Technical Data

Pump Name 3E 50-100/0.75

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		Inline vertical	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		3E 50-100/0.75	Frequency		Hz	50
10	Design		Inline vertical	Installation type			With motor
11	Manufacturer		EBARA	Impeller Diameter	Max.	mm	114
12	Speed	rpm	2900		Designed	mm	114
13	No. of Stage		1		Min.	mm	114
14	Connection Suction side		EN 10k	Flow	Operating	m³/h	
15	Connection Discharge side		EN 10k		Max-	m³/h	15.6
16	Max Working Pressure	kPa	1000		Min-	m³/h	6
17	Shut-off head	kPa	143.96	Head	Operating	m	
18	Total weight	kg	See the table of "Dimensions".		- (Qmax.)	m	11.8
19	Shaft power	kW			- (Qmin.)	m	14.8
20				Max. Shaft Power at max. impeller		kW	0.75
21	Required pump NPSH	m		Efficiency		%	

Materials

22	Impeller	AISI 304		
23	Casing	Cast iron		
24	Shaft	AISI 304(wet extension)		
25				
26				
27				

Motor

28	Manufacturer		EPE Standard	Insulation class		F
29	Type		TEFC_3E_2_0.75_230_1	Phases		3~
30	Specific design		TEFC / 50 Hz / Pole pairs 1	Frame size		
31	Rated power	kW	0.75	Weight	kg	
32	Number of poles		2	Electric voltage	V	230
33	Speed	rpm	2900	Electric current	A	3.3
34	Degree of protection		IP55			
35						

Remarks

EBARA

Performance Curve

Pump Name 3E 50-100/0.75

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Requested data

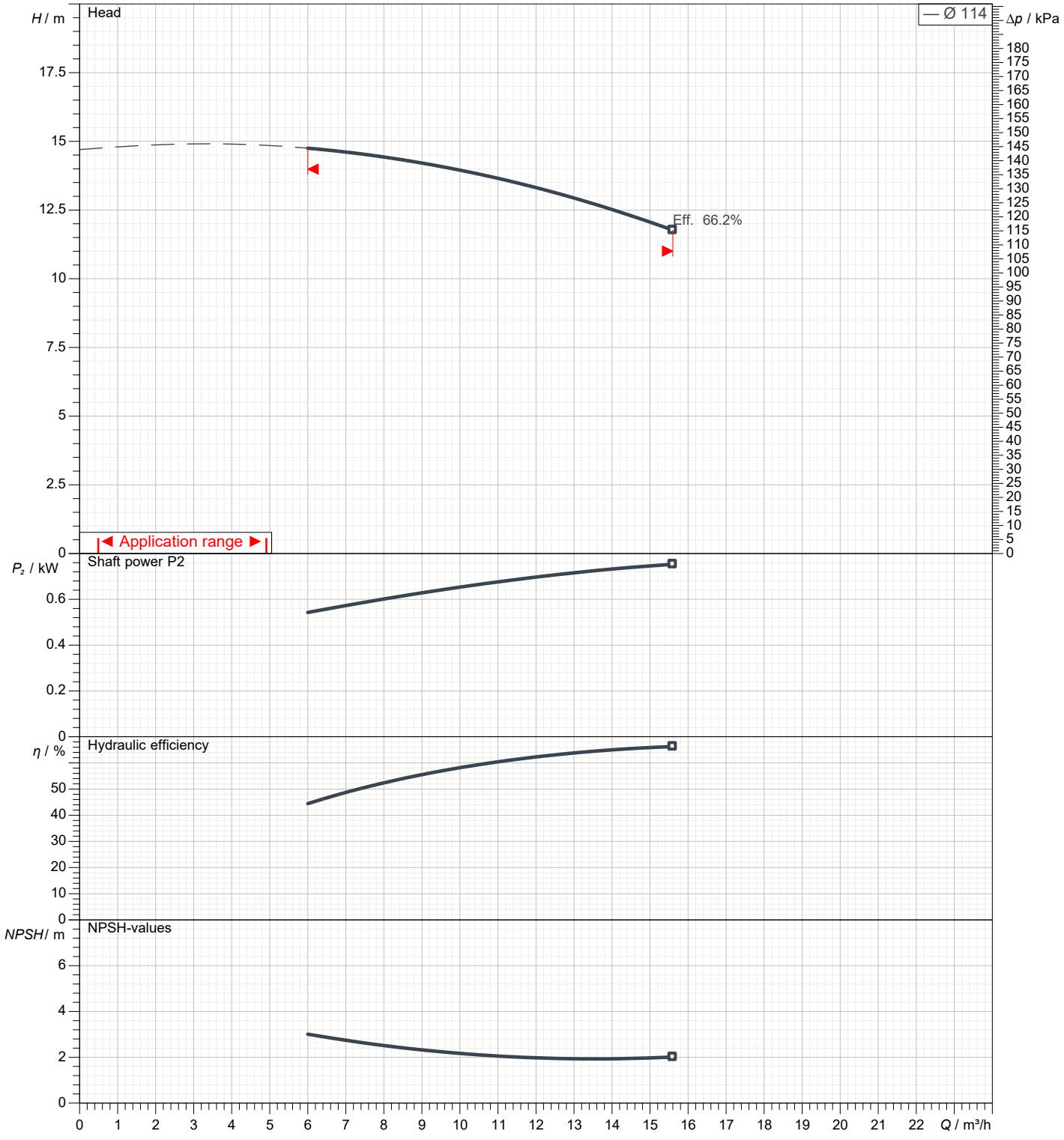
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	114	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

