

Technical Data

Pump Name

3LS 65-250/306

Customer	Date	2024-06-20	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-20 10:03:09	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	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump Name	3LS 65-250/306	Frequency Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 203
12	Speed rpm	3520		Designed mm 203
13	No. of Stage	1		Min. mm 203
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 144
16	Max Working Pressure bar	10		Min- m³/h 54
17	Shut-off head bar	7.83	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 52.1
19	Shaft power kW			- (Qmin.) m 78.6
20			Max. Shaft Power at max. impeller kW	29.86
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	CF8M		
23	Casing	CF8M		
24	Shaft	AISI 316L		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3LS 65-250/306_460_Three Phase	Phases	3~
30	Specific design	IE2 / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	30	Weight kg	
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3500	Electric current A	46
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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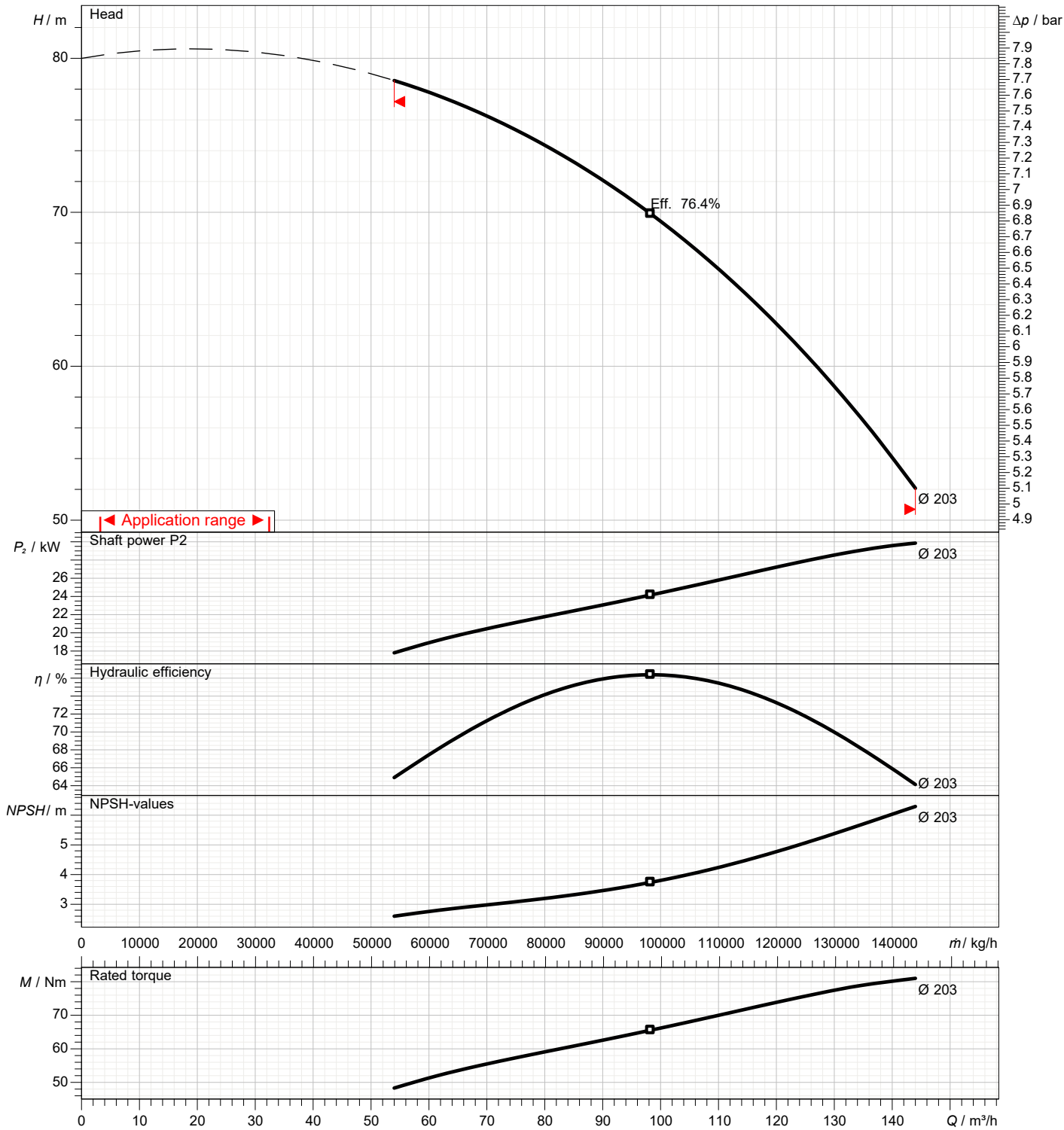
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	203	Speed	rpm	3520

