

Technical data

Pump name 3D40-160/7.56

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	3D40-160/7.56	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.	220
16	Max Working Pressure psi	145.03	Min- US g.p.m.	52.8
17	Shut-off head psi	79.25	Head Operating ft	
18	Total weight lb	See the table of "Dimensions".	- (Qmax.) ft	126.3
19	Shaft power hp		- (Qmin.) ft	177.2
20			Max. Shaft Power at max. impeller hp	9.53
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_3D40-160/7.56_460_Three Phase	Phases	3~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power hp	10.058	Weight lb	0
32	Number of poles	2	Electric voltage V	460
33	Speed rpm	3480	Electric current A	12.7
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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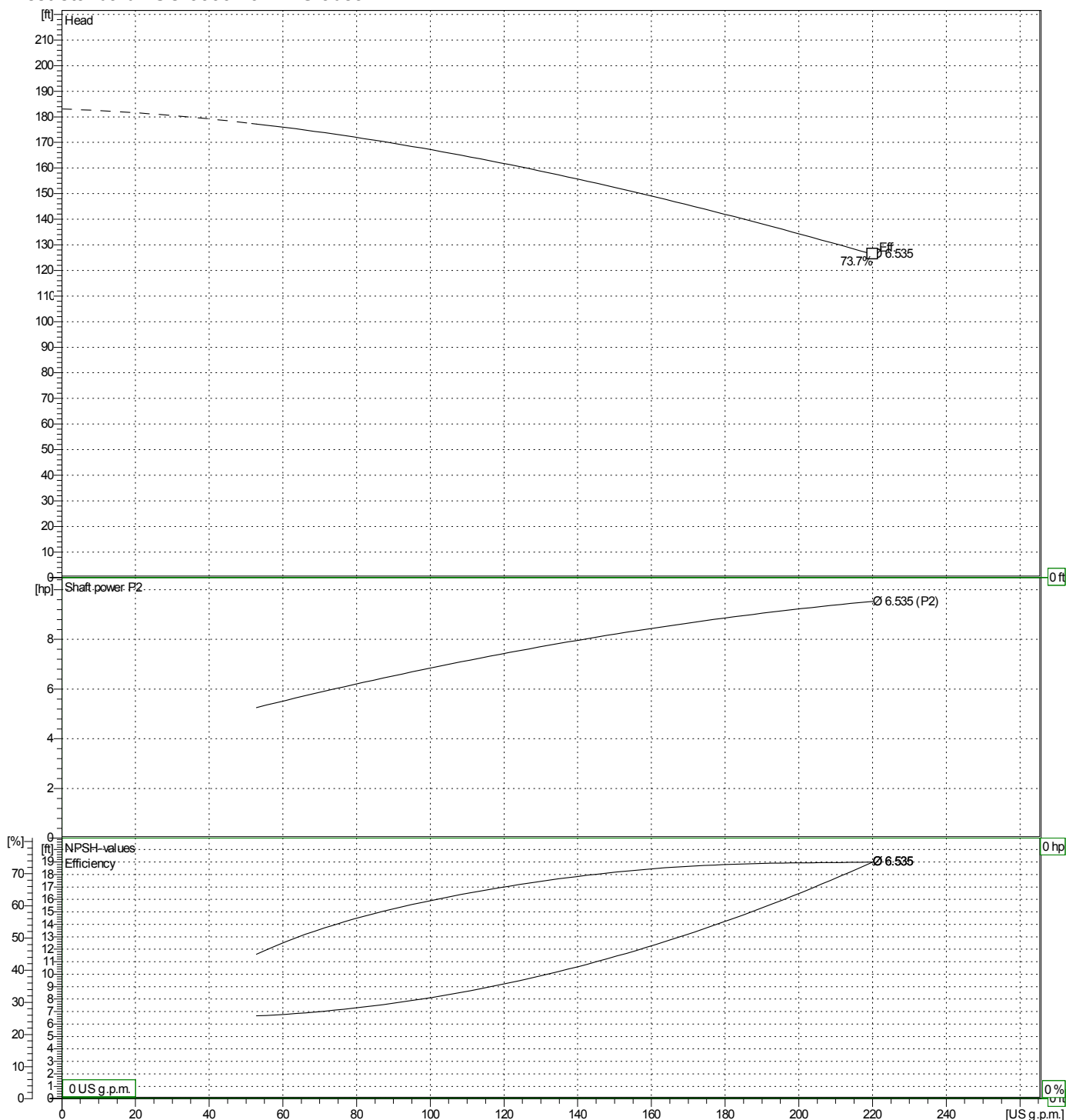
1	Flow	US g.p.m.	0
2	Head	ft	0
3	Static head	ft	0

