

Technical data

Pump name

3D 65-160/15

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 m ³ /h	0	Kin. viscosity	mm ² /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/m ³ 1000
7	Available system NPSH	0	Solids	Weight % 0
8	Ambient temperature	K 290		

Pump

9	Pump name	3D 65-160/15	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMP	Installation type	STANDARD
11	Manufacturer	EPE	Impeller	Max. mm 178
12	Speed 1/min	2900	Diameter	Designed mm 178
13	No. of Stage	1		Min. mm 178
14	Connection Suction side	EN 1092-2	Flow	Operating m ³ /h
15	Connection Discharge side	EN 1092-2		Max- m ³ /h 138
16	Max Working Pressure kPa	1000		Min- m ³ /h 42
17	Shut-off head kPa	470.10	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 29.0
19	Shaft power kW			- (Qmin.) m 46.0
20			Max. Shaft Power at max. impeller	kW 14.20
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 65-160/15_400_Three Phase	Phases	3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	15	Weight	kg 0
32	Number of poles	2	Electric voltage	V 400
33	Speed 1/min	2900	Electric current	A 27.7
34	Degree of protection	IP 55		
35				

Remarks

Performance curve Pump name 3D 65-160/15

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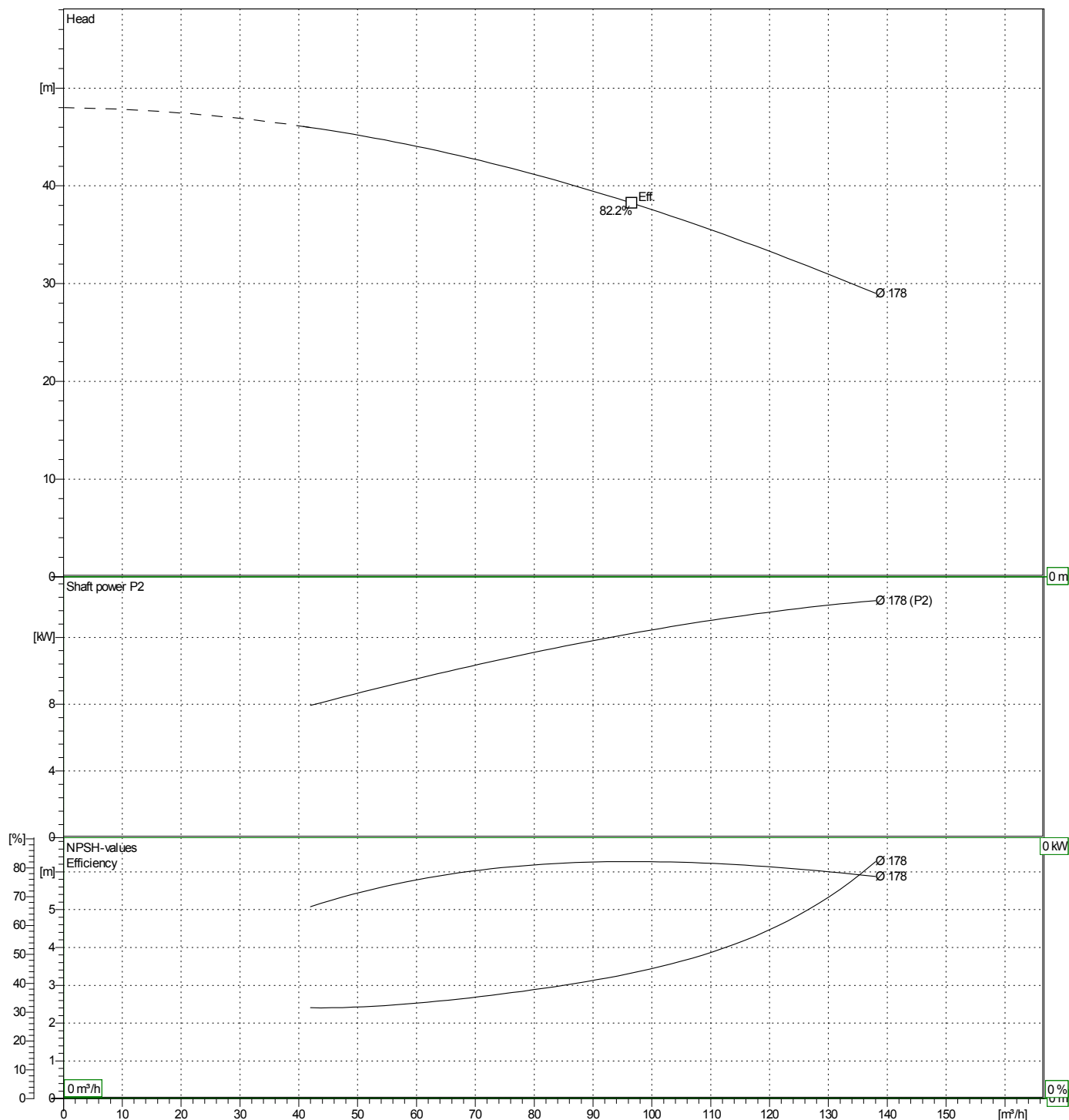
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Frequency	Hz	50
Operating Head	m		Number of poles		2
Impeller Diameter	Designed mm	178	Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

