Technical Data

Pump Name 3LPF 80-250/R

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		3LPF 80-250/R	Frequency		Hz	50
10	Design		CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm	230
12	Speed	rpm	2900		Designed	mm	230
13	No. of Stage		1		Min.	mm	230
14	Connection Suction side		DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side		DIN 2532		Max-	m³/h	204
16	Max Working Pressure	kPa	1000		Min-	m³/h	78
17	Shut-off head	kPa	714.36	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	38.1
19	Shaft power	kW			- (Qmin.)	m	71.3
20				Max. Shaft Power at max. impeller		kW	36.00
21	Required pump NPSH	m		Efficiency		%	

Materials

22	Impeller	AISI 316		
23	Casing	AISI 316		
24	Shaft	Duplex stainless steel		
25				
26				
27				

Motor

28	Manufacturer		without motor	Insulation class	
29	Type		without motor 3	Phases	
30	Specific design		without motor / 50 Hz / Pole pairs 1	Frame size	
31	Rated power	kW		Weight kg	
32	Number of poles		2	Electric voltage V	
33	Speed	rpm		Electric current A	
34	Degree of protection				
35					

Remarks

EBARA

Performance Curve

Pump Name 3LPF 80-250/R

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
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Requested data

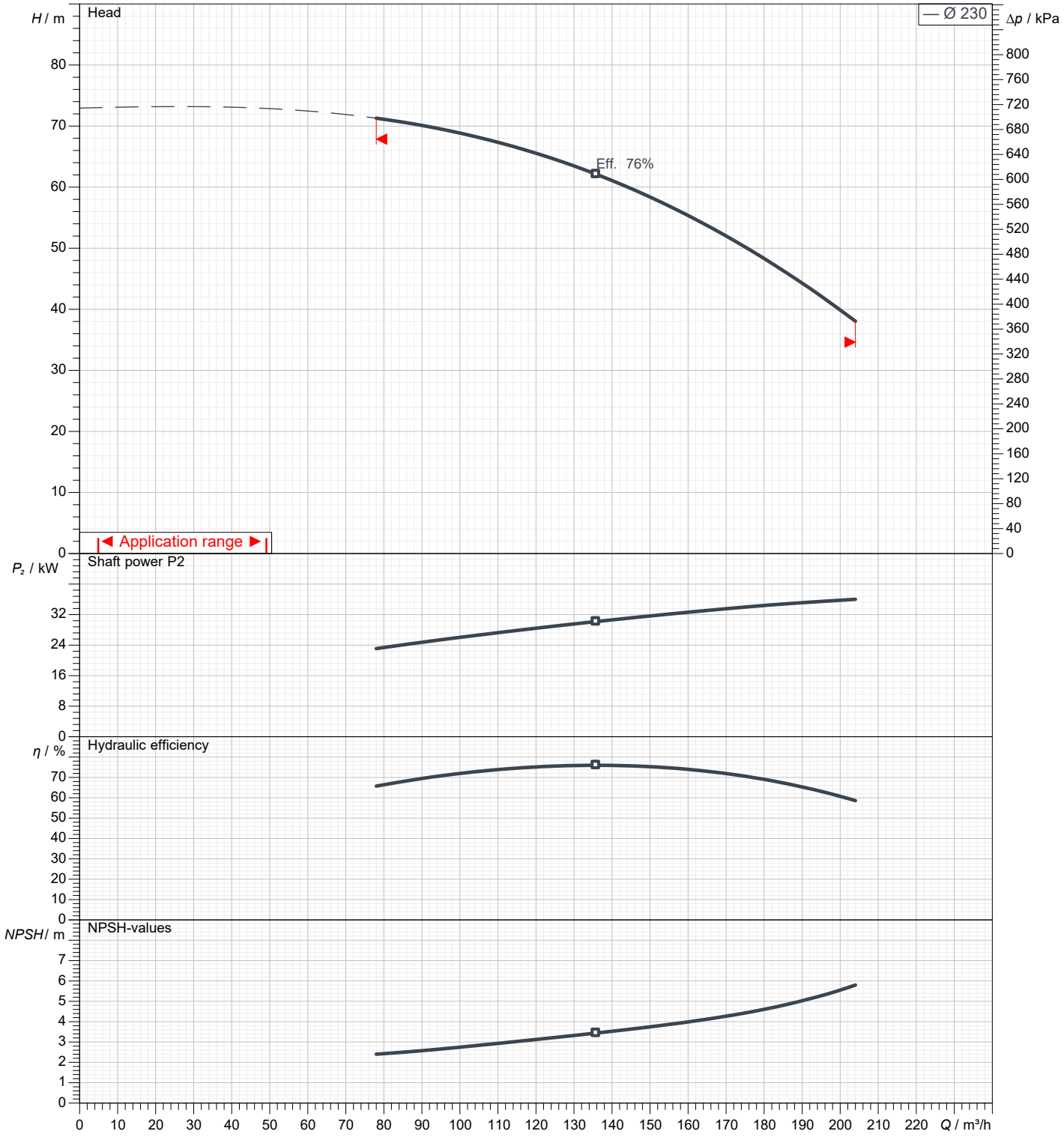
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	230	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

