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Rev. F

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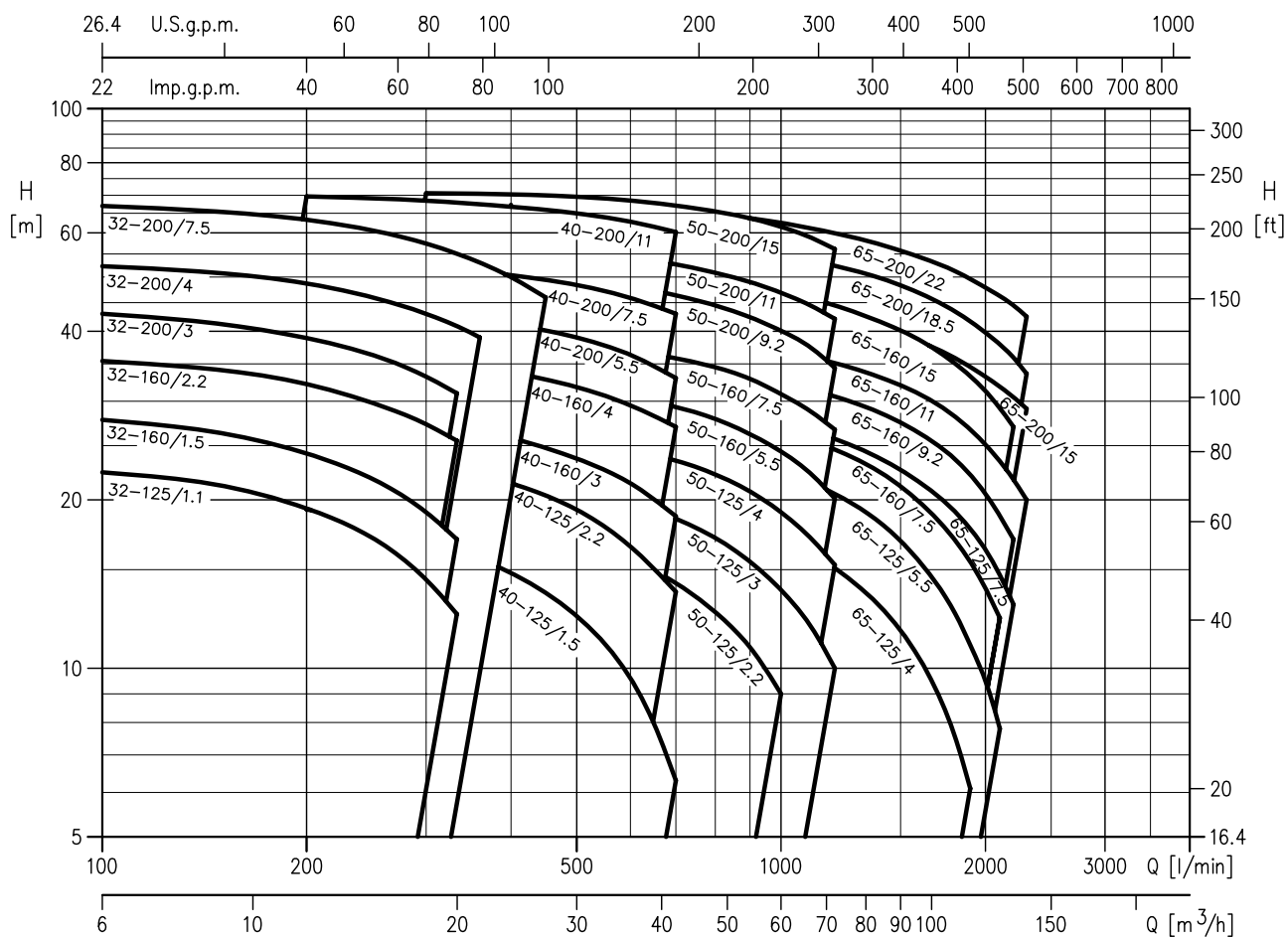
SPECIFICATION

50Hz

Rev. F

PUMP		
Liquid Handled	Type of liquid	Clean water
	Working temperature [°C]	min. -5 max. +90 (Standard, U3U3EGG, U3CEGG, Q1Q1EGG, Q1U3EGG, Q1AEGG) max. +110 (H, HS, HW, HSW version) max. +120 (E version)
Maximum working pressure [MPa]		1
Construction	Impeller	Closed centrifugal type for 32, 40, 50 series Reinforced laser welding for 40-200/11, 50-200/15 Closed centrifugal three dimensional blades for 65 series
	Shaft seal type	Mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction	Flange DN 50, 65 according to EN 1092-2 Flange DN 80 according to UNI 2236-67 (4 holes)
	Discharge	Flange DN 32, 40, 50, 65 according to EN 1092-2
Material	Casing	Cast iron EN-GJL-250-EN 1561
	Impeller	AISI 304 (32, 40, 50 series) AISI 316 made by precision casting (65 series)
	Shaft seal	Ceramic/Carbon/NBR (see Optionals on pag. 307-310)
	Shaft	AISI 304 (wet extension)
	Bracket	Aluminium/Cast iron
Accessory	Counterflange	DN 32, 40, 50, 65, 80 (see pag. 315)
Applicable standard of test		ISO 9906:2012 – Grade 3B

MOTOR				
Type	3D		3DS	3DP
	Electric - TEFC			
	Single Phase	Three Phase		
Efficiency (Reg. 640/2009)	-	IE2 from 1.1 kW to 5.5 kW IE3 from 1.1 kW to 22 kW		
No. of Poles	2			
Rotation speed [min ⁻¹]	≈2900			
Insulation Class	F	F (temperature rise class B)		
Protection degree	IP 55			
Power rating [kW]	1.1 ÷ 2.2	1.1 ÷ 22		
	[HP]	1.5 ÷ 3	1.5 ÷ 30	
Frequency [Hz]	50			
Voltage [V]	230 ±10%	230/400 ±10% (up to 4 kW) 400/690 ±10% (5.5 kW and above)		
Capacitor	Built in	-		
Over load protection	Provided by the user			
Casing material	Aluminium			
Motor support	Cast iron / Aluminium			
Dimensions of cable entry	M20x1.5	PG 13.5, PG 16, PG 21,	M32x1.5, M40x1.5	
		M20x1.5, M25x1.5		
Flange mount (IEC motor)	/		IM B5 (up to 2.2 kW) IM B35 (3.0 kW and above)	IM B3

PERFORMANCE RANGE

SELECTION CHART

3D SERIES 32 SIZE

Pump type	kW	HP	l/min 0	100	150	200	250	300	333	360	400	450
			m³/h 0	6	9	12	15	18	20	21.6	24	27
32-125/1.1(M) *	1.1	1.5	23	22.4	21.2	19.3	17.1	14.4	12.5	-	-	-
32-160/1.5(M) *	1.5	2	28.5	27.5	25.9	23.7	21.3	18.5	16.4	-	-	-
32-160/2.2(M) *	2.2	3	36.7	35.4	34.1	32.2	29.8	27.3	25.5	-	-	-
32-200/3.0	3	4	44	43	41	39	36.5	33	31	-	-	-
32-200/4.0	4	5.5	53	52.5	51	49	46	43	41	39	-	-
32-200/7.5	7.5	10	68	67	65	63	61	57	55	53	50	46

3D SERIES 40 SIZE

Pump type	kW	HP	l/min 0	200	250	300	350	400	450	500	600	700
			m³/h 0	12	15	18	21	24	27	30	36	42
40-125/1.5(M) *	1.5	2	19	18.2	17.6	16.8	15.9	14.8	13.7	12.4	9.6	6.3
40-125/2.2(M) *	2.2	3	25	24.4	23.9	23.2	22.4	21.4	20.4	19.2	16.5	13.7
40-160/3.0	3	4	31	29.4	28.7	27.8	26.8	25.8	24.8	23.7	21.4	18.7
40-160/4.0	4	5.5	38.8	37.2	36.5	35.7	34.8	33.8	32.8	31.8	29.5	27
40-200/5.5	5.5	7.5	45.5	44.5	44	43	42	41	40	39	36.3	33
40-200/7.5	7.5	10	55	53.5	53	52	51.5	50.5	49.5	48.5	46	43
40-200/11	11	15	71	70	69	68.5	67.5	67	66	65	63	60

3D SERIES 50 SIZE

Pump type	kW	HP	l/min 0	400	500	600	700	800	900	1000	1100	1200
			m³/h 0	24	30	36	42	48	54	60	66	72
50-125/2.2(M) *	2.2	3	19.5	18	17	15.7	14.2	12.6	10.9	9	-	-
50-125/3.0	3	4	22.5	21.5	20.8	19.8	18.5	17.1	15.5	13.8	12	10
50-125/4.0	4	5.5	26.5	25.8	25.3	24.5	23.5	22.2	20.7	19	17.2	15.3
50-160/5.5	5.5	7.5	33	32	31.5	30.5	29.3	27.9	26.2	24.4	22.4	20
50-160/7.5	7.5	10	39.5	38.2	37.6	36.9	35.8	34.5	32.9	30.9	28.9	26.7
50-200/9.2	9.2	12.5	51.5	-	49.5	48	46.5	44.5	42.5	40	37.6	34.4
50-200/11	11	15	57.5	-	55.5	54.5	52.5	51	49	47	44.5	42
50-200/15	15	20	71	-	69.5	68.5	67	65.5	63.5	61.5	59	56

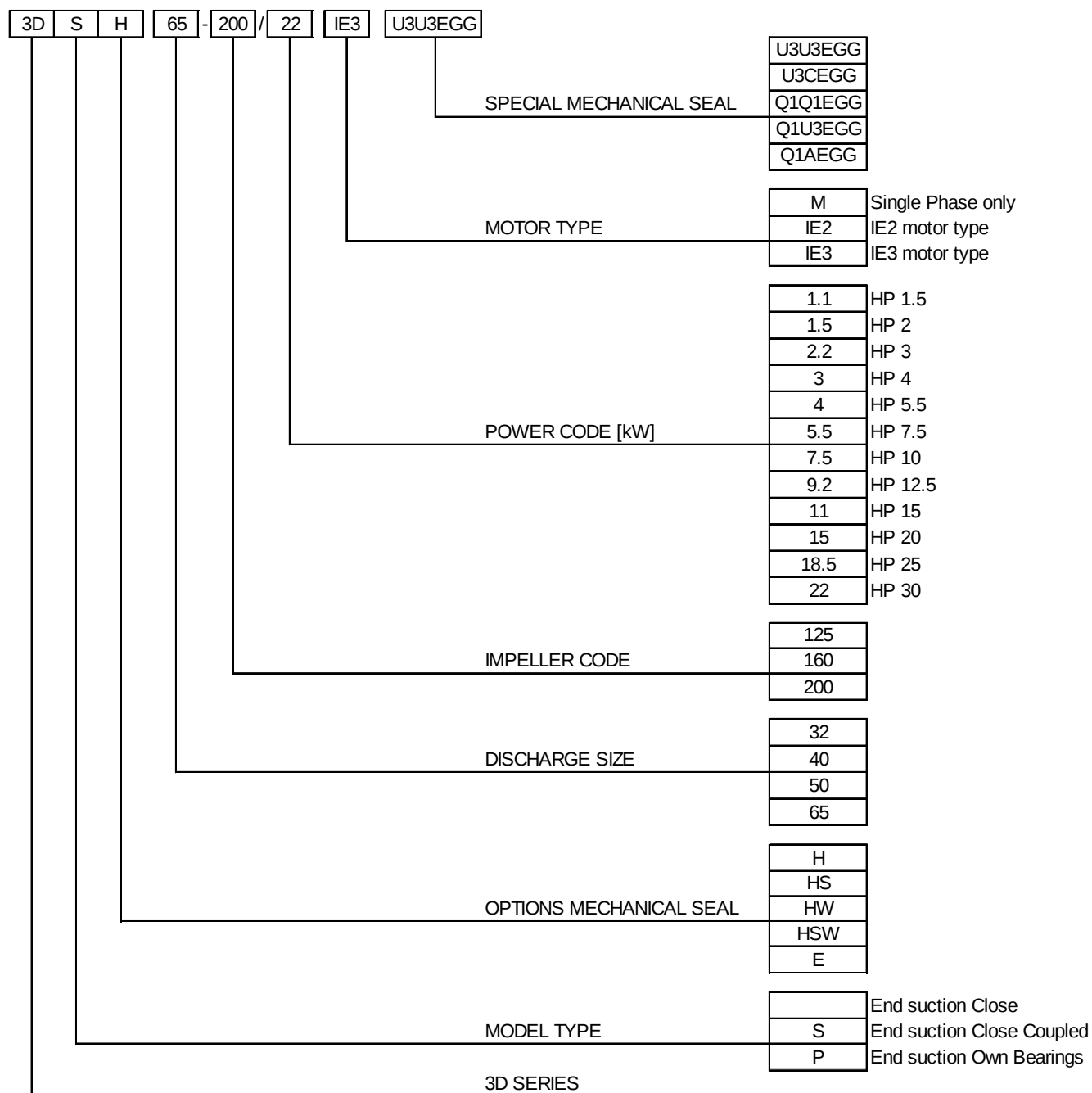
3D SERIES 65 SIZE

Pump type	kW	HP	l/min 0	600	700	1000	1300	1600	1900	2100	2200	2300
			m³/h 0	36	42	60	78	96	114	126	132	138
65-125/4.0	4	5.5	22	20.4	19.8	17.2	14	10.4	6	-	-	-
65-125/5.5	5.5	7.5	26	-	25	22.5	19.4	15.5	11	8	-	-
65-125/7.5	7.5	10	31	-	29.6	27.5	24.7	21.5	17.8	14.7	13	-
65-160/7.5	7.5	10	31.6	-	29	26.6	23.5	19.8	15.5	12.3	-	-
65-160/9.2	9.2	12.5	36.5	-	34.7	32.4	29.6	26.3	22.2	18.8	17	-
65-160/11	11	15	40.5	-	39	37	34	31	27	23	22	20
65-160/15	15	20	48	-	46	44	41.5	38.4	34.6	31.9	30.5	29
65-200/15	15	20	54	-	51	47	43	38.6	33.3	29.2	27	-
65-200/18.5	18.5	25	60	-	58	55	51	47	41.5	37.9	35.9	33.6
65-200/22	22	30	68	-	65.5	62.5	58.5	54.5	49.5	46	44.5	42.5

* Single phase version only for 3D type

TYPE KEY AND CURVE SPECIFICATIONS**50Hz**

Rev. F

TYPE KEY

PERFORMANCE CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to Test standard: ISO 9906:2012 – Grade 3B

The curves refer to effective speed of asynchronous motors at 50 Hz, 2 poles.

