

Customer	Date 20-October-2016	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 °F	68
3	Flow US g.p.m.	0	Kin. viscosity ft ² /s	1.08E-5
4	Head ft	0	Vapour pressure psi	0.319
5	Static head ft	0	PH value	7
6	Inlet pressure psi	1	Density lb/ft ³	62
7	Available system NPSH	0	Solids Weight %	0
8	Environmental temperature °F	68	Altitude ft	3281

Pump

9	Pump name	3D50-160/156	Frequency Hz	60
10	Design	CENTRIFUGAL PUMP	Installation type	STANDARD
11	Manufacturer	EPE	Impeller Max. inch	7
12	Speed rpm	3480	Diameter Designed inch	7
13	No. of Stage	1	Min. inch	7
14	Connection Suction side	EN 1092-2	Flow Operating US g.p.m.	
15	Connection Discharge side	EN 1092-2	Max- US g.p.m.	379
16	Max Working Pressure psi	145.03	Min- US g.p.m.	132
17	Shut-off head psi	79.54	Head Operating ft	
18	Total weight lb	See the table of "Dimensions".	- (Qmax.) ft	133.2
19	Shaft power hp		- (Qmin.) ft	184.4
20			Max. Shaft Power at max. impeller hp	17.68
21	Required NPSH ft		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_3D50-160/156_460_Three Phase	Phases	3~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power hp	20.115	Weight lb	0
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3480	Electric current A	25
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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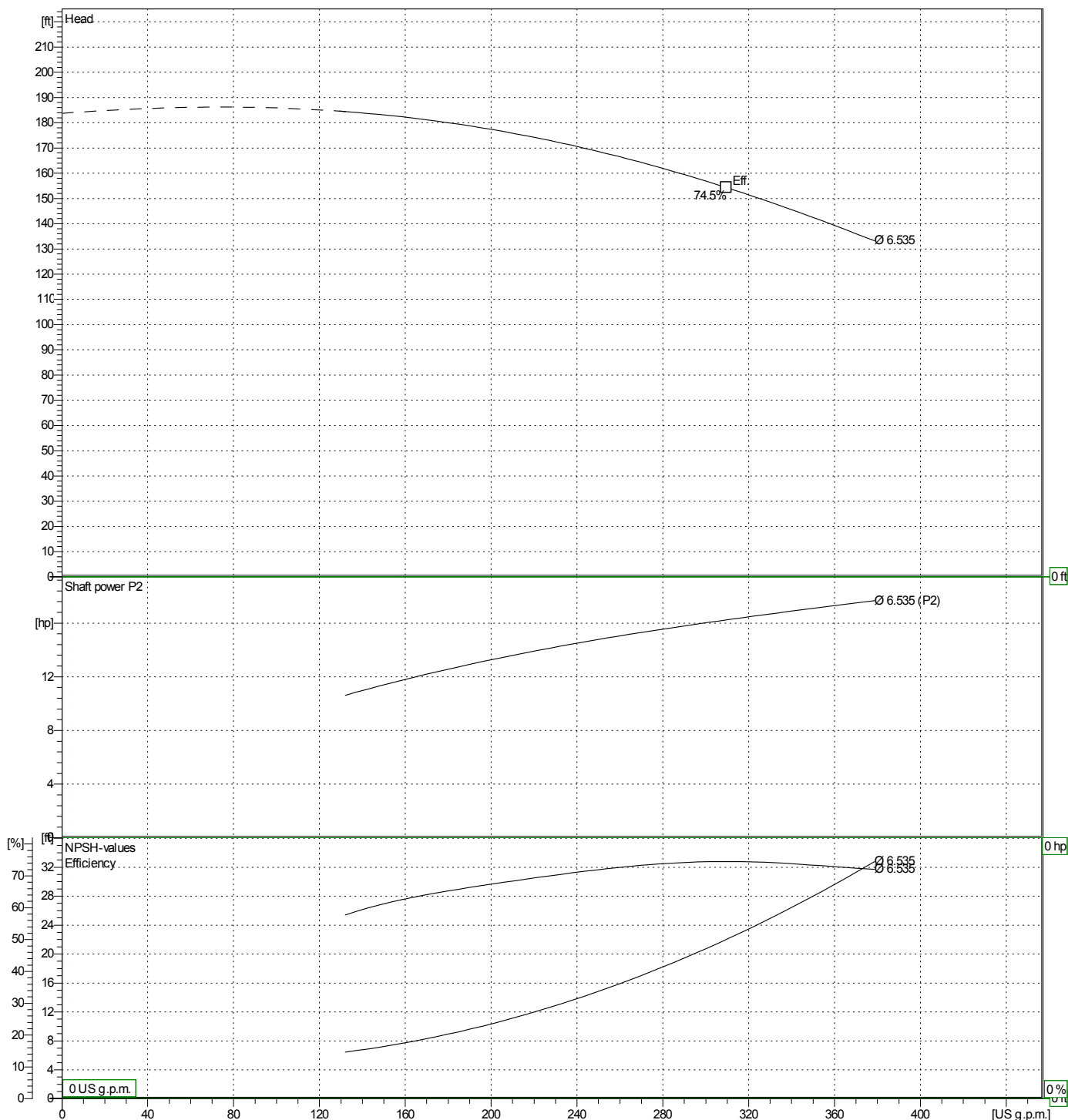
1	Flow	US g.p.m.	0
2	Head	ft	0
3	Static head	ft	0

