Technical data

Pump name 3D 32-160/2.2

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMP	Fluid		Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K	293
3	Flow m³/h	0	Kin. viscosity	mm²/s	1
4	Head m	0	Vapour pressure	kPa	2.2
5	Geodetic head m	0	PH value		7
6	Inlet pressure (pin) kPa	10	Density	kg/m³	1000
7	Available system NPSH	0	Solids	Weight %	0
8	Ambient temperature K	290			

Pump

9	Pump name	3D 32-160/2.2	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMP	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	166
12	Speed 1/min	2900		Designed	mm	166
13	No. of Stage	1		Min.	mm	166
14	Connection Suction side	EN 1092-2	Flow	Operating	m³/h	
15	Connection Discharge side	EN 1092-2		Max-	m³/h	20
16	Max Working Pressure kPa	1000		Min-	m³/h	6
17	Shut-off head kPa	359.40	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	25.5
19	Shaft power kW			- (Qmin.)	m	35.4
20			Max. Shaft Power at max. impeller		kW	2.25
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_3D32-160/2.2_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	2.2	Weight	kg	0
32	Number of poles	2	Electric voltage	V	230
33	Speed 1/min	2900	Electric current	A	8.2
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve **Pump name** 3D 32-160/2.2

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Requested data

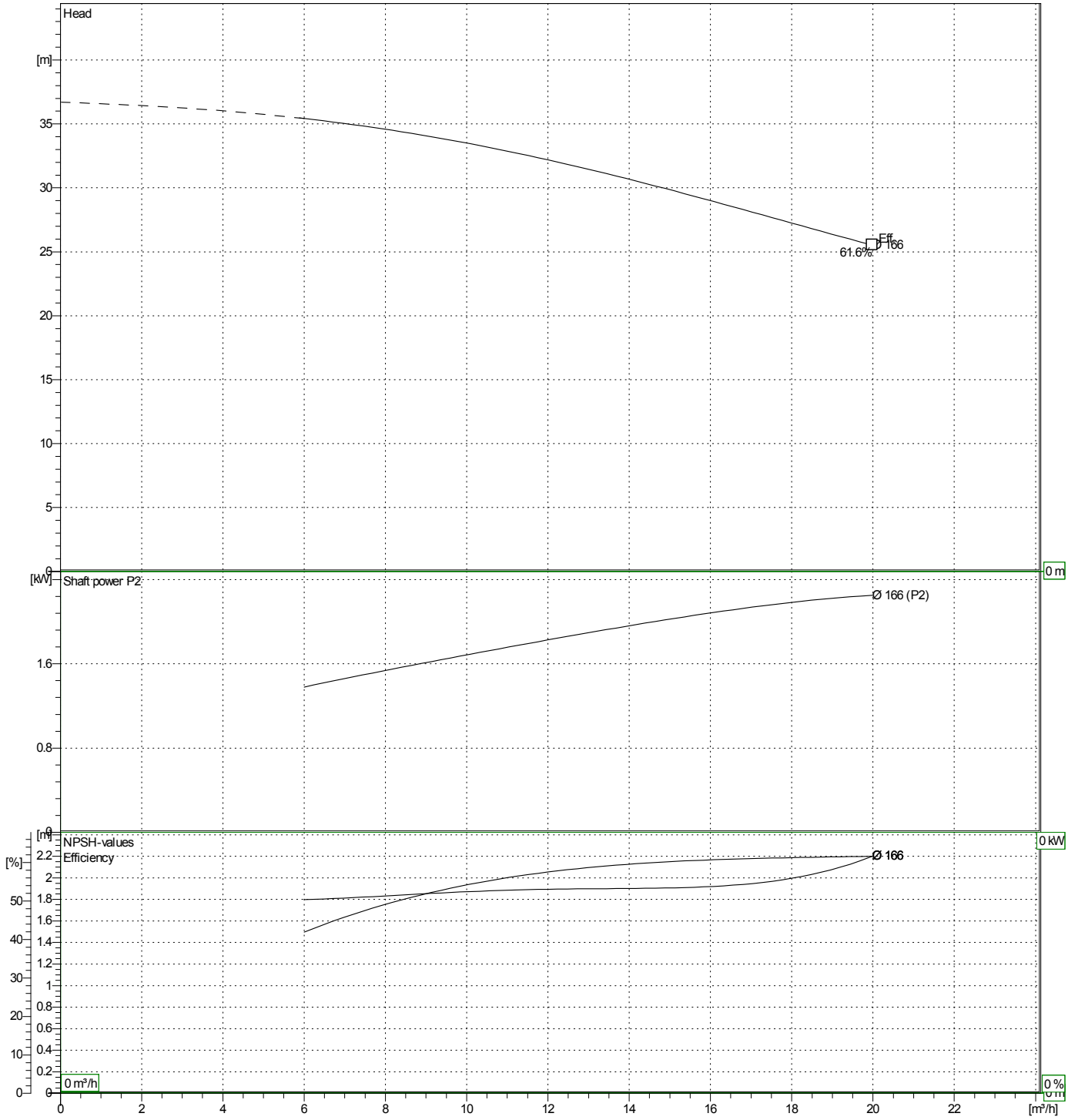
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	166	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s

