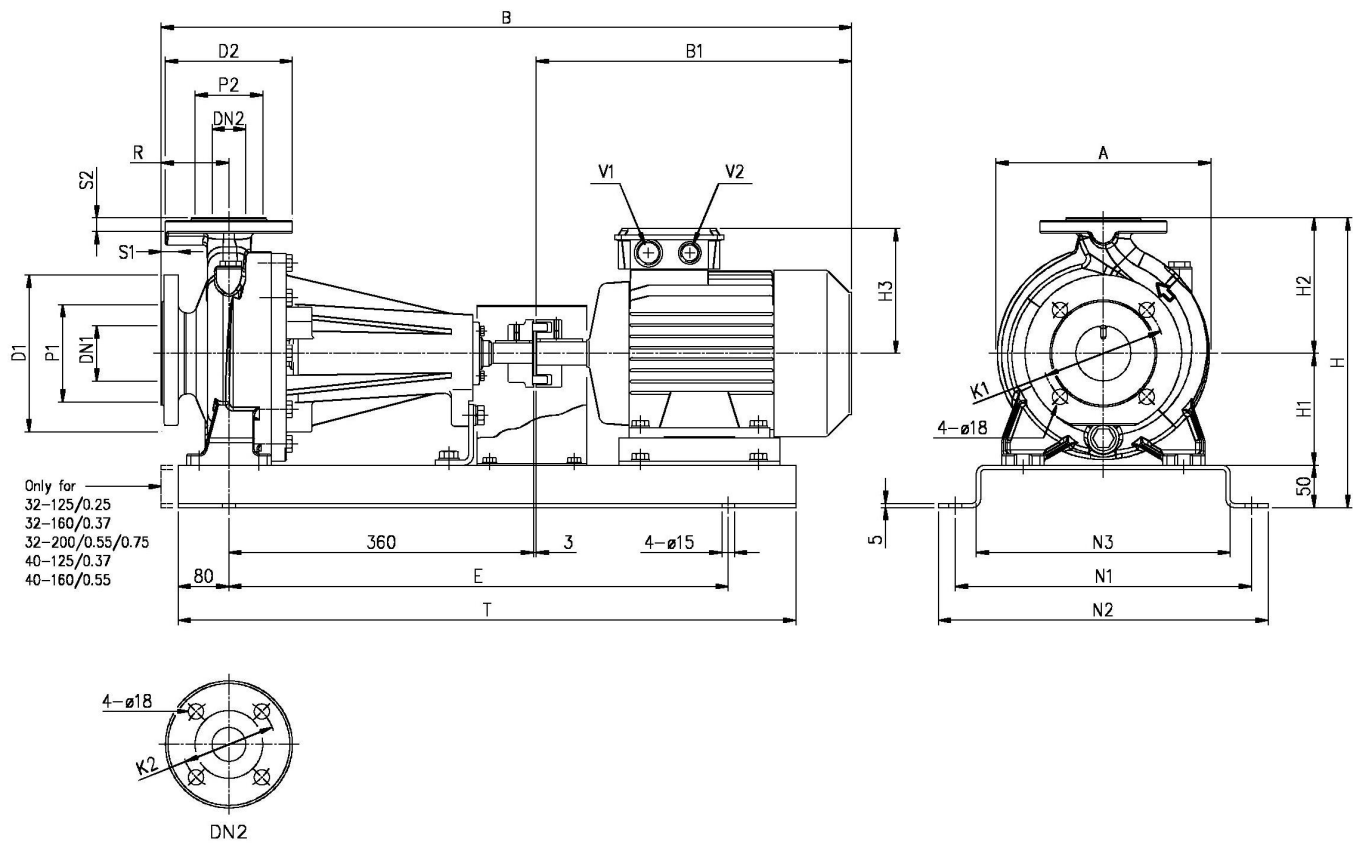
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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Dimensions in mm							
1	A	296	H3	155			
2	B	829	N1	350			
3	B	829	N2	390			
4	Dia D1	185	R	100			
5	Dia D2	165	S1	20			
6	Dia DN1	65	S2	20			
7	Dia DN2	50	T	750			
8	Dia K1	145	V1	M25X1.5			
9	Dia K2	125	V2	M20X1.5			
10	Dia P1	122	Weight P&M	83.3 kg			
11	Dia P2	102					
12	E	590					
13	H	410					
14	H1	160					
15	H2	200					

