

Technical Data

Pump Name

3D4 40-200/1.1

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	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	3D4 40-200/1.1	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 200
12	Speed rpm	1400		Designed mm 200
13	No. of Stage	1		Min. mm 200
14	Connection Suction side	EN 1092-2	Flow	Operating m³/h
15	Connection Discharge side	EN 1092-2		Max- m³/h 21
16	Max Working Pressure kPa	1000		Min- m³/h 6
17	Shut-off head kPa	133.19	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 9.6
19	Shaft power kW			- (Qmin.) m 13.2
20			Max. Shaft Power at max. impeller	kW 0.80
21	Required pump NPSH m		Efficiency	%

Materials

22	Casing	Cast iron	
23	Impeller	AISI 304	
24	Shaft	AISI 304	
25			
26			
27			

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_3D440-200/1.1_230_Three Phase	Phases	3~
30	Specific design	IE2 / 50 Hz / Pole pairs 2	Frame size	
31	Rated power kW	1.1	Weight	kg
32	Number of poles	4	Electric voltage	V 230
33	Speed rpm	1400	Electric current	A 4.6
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

Pump Name

3D4 40-200/1.1

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

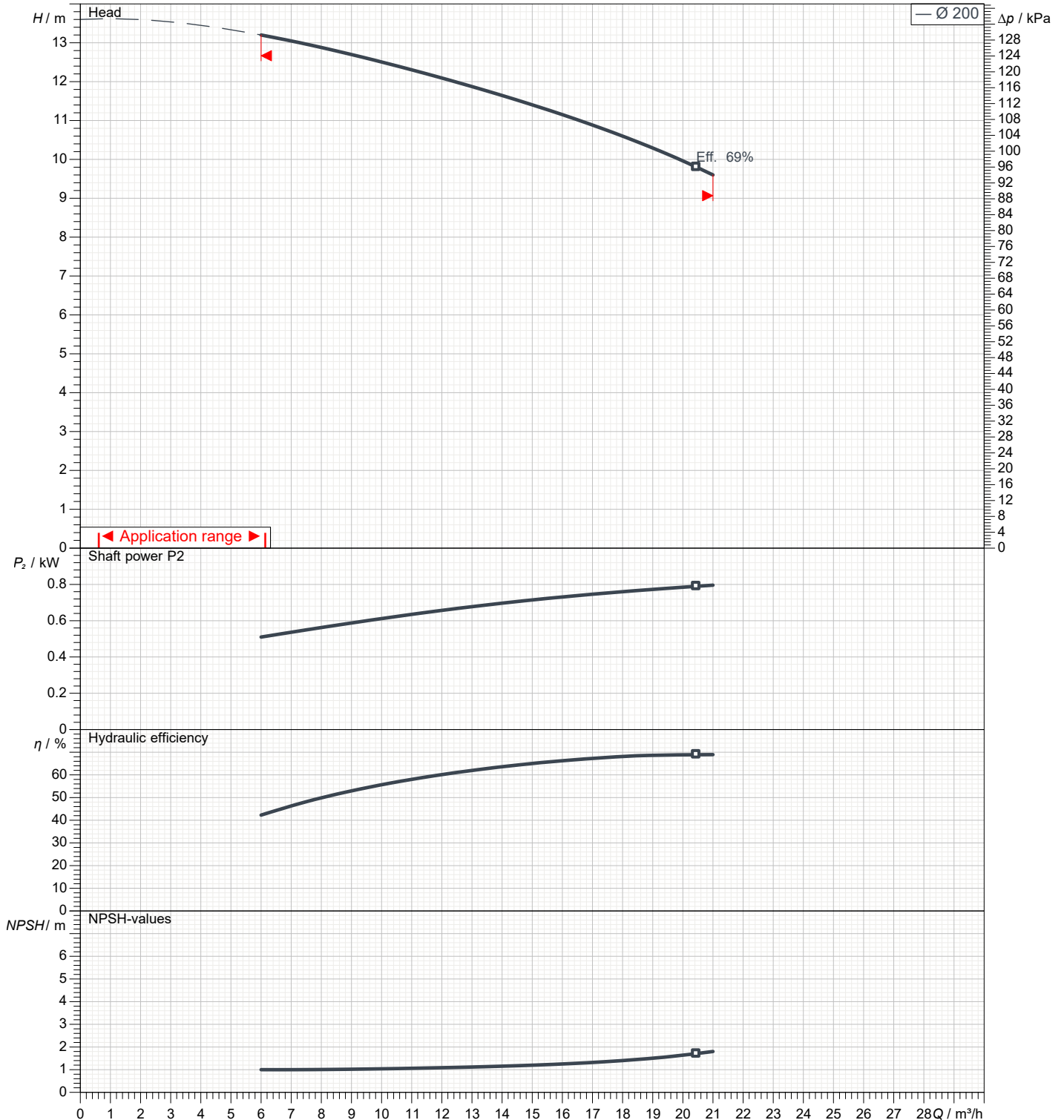
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h	Frequency	Hz	50	
Operating head	m	Number of poles		4	
Impeller diameter designed	mm	200	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