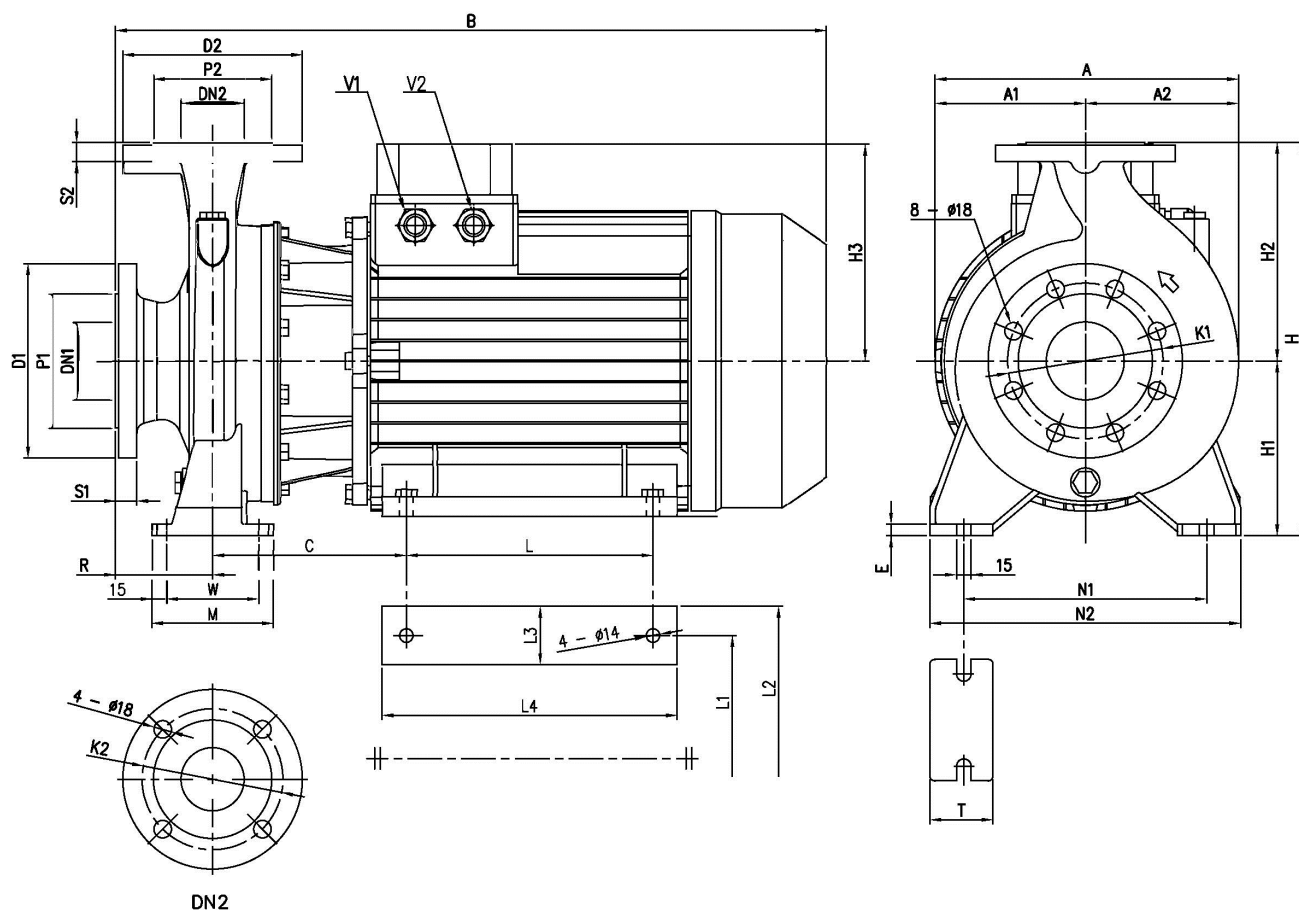
Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s