Pump Name 3LPF 80-250/R

Customer	Date 10.06.2024	Company
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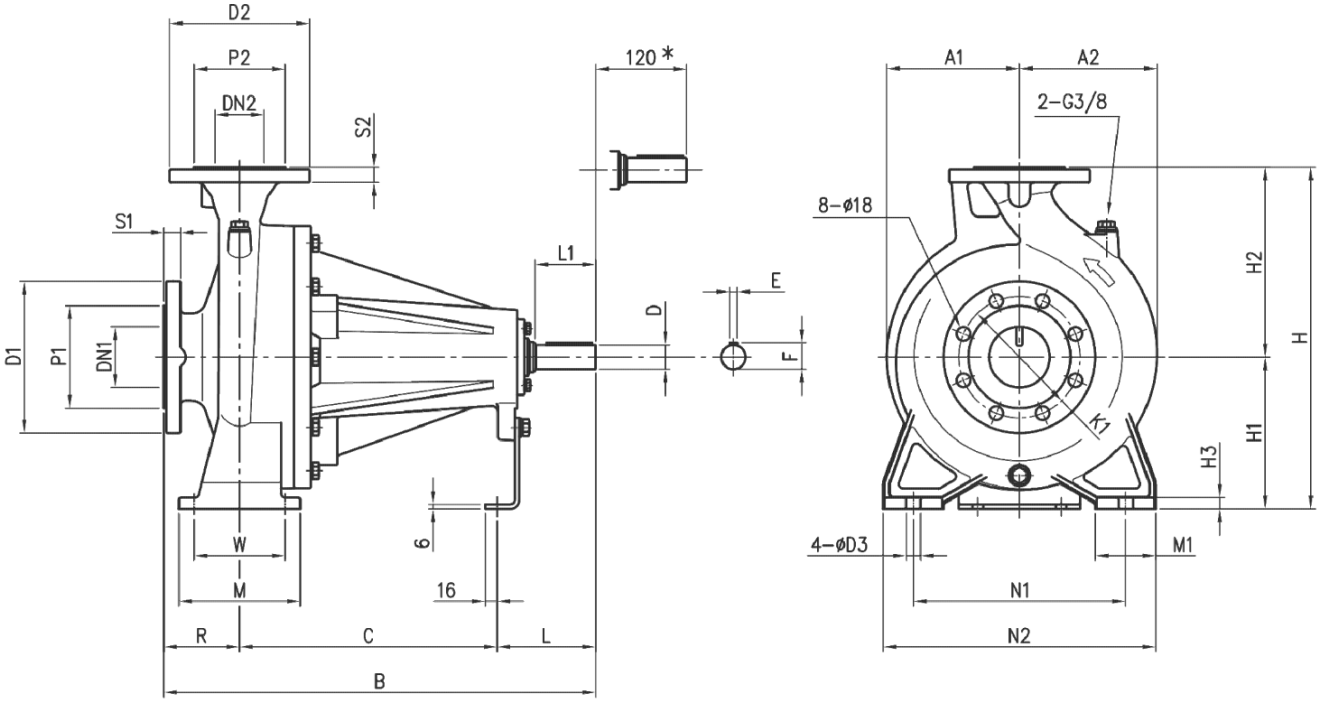

