

Technical Data

Pump Name

3P 65-160/15

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	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	mm²/s 1.005
4	Head	m	Vapour pressure	bar 0.0234
5	Geodetic head	m	PH value	
6	Inlet pressure (pin)	bar	Density	kg/m³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature	°C 20		

Pump

9	Pump Name	3P 65-160/15	Frequency	Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm 178
12	Speed	rpm 2900		Designed	mm 178
13	No. of Stage	1		Min.	mm 178
14	Connection	Suction side DIN 2532	Flow	Operating	m³/h
15	Connection	Discharge side DIN 2532		Max-	m³/h 138
16	Max Working Pressure	bar 10		Min-	m³/h 42
17	Shut-off head	bar 4.70	Head	Operating	m
18	Total weight	kg See the table of "Dimensions".		- (Qmax.)	m 26.5
19	Shaft power	kW		- (Qmin.)	m 45.5
20			Max. Shaft Power at max. impeller	kW	13.68
21	Required pump NPSH	m	Efficiency	%	

Materials

22	Impeller	AISI 316L		
23	Casing	AISI 304		
24	Shaft	AISI 304		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3P65-160/15_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	160M
31	Rated power	kW 15	Weight	kg 88.9
32	Number of poles	2	Electric voltage	V 400
33	Speed	rpm 2900	Electric current	A 26.7
34	Degree of protection			
35				

Remarks

Performance Curve

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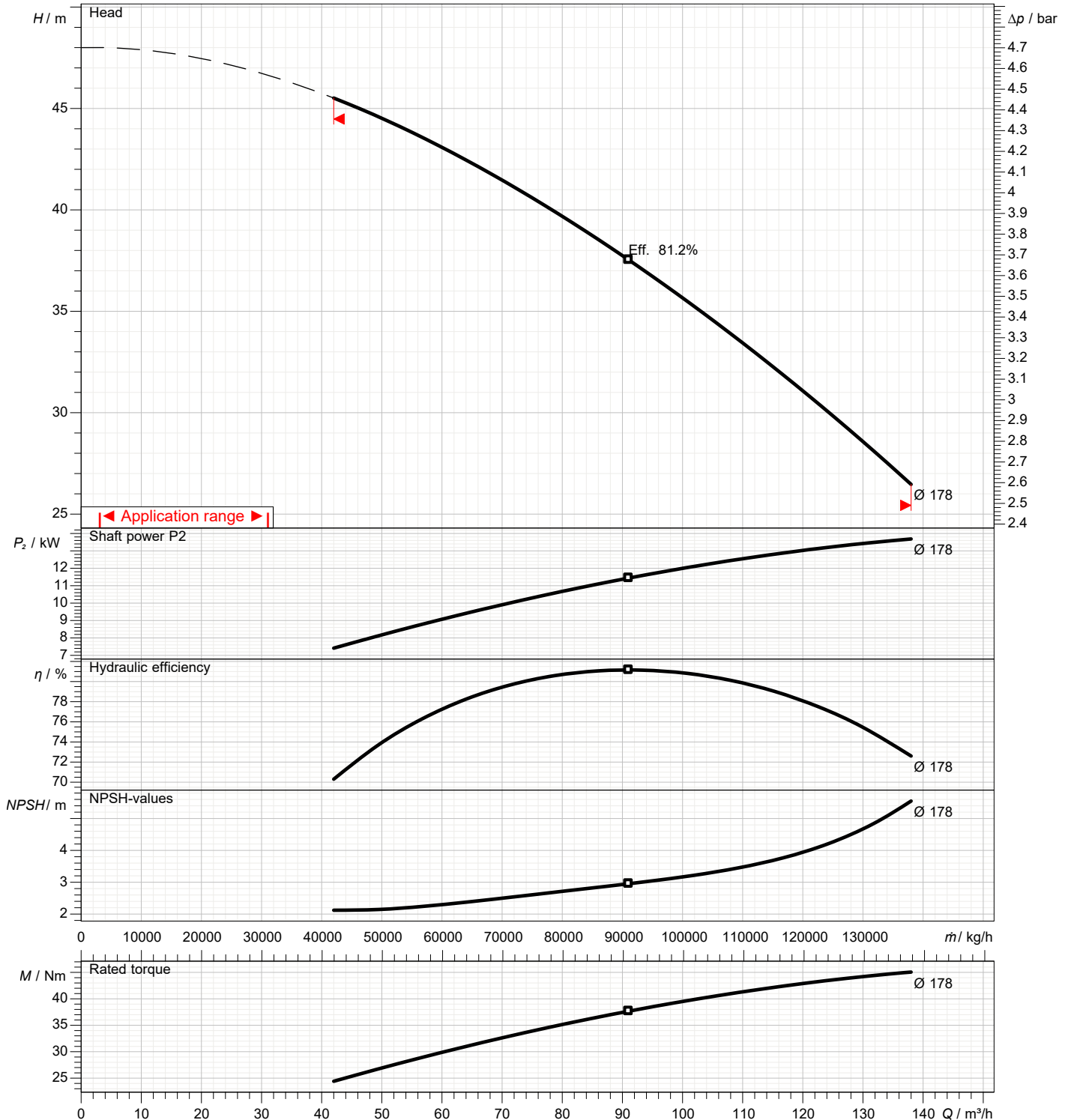
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	178	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