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

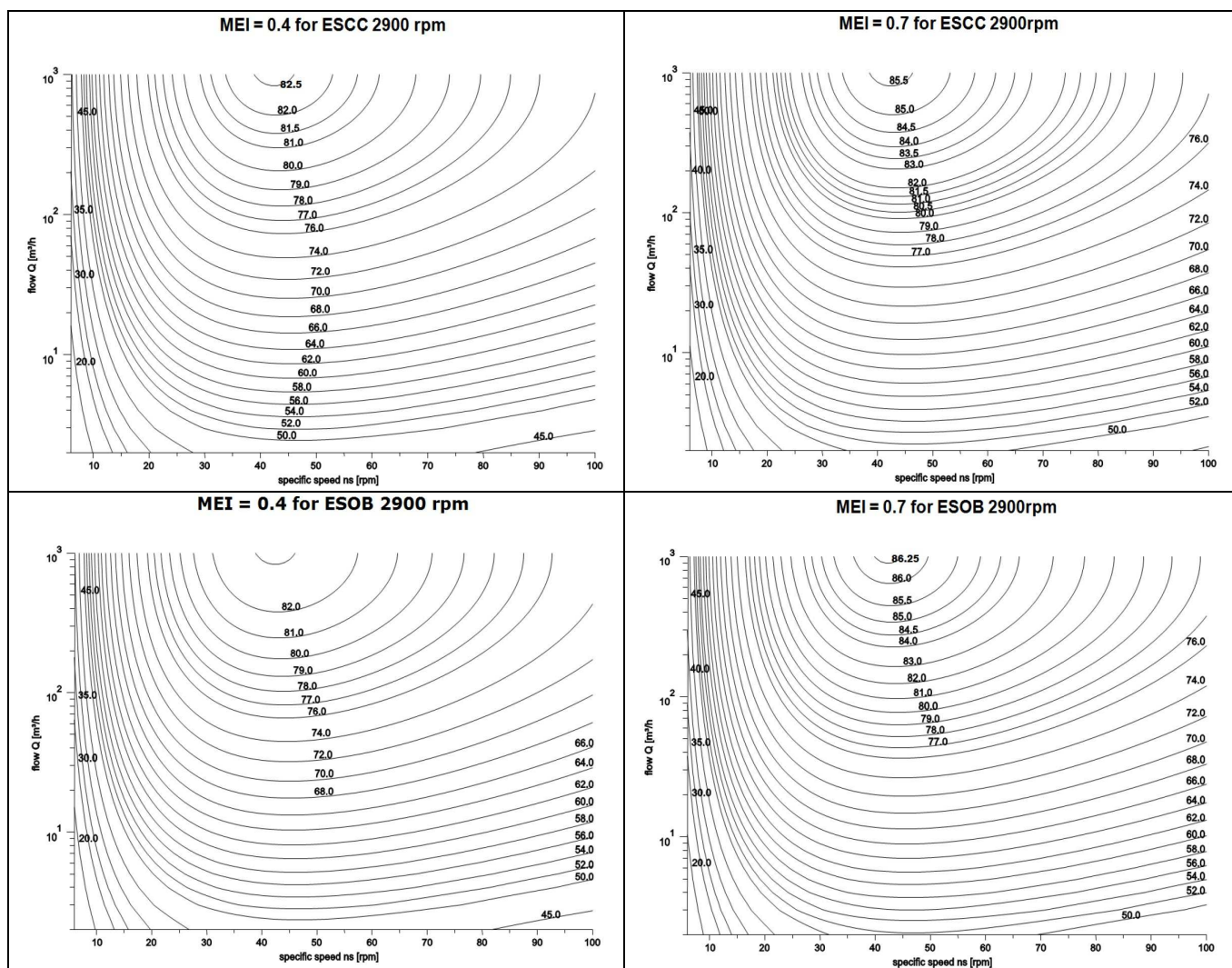
- Q = volume flow rate
- H = total head
- P₂ = pump power input (shaft power)
- η = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

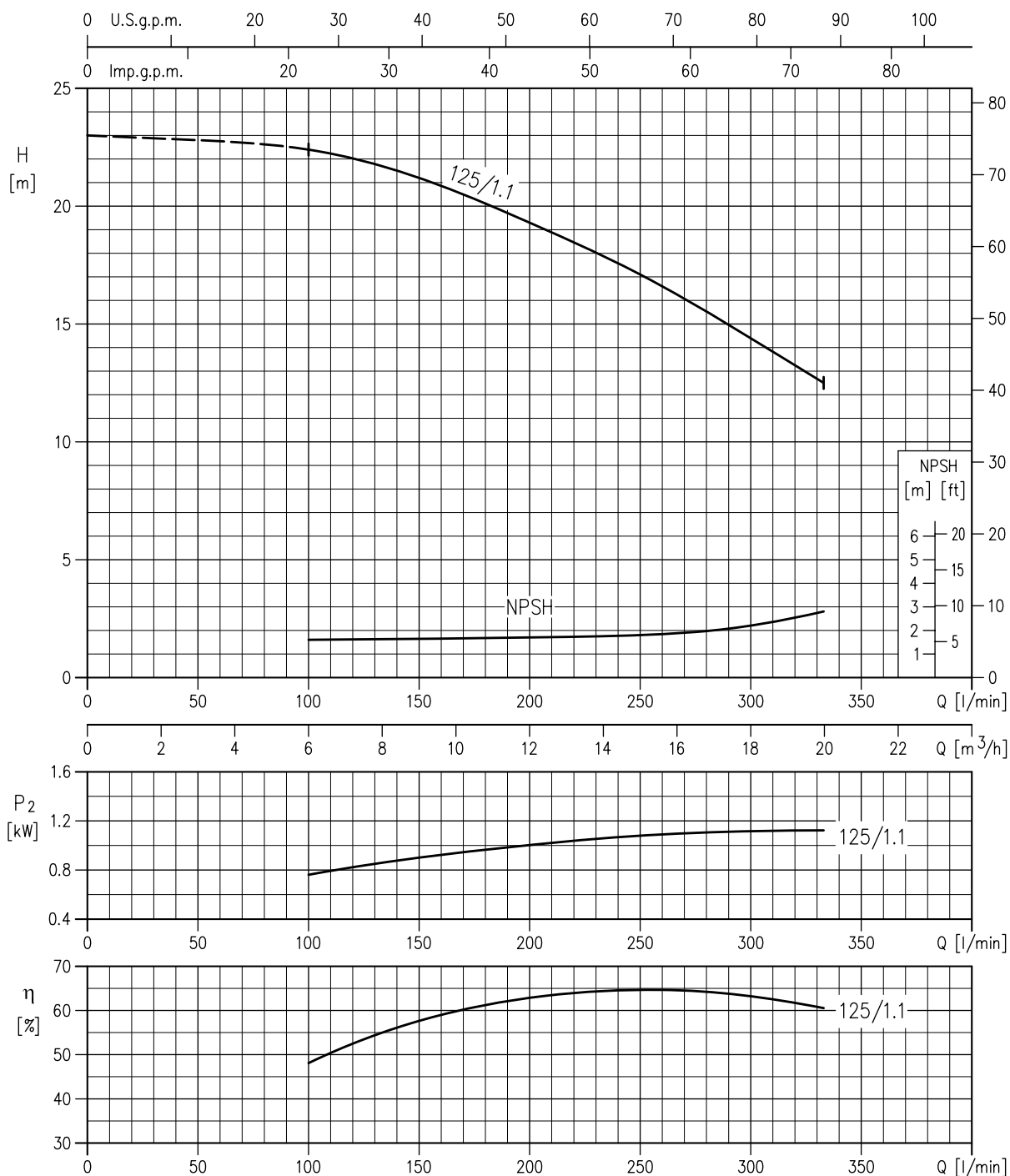
MEI INDEX SPECIFICATION

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

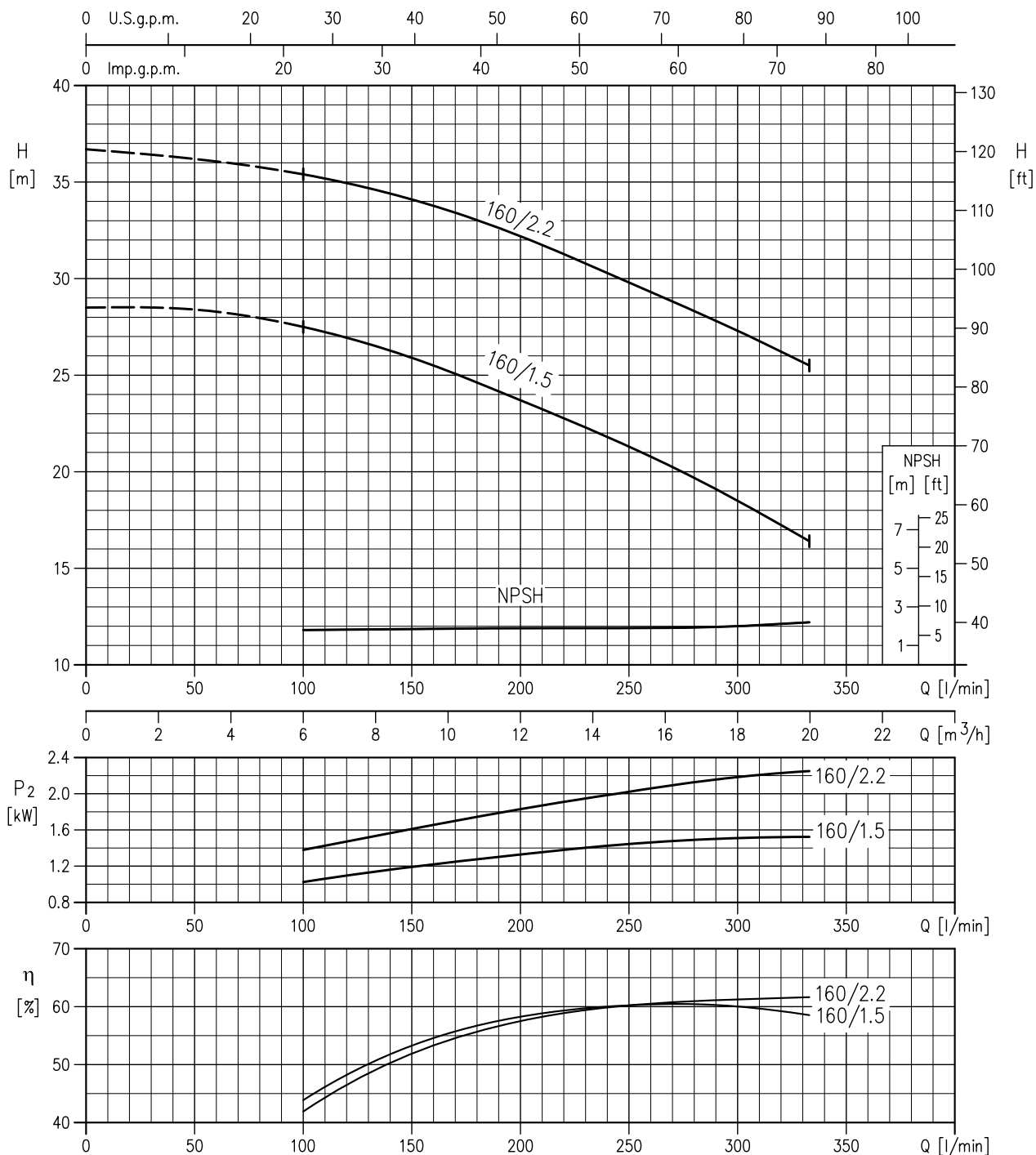
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.