Dimensions

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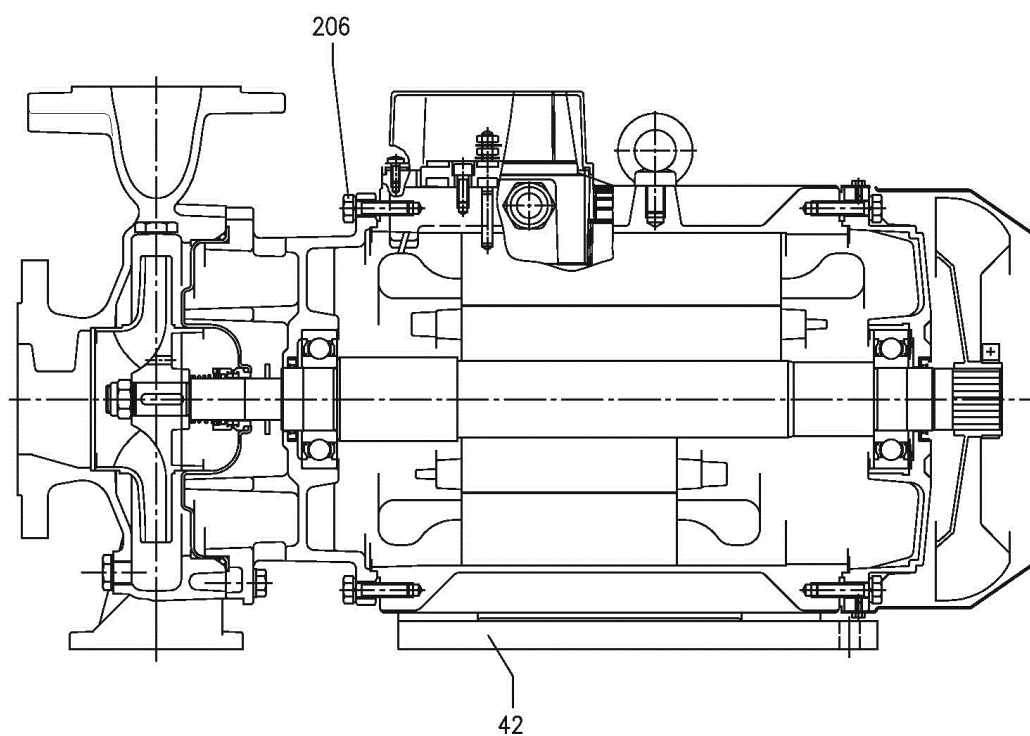
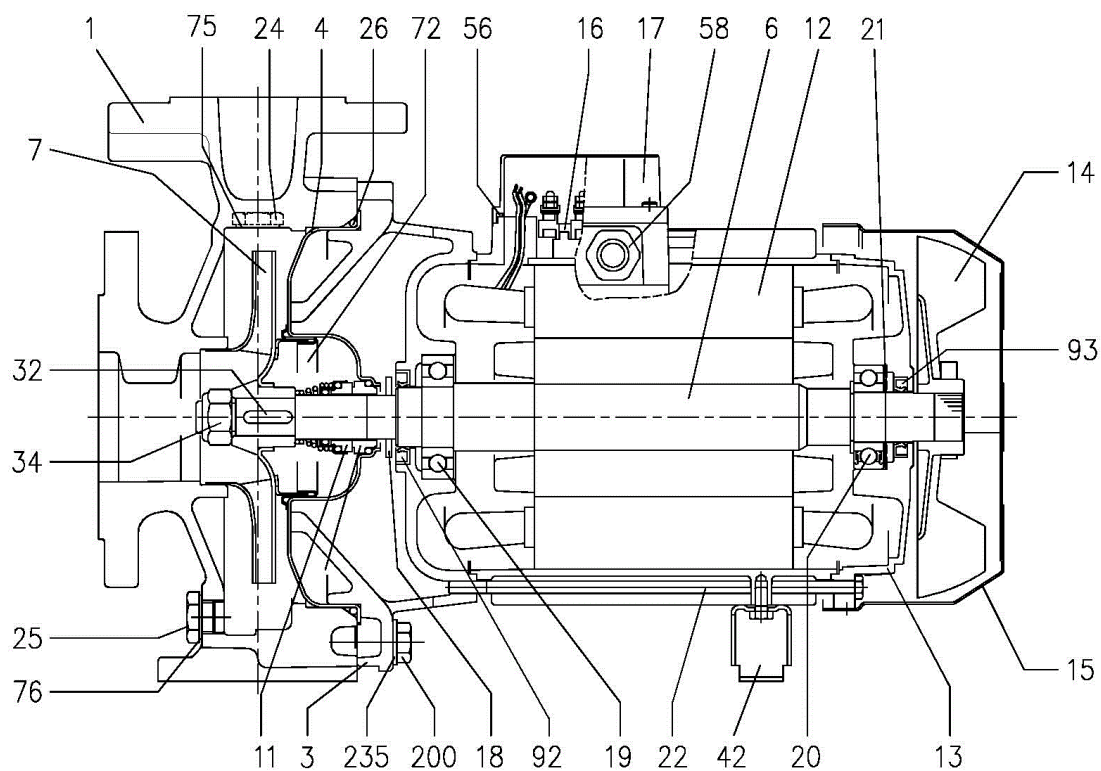