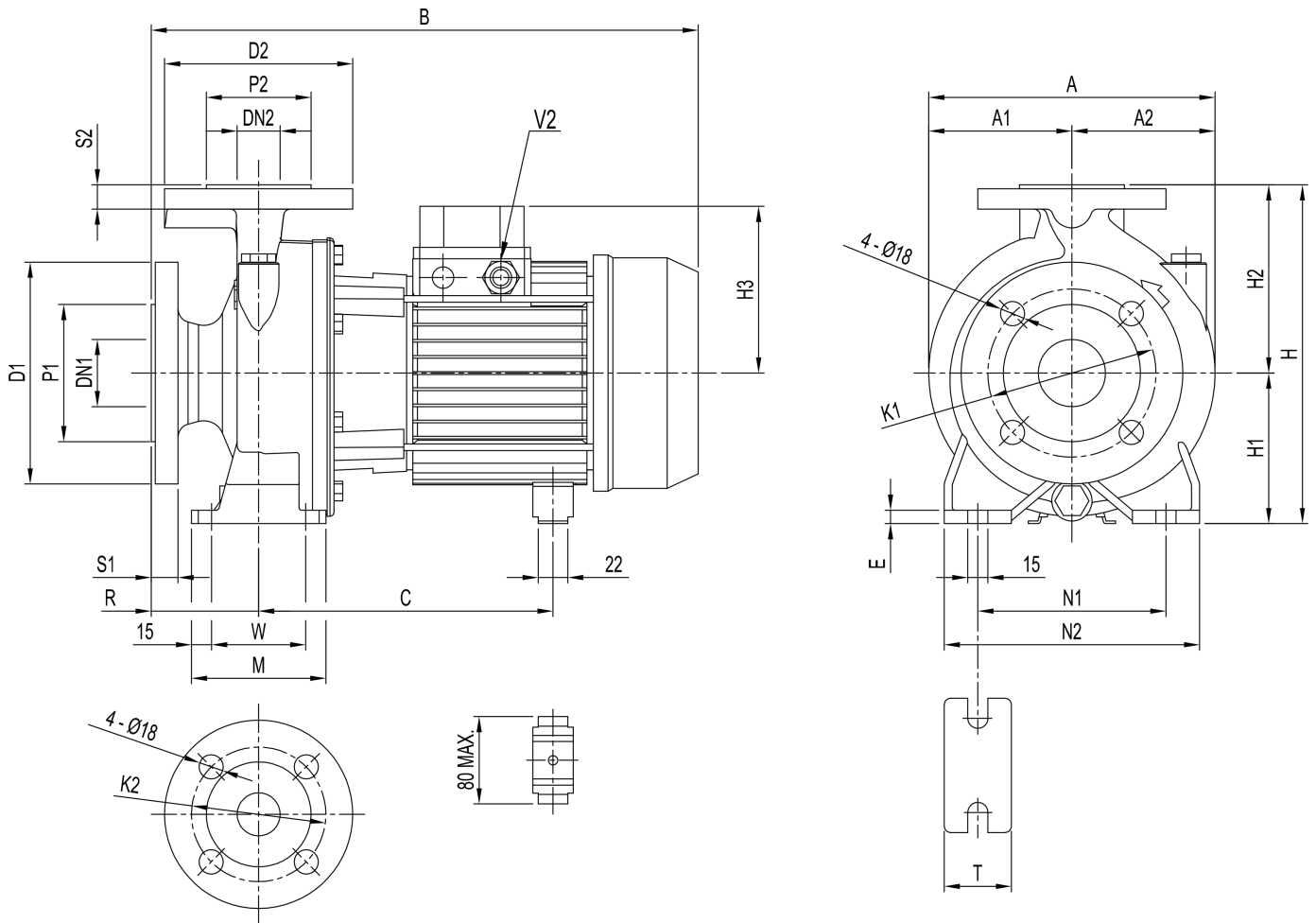
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

