

# Technical Data

Pump Name

3LS4 65-250/5.5

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	3LS4 65-250/5.5	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 250
12	Speed rpm	1400		Designed mm 250
13	No. of Stage	1		Min. mm 250
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 84
16	Max Working Pressure kPa	1000		Min- m³/h 30
17	Shut-off head kPa	213.49	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 12.8
19	Shaft power kW			- (Qmin.) m 21.2
20			Max. Shaft Power at max. impeller	kW 4.70
21	Required pump NPSH m		Efficiency	%

## Materials

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

## Motor

28	Manufacturer	LAFERT	Insulation class	F
29	Type	TEFC_3LS465-250/5.5_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 2	Frame size	132 S
31	Rated power kW	5.5	Weight	kg
32	Number of poles	4	Electric voltage	V 400
33	Speed rpm	1400	Electric current	A 10.6
34	Degree of protection	IP 55		
35				

## Remarks

# Performance Curve

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## Requested data

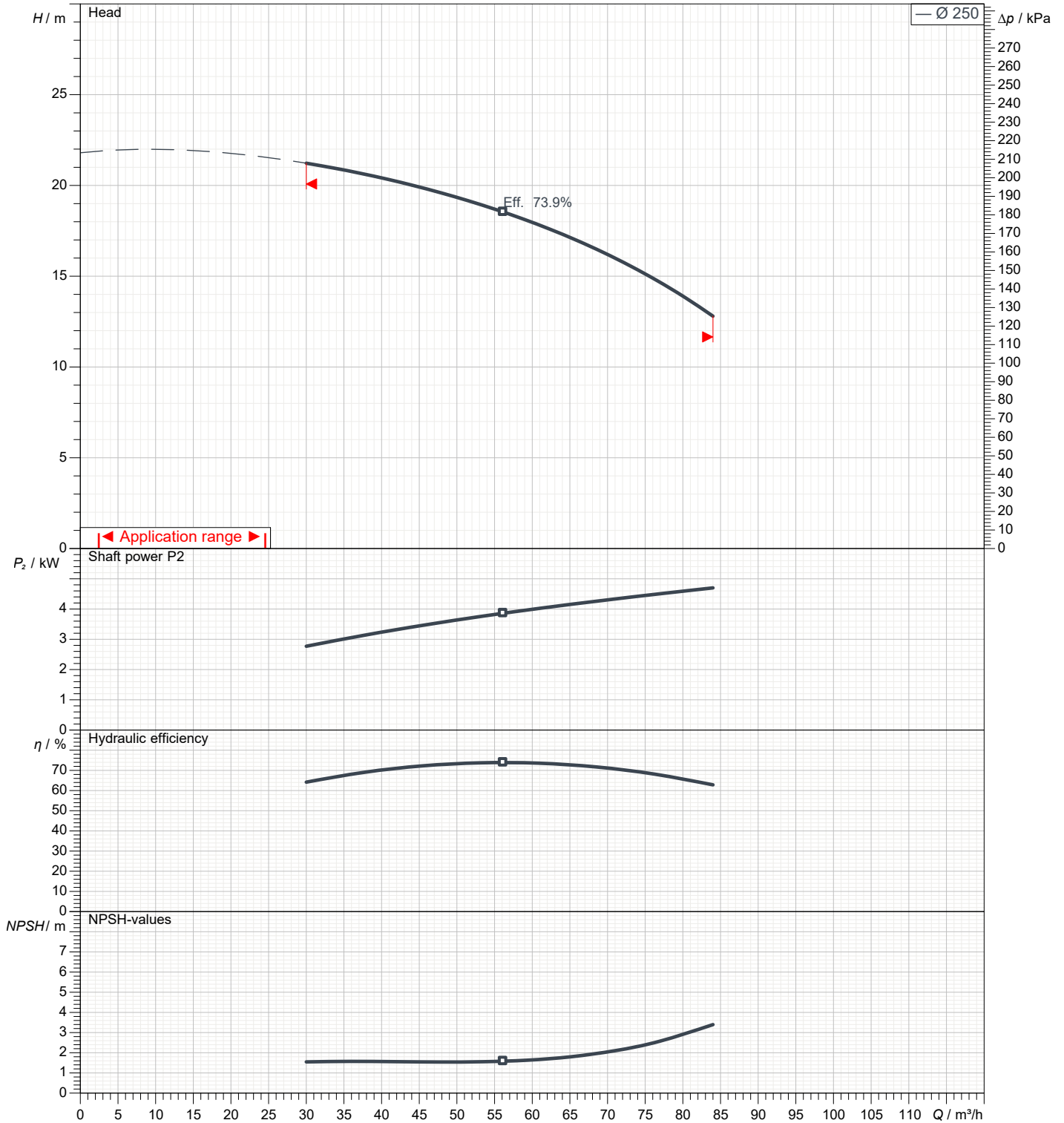
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

## Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	250	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

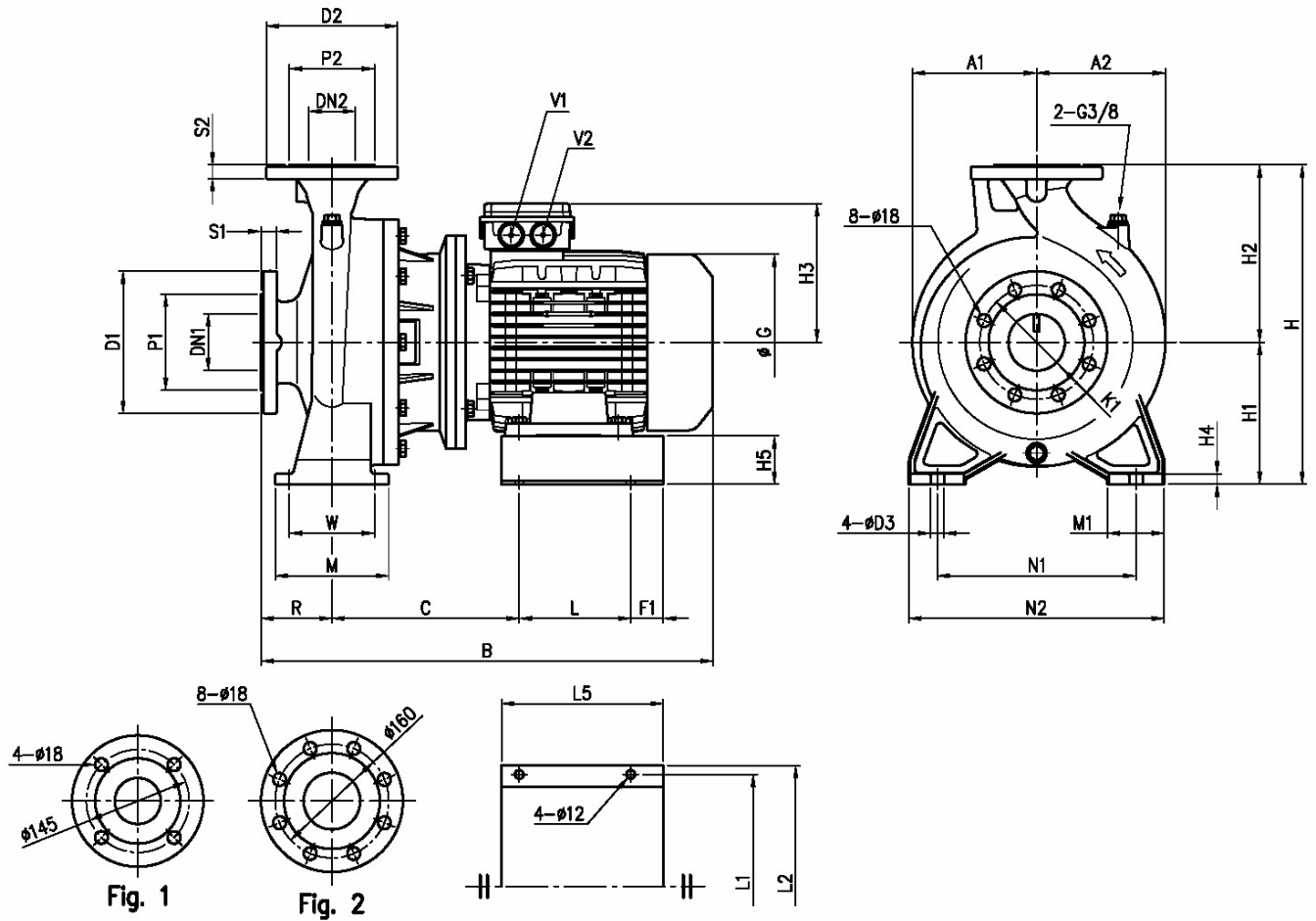
Water; 20°C; 998.3kg/m³; 1cSt



# Dimensions

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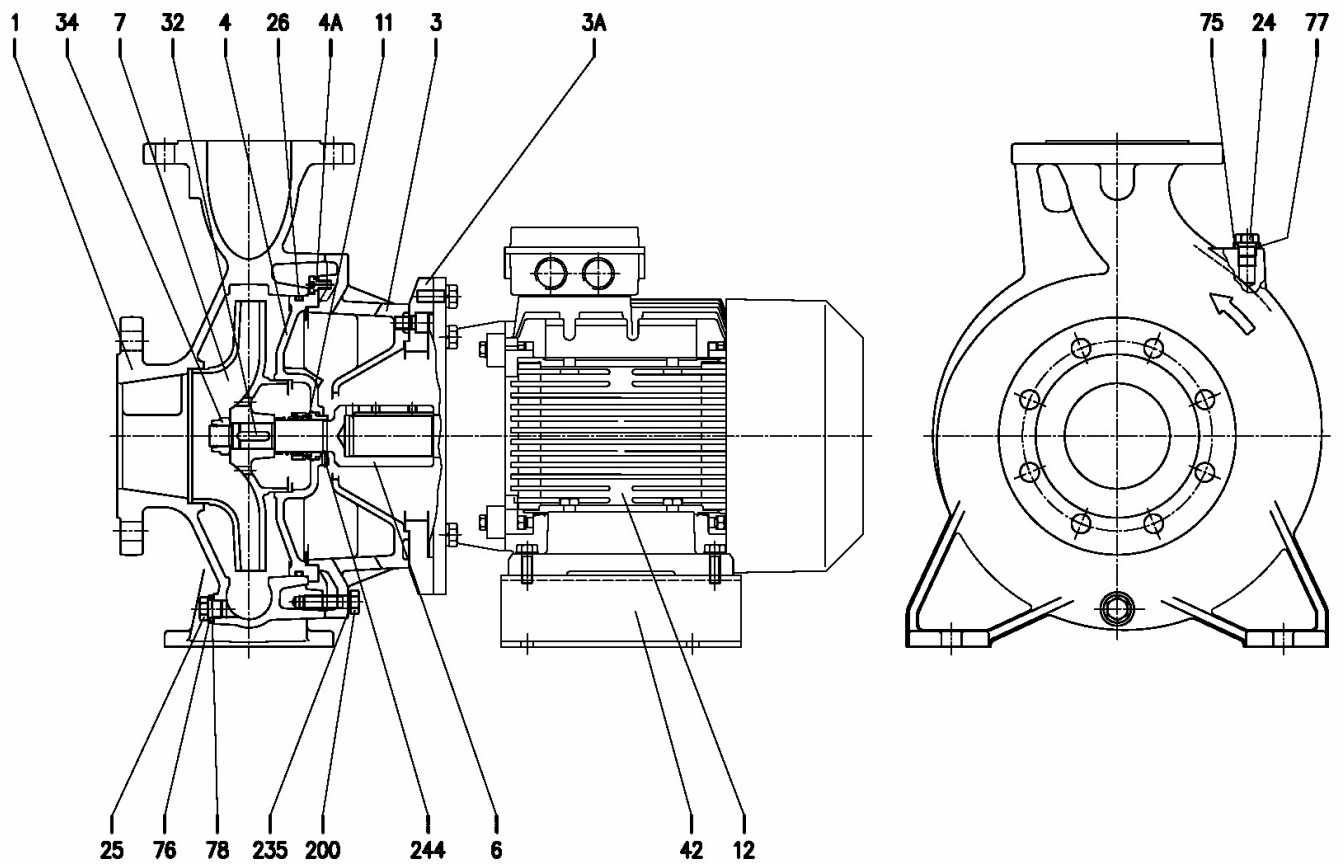
Dimensions in		mm						
1	A1	175	H2	250	V1	M32X1,5		
2	A2	182	H3	198	V2	M32X1,5		
3	B	637	H4	15	W	120		
4	C	264	H5	68	Weight P&M	118 kg		
5	D3	19	L	157				
6	Dia D1	200	L1	315				
7	Dia D2	185	L2	340				
8	Dia DN1	80	L5	228				
9	Dia DN2	65 Fig. 1	M	160				
10	Dia K1	160	M1	80				
11	Dia P1	135	N1	280				
12	Dia P2	120	N2	360				
13	G	248	R	100				
14	H	450	S1	22				
15	H1	200	S2	20				