Pump Name 3E 50-100/0.75

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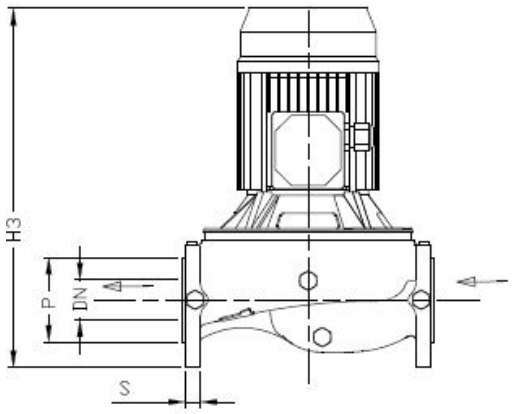

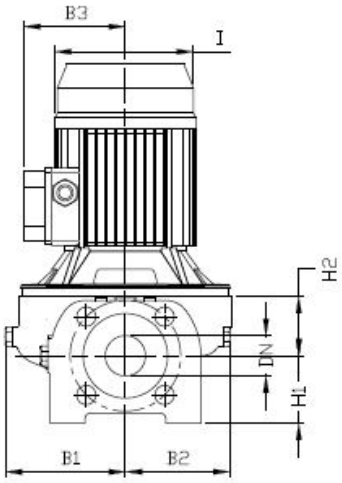

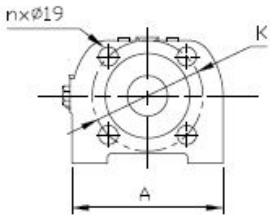

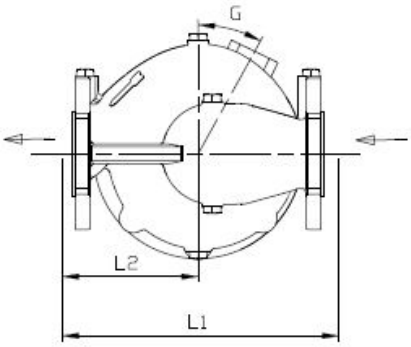

Dimensions in	mm						
1	A	165	Φ K	125			
2	B1	125	Φ P	99			
3	B2	108					
4	B3	101					
5	G	0					
6	H1	75					
7	H2	47					
8	H3	352					
9	I	140					
10	L1	280					
11	L2	140					
12	n	4(Num)					
13	S	20					
14	Weight P&M	22.1 kg					
15	Φ DN	50					

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Construction

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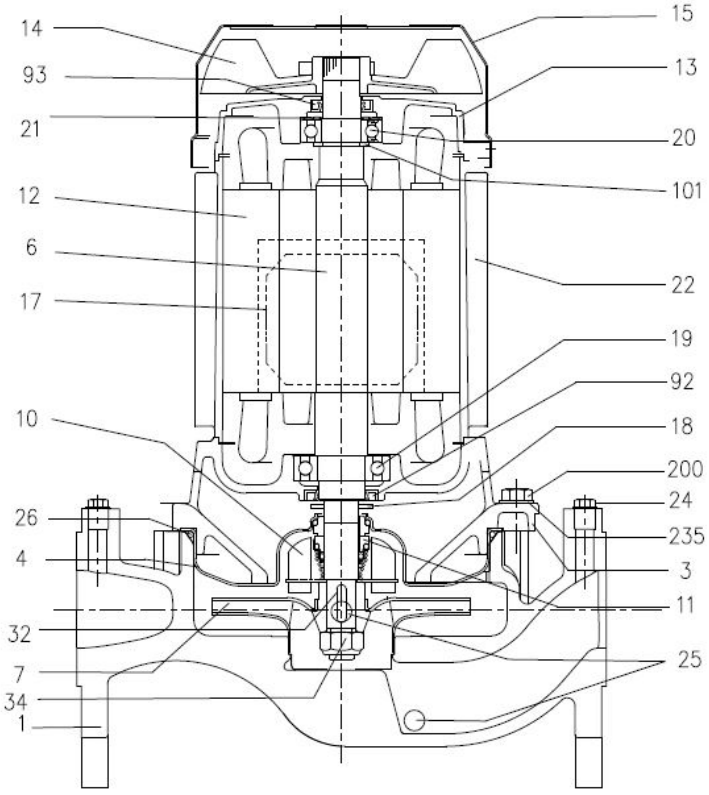