Pump

Operating Flow	US g.p.m.	Impeller Diameter	Designed in	7
Operating Head	ft	Frequency	Hz	60
		Speed	rpm	

Test standard: ISO 9906:2012 - Grade3B

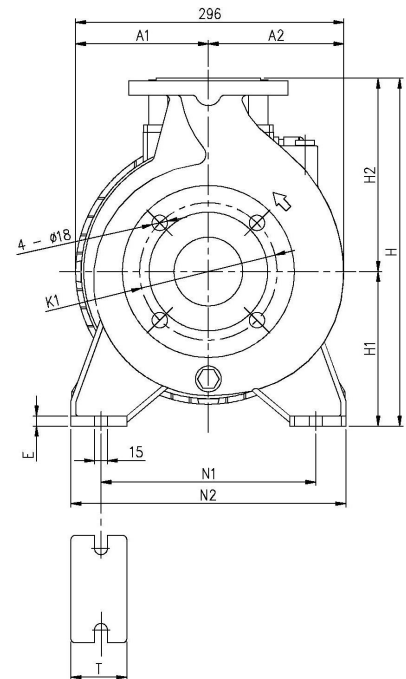
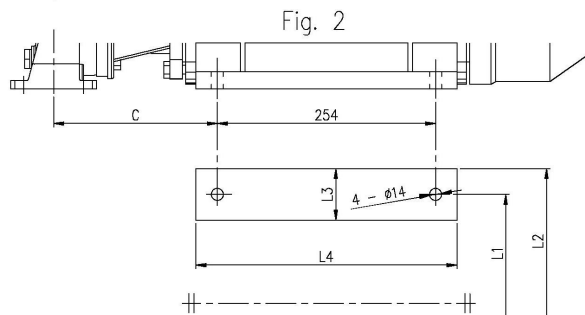
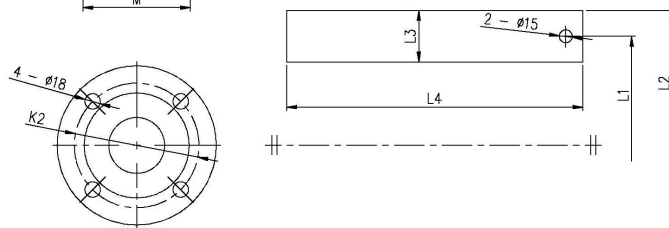
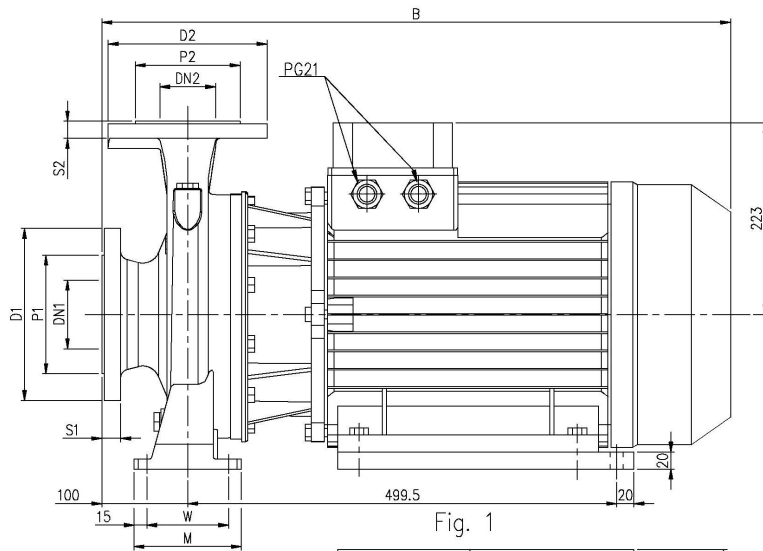
Water, clean [100%]; 68°F; 62.321690545307lb/ft³; 1.0764E-5ft²/s