Test standard: ISO 9906:2012 - Grade3B

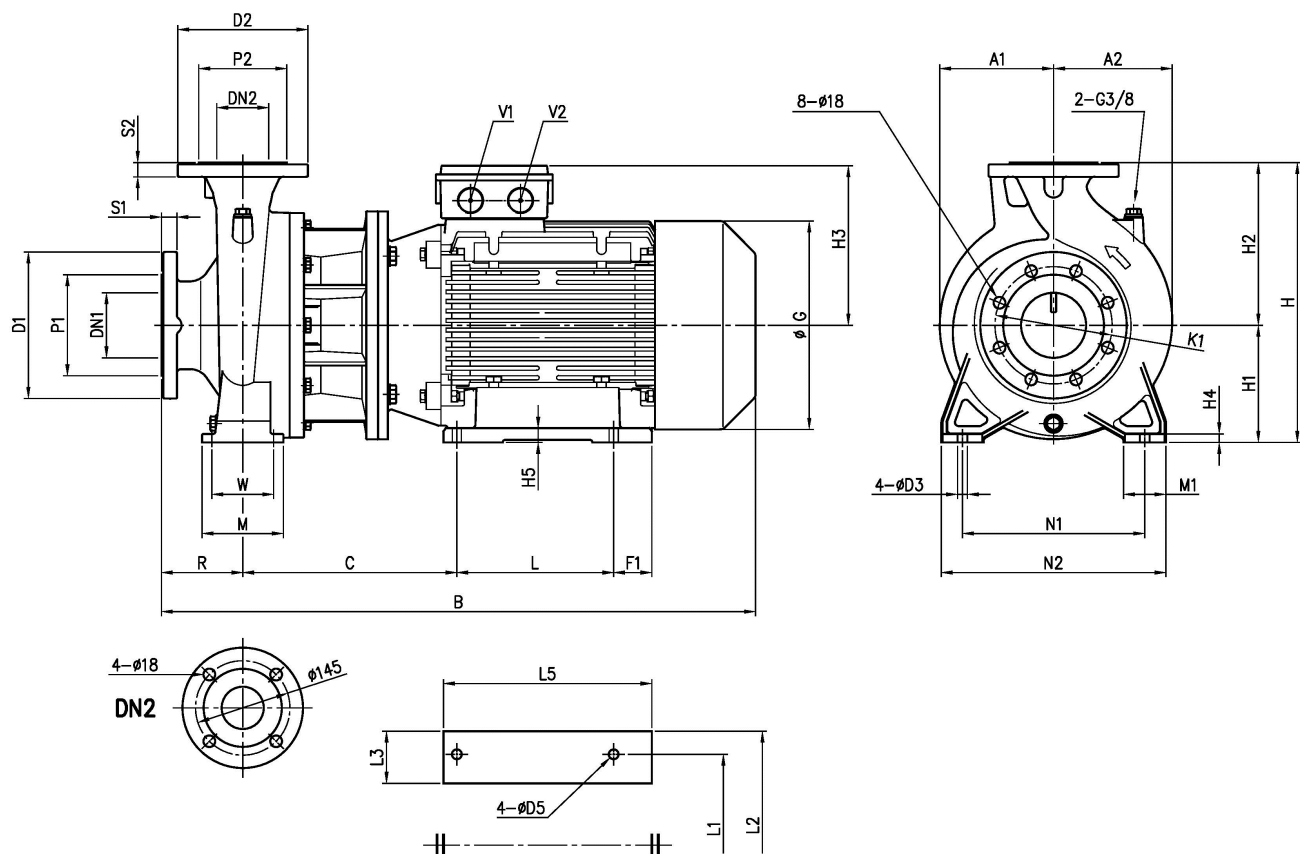
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm								
1	B	966	S1	22				
2	Dia D1	200	S2	20				
3	Dia D2	185	V1	M40x1,5				
4	Dia DN1	80	V2	M40x1,5				
5	Dia DN2	65	Weight P&M	303 kg				
6	Dia K1	160						
7	Dia P1	135						
8	Dia P2	120						
9	H	450						
10	H1	200						
11	H2	250						
12	H3	300						
13	N1	280						
14	N2	360						
15	R	100						