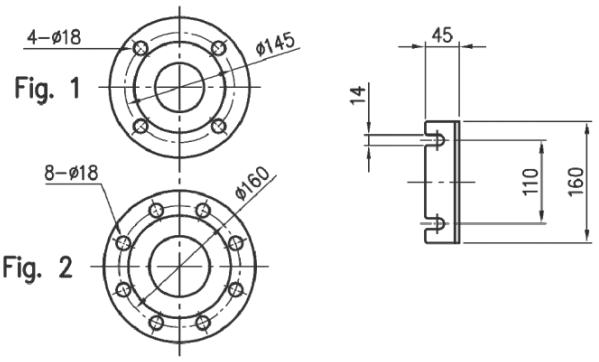

* Space for disassembly

Dimensions in	mm							
1	A1	175	Fig	2	Weight PUMP	88 kg		
2	A2	192	H	480				
3	B	595	H1	200				
4	C	340	H2	280				
5	D	32	H3	15				
6	D3	19	L	130				
7	Dia D1	225	L1	80				
8	Dia D2	200	M	160				
9	Dia DN1	100	M1	80				
10	Dia DN2	80	N1	315				
11	Dia K1	180	N2	400				
12	Dia P1	155	R	125				
13	Dia P2	135	S1	24				
14	E	10	S2	22				
15	F	35	W	120				

EBARA

(1/3)
Construction

Pump Name 3LPF 80-250/R

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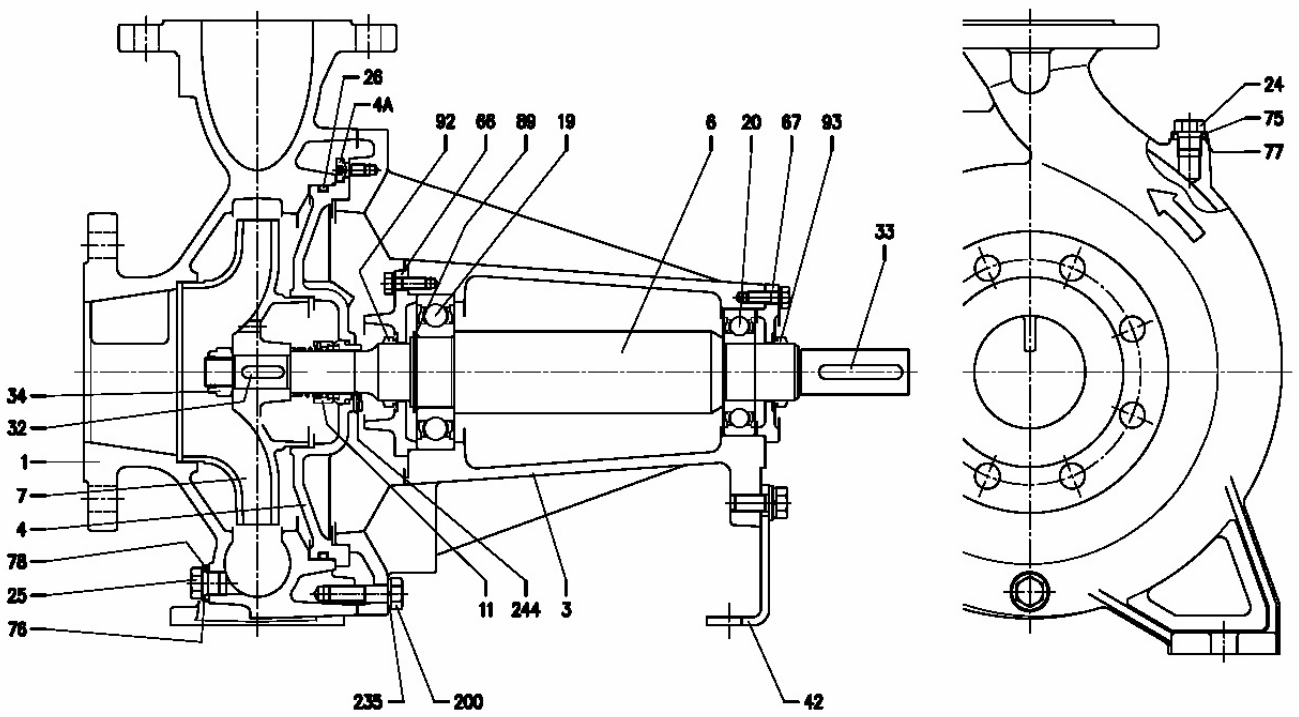