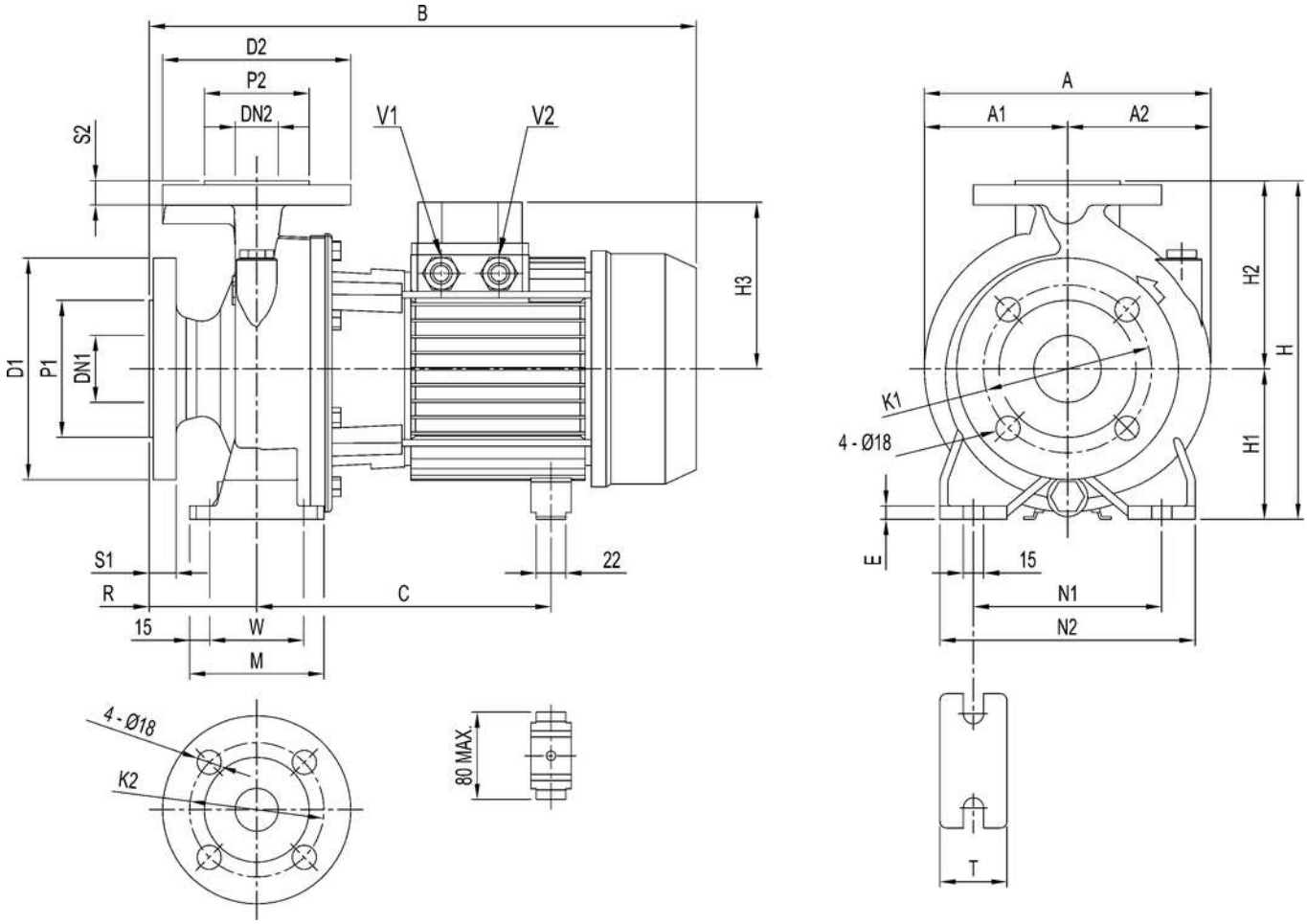


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Dimensions

Pump name 3D 32-160/2.2

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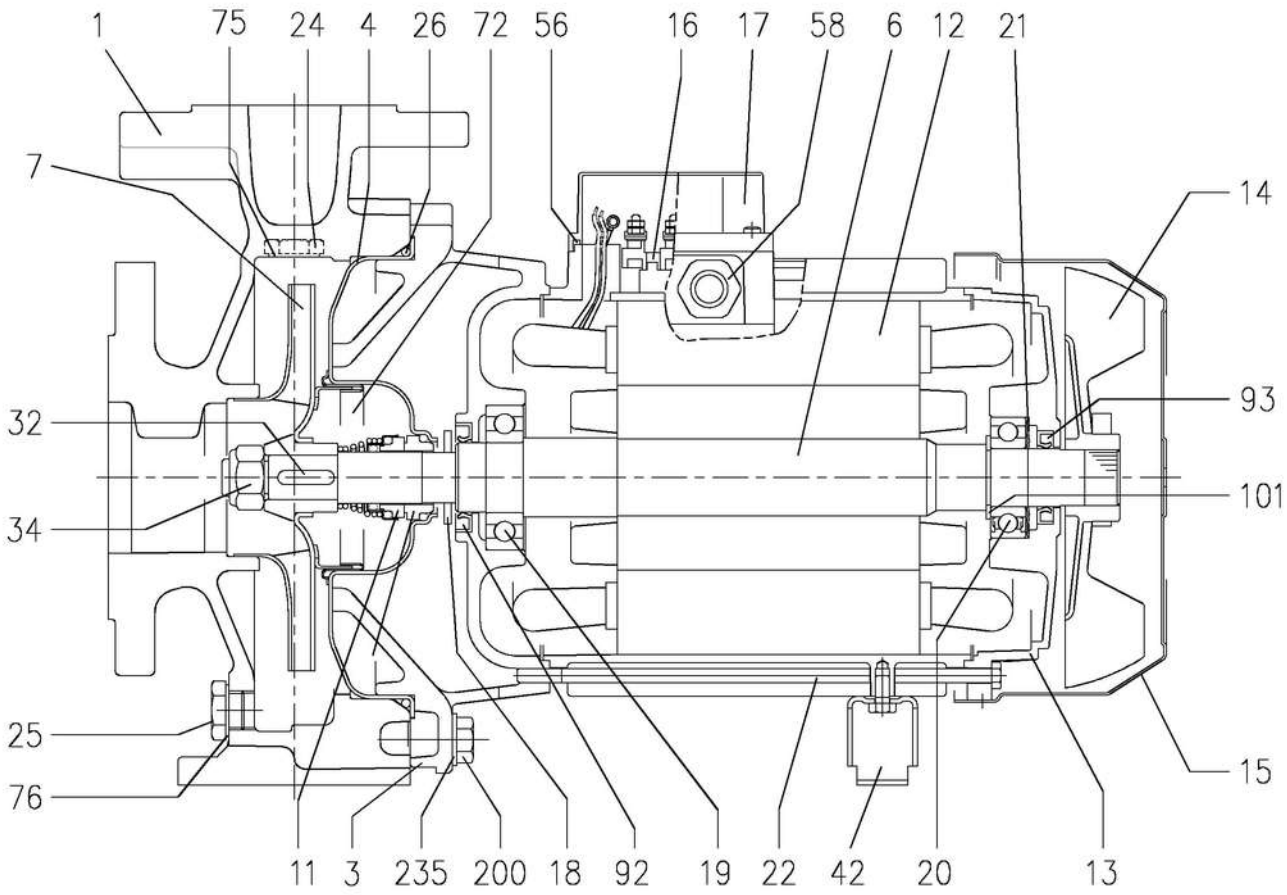
Dimensions in mm								
1	A	254	E	10	W	70		
2	A1	127	H	292	Weight P&M	36 kg		
3	A2	127	H1	132				
4	B	431	H2	160				
5	C	232	H3	119				
6	Dia D1	165	M	100				
7	Dia D2	140	N1	190				
8	Dia DN1	50	N2	240				
9	Dia DN2	32	R	80				
10	Dia K1	125	S1	20				
11	Dia K2	100	S2	18				
12	Dia P1	102	T	50				
13	Dia P2	78	V2	M20X1,5				