Dimensions

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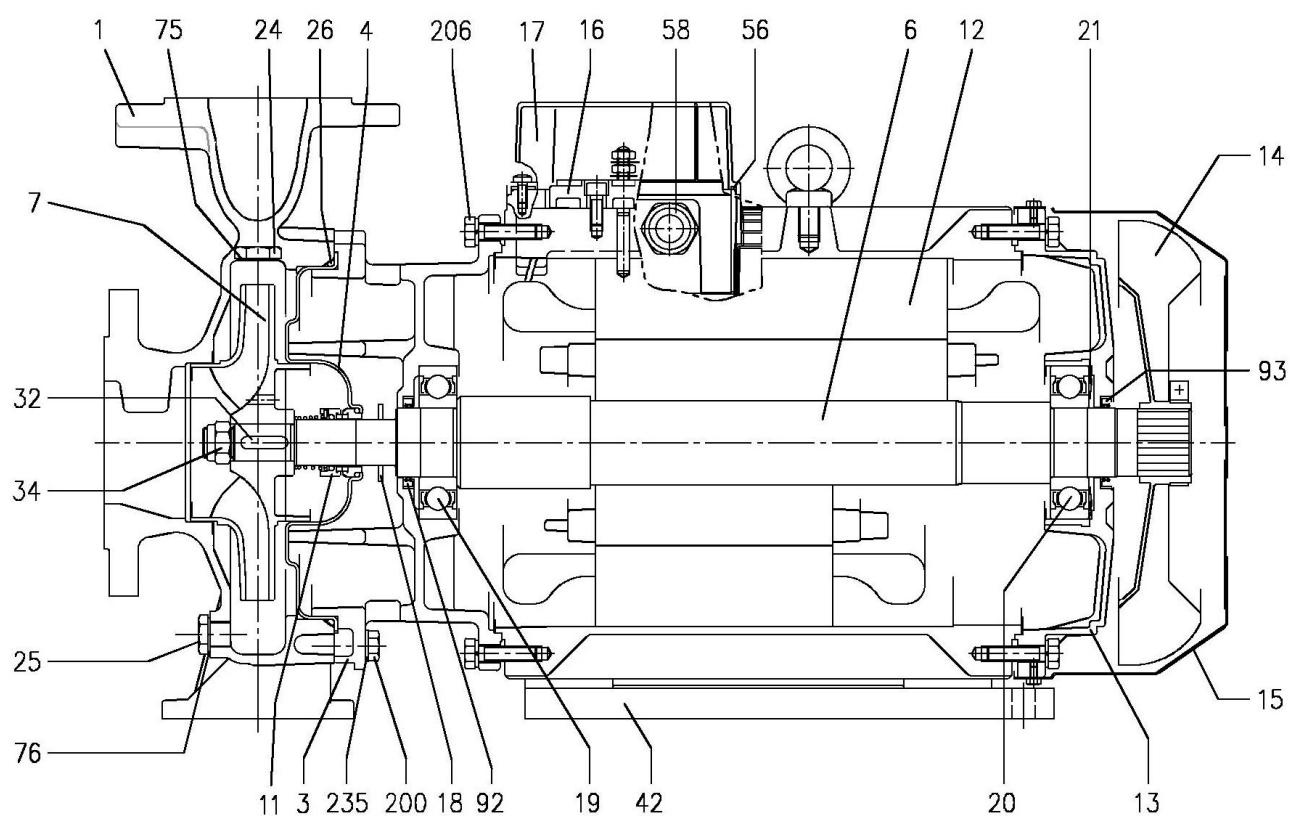