(1/3)

# Construction

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(2/3)

# Construction

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	CF8M - EN 1.4408 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4401 (AISI 316)			1
004A	Screw for casing cover	EN 1.4301(AISI 304)			2
006	Coupling	EN 1.4401 (AISI 316)			1
007	Impeller	CF8M - EN 1.4408 (AISI 316)			1
011	Mechanical seal [3]	SiC/SiC/FPM			1
012	Motor	-			1
024	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
026	"O" ring	FPM EPDM (E version)	253.36x5.34	OR 6995	1
032	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
042	Foot for motor	Galvanized steel		EPE DRAWING	1
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				
077	O-ring (plug)	FPM [4]			1
078	O-ring (plug)				
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer	EN 1.4301(AISI 304)	13	UNI 8842	10
244	Pin [2]	EN 1.4301(AISI 304)	4x12		1

[1] Only for 65-250/5.5 kW

[2] Not for H, HW, HSW and E options

[3] Special version: see CONSTRUCTION 3

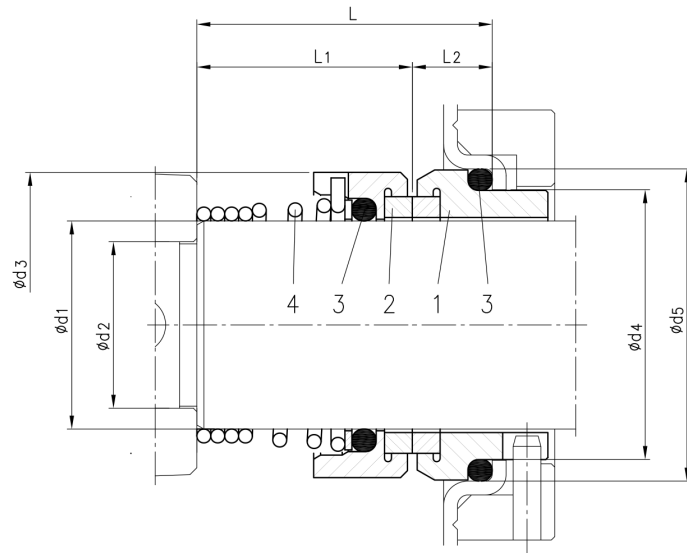
[4] EPDM (E version)

(3/3)

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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	
L ø30	65-250 80-200/250	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)	