EBARA

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Construction

Pump name 3D 32-160/2.2

Customer	Date 23-June-2020	Company
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EBARA

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Construction

Pump name 3D 32-160/2.2

Customer	Date 23-June-2020	Company
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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	Up to 11 kW	NBR	40x21.5x2	EBARA DRAWING	1
		15 kW and above		50x29.5x3		
019	Bearing		-			1
020	Bearing		-			1
021	Adjusting ring		Steel C70			1
022	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		
	Screw	15 kW and above	Gv. Steel 8.8 strenght class ISO 898-1	M10x40	UNI 5739	
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	Up to 11 kW	EN 1.4401 (AISI 316)	A 6x6x25	UNI 6604	1
		50-200/15				
		15 kW and above		A 8x7x30		
034	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474	1
		50-200/15		M18x1.5		
		15 kW and above		M20x1.5		
042	Foot		Aluminium / Galvanized steel		EBARA DRAWING	[5]
056	Box gasket		NBR			1
058	Cable gland		-			[6]
072	Casing ring [7]		EN 1.4301 (AISI 304)			1
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer		Aluminum			1
092	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		
		From 15 kW to 22 kW		45x60x7		
093	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		
		From 15 kW to 22 kW		45x60x7		
101	Snap ring [8]		Carbon tool steels TC 80	Ø 40	UNI 7435	1
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] Cast iron EN-GJL-200-EN 1561 for 3D 32-200/3 and models with 15, 18.5, 22 kW motor
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] For special version and dimensions see **CONSTRUCTION 3**

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

[5] 1 for pumps up to 11 kW

[6] 1 for pumps with motor up to 11 kW

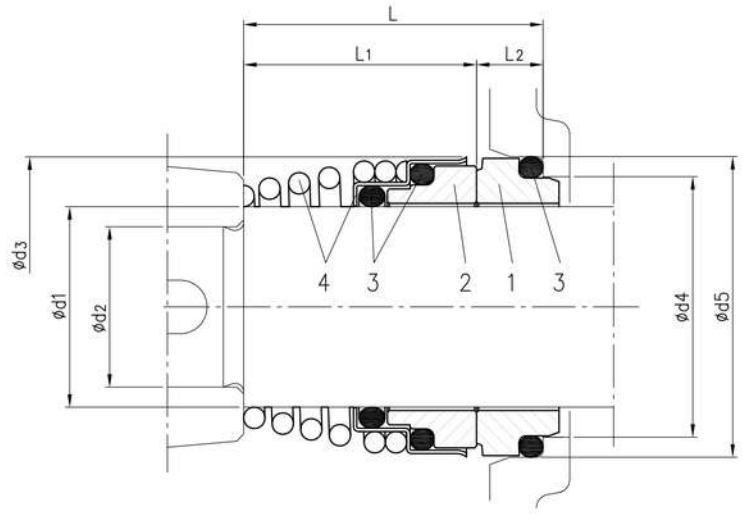
[7] Only for: 32-200, 40-200, 50-160, 50-200/9.2, 50-200/11

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

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Construction

Pump name 3D 32-160/2.2

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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
Standard	32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	65.160/15 65-200	30	24	46	39	45	42.5	32.5	10				