Technical Data

Pump Name 3M4 32-160/0.37

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	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	3M4 32-160/0.37	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	166
12	Speed rpm	1400		Designed	mm	166
13	No. of Stage	1		Min.	mm	166
14	Connection Suction side	DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side	DIN 2532		Max-	m³/h	10.5
16	Max Working Pressure bar	10		Min-	m³/h	3
17	Shut-off head bar	0.88	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	6.3
19	Shaft power kW			- (Qmin.)	m	8.7
20			Max. Shaft Power at max. impeller		kW	0.30
21	Required pump NPSH m		Efficiency		%	

Materials

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

Motor

28	Manufacturer	EPE Standard	Insulation class		F
29	Type	TEFC_3M432-160/0.37_230_Three Phase	Phases		3~
30	Specific design	- / 50 Hz / Pole pairs 2	Frame size		80
31	Rated power kW	0.37	Weight	kg	
32	Number of poles	4	Electric voltage	V	230
33	Speed rpm	1400	Electric current	A	2.6
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance Curve

Pump Name 3M4 32-160/0.37

Customer	Date 2024-06-12	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Proiect redenumit 2024-06-12 12:10:37	E-mail

Requested data

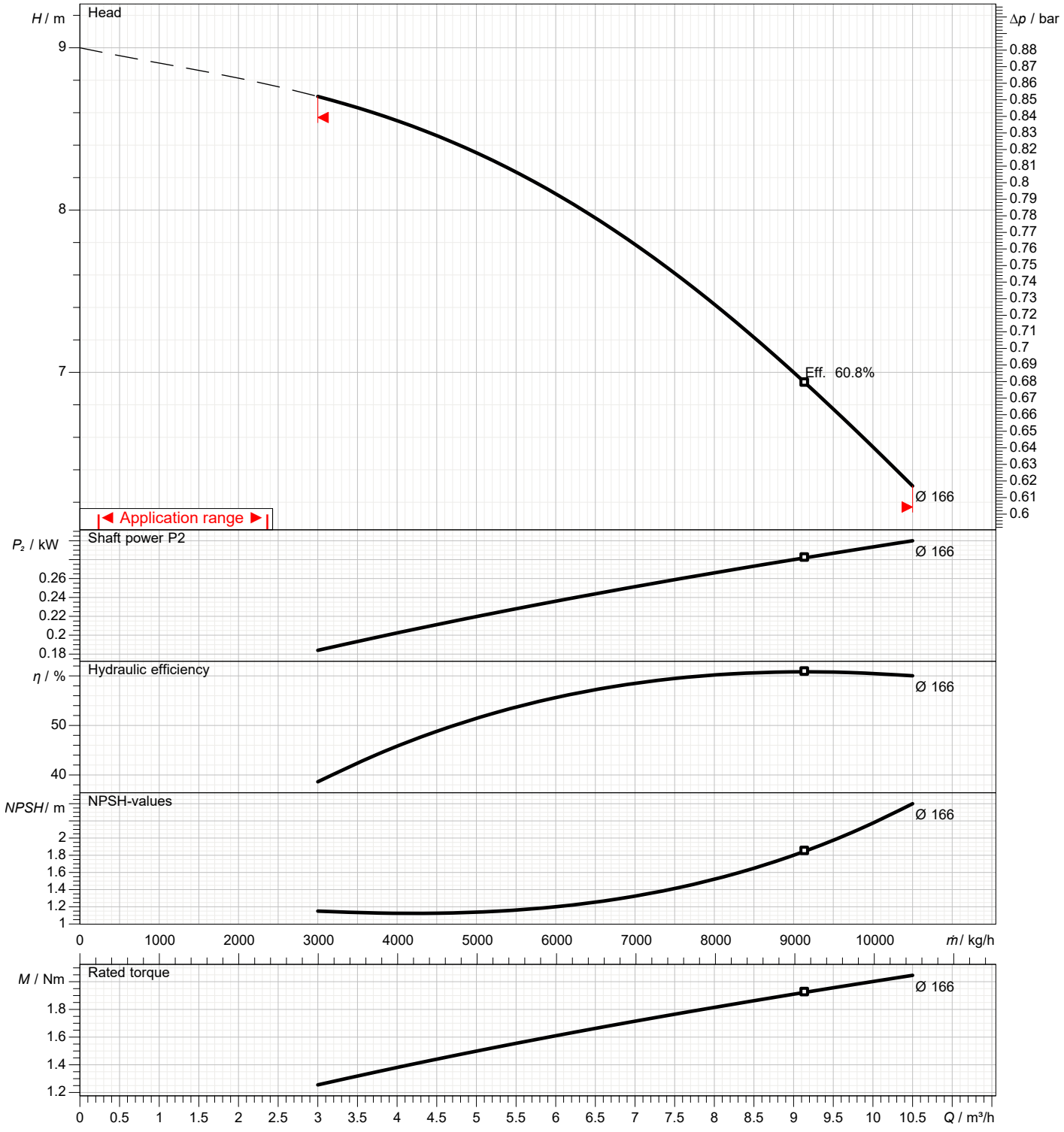
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		4
Impeller diameter designed	mm	166	Speed	rpm	1400