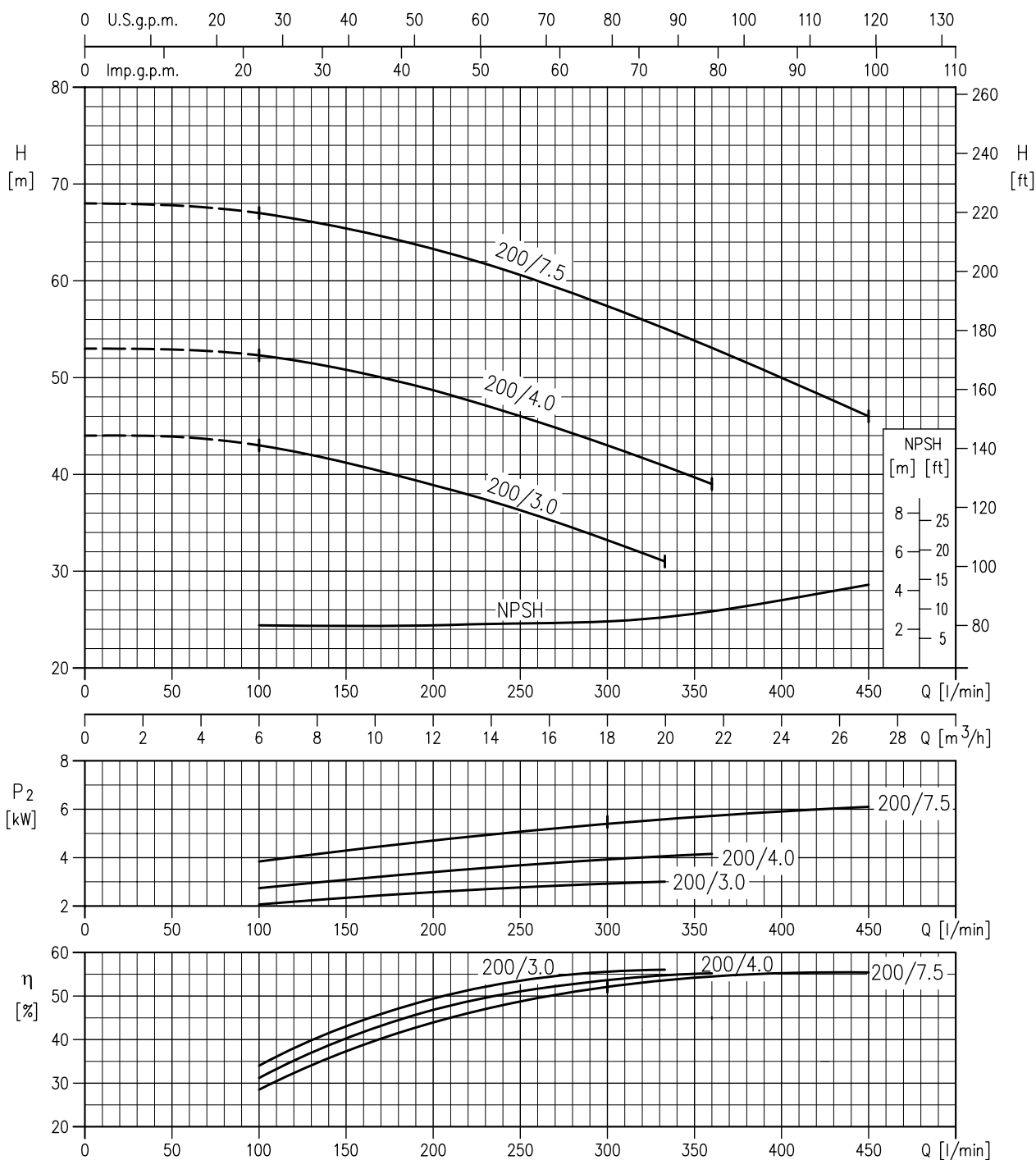


32-125/1.1 (1.1kW) MEI > 0.70 – impeller diameter = 133 mmRotation speed $\approx 2900 \text{ min}^{-1}$

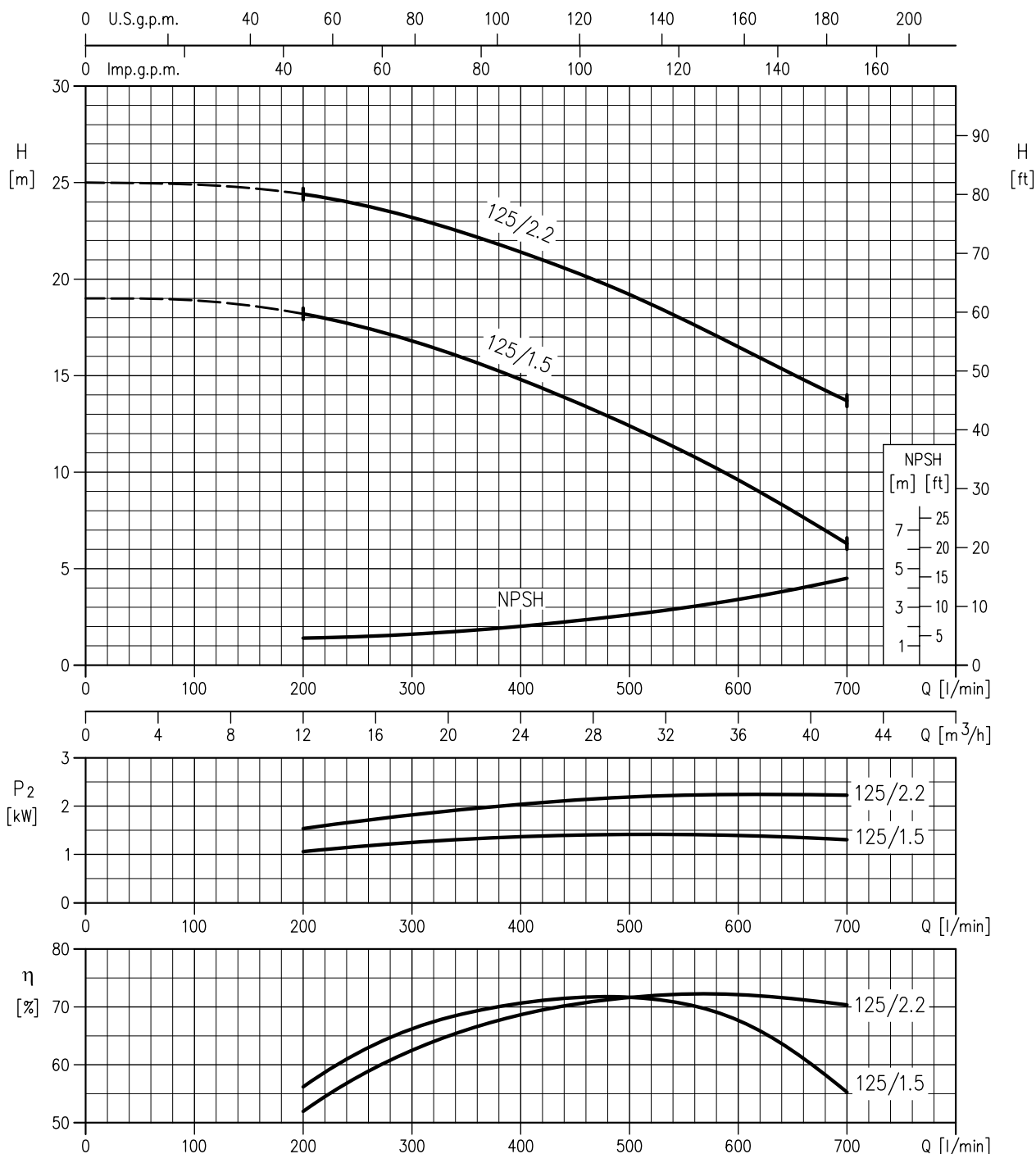
Test standard: ISO 9906:2012 – Grade 3B

32-160/1.5 (1.5kW) MEI > 0.70 – impeller diameter = 151 mm**32-160/2.2 (2.2kW) MEI > 0.70 – impeller diameter = 166 mm**Rotation speed $\approx 2900 \text{ min}^{-1}$

Test standard: ISO 9906:2012 – Grade 3B

32-200/3.0 (3.0kW) MEI > 0.40 – impeller diameter = 186 mm**32-200/4.0 (4.0kW) MEI > 0.40 – impeller diameter = 200 mm****32-200/7.5 (7.5kW) MEI > 0.50 – impeller diameter = 224 mm**Rotation speed $\approx 2900 \text{ min}^{-1}$

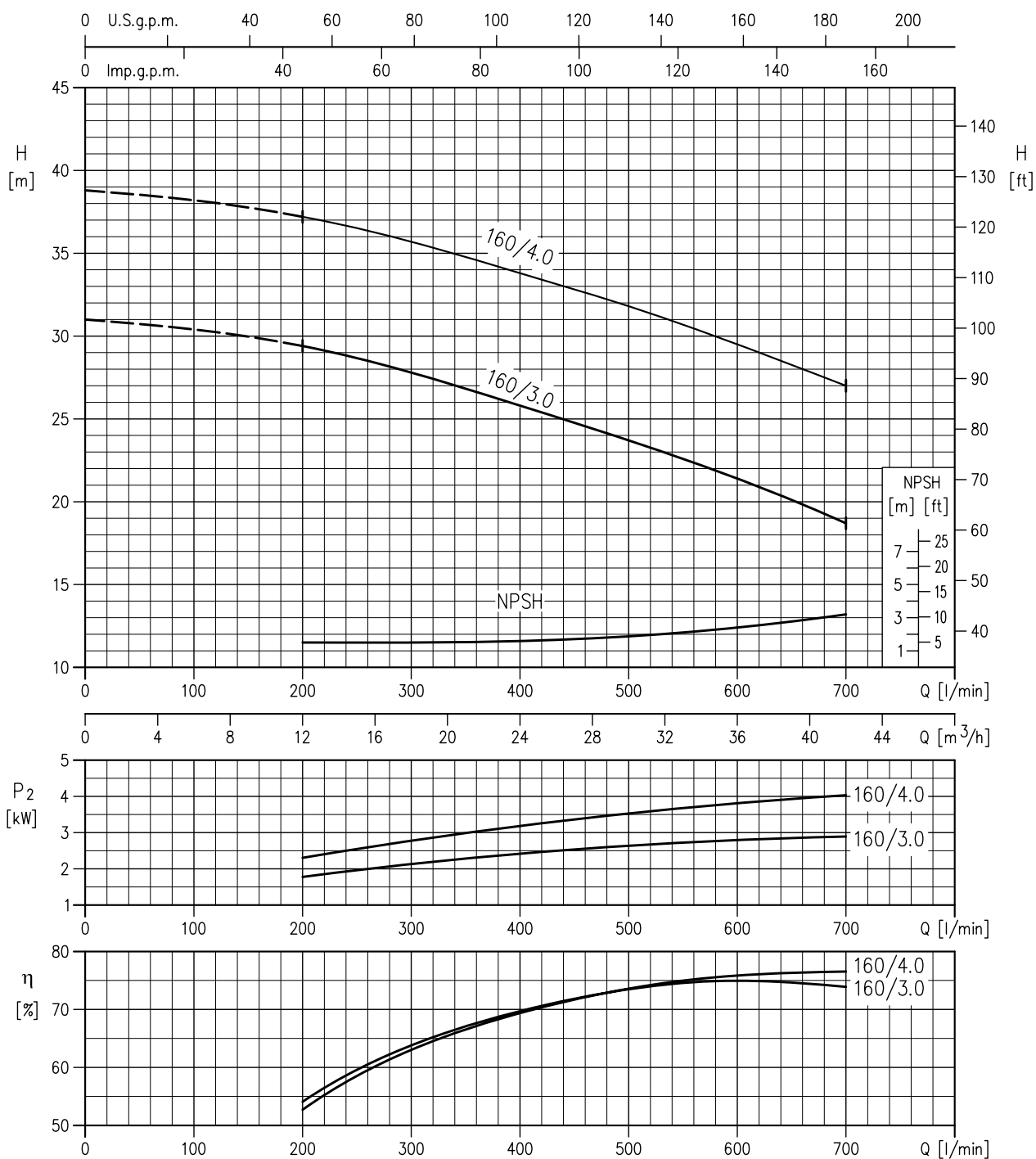
Test standard: ISO 9906:2012 – Grade 3B

40-125/1.5 (1.5kW) MEI > 0.50 – impeller diameter = 125 mm**40-125/2.2 (2.2kW) MEI > 0.50 – impeller diameter = 140 mm**Rotation speed $\approx 2900 \text{ min}^{-1}$