Pump Name 3D4 40-200/1.1

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

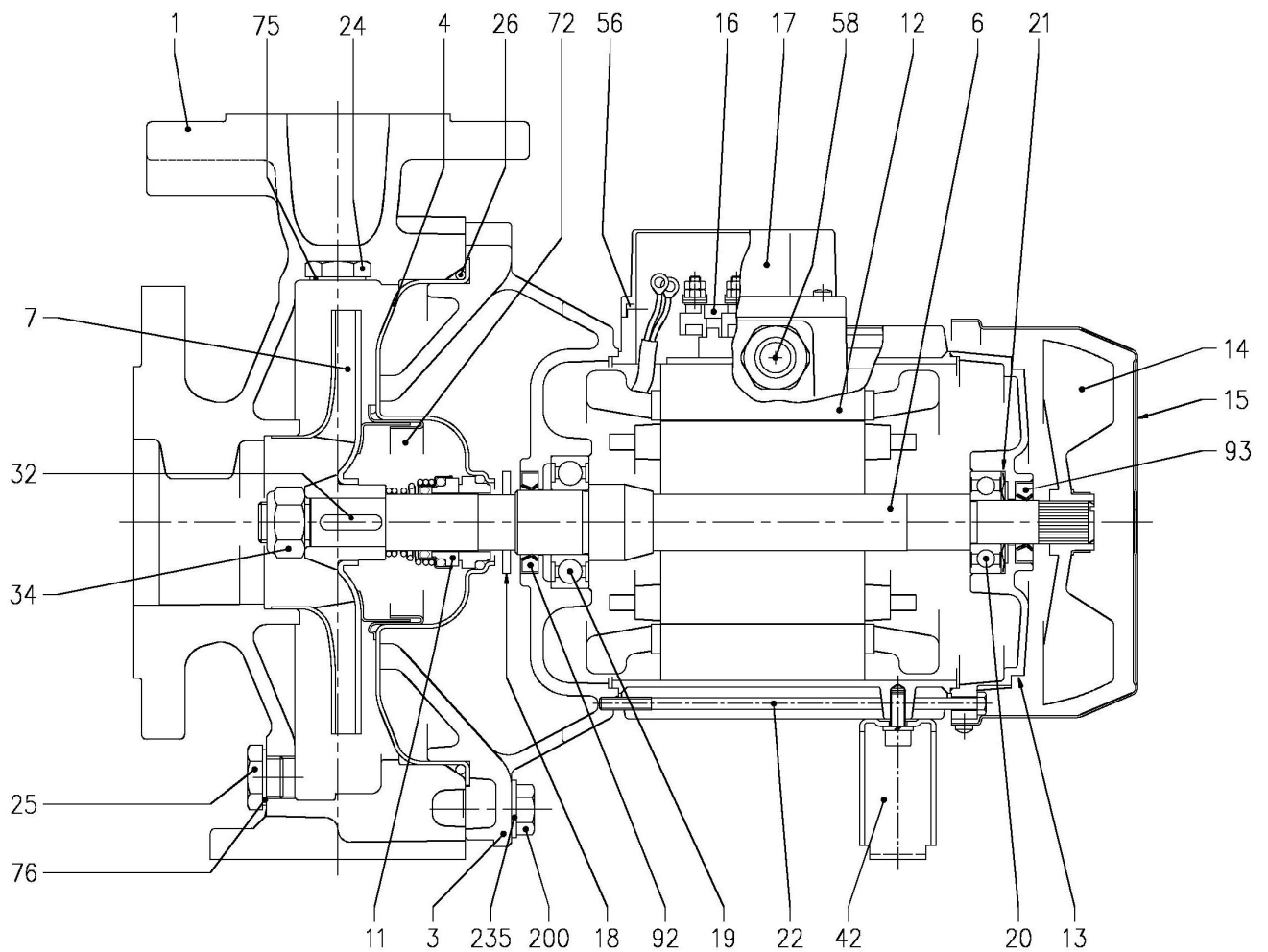


Dimensions in		mm						
1	A	296	M	100				
2	A1	148	N1	212				
3	A2	148	N2	265				
4	Dia D1	185	R	100				
5	Dia D2	150	S1	20				
6	Dia DN1	65	S2	18				
7	Dia DN2	40	T	50				
8	Dia K1	145	W	70				
9	Dia K2	110	Weight P&M	41.3 kg				
10	Dia P1	122						
11	Dia P2	88						
12	E	12						
13	H	340						
14	H1	160						
15	H2	180						

(1/3) Construction

Pump Name 3D4 40-200/1.1

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



(2/3)

Construction

Pump Name 3D4 40-200/1.1

Customer	Date	09.06.2024	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID		E-mail