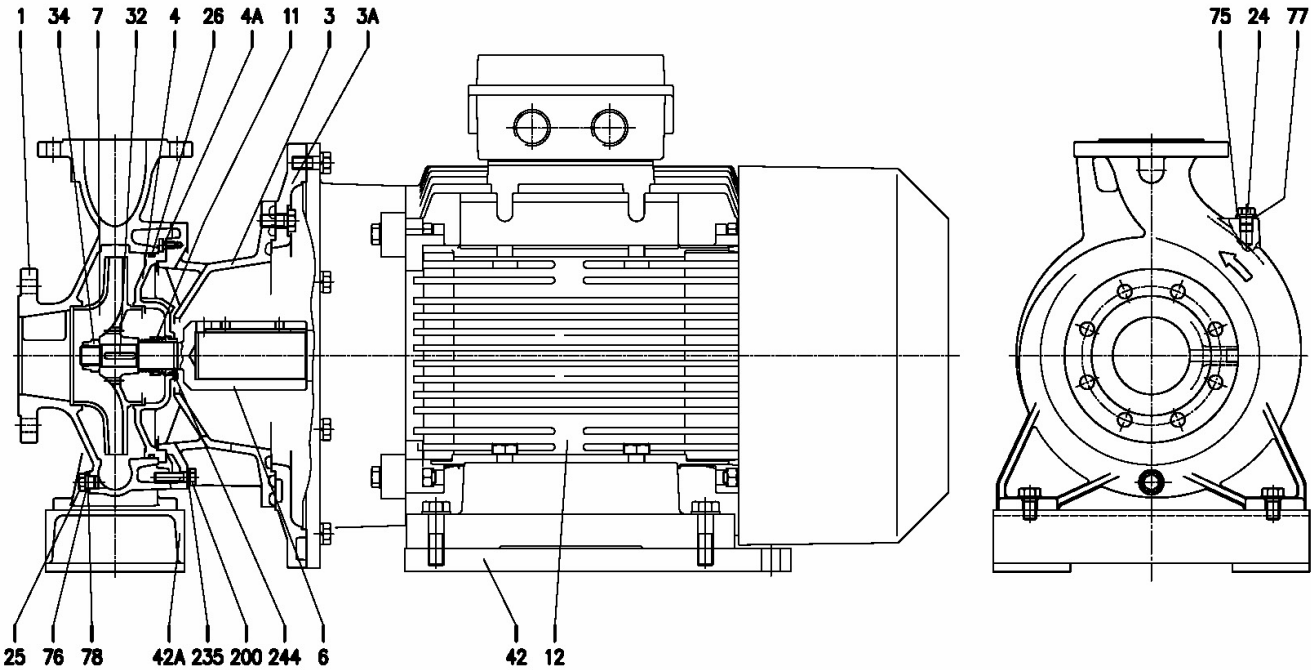
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Construction