Test standard: ISO 9906:2012 – Grade 3B

40-160/3.0 (3.0kW) MEI > 0.70 – impeller diameter = 151 mm

40-160/4.0 (4.0kW) MEI > 0.70 – impeller diameter = 166 mm

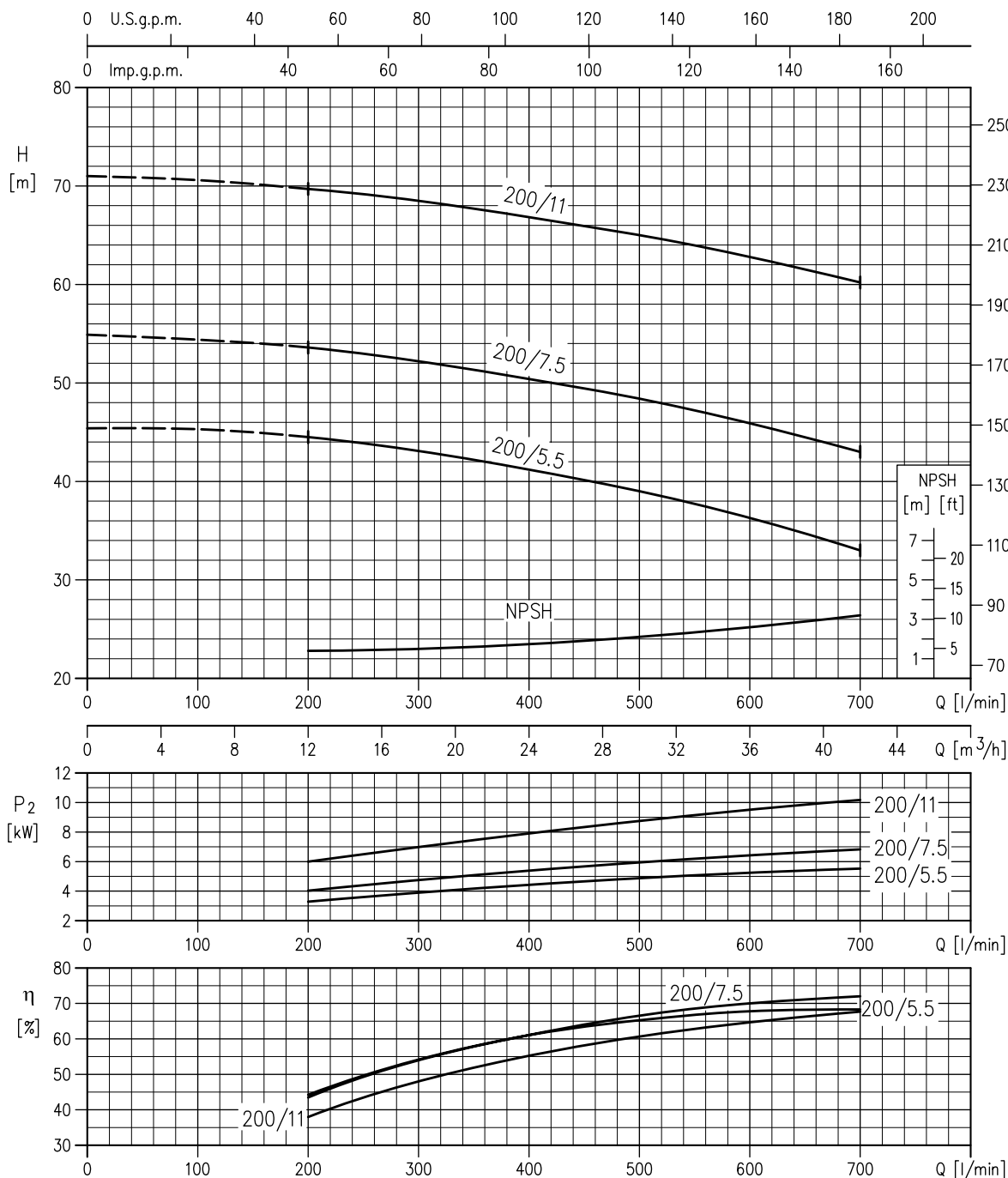
Rotation speed $\approx 2900 \text{ min}^{-1}$

Test standard: ISO 9906:2012 – Grade 3B

40-200/5.5 (5.5kW) MEI > 0.70 – impeller diameter = 183 mm

40-200/7.5 (7.5kW) MEI > 0.70 – impeller diameter = 200 mm

40-200/11 (11kW) MEI > 0.70 – impeller diameter = 224 mm

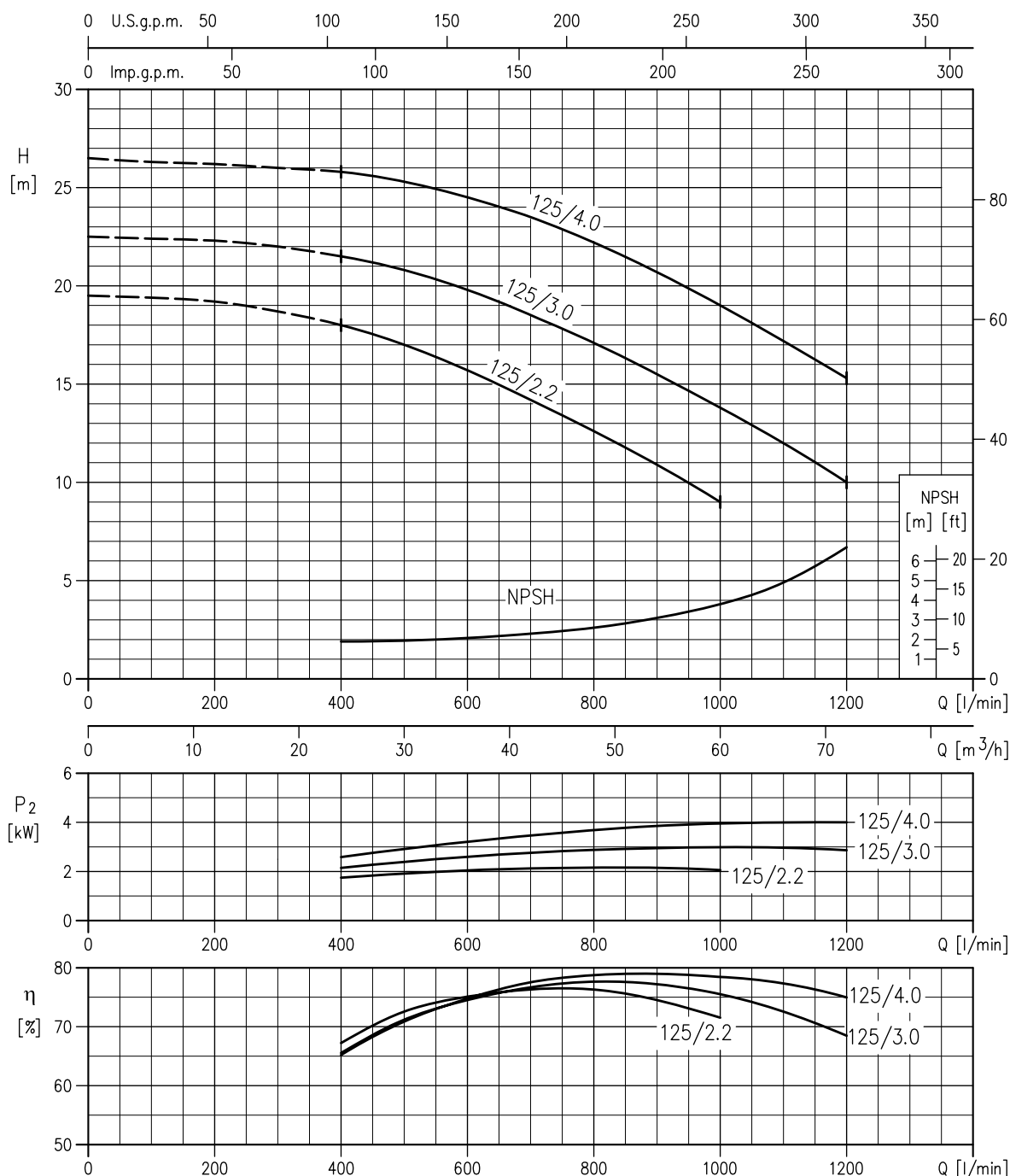
Rotation speed $\approx 2900 \text{ min}^{-1}$

Test standard: ISO 9906:2012 – Grade 3B

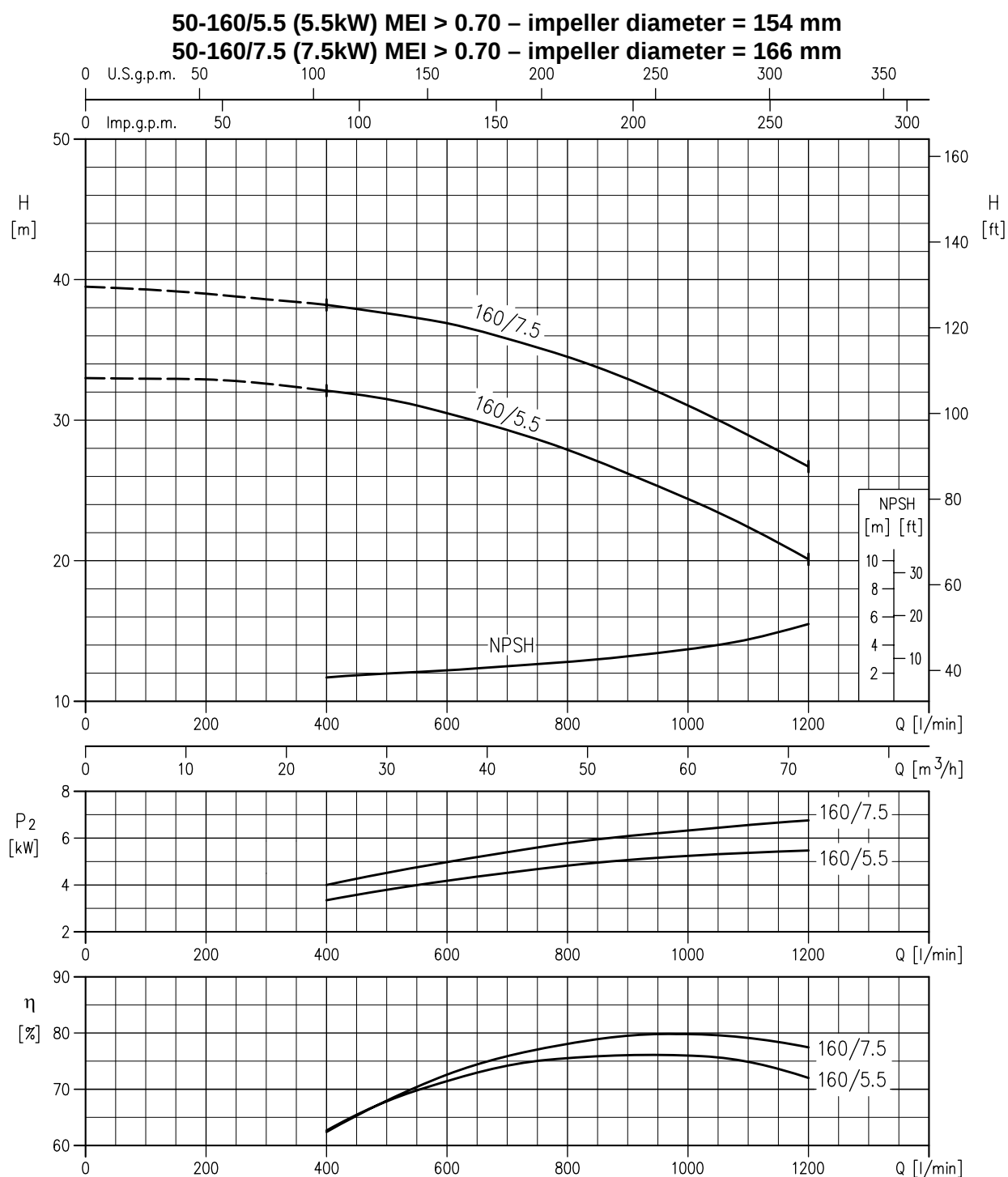
50-125/2.2 (2.2kW) MEI > 0.60 – impeller diameter = 126 mm