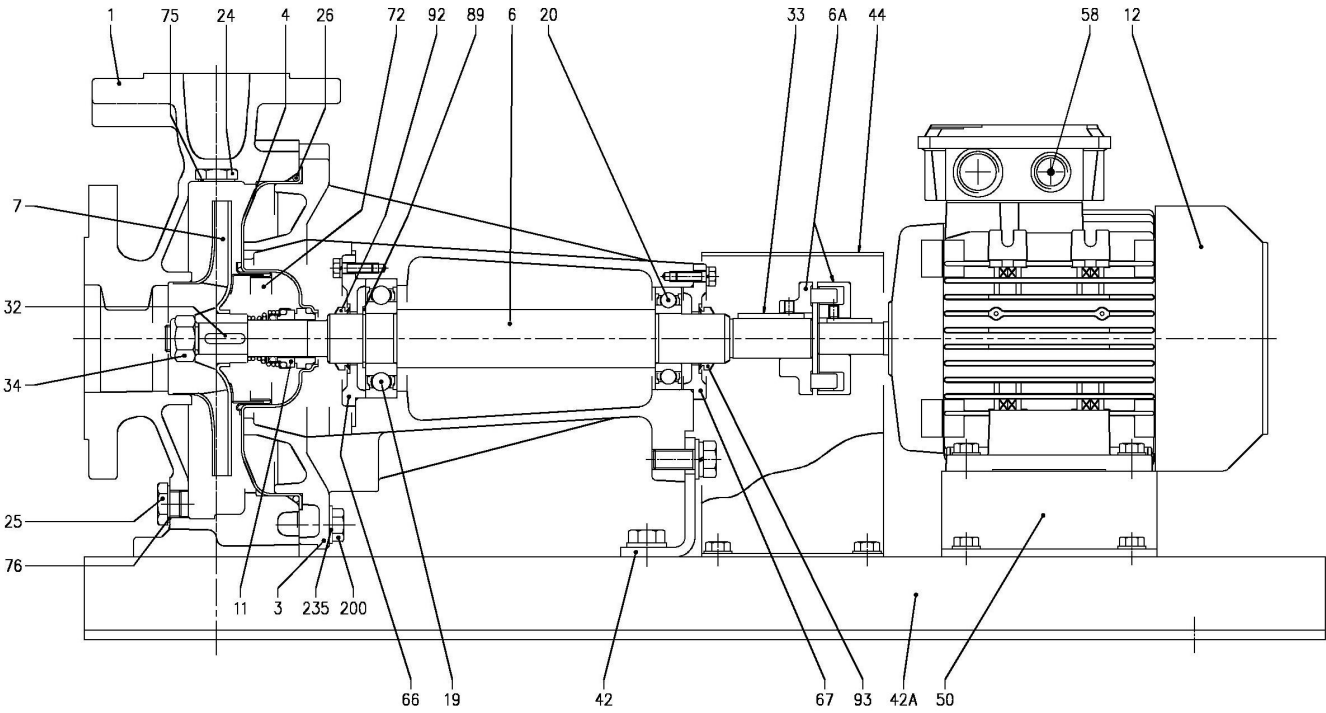
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Construction

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(2/3)

