

3E 80-160/11

Performance Curve

Pump Name

3E 80-160/11

Customer	Date	09.06.2024	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID		E-mail

Requested data

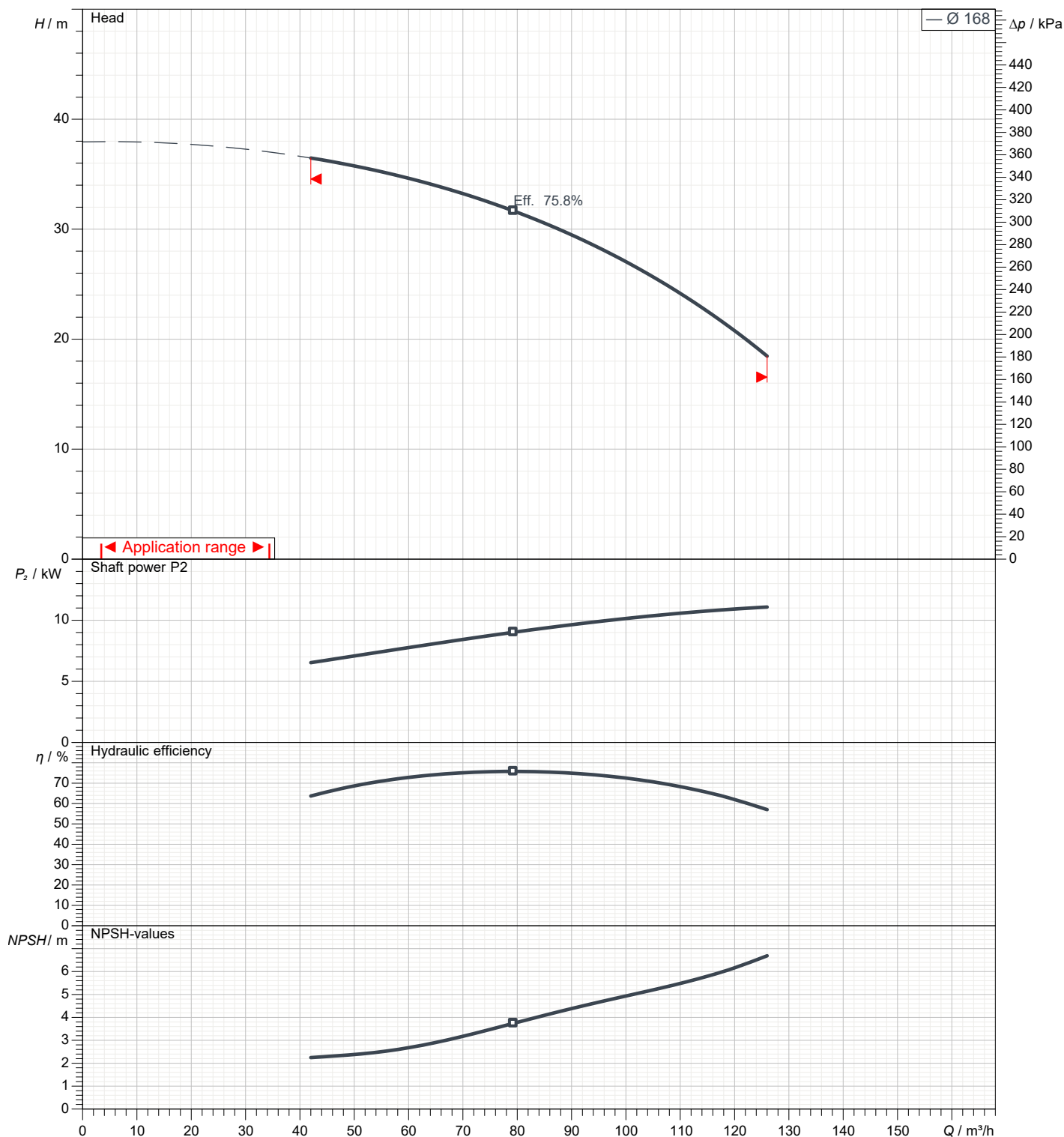
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	168	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