50-125/3.0 (3.0kW) MEI > 0.60 – impeller diameter = 131 mm

50-125/4.0 (4.0kW) MEI > 0.60 – impeller diameter = 140 mm

Rotation speed $\approx 2900 \text{ min}^{-1}$

Test standard: ISO 9906:2012 – Grade 3B

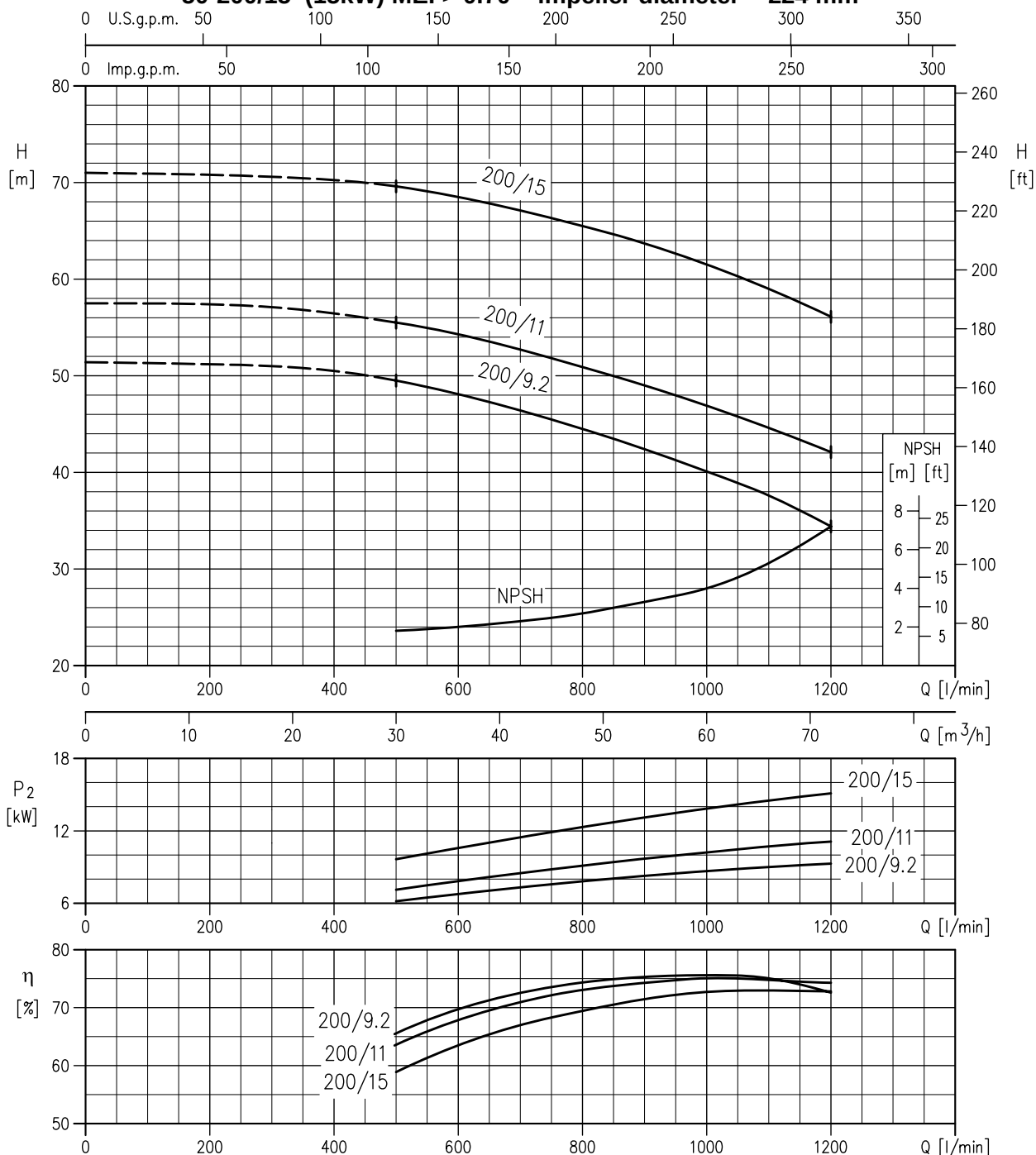


Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 – Grade 3B

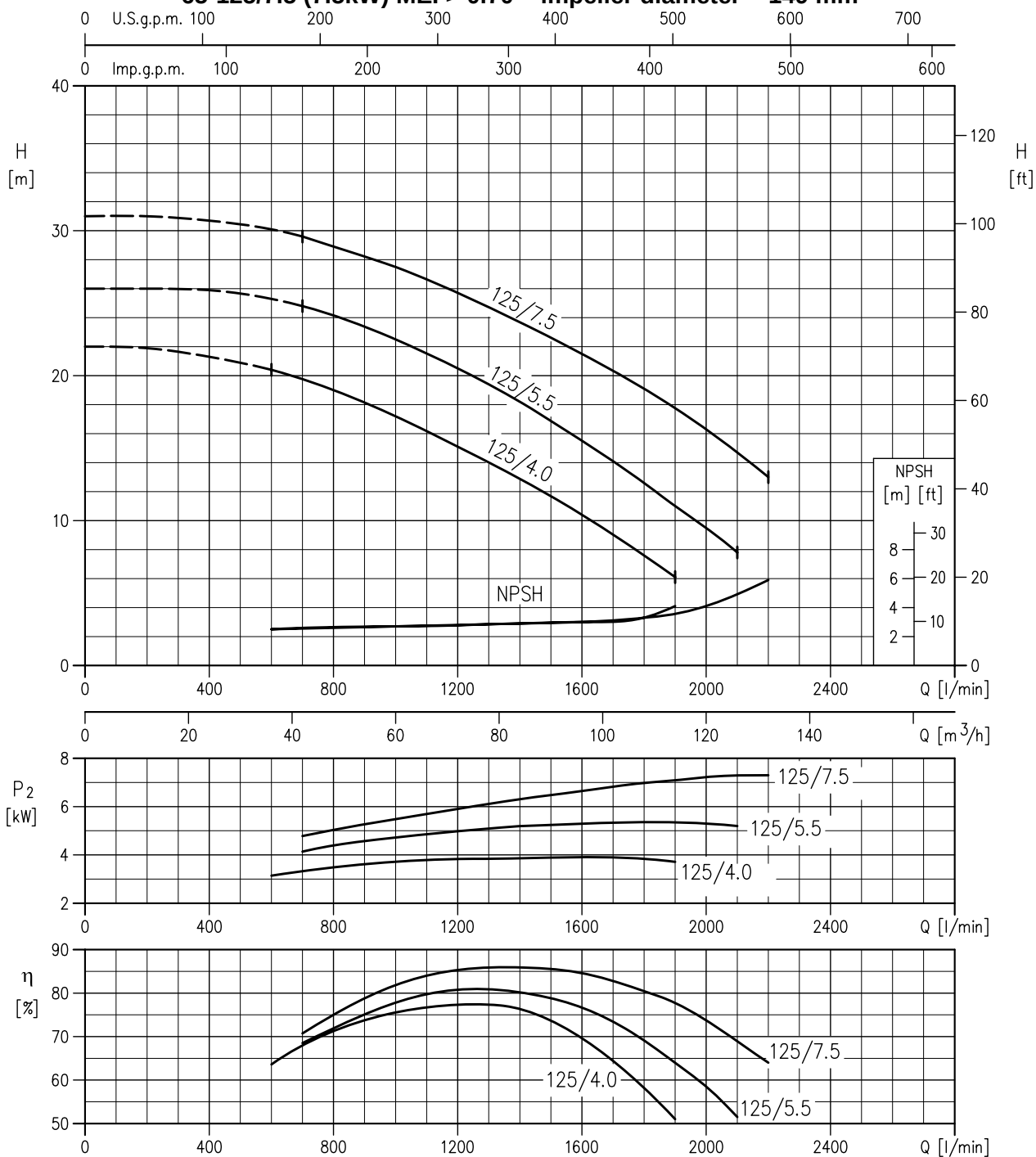
50-200/9.2 (9.2kW) MEI > 0.70 – impeller diameter = 191 mm

50-200/11 (11kW) MEI > 0.70 – impeller diameter = 200 mm

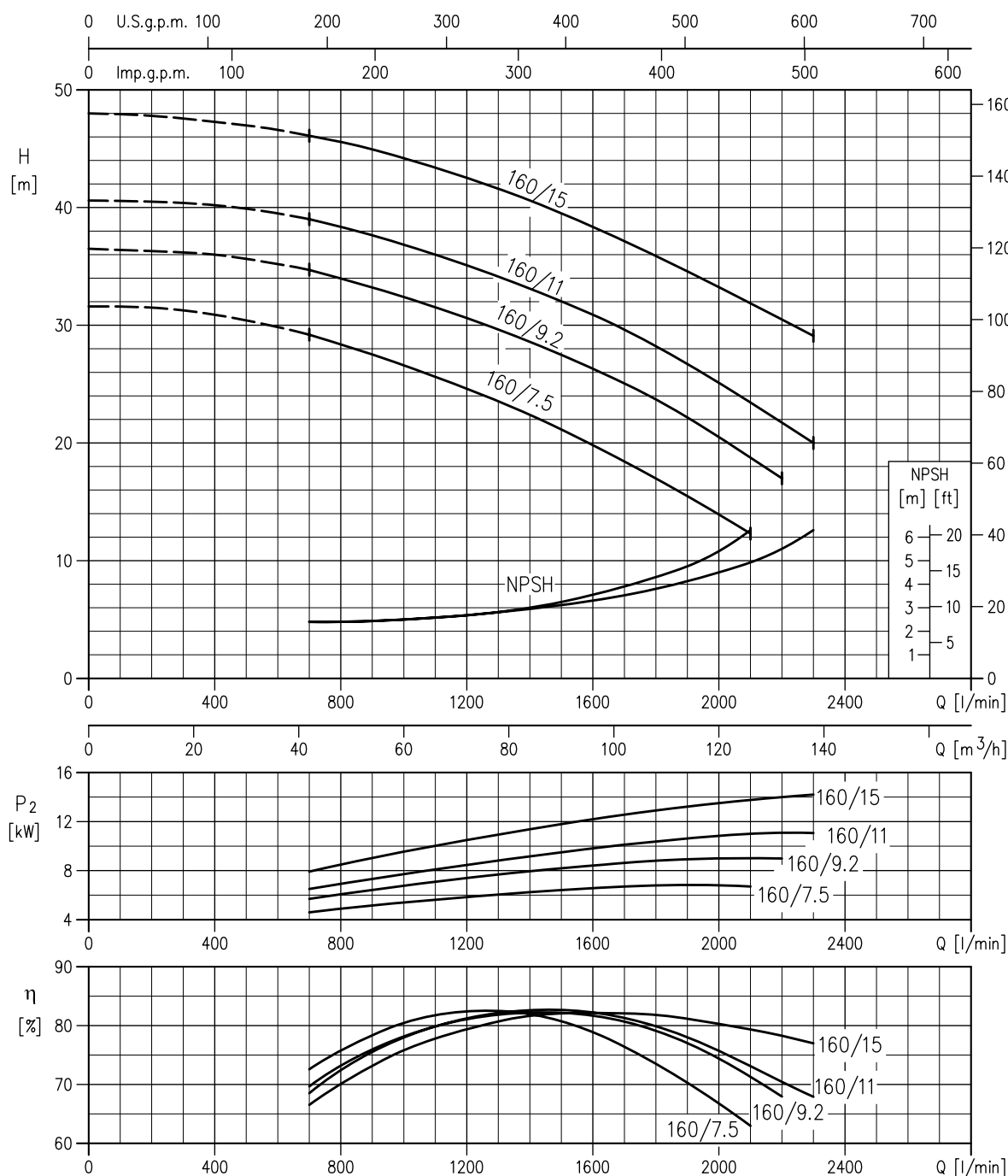
50-200/15 (15kW) MEI > 0.70 – impeller diameter = 224 mm

Rotation speed $\approx 2900 \text{ min}^{-1}$

Test standard: ISO 9906:2012 – Grade 3B

65-125/4.0 (4.0kW) MEI > 0.70 – impeller diameter = 128 mm**65-125/5.5 (5.5kW) MEI > 0.70 – impeller diameter = 138 mm****65-125/7.5 (7.5kW) MEI > 0.70 – impeller diameter = 149 mm**

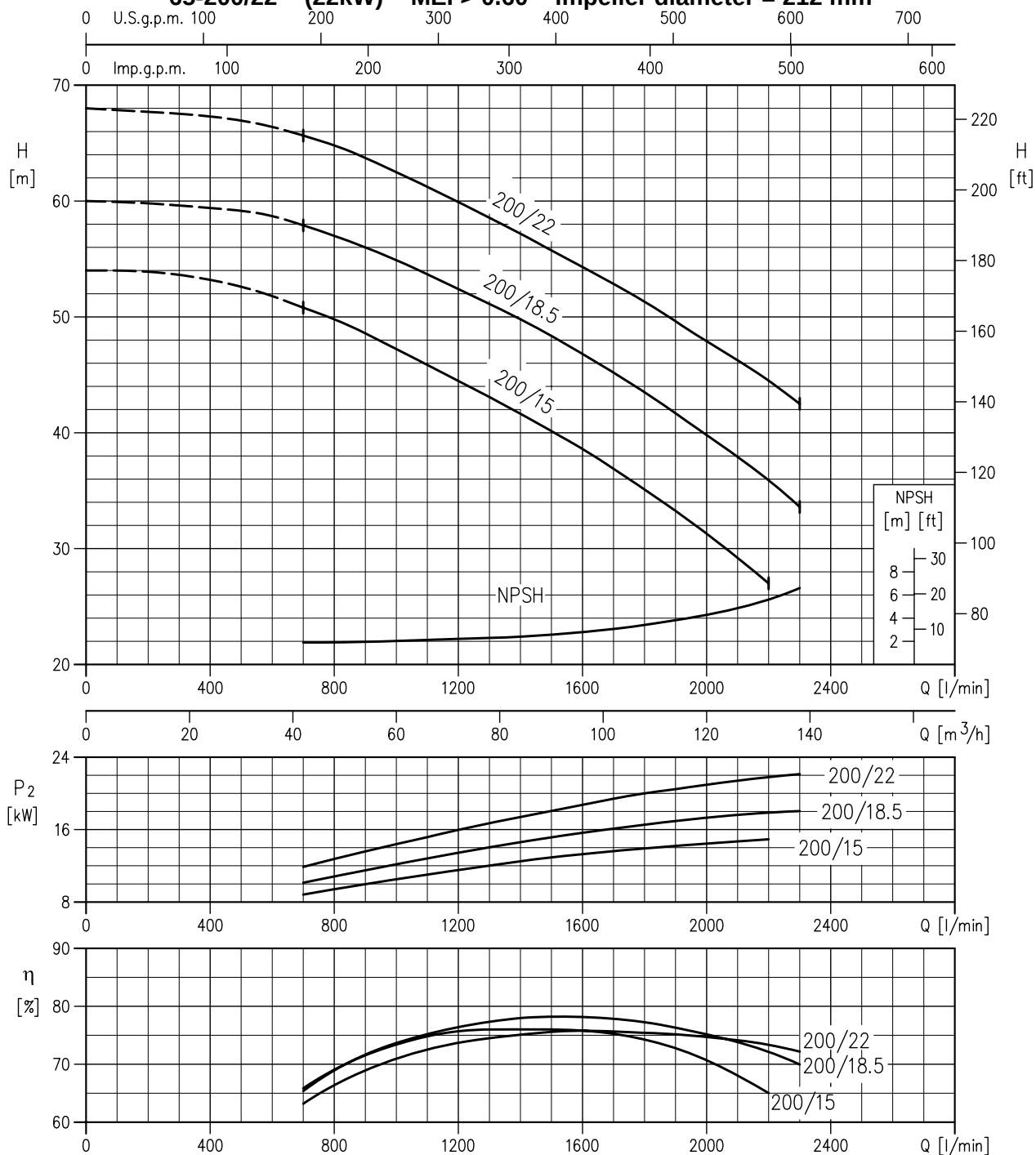
Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 – Grade 3B

65-160/7.5 (7.5kW) MEI > 0.70 – impeller diameter = 153 mm**65-160/9.2 (9.2kW) MEI > 0.70 – impeller diameter = 160 mm****65-160/11 (11kW) MEI > 0.70 – impeller diameter = 168 mm****65-160/15 (15kW) MEI > 0.70 – impeller diameter = 178 mm**Rotation speed $\approx 2900 \text{ min}^{-1}$