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Construction

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI 316)			1
3	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
3A	Adapter ring	Cast iron EN-GJL-200-EN 1561			[1]
4	Casing cover	EN 1.4401 (AISI 316)			1
4A	Screw for casing cover	EN 1.4301(AISI 304)			2
6	Coupling 65-250 80-200 [7] 80-250	EN 1.4404 (AISI 316L) for 22 kW			1
		EN 1.4462 (Duplex stainless steel) for 30-37 kW			1
		EN 1.4404 (AISI 316L) for 22 kW			1
		EN 1.4462 (Duplex stainless steel) for 30-37 kW			1
		EN 1.4462 (Duplex stainless steel)			1
7	Impeller	CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal [6]	-			1
12	Motor	-			1
24	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
25	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
26	O-ring [5]	FPM/EPDM	253.36x5.34	OR 6995	1
32	Key 65-250 80-200 80-250	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
			8x7x40		1
					1
34	Impeller nut 65-250 80-200 85-250	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
			M24x2		1
					1
42	Foot for motor	Aluminium		EPE DRAWING	[2]
42A	Foot for pump	Aluminium/zincate steel (only for 80-250/55)			[3]
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)				1
77	O-ring (plug)	FPM/EPDM			1
78	O-ring (plug) [5]				1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer	C70	13	UNI 1751	10
244	Pin [4]	EN 1.4301(AISI 304)	4x12		1

[1] Only for 65-250/376, 80-200/376, 80-250/456 and 80-250/556

[2] Quantity =2 for only 80-250/556

[3] Quantity =2 for 80-200/306, 80-200/376, 80-250/456

Quantity =1 for 80-250/556

[4] Not for H, HW, HSW, E version

[5] See **MECHANICAL SEAL**, "O-ring" column, see CONSTRUCTION 3

[6] See **MECHANICAL SEAL**, see CONSTRUCTION 3

[7] See **COUPLING**, see CONSTRUCTION 3

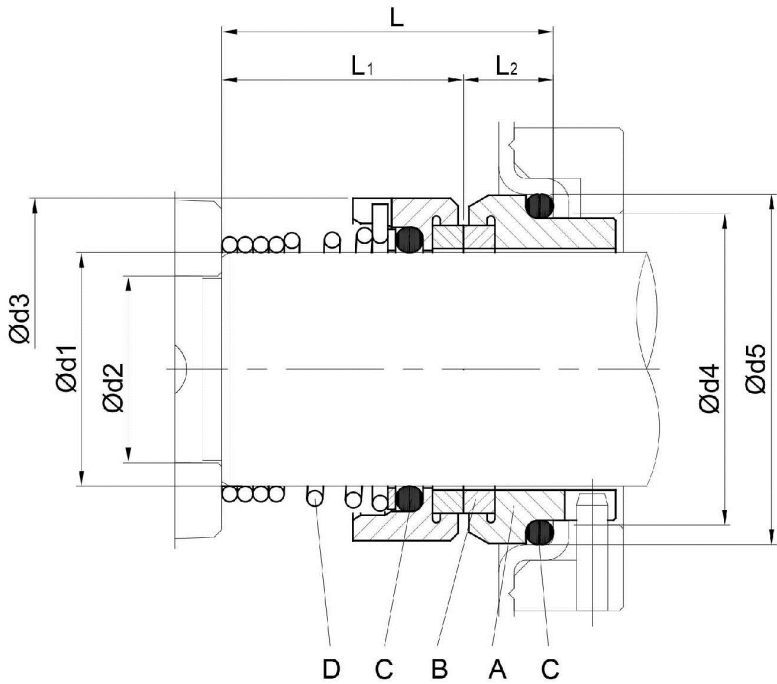
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Version	Pump type	Dimensions [mm]								Material Standard			
		d1	d2	d3	d4	d5	L	L1	L2	A Stationary seal ring	B Rotary seal ring	C O-ring	D Frame + spring
L	65-160/156 65-200 65-250 80-160/200	30	24	44	39	45	42.5	31	11	SiC	SiC	FPM	EN 1.4401 (AISI 316)