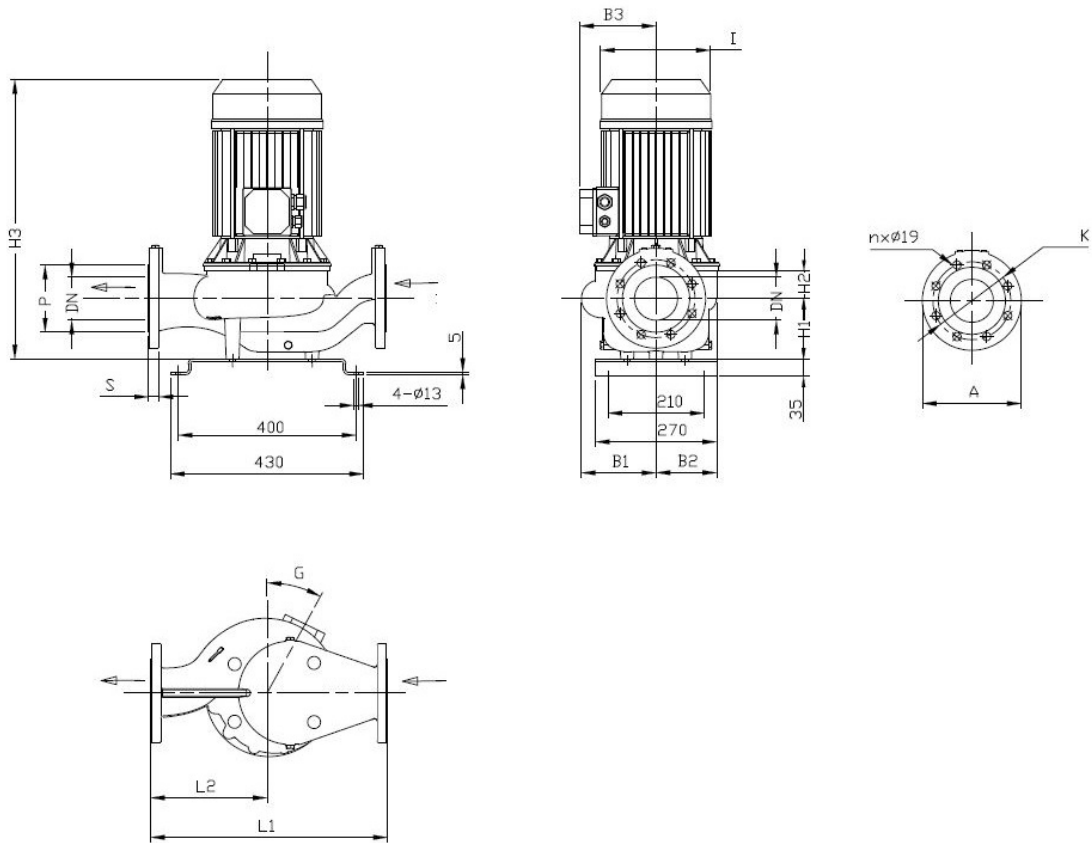
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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Dimensions in mm							
1	A	200	Φ K	160			
2	B1	146	Φ P	132			
3	B2	141					
4	B3	178					
5	G	0					
6	H1	115					
7	H2	50					
8	H3	609					
9	I	259					
10	L1	440					
11	L2	220					
12	n	8(Num)					
13	S	22					
14	Weight P&M&B	93.2 kg					
15	Φ DN	80					

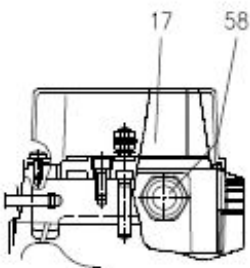
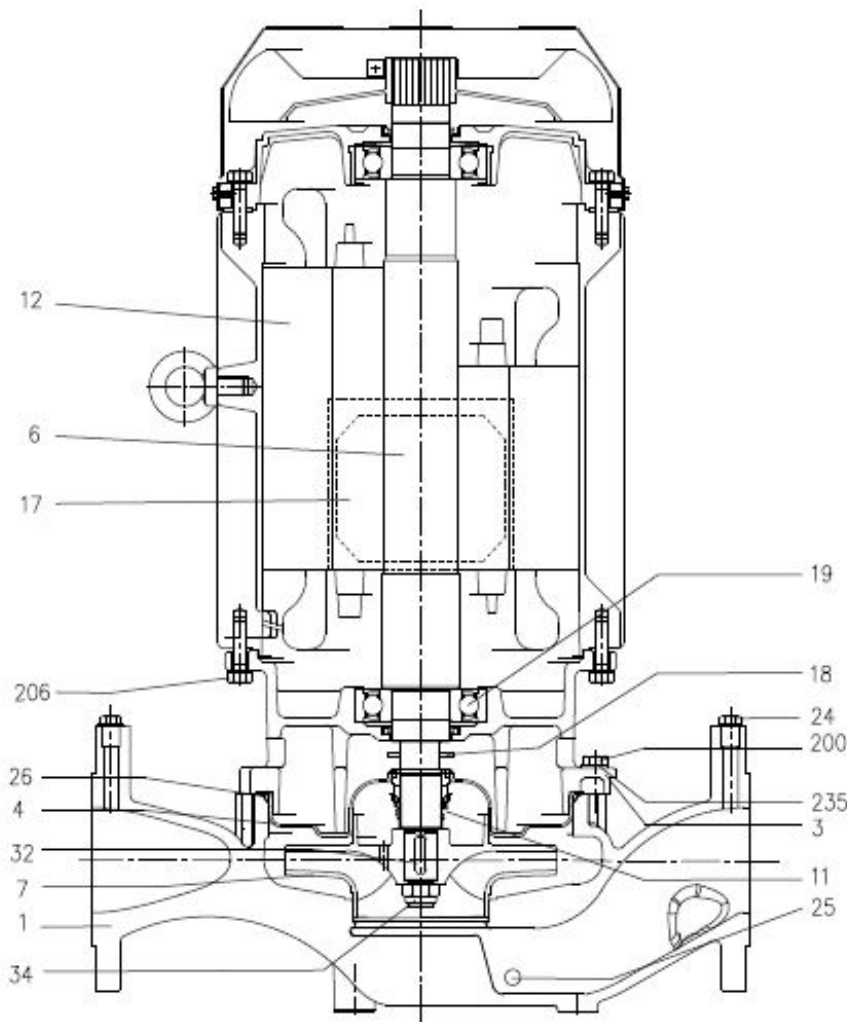
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Construction