Pump

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

Test standard: ISO 9906:2012 - Grade3B

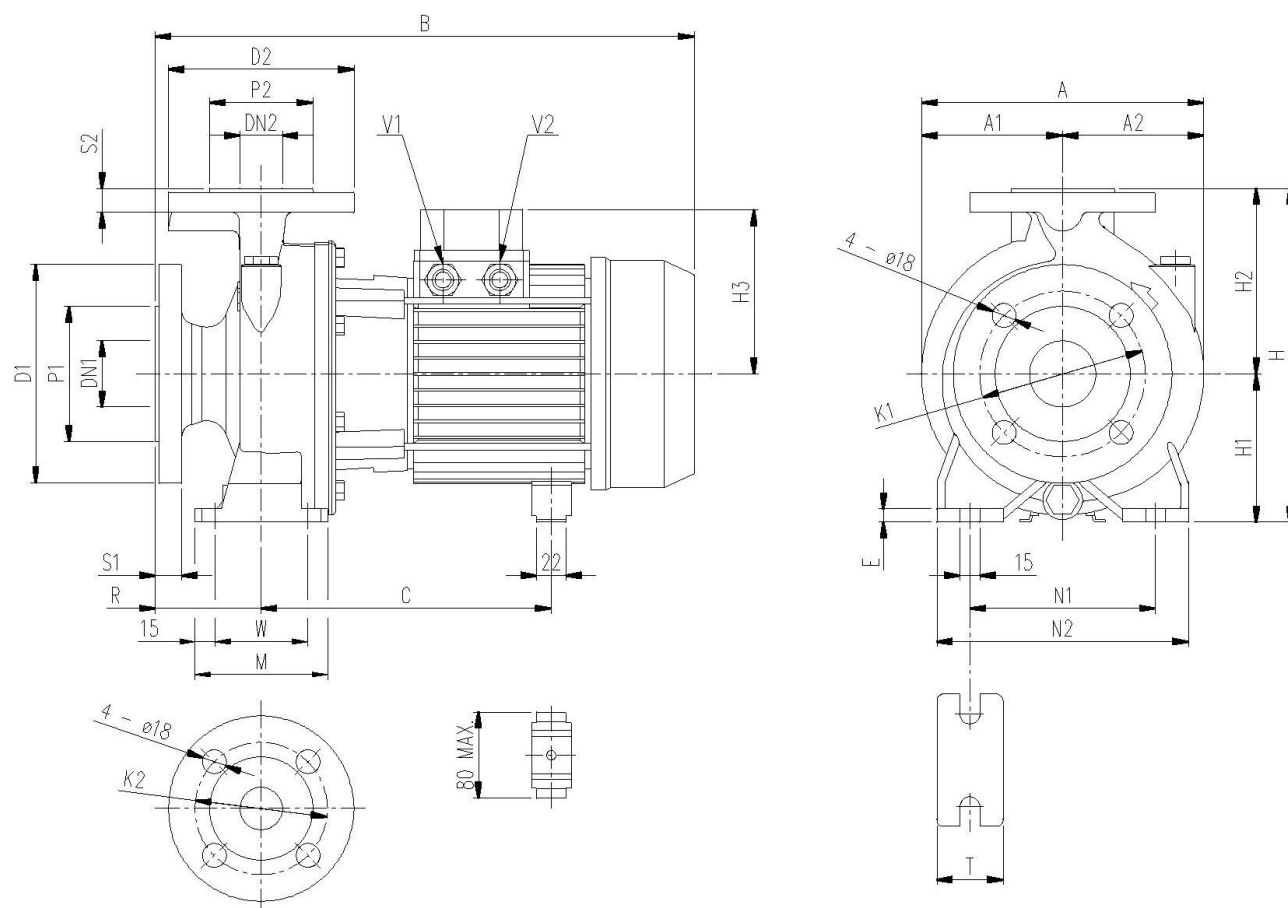
Water, clean [100%]; 68°F; 62.321690545307lb/ft³; 1.0764E-5ft²/s