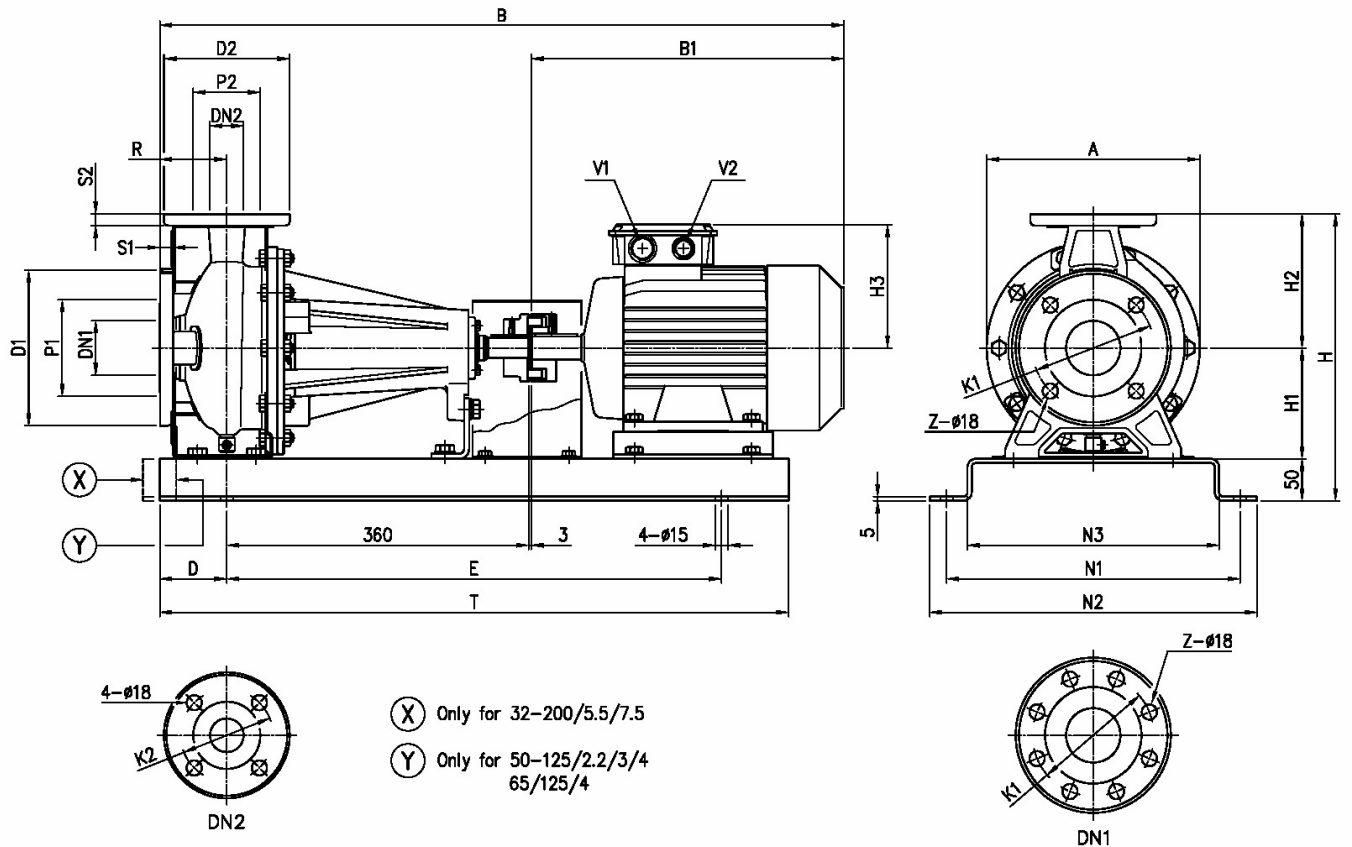
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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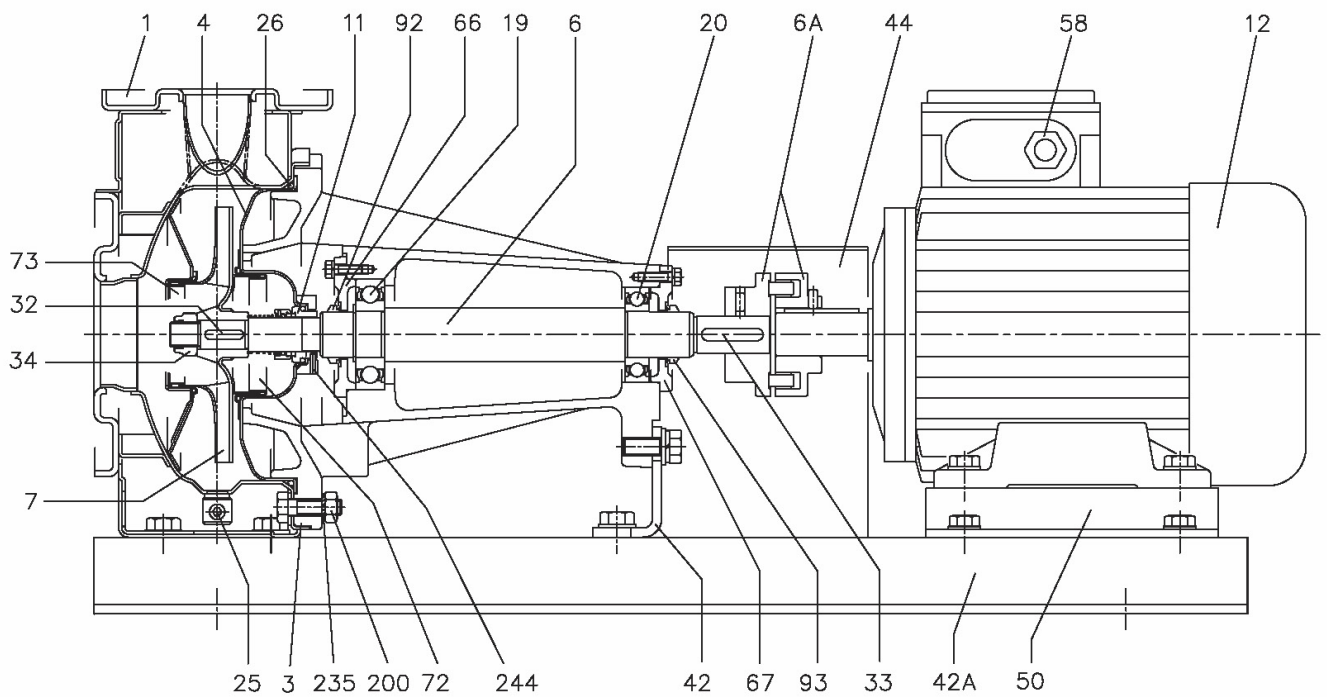
Dimensions in		mm		
1	A	296	H2	200
2	B	1071	H3	238
3	B1	608	N1	380
4	D	100	N2	420
5	Dia D1	200	N3	330
6	Dia D2	185	R	100
7	Dia DN1	80	S1	18
8	Dia DN2	65	S2	16
9	Dia K1	160	T	1000
10	Dia K2	145	V1	[M40x1].5
11	Dia P1	134	V2	[M40x1].5
12	Dia P2	115	Weight P&M	129 kg
13	E	800	Z	8
14	H	410	Z option	4
15	H1	160		

