Technical Data

Pump Name 3D 65-125/5.56

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	3D 65-125/5.56	Frequency		Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	121
12	Speed rpm	3480		Designed	mm	121
13	No. of Stage	1		Min.	mm	121
14	Connection Suction side	UNI 2236-67	Flow	Operating	m³/h	
15	Connection Discharge side	EN 1092-2		Max-	m³/h	120
16	Max Working Pressure bar	10		Min-	m³/h	36
17	Shut-off head bar	2.50	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	9.5
19	Shaft power kW			- (Qmin.)	m	25.5
20			Max. Shaft Power at max. impeller		kW	5.59
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 316		
23	Casing	Cast iron		
24	Shaft	AISI 304 (wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_3D 65-125/5.56_380_Three Phase	Phases		3~
30	Specific design	IE3 / 60 Hz / Pole pairs 1	Frame size		
31	Rated power kW	5.5	Weight	kg	
32	Number of poles	2	Electric voltage	V	380
33	Speed rpm	3500	Electric current	A	10.1
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance Curve

Pump Name 3D 65-125/5.56

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Requested data

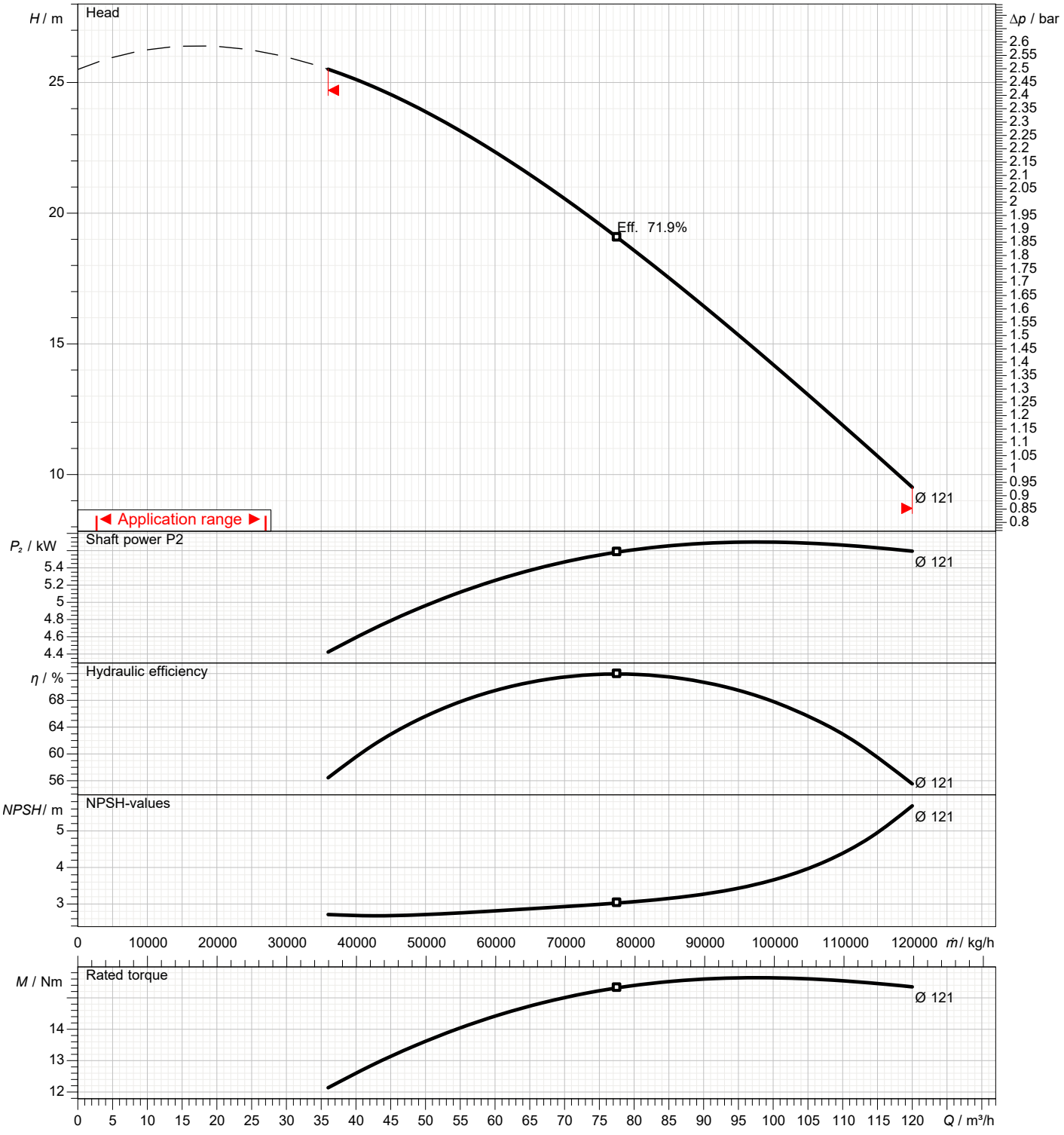
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	121	Speed	rpm	3480