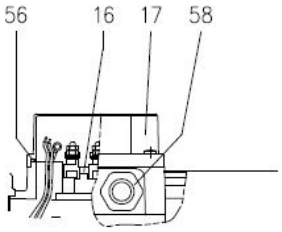

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Construction

Pump Name 3E 50-100/0.75

Customer	Date 09.06.2024	Company
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No	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing		Cast iron EN-GJL-250-EN 1561			1
3	Motor bracket [1]		-			1
4	Casing cover		EN 1.4301(AISI 304)			1
6	Shaft with rotor - Wet extension		EN 1.4301(AISI 304)			1
7	Impeller		EN 1.4301(AISI 304)			1
10	Baffle [2]		EN 1.4301(AISI 304)			1
11	Mechanical seal [3]					1
12	Motor frame with stator		-			1
13	Motor cover		Aluminium			1
14	Fan		PA			1
15	Fan cover		Fe P04 Galvanized			1
16	Terminal		-			1
17	Terminal box cover		Aluminium (three phase version)			1
18	Splash ring	0.37 kW to 0.75 kW		25x14.5x2.5	EBARA DRAWING	1
		Up to11kW		40x21.5x2		
		15 kW and above		50x29.5x3		
19	Bearing		•			1
20	Bearing		•			1
21	Adjusting ring		Steel C70			1
22	Tie rod	Up to 3 kW	Fe 42 Galvanized	M5	EBARA DRAWING	4
		For 4 to 7.5 kW		M6		
		9.2 kW to 11kW		M8		
	Screw	15 kW and above	Gv. Steel 8.8 strength class ISO 898-1	M10x40	UNI 5739	
24	Plug		Brass	G 1/4		2
25	Drain plug		Brass	G 1/4		4
26	O-ring	32-125,50-100,50-125,65-100,80-100,40-160/1.1	EPDM[4]	158.11x5.34	OR 6625	1
		40-160, 50-160,		183.52x5.34	OR 6720	
32	Key	32-125,50-100,65-100/0.55,65-100/0.75	EN 1.4401(AISI 316)	A 4x4x14	UNI 6604	1
		40-160,50-125,50-160,65-100/1.1,65-100/1.5,80-100		A 6x6x18		
34	Impeller nut	32-125,50-100,65-100/0.55,65-100/0.75	EN 1.4301(AISI 304)	M10x1.25	UNI 7474	1
		40-160,50-125,50-160,65-100/1.1,65-100/1.5,80-100		M16x1.5		
56	Box gasket		NBR			1
58	Cable gland		-			1
92	Lip seal	32-125,50-100,65-100		15x30x5	DIN 3760 without spring	1
		Up to 3kW		25x40x7		
		From 4 to 7.5 kW		30x47X7		
93	Lip seal	32-125,50-100,65-100/0.55, 65-100/0.75		15x30x5	DIN 3760 without spring	1
		40-160,50-125,80-100		17x32x6		
		Up to 4 kW		25x40x7		
200	Screw	32-125,50-100,65-100/0.55, 65-100/0.75	Gv. Steel 8.8 strength class ISO 898-1	M6x25	UNI 5739	8
		65-100/1.1,65-100/1.5		M 6x30		
		50-125,80-100		M 8x30		
		40-160,50-160		M10x35		10
235	Washer	32-125,50-100,65-100	Galvanized Steel		UNI 6592	8
		50-125,80-100		8.4x17		8
		40-160,50-160		10.5x21		10

[1] Cast iron EN-GJL-200-EN 1561 for models with 15,18.5, 22 kW motor
Aluminum AL-EN-1706-AC-46000-D for all the others;

[2] EN1.4301(AISI 304) for 32-125,40-160,50-100/125/160
CF8 for 65-100,80-100

[3] See MECHANICAL SEAL pages

[4] FPM for Q1AVGG
EPDM for Q1AEGG,Q4Q1EGG

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Construction

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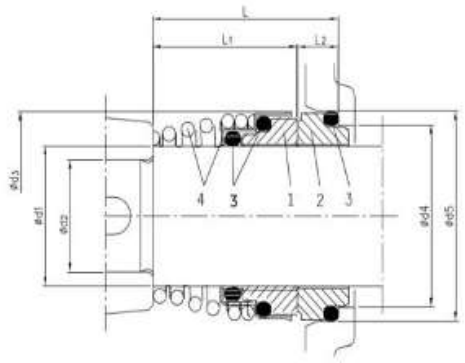

Version	Pump type	Dimensions [mm]								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Rotary seal ring	2 Stationary seal ring	3 Rubber	4 Frame + Spring
Standard (Q1AEGG)	32-125/160/200 50-100 65-100/0.55-0.75	15	12	26	21	26.9	29	22	7	Silicon Carbide	Metarialised Carbon	EPDM	EN 1.4401 (AISI 316)
	40-160/200 50-125/160/200 65-100/1.1-1.5 65-125/160/200 80-100 80-160/9.2-11	22	19	36	31	37	37.5	27.5	10				
	80-160/15 80-200 100-160	30	24	46	39	45	42.5	32.5	10				