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

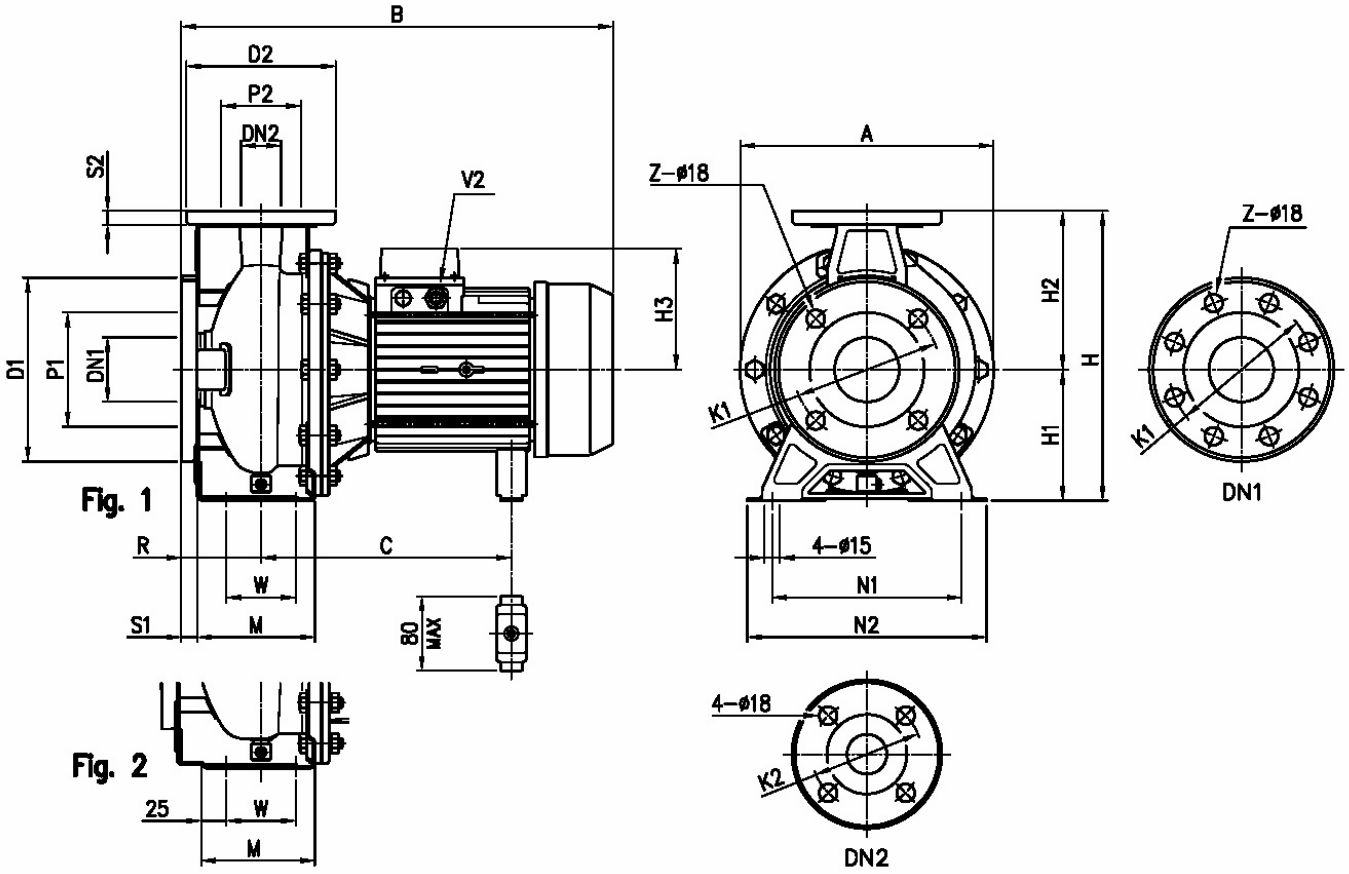


EBARA

Dimensions

Pump Name 3M4 32-160/0.37

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail



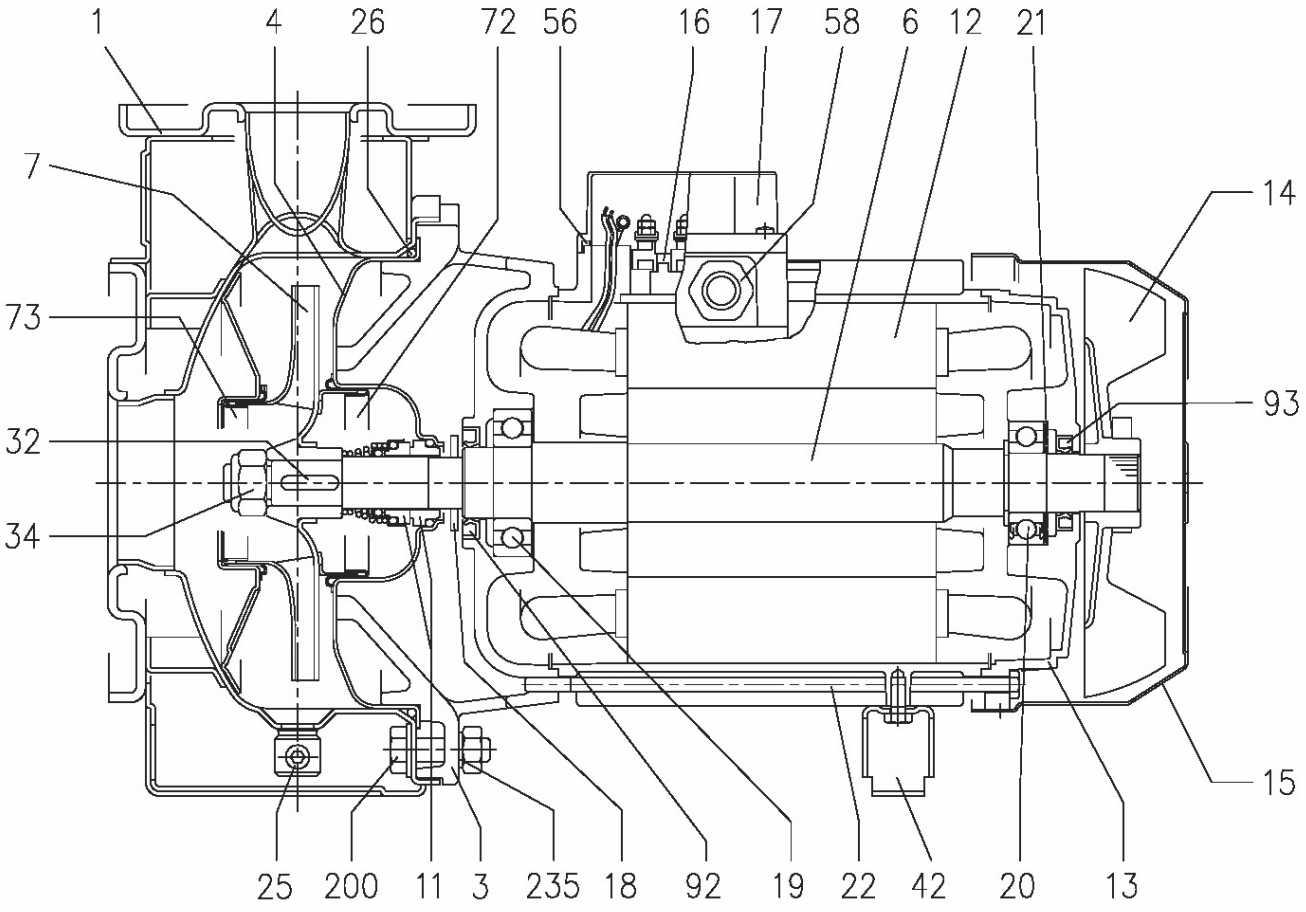
Dimensions in	mm							
1	A	254	H3	119				
2	B	393	M	118				
3	C	219	N1	190				
4	Dia D1	165	N2	240				
5	Dia D2	140	R	80				
6	Dia DN1	50	S1	16				
7	Dia DN2	32	S2	14				
8	Dia K1	125	V2	PG 11				
9	Dia K2	100	W	70				
10	Dia P1	95	Weight P&M	19,9 kg				
11	Dia P2	75	Z	4				
12	Fig	1						
13	H	292						
14	H1	132						
15	H2	160						