Dimensions in mm							
1	A	296	E	12	R	100	
2	A1	154.5	H	360	S1	22	
3	A2	141.5	H1	160	S2	20	
4	B	732	H2	200	T	65	
5	C	199.5	H3	223	V1	PG 21	
6	Dia D1	200	L	254	V2	PG 21	
7	Dia D2	185	L1	254	W	95	
8	Dia DN1	80	L2	318	Weight P&M	129.1 kg	
9	Dia DN2	65	L3	64			
10	Dia K1	160	L4	304			
11	Dia K2	145	M	125			
12	Dia P1	138	N1	212			
13	Dia P2	122	N2	280			

(1/3) Construction

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(2/3) Construction

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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 15 kW and above	NBR	50x29.5x3	EBARA DRAWING	1
19	Bearing	-			1
20	Bearing	-			1
21	Adjusting ring	Steel C70			1
22	Screw 15 kW and above	Gv. Steel 8.8 strenght class ISO 898-1	M10x40	UNI 5739	4
24	Priming plug	Brass	G 3/8" L=8		1
25	Draing plug	Brass	G 3/8" L=8		1
26	O-ring 50-200/15, 65-160/15, 65-200/15, 65-200/18.5, 65-200/22 [4]	NBR/FPM/EPDM	227.96x5.34	OR 6895	1
32	Key 50-200/15	EN 1.4401 (AISI 316)	A 6x6x25	UNI 6604	1
	15 kW and above		A 8x7x30		
34	Impeller nut 50-200/15	EN 1.4301 (AISI 304)	M18x1.5	UNI 7474	1
	15 kW and above		M20x1.5		
42	Foot	Aluminium / Galvanized steel		EBARA DRAWING	[5]
56	Box gasket	NBR			1
58	Cable gland	-			2
72	Casing ring	EN 1.4301 (AISI 304)			1
75	Washer	Aluminum	22x17x1.5	EBARA DRAWING	1
76	Washer	Aluminum			1
92	Lip seal From 15 kW to 22 kW	-	45x60x7	DIN 3760 without spring	1
93	Lip seal From 15 kW to 22 kW	-	45x60x7	DIN 3760 without spring	1
200	Screw 50-200/15, 65-160/15, 65-200/15, 65-200/18.5, 65-200/22	Gv. Steel 8.8 strenght class ISO 898-1	M 10x35	UNI 5739	12
206	Screw for bracket [6]	Gv. Steel 8.8 strenght class ISO 898-1	M 10x40	UNI 5739	4
235	Washer 50-200/15, 65-160/15, 65-200/15, 65-200/18.5, 65-200/22	Galvanized Steel	10.5x21	UNI 6592	12

[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] EN 1.4301 (AISI 304) for 50 series

EN 1.4401 (AISI 316) for 65 series

[3] See **CONSTRUCTION 3**

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

[5] 0 for 65-160/15 kW

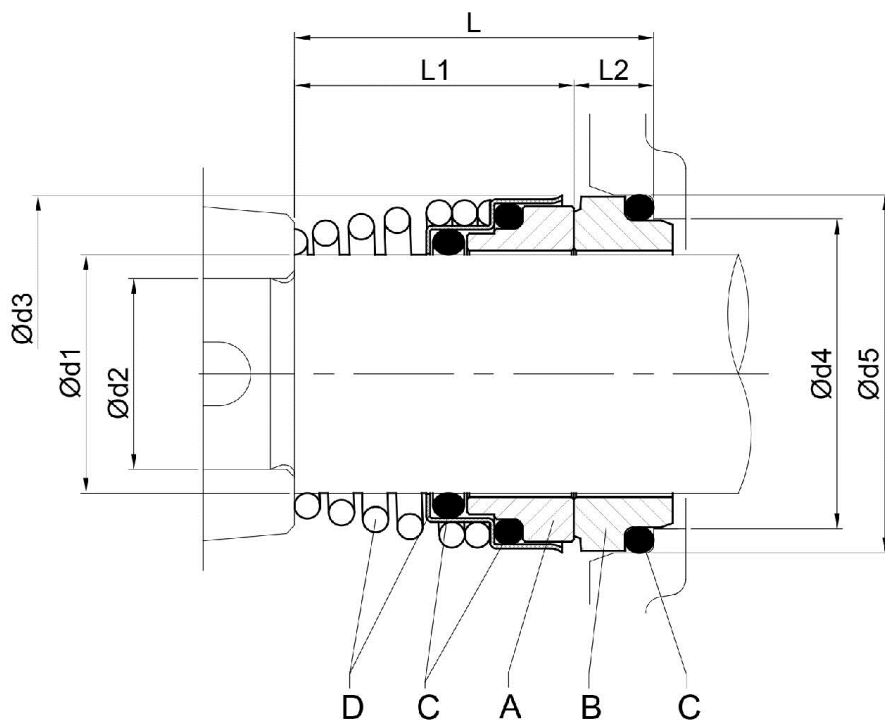
2 for 65-200/15, 18.5, 22 kW

[6] Only for pumps with 15 kW motor and above

(3/3) 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
65-160/15 65-200	30	24	46	39	45	42.5	32.5	10	Ceramic	Carbon	NBR	EN 1.4401 (AISI 316)