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Construction

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Construction

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N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD	Q.TY	
		3P	3LP				
1	Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
3	Support	Cast iron EN-GJL-200-EN 1561				1	
4	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
6	Shaft - Part in contact with liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
6 A	Flexible coupling	Cast iron EN-GJL-250-EN 1561				1	
7	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
11	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FPM	[5]		1	
12	Motor	-	-			1	
19	Bearing	-	-			1	
20	Bearing	-	-			1	
25	Draing plug	EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1	
26	O ring	32-125, 40-125 32-160, 40-160, 50-125, 65-125 32-200, 40-200, 50-160, 50-200, 65-160, 65-200	NBR [4]	FPM	158.11x5.34	OR 6625	1
					183.52x5.34	OR 6720	
					227.96x5.34	OR 6895	
32	Key	EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1	
33	Key	C 40		8x7x30	UNI 6604	1	
34	Impeller nut	Up to 11kW 50-200/15 15 kW and above	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
					M18x1.5		
					M20x1.5		
42	Pump support	Fe 37 Galvanized			EBARA DRAWING	1	
42 A	Base	Fe 37 Galvanized				1	
44	Protection	Fe 37 Galvanized				1	
50	Foot	Aluminium / Galvanized steel				1	
58	Fasting nut	-				1	
66	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561				1	
67	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561				1	
72	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
73	Casing ring (not for 65 version)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
92	O ring	-		VS - 0030		1	
93	O ring	-		VS - 0030		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	[2]	
244	Pin [3]	/	EN 1.4301 (AISI 304)	4x15		1	

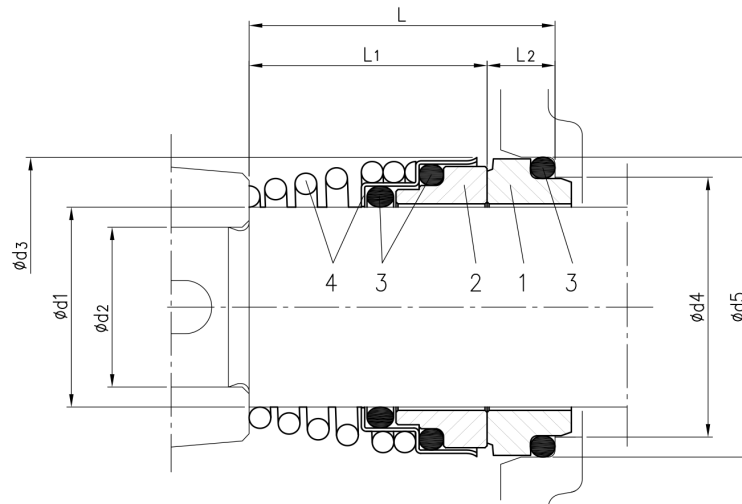
- [1] For version: 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15
- [2] Quantity =10 for 32-160, 40-160, 50-125, 65-125
Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
- [3] Only for 65-160/15 and 65-200
- [4] FPM for H-HS-HW-HSW version
EPDM for E version and Special Seals Q1Q1EGG, Q1U3EGG, U3CEGG, Q1AEGG, U3U3EGG.
(U3U3EGG is not available for model 65-160/15 and model 65-200)
- [5] Special version: see CONSTRUCTION 3

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Construction

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Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	32-125/160/200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	40-125/160/200												
	50-125/160/200												
	65-125												
	65-160/7.5-9.2-11												
	65-160/15												
65-200													