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s



EBARA

Dimensions

Pump Name 3D 65-125/5.56

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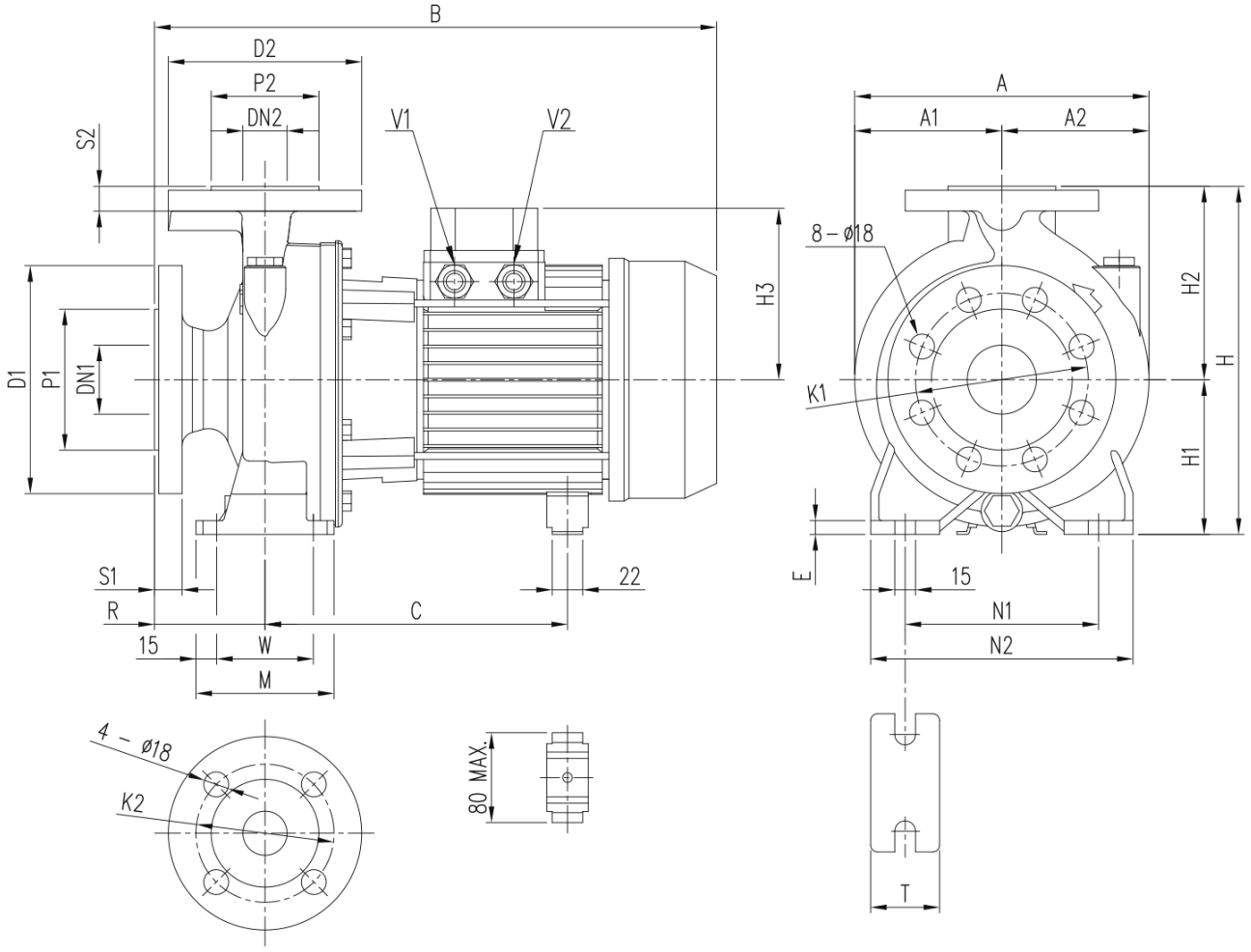