EBARA

(1/3)
Construction

Pump Name 3M4 32-160/0.37

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail



(2/3)
Construction

Pump Name 3M4 32-160/0.37

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail

N°	PART NAME		MATERIAL 3M4	MATERIAL 3LM4	DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket		[5]				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Shaft with rotor-Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
7	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	EN 1.4401 (AISI 316)				
11	Mechanical seal [3]		Carbon/Ceramic/NBR	SiC/SiC/FPM			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		NBR	/	40x21.5x3	EBARA DRAWING	1
19	Bearing		-				1
20	Bearing		-				1
21	Adjusting ring		Steel C70				1
22	Tie rod		Fe 42 Galvanized		M5	EBARA DRAWING	4
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
26	O ring	32-125, 40-125	NBR [4]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-160			183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
32	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
34	Impeller nut	Other models	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			M18x1.5		
42	Foot		Aluminium / Galvanized steel			EBARA DRAWING	1
56	Box gasket		NBR				1
58	Fasting nut		-				1
72	Casing ring (not for 65 version) [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
73	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
92	O ring	Up to 1.5kW	-	-	25x40x7	DIN 3760 without spring	1
		From 2.2kW to 3kW			30x47X7		
93	O ring	For 0.25kW	-	-	15x30x5	DIN 3760 without spring	1
		For 0.37kW and 0.55kW			17x32X7		
		From 0.75 kW to 3kW			25x40x7		
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35		[2]
235	Washer	32-125, 40-125	EN 1.4301 (AISI 304)		8.4x17	UNI 6592	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			10.5x21		[2]

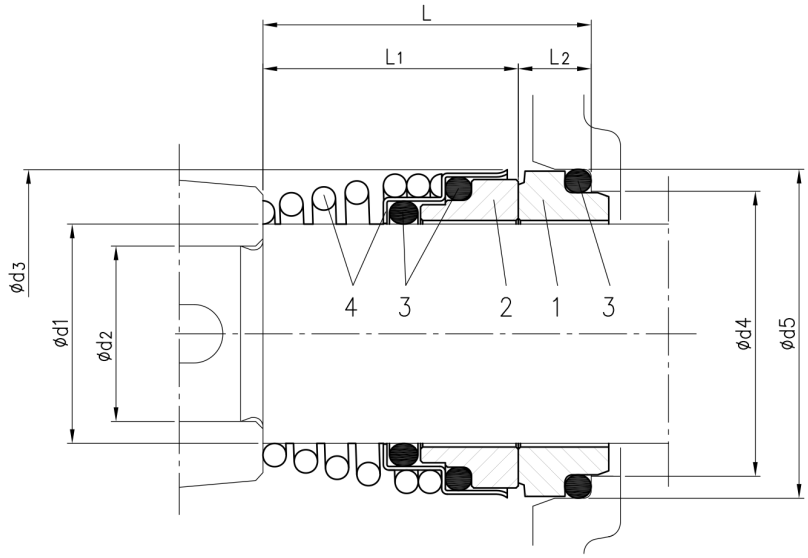
[1] For version 32-200, 40-200, 50-160 , 50-200
[2] Quantity = 10 for 32-160, 40-160, 50-125, 65-125
Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
[3] Special version: see CONSTRUCTION 3
[4] FPM for H-HS-HW-HSW version
EPDM for E version, Q1AEGG, U3U3EGG, Q1Q1EGG, Q1U3EGG, U3CEGG
[5] Cast iron EN-GJL-200-EN 1561 for 32-200/3 and models with 15, 18.5, 22 kW motor
Aluminum AL-EN-1706-AC-46000-D for all the others

EBARA

(3/3)
Construction

Pump Name 3M4 32-160/0.37

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail



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
Standard	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)