Dimensions

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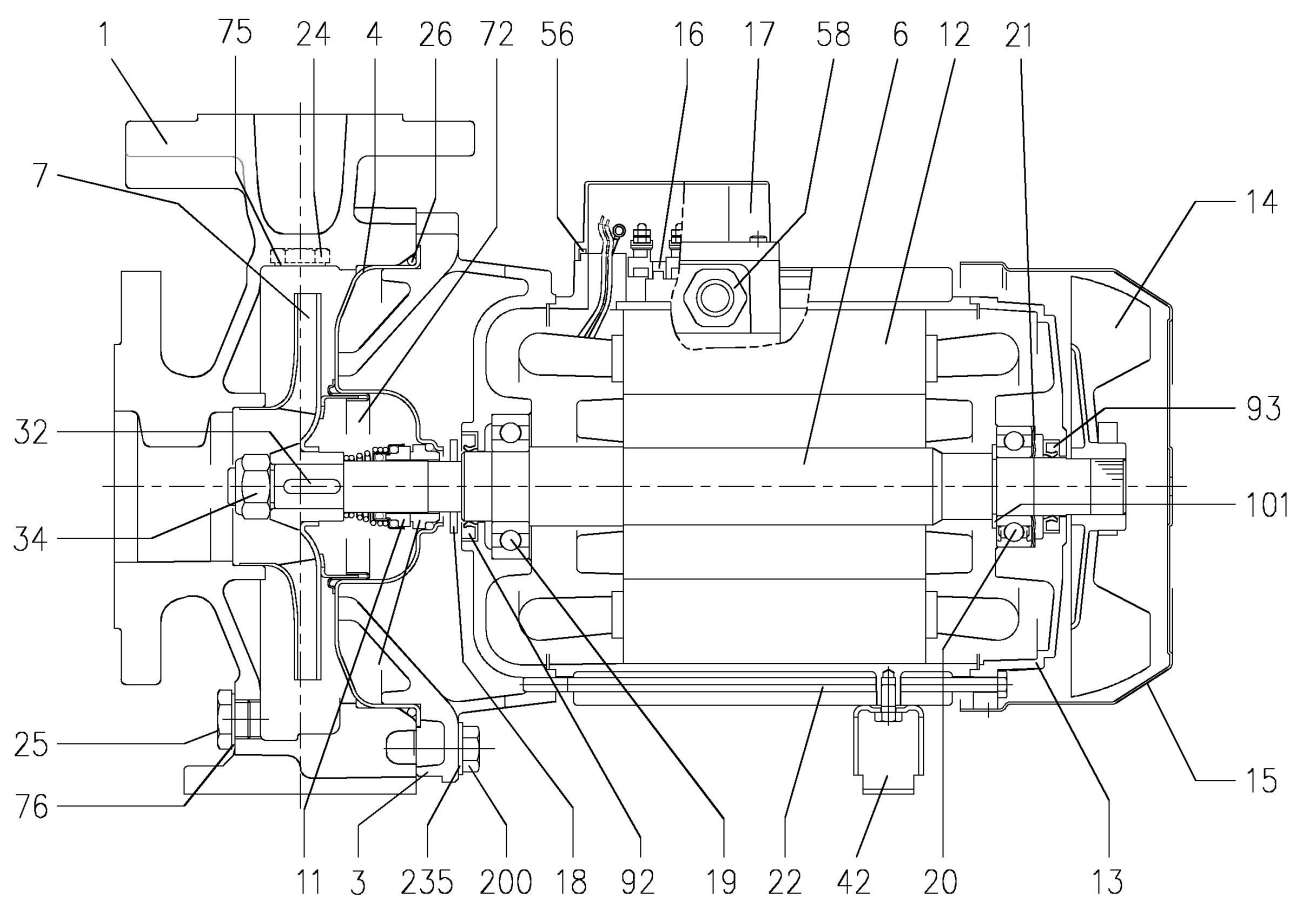