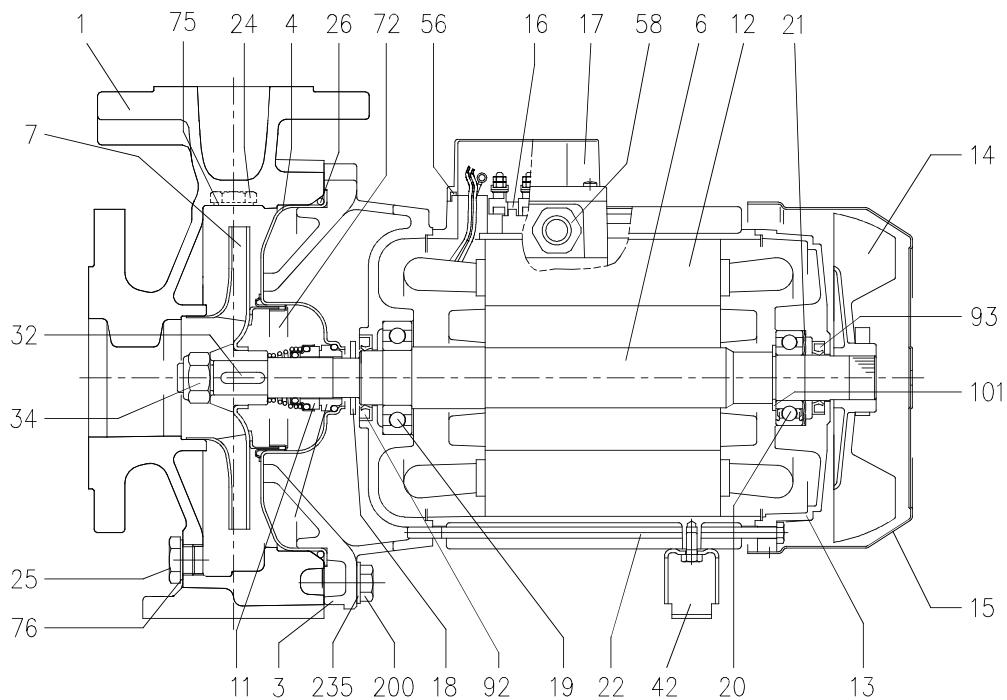
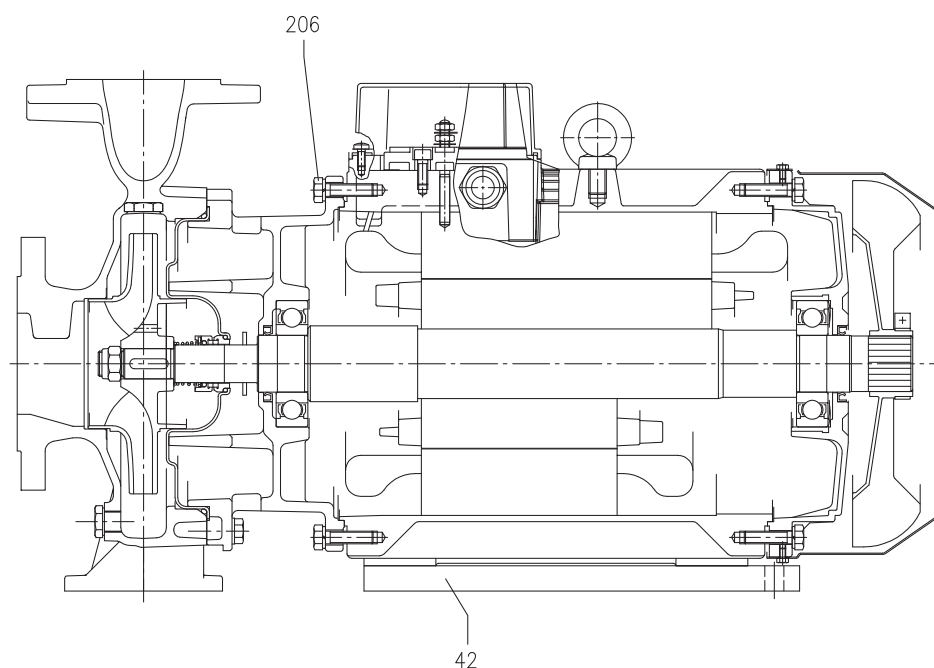
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE**50Hz**

Rev. F

65-200/15 (15kW) MEI > 0.60 – impeller diameter = 190 mm**65-200/18.5 (18.5kW) MEI > 0.60 – impeller diameter = 201 mm****65-200/22 (22kW) MEI > 0.60 – impeller diameter = 212 mm**

Rotation speed $\approx 2900 \text{ min}^{-1}$
 Test standard: ISO 9906:2012 – Grade 3B

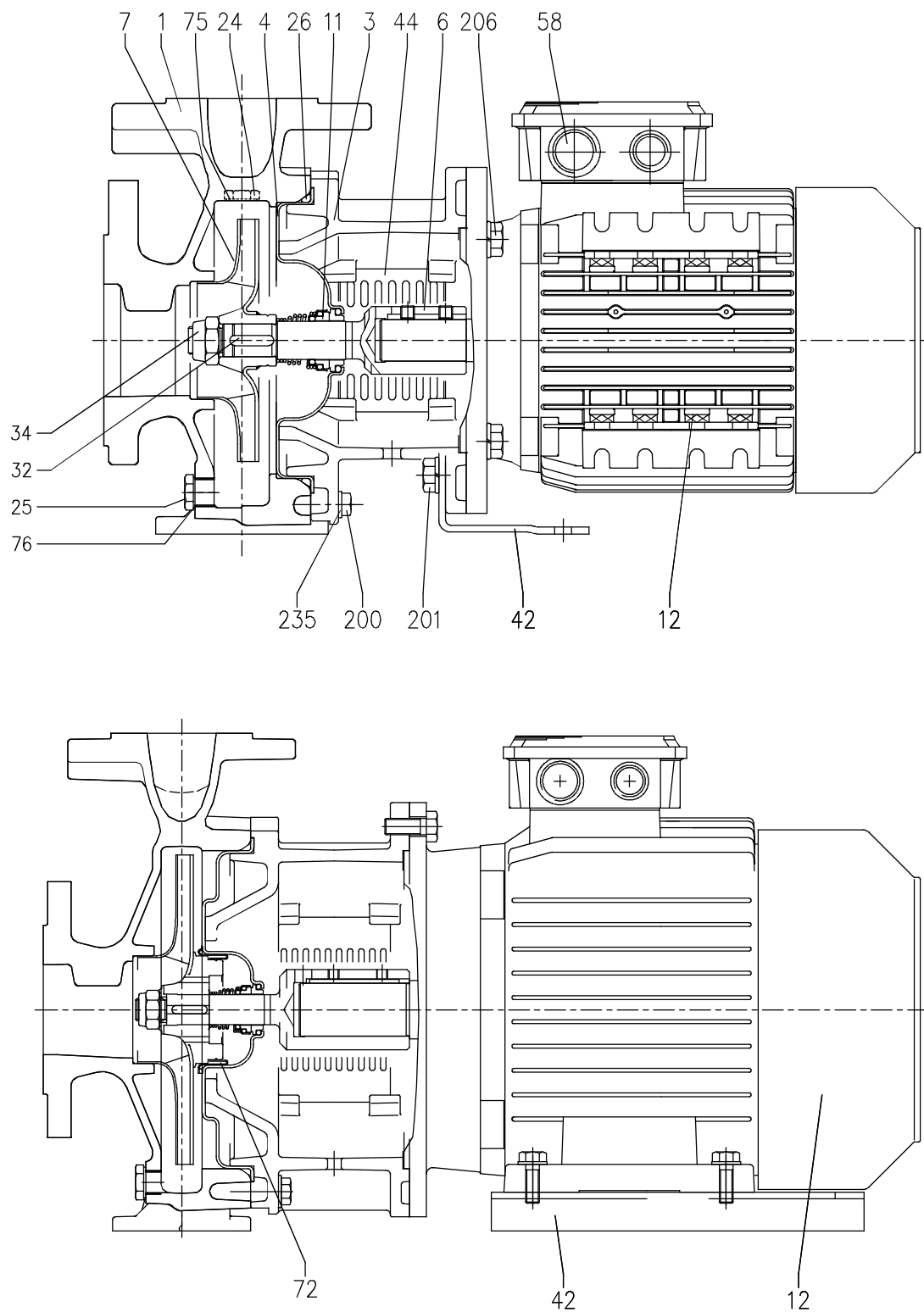
SECTIONAL VIEW DRAWING 3D 32, 40, 50, 65**UP TO 11 kW****15 kW AND ABOVE**

3D SECTIONAL VIEW TABLE

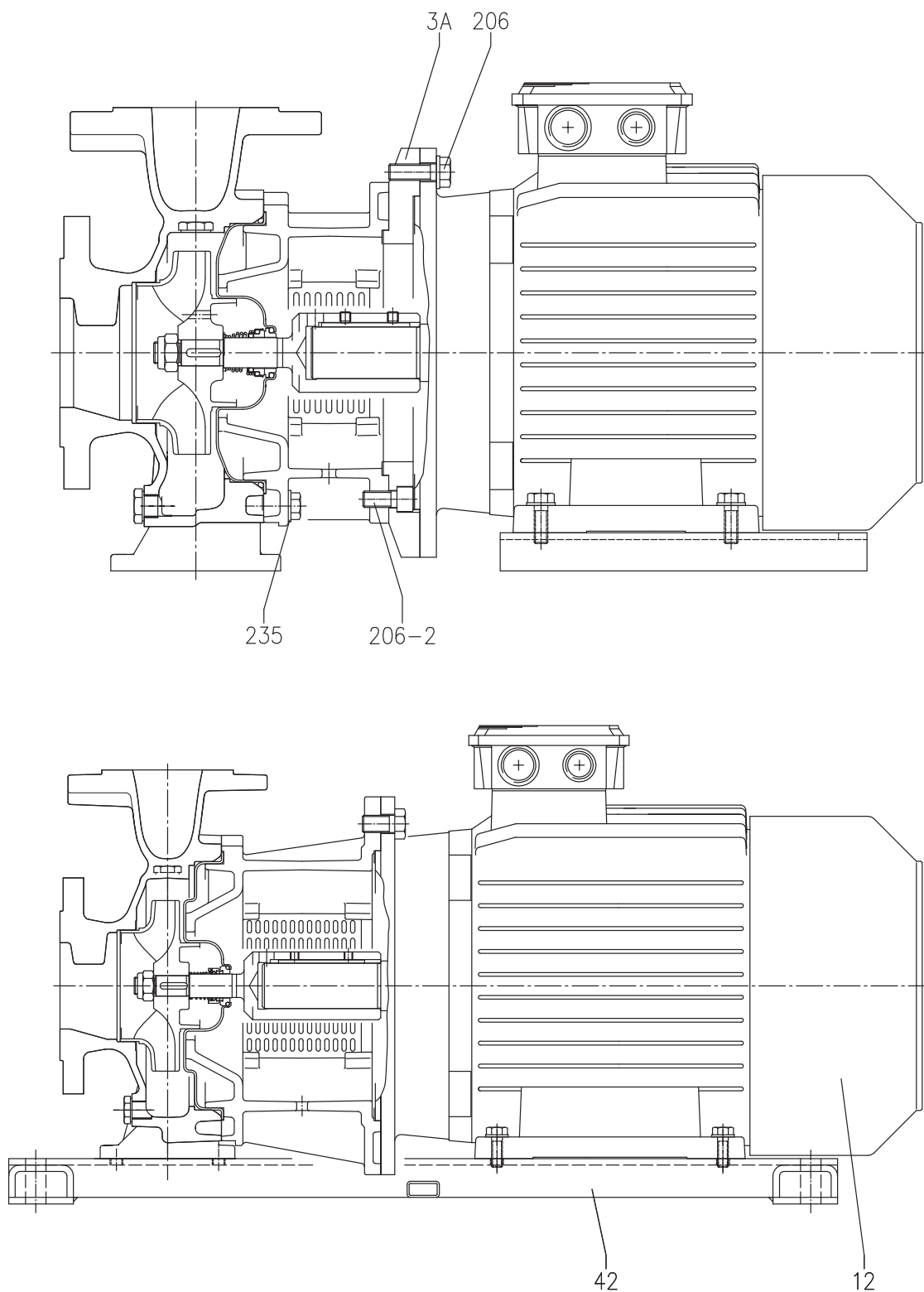
N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	Cast iron EN-GJL-250-EN 1561			1
003	Motor bracket	[1]			1
004	Casing cover	EN 1.4301 (AISI 304)			1
006	Shaft with rotor - Wet extension	EN 1.4301 (AISI 304)			1
007	Impeller	[2]			1
011	Mechanical seal	[3]	[3]		1
012	Motor frame with stator	-			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 15 kW and above	NBR 40x21.5x2 50x29.5x3	EBARA DRAWING	1
019	Bearing	-	See table p. 311		1
020	Bearing	-	See table p. 311		1
021	Adjusting ring	Steel C70			1
022	Tie rod	Up to 3 kW For 4 - 5.5 - 7.5 kW 9.2 e 11kW	Fe 42 Galvanized M5 M6 M8	EBARA DRAWING	4
24	Priming plug	15 kW and above	Gv. Steel 8.8 strenght class ISO 898-1 M10x40	UNI 5739	1
25	Draining plug		Brass G 3/8" L=8		1
026	"O" ring	32-125, 40-125 32-160, 40-160, 50-125, 65-125 32-200, 40-200, 50-160, 50-200, 65-160, 65-200	NBR [4] 158.11x5.34 183.52x5.34 227.96x5.34	OR 6625 OR 6720 OR 6895	1
032	Key	Up to 11 kW 50-200/15 15 kW and above	EN 1.4401 (AISI 316) A 6x6x25 A 8x7x30	UNI 6604	1
034	Impeller nut	Up to 11kW 50-200/15 15 kW and above	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		Aluminium		1
076	Washer		Aluminium	EBARA DRAWING	1
092	Lip seal	Up to 3kW From 4 to 7.5 kW From 9.2 kW to 11 kW From 15 kW to 22 kW	- 25x40x7 30x47x7 40x55x7 45x60x7	DIN 3760 without spring	1
093	Lip seal	Up to 4 kW From 5.5 kW to 7.5 kW From 9.2 kW to 11 kW From 15 kW to 22 kW	- 25x40x7 30x47x7 40x55x7 45x60x7	DIN 3760 without spring	1
101	Snap ring	[8]	Carbon tool steels TC 80 Ø 40	UNI 7435	1
200	Screw	32-125 40-125 32-160 40-160 50-125 65-125 32-200, 40-200 50-160, 50-200 65-160, 65-200	Gv. Steel 8.8 strenght class ISO 898-1 M 8x30 M 10x35	UNI 5739	8 10 12
235	Washer	32-125 40-125 32-160 40-160 50-125 65-125 32-200, 40-200 50-160, 50-200 65-160, 65-200	Galvanized Steel 8.4x17 10.5x21	UNI 6592	8 10 12
206	Screw for bracket	[9]	Gv. Steel 8.8 strenght class ISO 898-1 M 10x40	UNI 5739	4