Dimensions in		inch						
1	A1	5.8268	Fig	Fig.2	T	1.9685		
2	A2	5.8268	H	13.386	W	2.7559		
3	B	28.465	H1	6.2992	Weight kg	93,1 kg		
4	C	7.5	H2	7.0866				
5	Dia D1	7.2835	L1	10				
6	Dia D2	6.4961	L2	12.52				
7	Dia DN1	2.5591	L3	2.5197				
8	Dia DN2	1.9685	L4	11.969				
9	Dia K1	5.7087	M	3.937				
10	Dia K2	4.9213	N1	8.3465				
11	Dia P1	4.8031	N2	10.433				
12	Dia P2	4.0157	S1	0.7874				
13	E	0.3937	S2	0.7874				

(1/3) Construction

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(2/3) Construction

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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	NBR	Up to 11 kW 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	Fe 42 Galvanized	Up to 3 kW M5	EBARA DRAWING	4
			For 4 - 5.5 - 7.5 kW M6		
			9.2 e 11kW M8		
	Screw	Gv. Steel 8.8 strenght class ISO 898-1	15 kW and above M10x40	UNI 5739	
24	Priming plug	Brass	G 3/8" L=8		1
25	Draining plug	Brass	G 3/8" L=8		1
026	"O" ring	NBR [4]	32-125, 40-125 158.11x5.34	OR 6625	1
			32-160, 40-160, 50-125, 65-125 183.52x5.34	OR 6720	
			32-200, 40-200, 50-160, 227.96x5.34	OR 6895	
			50-200, 65-160, 65-200		
032	Key	EN 1.4401 (AISI 316)	Up to 11 kW A 6x6x25	UNI 6604	1
			50-200/156 A 8x7x30		
			15 kW and above		
034	Impeller nut	EN 1.4301 (AISI 304)	Up to 11kW M16x1.5	UNI 7474	1
			50-200/156 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]
075	Washer	Aluminium	22x17x1.5	EBARA DRAWING	1
076	Washer	Aluminium			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		
200	Screw	Gv. Steel 8.8 strenght class ISO 898-1	32-125 M 8x30	UNI 5739	8
			40-125		10
			32-160		
			40-160		12
			50-125		
			65-125		
			32-200, 40-200		
			50-160, 50-200 65-160, 65-200		
235	Washer	Galvanized Steel	32-125 8.4x17	UNI 6592	8
			40-125		10
			32-160		
			40-160		12
			50-125		
			65-125		
			32-200, 40-200		
			50-160, 50-200 65-160, 65-200		
206	Screw for bracket	[9]	Gv. Steel 8.8 strenght class ISO 898-1	UNI 5739	4

[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

[2] Aluminium AL-EN-1706-AC-46000-D for all the others; 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] 0 for 65-160/15 kW; 2 for 65-200/15, 18.5, 22 kW

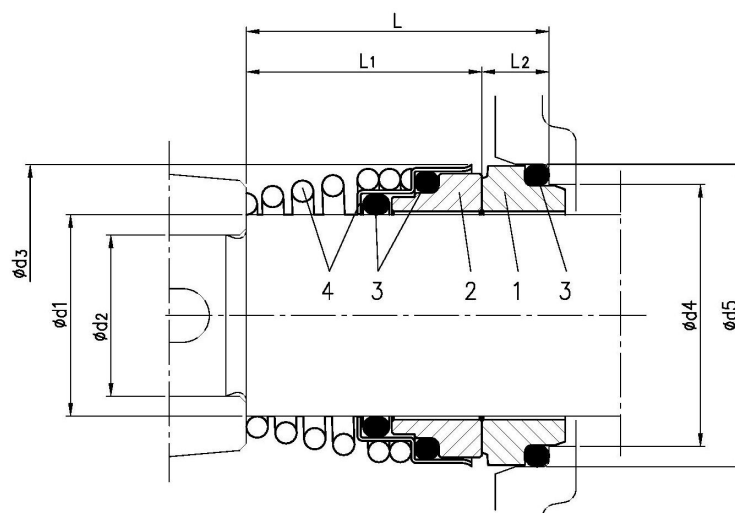
[6] 2 for pumps with 15 kW motor and above

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

(3/3) Construction

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Version	Pump type	Dimensions [mm]								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 65-125 65-160/9.26 65-160/116 65-160/156 65-200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
		30	24	46	39	45	42.5	32.5	10				