Dimensions in	mm							
1	A	254	H1	160				
2	A1	127	H2	180				
3	A2	136	H3	150				
4	B	539	M	125				
5	C	275	N1	212				
6	Dia D1	200	N2	280				
7	Dia D2	185	R	100				
8	Dia DN1	80	S1	22				
9	Dia DN2	65	S2	20				
10	Dia K1	160	T	65				
11	Dia K2	145	V1	[PG 13].5				
12	Dia P1	138	V2	M25x1.5				
13	Dia P2	122	W	95				
14	E	12	Weight P&M	67,3 kg				
15	H	340						

EBARA

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Construction

Pump Name 3D 65-125/5.56

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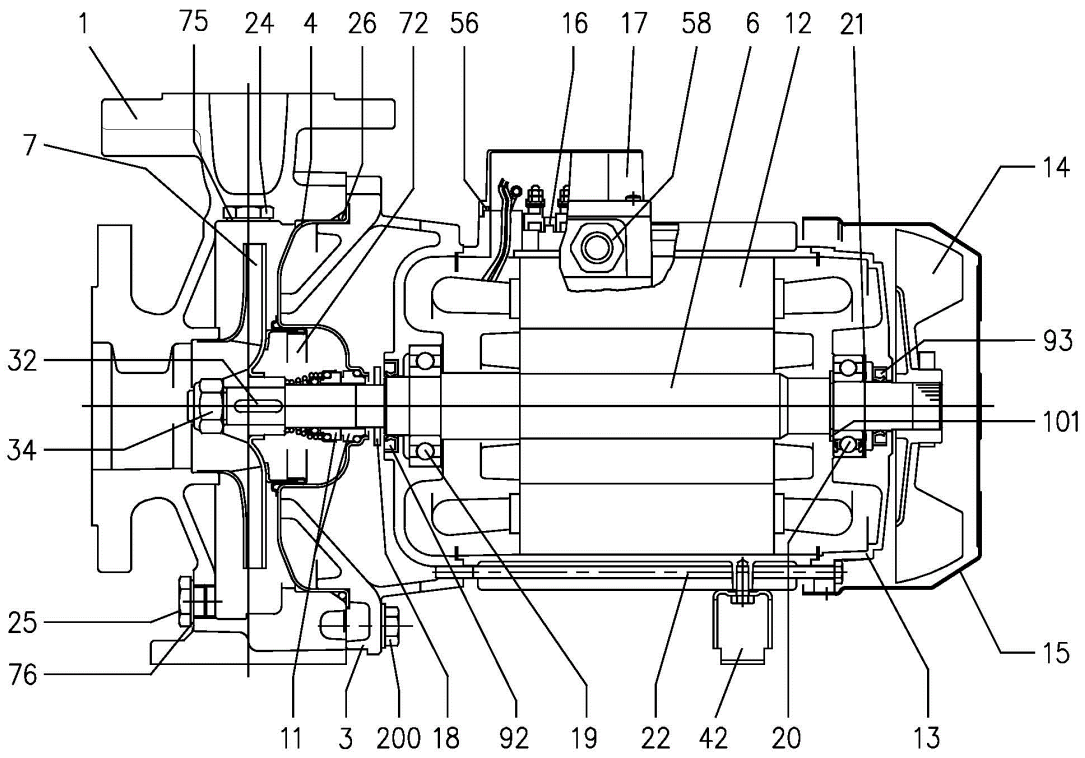