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Construction

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No	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)[9]			1
7	Impeller [2]	EN 1.4301(AISI 304)			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	0.37 kW to 0.75 kW Up to 11kW 15 kW and above	25x14.5x2.5	EBARA DRAWING	1
			40x21.5x2		
			50x29.5x3		
19	Bearing	*			1
20	Bearing	*			1
21	Adjusting ring	Steel C70			1
22	Tie rod	Fe 42 Galvanized	M6	EBARA DRAWING	4
			M8		
			M10x40		
24	Plug	Gv. Steel 8.8 strength class ISO 898-1	G 1/4	UNI 5739	2
25	Drain plug	Brass	G 1/4		4
					2
					1
26	O-ring	EPDM[4]	227.96x5.34	OR 6895	1
32	Key	EN 1.4401(AISI 316)	A 6x6x25	UNI 6604	1
			A 8x7x30		
34	Impeller nut	EN 1.4301(AISI 304)	M16x1.5	UNI 7474	1
			M18x1.5		
			M20x1.5		
56	Box gasket	NBR			1
58	Cable gland	-			[5]
72	Casing ring	EN 1.4301 (AISI 304)			1
92	Lip seal		30x47x7	DIN 3760 without spring	1
			40x55x7		
			45x60x7		
93	Lip seal		30x47x7	DIN 3760 without spring	1
			40x55x7		
			45x60x7		
101	Snap Ring [6]	Carbon tool steels TC 80	Ø40	UNI 7435	1
200	Screw	Gv. Steel 8.8 strength class ISO 898-1	M10x35		12
					10
235	Washer	Galvanized Steel	10.5x21x2	UNI 6592	12
206	Screw for Bracket (15kW and above) [7]	Gv. Steel 8.8 strength class ISO 898-1	M10x40	UNI 5739	4

[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 50, 65
EN 1.4401(AISI 316) for 80, 100 series (except 80-100)

[3] See MECHANICAL SEAL page

[4] FPM for Q1AVGG
EPDM for Q1AEGG, Q4Q1EGG

[5] 1 for pumps with motor up to 11 kW
2 for pumps with 15 kW motor and above

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

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

[8] See 3D BEARINGS page

[9] EN1.4404(AISI316L) for 100-160

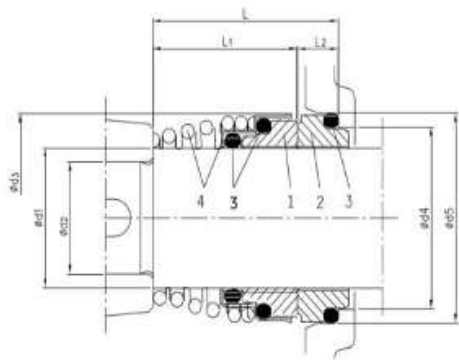
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Version	Pump type	Dimensions [mm]								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Rotary seal ring	2 Stationary seal ring	3 Rubber	4 Frame + Spring
Standard (Q1AEGG)	32-125/160/200 50-100 65-100/0.55-0.75 40-160/200	15	12	26	21	26.9	29	22	7	Silicon Carbide	Metarialsed Carbon	EPDM	EN 1.4401 (AISI 316)
	50-125/160/200 65-100/1.1-1.5 65-125/160/200	22	19	36	31	37	37.5	27.5	10				
	80-100 80-160/9.2-11 80-160/15	30	24	46	39	45	42.5	32.5	10				
	80-200												
	100-160												