Counterflange kit on request see p. 315

- [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 pag. 307÷310
- [4] FPM for H, HS, HW, HSW version;
EPDM for E version, Q1AEGG, U3U3EGG*(Not available for models 65-160/15 and 65-200), Q1Q1EGG, Q1U3EGG, U3CEGG
- [5] 0 for 65-160/15 kW;
1 for pumps up to 11 kW
2 for 65-200/15, 18.5, 22 kW
- [6] 1 for pumps with motor up to 11 kW
2 for pumps with 15 kW motor and above
- [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
- [9] Only for pumps with 15 kW motor and above

3DS 32, 40, 50 SECTIONAL VIEW DRAWING

3DS 65 SECTIONAL VIEW DRAWING



3DS 32, 40, 50, 65 SECTIONAL VIEW TABLE

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing		Cast iron EN-GJL-200-EN 1561			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561			1
003A	Adapter ring [1]		Cast iron EN-GJL-200-EN 1561			1
004	Casing cover		EN 1.4301 (AISI 304)			1
006	Coupling - Wet extensions		EN 1.4301 (AISI 304)	See table p. 313		1
007	Impeller		[2]			1
011	Mechanical seal		[3]	[3]		1
012	Motor		-			1
024	Priming plug		Brass	G 3/8" L=8		1
025	Draining plug		Brass	G 3/8" L=8		1
026	"O" ring	32-12540-125	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)	6x6x25	UNI 6604	1
		50-200/15				
		15 kW and above		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		Galvanized Steel			[5]
044	Protection		EN 1.4301 (AISI 304)		EBARA DRAWING	1
058	Cable gland		-			
072	Casing ring [6]		EN 1.4301 (AISI 304)			1
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer		Aluminum			1
200	Screw	32-125	Gv. Steel 8.8 strenght class ISO 898-1	M8x30	UNI 5739	8
		40-125		M10x35		10
		32-160				
		40-160				
		50-125				
65-125						
32-200, 40-200						
50-160, 50-200						
65-160, 65-200						
201	Screw [7]		Gv. Steel 8.8 strenght class ISO 898-1	M10x16	UNI 5739	2
206	Screw for bracket		Gv. Steel 8.8 strenght class ISO 898-1	M10x40	UNI 5739	4
206-2	Screw adapter ring [1]		Gv. Steel 8.8 strenght class ISO 898-1	M12x20	UNI 5931	4
235	Washer	32-125	Galvanized Steel	8.4x17	UNI 6592	8
		40-125		10.5x21		10
		32-160				
		40-160				
		50-125				
65-125						
32-200, 40-200						
50-160, 50-200						
65-160, 65-200						

Counterflange kit on request see p. 315

[1] Only for 65-125/5.5 and 65-125/7.5

[2] EN 1.4301 (AISI 304) for 32, 40, 50 series;
EN 1.4401 (AISI 316) for 65 series

[3] See pag. 307÷310

[4] FPM for H, HS, HW, HSW version;
EPDM for E, Q1AEGG, U3U3EGG*(Not available for models
65-160/15 and 65-200), Q1Q1EGG, Q1U3EGG, U3CEGG

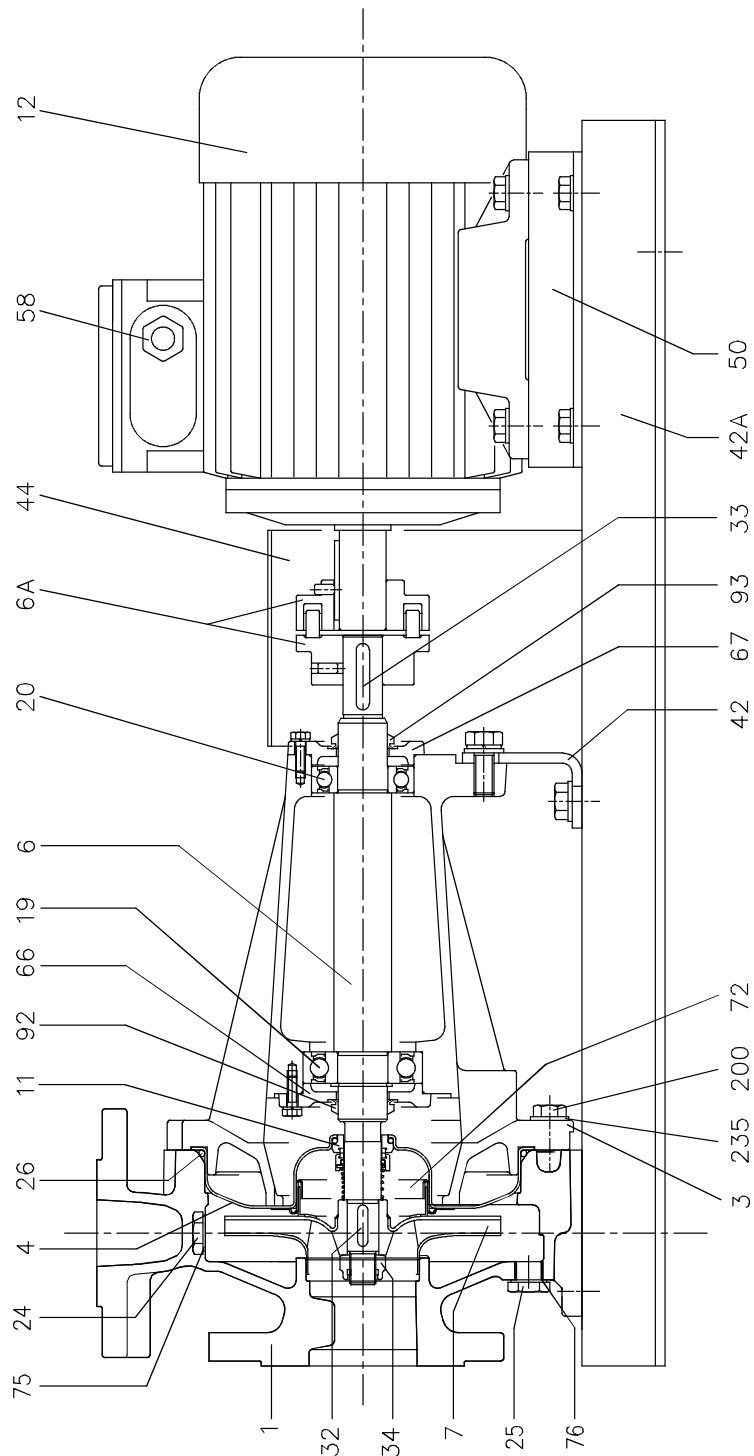
[5] 0 for version 65-200/22

1 for version for 32, 40, 50, 65-125/5.5, 65-125/7.5, 65-160/11,
65-160/15, 65-200/15, 65-200/18.5

2 for version for 65-125/4, 65-160/7.5, 65-160/9.2

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

[7] Only for version 32-125/1.1, 32-160/1.5, 32-160/2.2, 40-
125/1.5, 40-125/2.2, 50-125/2.2

SECTIONAL VIEW DRAWING 3DP 32, 40, 50, 65

SECTIONAL VIEW TABLE 3DP 32, 40, 50, 65

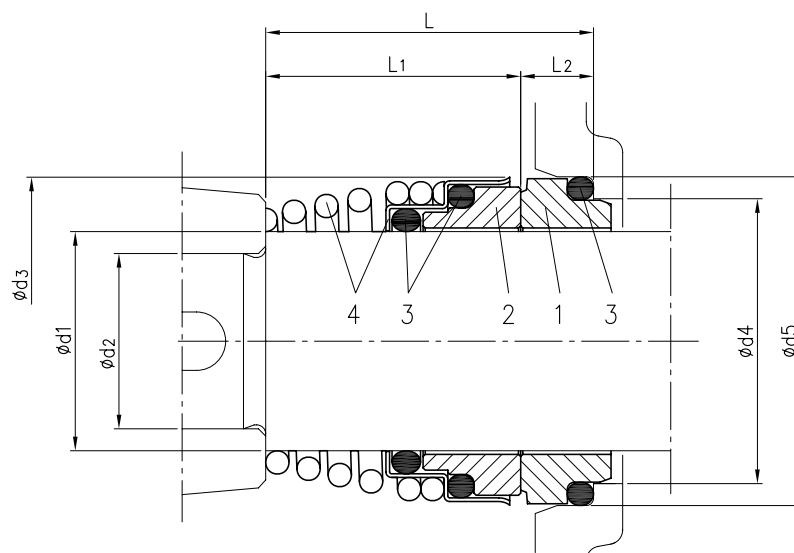
N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD
001	Casing		Cast iron EN-GJL-200-EN 1561		
003	Support		Cast iron EN-GJL-200-EN 1561		
004	Casing cover		EN 1.4301 (AISI 304)		
006	Shaft - Wet extension		EN 1.4301 (AISI 304)		
006A	Flexible coupling		Cast iron EN-GJL-250-EN 1561	See table p. 314	
007	Impeller		[1]		
011	Mechanical seal		[2]	[2]	
012	Motor		-		
019	Bearing		-	See table p. 312	
020	Bearing		-	See table p. 312	
024	Priming plug		Brass	G 3/8" L=8	DIN 906
025	Draining plug		Brass	G 3/8" L=8	DIN 906
026	"O" ring	32-125, 40-125	NBR [3]	158.11x5.34	OR 6625
		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)	6x6x25	UNI 6604
		50-200/15		8x7x30	
		15 kW and above			
033	Key		C 40	8x7x40	UNI 6604
034	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474
		50-200/15		M18x1.5	
		15 kW and above		M20x1.5	
042	Pump support		Fe 37 Galvanized		EBARA DRAWING
042A	Base		Fe 37 Galvanized		
044	Protection		Fe 37 Galvanized		
050	Foot		Aluminium / Galvanized steel		
058	Cable gland		-		
066	Impeller side bearing cover		Cast iron EN-GJL-200-EN 1561		
067	Motor side bearing cover		Cast iron EN-GJL-200-EN 1561		
072	Casing ring		[4] EN 1.4301 (AISI 304)		
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING
076	Washer		Aluminum	22x17x1.5	EBARA DRAWING
092	"V" ring		-	VS - 0030	
093	"V" ring		-	VS - 0030	
200	Screw	32-125	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30	UNI 5739
		40-125		M 10x35	
		32-160			
		40-160			
		50-125			
		65-125			
235	Washer	32-200, 40-200	Galvanized Steel	8.4x17	UNI 6592
		50-160, 50-200		10.5x21	
		65-160, 65-200			
		32-125			
		40-125			
		32-160			
		40-160			
		50-125			
		65-125			
		32-200, 40-200			
		50-160, 50-200			
		65-160, 65-200			

Counterflange kit on request see p. 315

- [1] EN 1.4301 (AISI 304) for 32, 40, 50 series;
EN 1.4401 (AISI 316) for 65 series
- [2] See pag. 307÷310

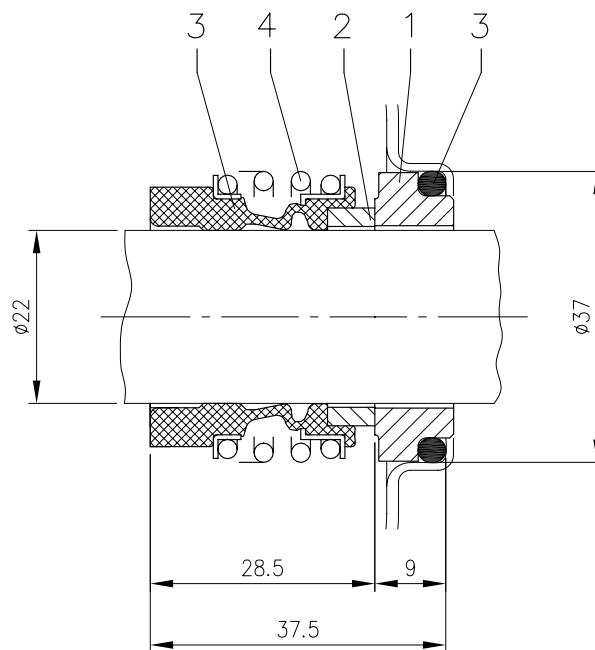
- [3] FPM for H, HS, HW, HSW version;
EPDM for E, Q1AEGG, U3U3EGG*(Not available for models
65-160/15 and 65-200), Q1Q1EGG, Q1U3EGG, U3CEGG
- [4] Only for: 32-200, 40-200, 50-160, 50-200