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N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY	
001	Casing		Cast iron EN-GJL-200-EN 1561			1	
003	Support		Cast iron EN-GJL-200-EN 1561			1	
004	Casing cover		EN 1.4301 (AISI 304)			1	
006	Shaft - Wet extension		EN 1.4301 (AISI 304)			1	
006A	Flexible coupling		Cast iron EN-GJL-250-EN 1561			1	
007	Impeller		[1]			1	
011	Mechanical seal		[2]	[2]		1	
012	Motor		-			1	
019	Bearing		-			1	
020	Bearing		-			1	
024	Priming plug		Brass	G 3/8" L=8	DIN 906	1	
025	Drain plug		Brass	G 3/8" L=8	DIN 906	1	
026	"O" ring	32-125, 40-125	NBR [3]	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 models	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474	1	
		50-200/2.2		M18x1.5			
042	Pump support		Fe 37 Galvanized		EBARA DRAWING	1	
042A	Base		Fe 37 Galvanized			1	
044	Protection		Fe 37 Galvanized			1	
050	Foot		Aluminium / Galvanized steel			1	
058	Cable gland		-			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 [4]		EN 1.4301 (AISI 304)			1	
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1	
076	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1	
089	Snap ring	32-125, 32-160	Carbon tool steel TC 80	Ø30	UNI 7435	1	
		40-125		Ø40			
		50-125					
		Other models					
092	"V" ring		-	VS - 0030		1	
093	"V" ring		-	VS - 0030		1	
200	Screw	32-125	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30	UNI 5739	8	
		40-125		M 10x35		10	
		32-160					
		40-160					
		50-125					
		65-125					
32-200, 40-200	12						
50-160, 50-200							
65-160, 65-200							
235	Washer	32-125	Galvanized Steel	8.4x17	UNI 6592	8	
		40-125		10.5x21		10	
		32-160					
		40-160					
		50-125					
		65-125					
		32-200, 40-200					12
		50-160, 50-200					
65-160, 65-200							

[1] EN 1.4301 (AISI 304) for 32, 40, 50 series;

EN 1.4401 (AISI 316) for 65 series

[2] See **CONSTRUCTION 3**

[3] FPM for H, HS, HW, HSW version;

EPDM for E version

[4] Only for: 32-200, 40-200, 50-160, 50-200

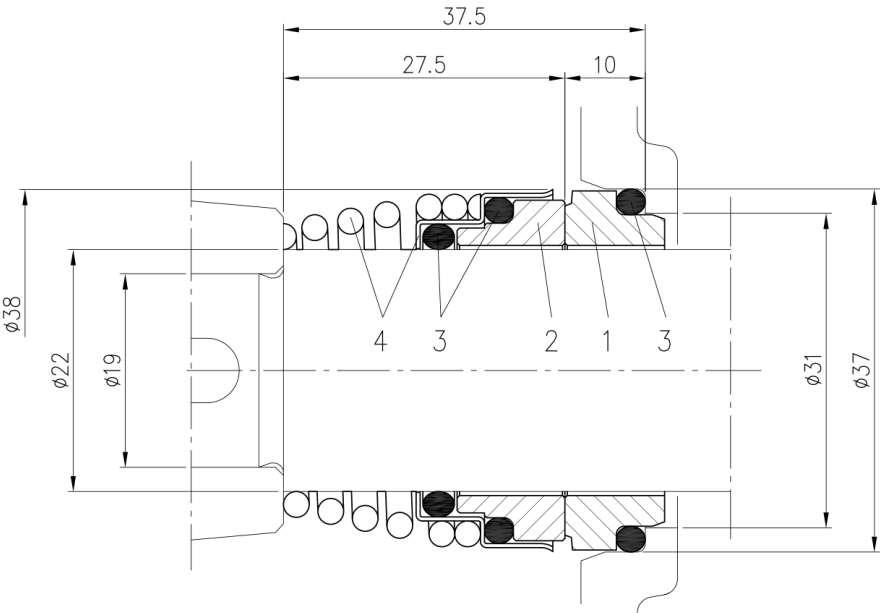
(3/3)

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Version	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)