Dimensions in inch							
1	A	10	E	0.47244	V2	PG 16	
2	A1	5	H	11.496	W	2.7559	
3	A2	5	H1	5.1969	Weight kg	62,2 kg	
4	B	20.433	H2	6.2992			
5	C	10.827	H3	5.9055			
6	Dia D1	7.2835	M	3.937			
7	Dia D2	5.9055	N1	7.4803			
8	Dia DN1	2.5591	N2	9.4488			
9	Dia DN2	1.5748	R	3.1496			
10	Dia K1	5.7087	S1	0.7874			
11	Dia K2	4.3307	S2	0.70866			
12	Dia P1	4.8031	T	1.9685			
13	Dia P2	3.4646	V1	PG 13.5			

(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	40x21.5x2 50x29.5x3	EBARA DRAWING	1
019	Bearing	-			1
020	Bearing	-			1
021	Adjusting ring	Steel C70			1
022	Tie rod	Fe 42 Galvanized	M5 M6 M8	EBARA DRAWING	4
	Screw	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	NBR [4]	158.11x5.34 183.52x5.34 227.96x5.34	OR 6625 OR 6720 OR 6895	1
032	Key	EN 1.4401 (AISI 316)	A 6x6x25 A 8x7x30	UNI 6604	1
034	Impeller nut	EN 1.4301 (AISI 304)	M16x1.5 M18x1.5 M20x1.5	UNI 7474	1
042	Foot	Aluminium / Galvanized steel		EBARA DRAWING	[5]
056	Box gasket	NBR			1
058	Cable gland	-			[6]
072	Casing ring	EN 1.4301 (AISI 304)			1
075	Washer	Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer	Aluminum			1
092	Lip seal	-	25x40x7 30x47x7 40x55x7 45x60x7	DIN 3760 without spring	1
093	Lip seal	-	25x40x7 30x47x7 40x55x7 45x60x7	DIN 3760 without spring	1
101	Snap ring	Carbon tool steels TC 80	Ø 40	UNI 7435	1
200	Screw	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30 M 10x35	UNI 5739	8 10 12
235	Washer	Galvanized Steel	8.4x17 10.5x21	UNI 6592	8 10 12

[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

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

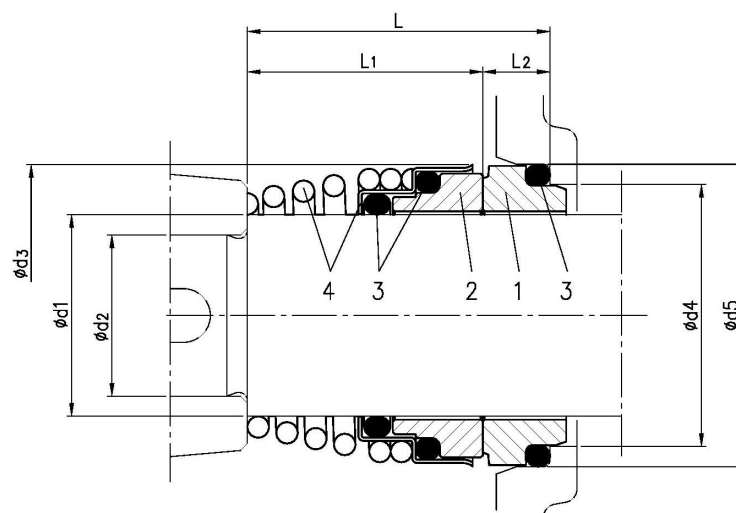
[7] Only for: 32-200, 40-200, 50-160

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

(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				