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing		Cast iron EN-GJL-250-EN 1561			1
003	Motor bracket		[1]			1
004	Casing cover		EN 1.4301 (AISI 304)			1
006	Shaft with rotor - Wet extension		EN 1.4301 (AISI 304)			1
007	Impeller		[2]			1
011	Mechanical seal		[3]	[3]		1
012	Motor frame with stator		-			1
013	Motor cover		Aluminium			1
014	Fan		PA			1
015	Fan cover		Fe P04 Galvanized			1
016	Terminal		-			1
017	Terminal box cover		Aluminium (three phase version)			1
018	Splash ring		NBR	40x21.5x2	EBARA DRAWING	1
019	Bearing		-			1
020	Bearing		-			1
021	Adjusting ring		Steel C70			1
022	Tie rod		Fe 42 Galvanized	M5	EBARA DRAWING	4
24	Priming plug		Brass	G 3/8" L=8		1
25	Draing plug		Brass	G 3/8" L=8		1
026	"O" ring	32-125, 40-125	NBR [4]	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125		183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200		227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)	A 6x6x25	UNI 6604	1
034	Impeller nut	Other models 50-200/2.2	EN 1.4301 (AISI 304)	M16x1.5 M18x1.5	UNI 7474	1
042	Foot		Aluminium / Galvanized steel		EBARA DRAWING	1
056	Box gasket		NBR			1
058	Cable gland		-			1
072	Casing ring [5]		EN 1.4301 (AISI 304)			1
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer		Aluminum			1
092	Lip seal	Up to 1.5 kW	-	25x40x7	DIN 3760 without spring	1
		From 2.2 to 3 kW		30x47x7		
093	Lip seal	For 0.25 kW	-	15x30x5	DIN 3760 without spring	1
		For 0.37 kW and 0.55 kW		17x32x7		
		From 0.75 kW to 3 kW		25x40x7		
200	Screw	32-125	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30	UNI 5739	8
		40-125				
		32-160		M 10x35		10
		40-160				
		50-125				
		65-125				
32-200, 40-200	12					
50-160, 50-200						
65-160, 65-200						
235	Washer	32-125	Galvanized Steel	8.4x17	UNI 6592	8
		40-125				
		32-160		10.5x21		10
		40-160				
		50-125				
		65-125				
32-200, 40-200	12					
50-160, 50-200						
65-160, 65-200						

[1] Aluminum AL-EN-1706-AC-46000-D for 3D4 50-200/2.2; 65-125/0.75 and 1.1; 65-160/2.2; 65-200/2.2 and 3 kW

Cast iron EN-GJL-200-EN 1561 for all the others;

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

[3] For special version and dimensions see **CONSTRUCTION 3**

[4] FPM for H, HS, HW, HSW version; EPDM for E version

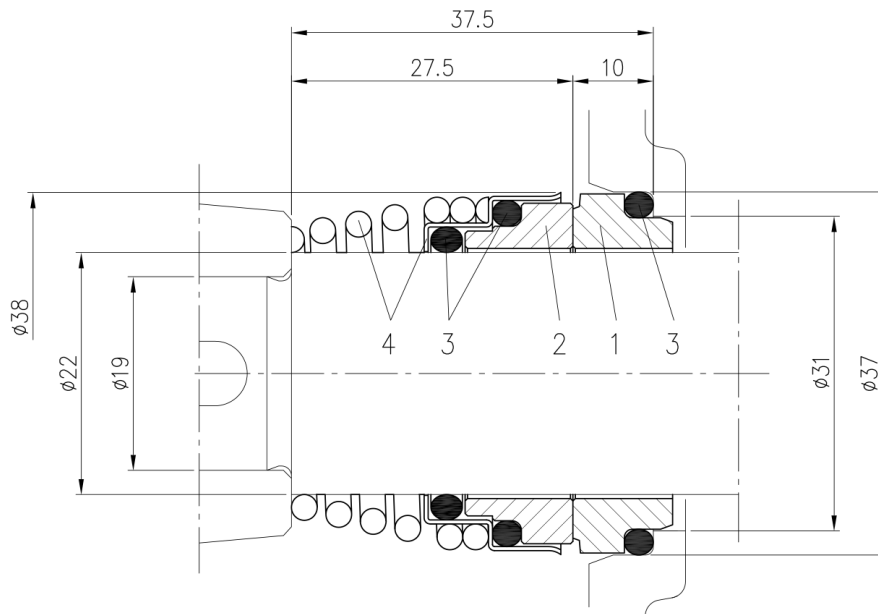
[5] Only for: 32-200, 40-200, 50-160, 50-200

(3/3)

Construction

Pump Name 3D4 40-200/1.1

Customer	Date 09.06.2024	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail



Version	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)