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Construction

Pump Name 3D 65-125/5.56

Customer	Date	2024-06-20	Company
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N°	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	[2]	-			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	Up to 11 kW	NBR	40x21.5x2	EBARA DRAWING	1
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 - 5.5 - 7.5 kW		M6		
		9.2 e 11kW		M8		
24	Priming plug		Brass	G 3/8" L=8		1
25	Draing plug		Brass	G 3/8" L=8		1
26	O-ring	32-125, 40-125	NBR/FPM/EPDM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125 [4]		183.52x5.34	OR 6720	
		32-200, 40-200/9.26, 50-160/9.26, 65-160/9,26		227.96x5.34	OR 6895	
32	Key	Up to 11 kW	EN 1.4401 (AISI 316)	A 6x6x25	UNI 6604	1
34	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474	1
42	Foot		Aluminium / Galvanized steel		EBARA DRAWING	1
56	Box gasket		NBR			1
58	Cable gland		-			1
72	Casing ring	[5]	EN 1.4301 (AISI 304)			1
75	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
76	Washer		Aluminum			1
92	Lip seal	Up to 3kW	-	25x40x7	DIN 3760 without spring	1
		From 4 to 7.5 kW		30x47X7		
		From 9.2 kW to 11 kW		40x55x7		
93	Lip seal	Up to 4 kW	-	25x40x7	DIN 3760 without spring	1
		From 5.5 kW to 7.5 kW		30x47X7		
		From 9.2 kW to 11 kW		40x55x7		
101	Snap ring	[6]	Carbon tool steels TC 80	Ø 40	UNI 7435	1
200	Screw	32-125, 40-125	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30	UNI 5739	8
		32-160, 40-160, 50-125, 65-125		M 10x35		10
		32-200, 40-200/9.26, 50-160/9.26, 65-160/9,26				12
235	Washer	32-125, 40-125	Galvanized Steel	8.4x17	UNI 6592	8
		32-160, 40-160, 50-125, 65-125		10.5x21		10
		32-200, 40-200/9.26, 50-160/9.26, 65-160/9,26				12

[1] Cast iron EN-GJL-200-EN 1561 for 3D 40-125/4.6, 40-160/7.56, 65-125/5.56; 65-125/7.56
Aluminum AL-EN-1706-AC-46000-D for all the others

[2] EN 1.4301 (AISI 304) for 32, 40, 50 series
EN 1.4401 (AISI 316) for 65 series

[3] See **CONSTRUCTION 3**

[4] See **CONSTRUCTION 3**, "O-ring" column

[5] Only for: 32-200, 40-200, 50-160

[6] Only for pumps with 9.2 and 11 kW motor

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Construction

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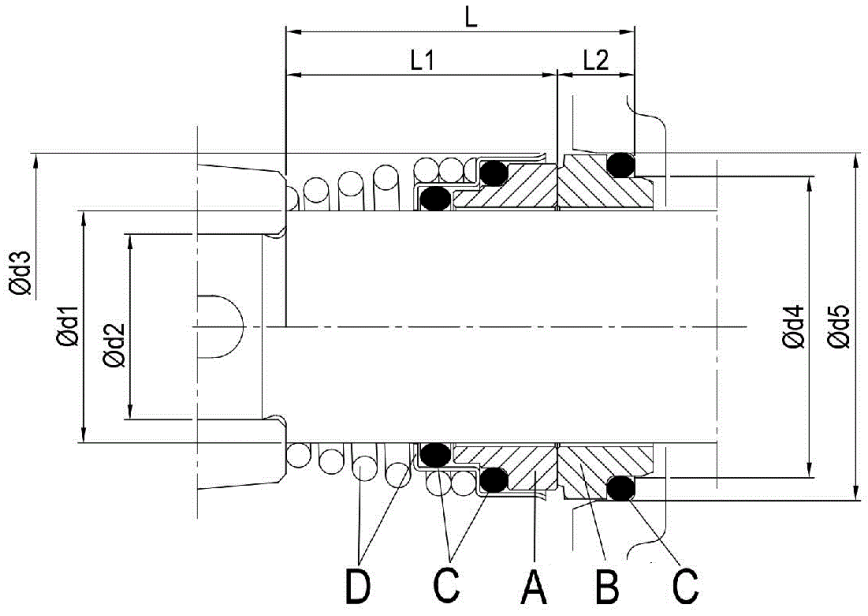

Pump type	Dimensions [mm]								Material Standard			
	d1	d2	d3	d4	d5	L	L1	L2	A Rotary seal ring	B Stationary seal ring	C O-ring	D Frame + Spring
32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/9.26-116	22	19	38	31	37	37.5	27.5	10	Ceramic	Carbon	NBR	EN 1.4301 (AISI 304)