(2/3)
Construction

Pump Name 3LPF 80-250/R

Customer	Date 10.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

N°	PART NAME			MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing			EN 1.4401 (AISI 316)			1
3	Support			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	Shaft			EN 1.4462 (Duplex stainless steel) Part in contact with liquid			1
7	Impeller			EN 1.4401 (AISI 316)			1
11	Mechanical seal [2]			SiC/SiC/FPM			1
19	Bearing			-			1
20	Bearing			-			1
24	Plug			EN 1.4404 (AISI 316L)	G3/8		1
25	Plug			EN 1.4404 (AISI 316L)	G3/8		1
26	"O" ring			FPM [3]	253.36x5.34	OR 6995	1
32	Key	65-250	d=24 mm	EN 1.4401 (AISI 316)	8 x7x 30	UNI 6604	1
		80-200					1
		80-250	d=29 mm		8x7x40		1
33	Key			C 40	10x8x60	UNI 6604	1
34	impeller nut	65-250	d=24 mm	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
		80-200					1
		80-250	d=29 mm		M24x2		1
42	Pump support			Zincked steel			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
75	Washer (plug)			EN 1.4404 (AISI 316L)			1
76	Washer (plug)						1
77	O-ring (plug)			FPM EPDM (E version)			1
78	O-ring (plug)						1
89	Snap ring			Carbon tool steels TC 80	Ø 50	UNI 7435	1
92	"V" ring			-	VS-0040		1
93	"V" ring						1
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		[1]	EN 1.4301 (AISI 304)	4x12	UNI 6873	1

[1] Not for H and E option.
[2] Special version: see CONSTRUCTION 3
[3] FPM for H-HW-HSW version
EPDM for E version, 65-250 and 80-200: Q1Q1EGG, Q1U3EGG, U3CEGG, Q1AEGG
EPDM for ES only for 80-250 version

(3/3)
Construction

Pump Name 3LPF 80-250/R

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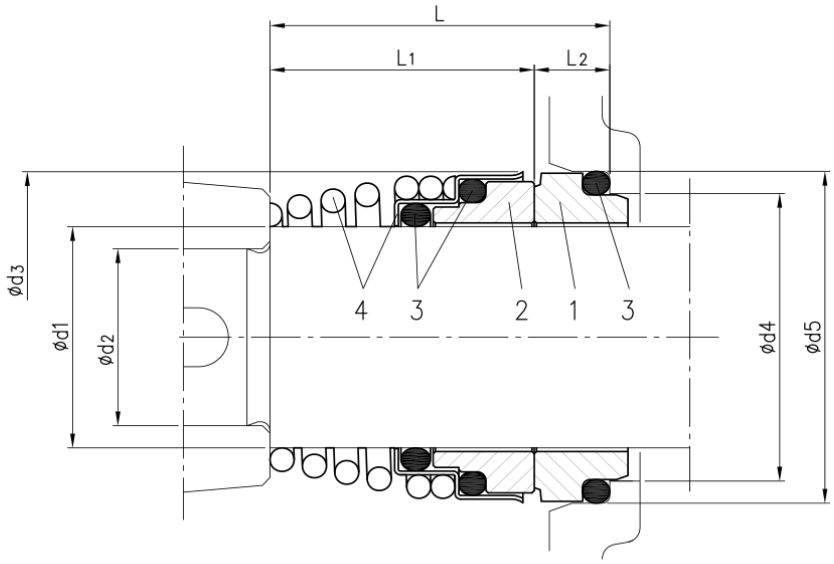

Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
L ø30	65-160/15 65-200/250 80-160/200	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)
L ø35	80-250	35	29	49	44	50	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)