MECHANICAL SEAL (standard, H, E and special version)



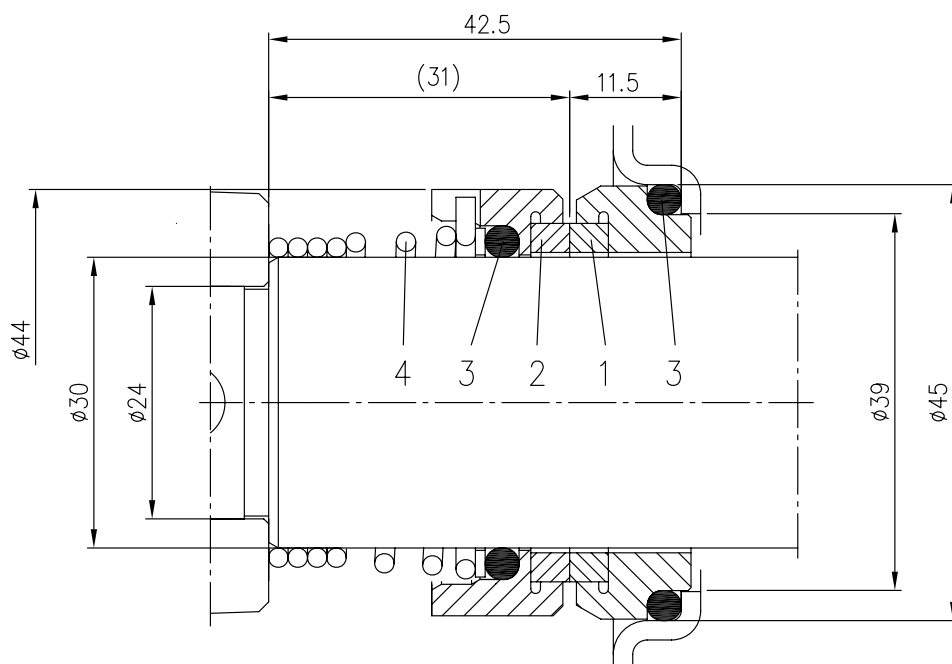
Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	32-125/160/200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	40-125/160/200												
	50-125/160/200												
	65-125												
	65-160/7.5-9.2-11												
H	65-160/15	30	24	46	39	45	42.5	32.5	10	Carbon	Ceramic	FPM	EN 1.4401 (AISI 316)
	65-200												
	32-125/160/200												
	40-125/160/200												
	50-125/160/200												
E	65-125	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	EPDM	EN 1.4401 (AISI 316)
	65-160/7.5-9.2-11												
	65-160/15												
	65-200												
	Q1AEGG*												
	65-160/15	30	24	46	39	45	42.5	32.5	10	Silicon Carbide	Metallised Carbon	EPDM	EN 1.4401 (AISI 316)
	65-200												

* The drawing is only indicative

MECHANICAL SEAL (HS version ø22)

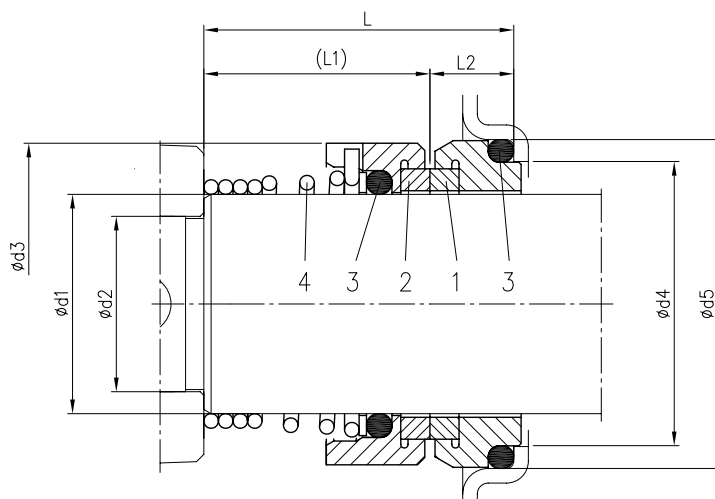
Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HS ø22	32-125/160/200	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)
	40-125/160/200				
	50-125/160/200				
	65-125				
	65-160/7.5-9.2-11				
Q1AEGG*	32-125/160/200	SiC	Metallised Carbon	EPDM	EN 1.4401 (AISI 316)
	40-125/160/200				
	50-125/160/200				
	65-125				
	65-160/7.5-9.2-11				

* The drawing is only indicative

MECHANICAL SEAL (HS version ø30)

Version	Pump type	Material			
		1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HS ø30	65-160/15 65-200	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

MECHANICAL SEAL (HW, HSW and special version)



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
HW	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	Tungsten Carbide	Tungsten Carbide	FPM	EN 1.4401 (AISI 316)
	65-160/15 65-200	30	24	46	39	45	42.5	32.5	10				
HSW	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	Tungsten Carbide	Silicon Carbide	FPM	EN 1.4401 (AISI 316)
	65-160/15 65-200	30	24	46	39	45	42.5	32.5	10				
U3U3EGG*	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	Tungsten Carbide	Tungsten Carbide	EPDM	EN 1.4401 (AISI 316)
Q1Q1EGG*	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	Silicon Carbide	Silicon Carbide	EPDM	EN 1.4401 (AISI 316)
	65-160/15 65-200	30	24	46	39	45	42.5	32.5	10				
Q1U3EGG*	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	Silicon Carbide	Tungsten Carbide	EPDM	EN 1.4401 (AISI 316)
	65-160/15 65-200	30	24	46	39	45	42.5	32.5	10				
U3CEGG*	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	Tungsten Carbide	Special Carbon	EPDM	EN 1.4401 (AISI 316)
	65-160/15 65-200	30	24	46	39	45	42.5	32.5	10				

* The drawing is only indicative

3D BEARINGS

Pump type	Ball bearing					
	Pump side	(*) Pump side	Fan side	(*) Fan side		
3D 32-125/1.1	6205-2RSH	6205-ZZ C3	6205-2RSH	6205-ZZ C3		
3D 32-160/1.5						
3D 32-160/2.2						
3D 32-200/3.0						
3D 32-200/4.0	6206-2RS1	6206-ZZ C3	6206-2RS1	6206-ZZ C3		
3D 32-200/7.5	6306-2RS1	6306-ZZ C3				
3D 40-125/1.5	6205-2RSH	6205-ZZ C3			6205-2RSH	6205-ZZ C3
3D 40-125/2.2						
3D 40-160/3.0						
3D 40-160/4.0			6206-2RS1	6206-ZZ C3		
3D 40-200/5.5	6306 2RS1	6306-ZZ C3	6206-2RS1	6206-ZZ C3		
3D 40-200/7.5						
3D 40-200/11	6308-2RS1	6308-ZZ C3	6208-2RS1	6208-ZZ C3		
3D 50-125/2.2	6205-2RSH	6205-ZZ C3	6205-2RSH	6205-ZZ C3		
3D 50-125/3.0						
3D 50-125/4.0	6206-2RS1	6206-ZZ C3	6206-2RS1	6206-ZZ C3		
3D 50-160/5.5	6306-2RS1	6306-ZZ C3				
3D 50-160/7.5						
3D 50-200/9.2	6308-2RS1	6308-ZZ C3			6208-2RS1	6208-ZZ C3
3D 50-200/11						
3D 50-200/15	6309-2RS1	6309-ZZ C3	6309-2RS1	6309-ZZ C3		
3D 65-125/4.0	6206-2RS1	6206-ZZ C3	6205-2RSH	6205-ZZ C3		
3D 65-125/5.5	6306-2RS1	6306-ZZ C3	6206-2RS1	6206-ZZ C3		
3D 65-160/7.5						
3D 65-160/9.2	6308-2RS1	6308-ZZ C3	6208-2RS1	6208-ZZ C3		
3D 65-160/11						
3D 65-160/15						
3D 65-200/15	6309-2RS1	6309-ZZ C3	6309-2RS1	6309-ZZ C3		
3D 65-200/18.5						
3D 65-200/22						

(*) Only for IE3 Motors

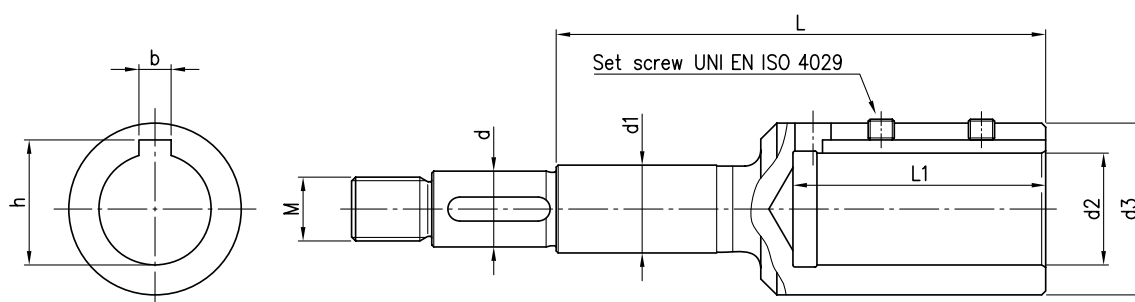
3DS-3DP BEARINGS

Pump type	Ball bearing	
	Pump side	Fan side
3DS 32-125/1.1	6204-2Z C3	6204-2Z C3
3DS 32-160/1.5	6205-2Z C3	6205-2Z C3
3DS 32-160/2.2		
3DS 32-200/3.0	6206-2Z C3	6206-2Z C3
3DS 32-200/4.0	6306-2Z C3	6306-2Z C3
3DS 32-200/7.5	6208-2Z C3	6208-2Z C3
3DS 40-125/1.5	6205-2Z C3	6205-2Z C3
3DS 40-125/2.2		
3DS 40-160/3.0	6206-2Z C3	6206-2Z C3
3DS 40-160/4.0	6306-2Z C3	6306-2Z C3
3DS 40-200/5.5	6208-2Z C3	6208-2Z C3
3DS 40-200/7.5		
3DS 40-200/11	6309-2Z C3	6309-2Z C3
3DS 50-125/2.2	6205-2Z C3	6205-2Z C3
3DS 50-125/3.0	6206-2Z C3	6206-2Z C3
3DS 50-125/4.0	6306-2Z C3	6306-2Z C3
3DS 50-160/5.5	6208-2Z C3	6208-2Z C3
3DS 50-160/7.5		
3DS 50-200/9.2	6309-2Z C3	6309-2Z C3
3DS 50-200/11		
3DS 50-200/15		
3DS 65-125/4.0	6306-2Z C3	6306-2Z C3
3DS 65-125/5.5	6208-2Z C3	6208-2Z C3
3DS 65-125/7.5		
3DS 65-160/7.5	6309-2Z C3	6309-2Z C3
3DS 65-160/9.2		
3DS 65-160/11		
3DS 65-160/15		
3DS 65-200/15	6311 C3	6311 C3
3DS 65-200/18.5		
3DS 65-200/22		

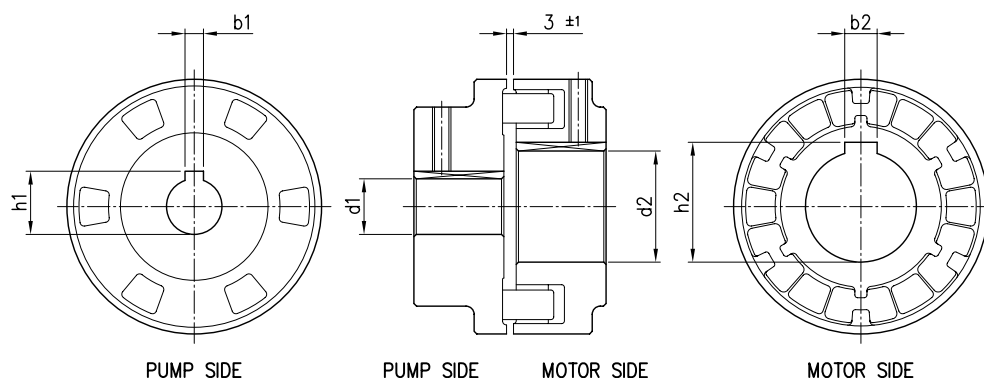
Pump type	Ball bearing			
	Pump		Motor	
	Pump side	Motor side	Pump side	Fan side
3DP 32-125/1.1	6306-2RS1	6206-2RS1	6204-2Z C3	6204-2Z C3
3DP 32-160/1.5			6205-2Z C3	6205-2Z C3
3DP 32-160/2.2				
3DP 32-200/3.0	6308-2RS1	6306-2RS1	6206-2Z C3	6206-2Z C3
3DP 32-200/4.0			6306-2Z C3	6306-2Z C3
3DP 32-200/7.5			6208-2Z C3	6208-2Z C3
3DP 40-125/1.5	6306-2RS1	6206-2RS1	6205-2Z C3	6205-2Z C3
3DP 40-125/2.2			6206-2Z C3	6206-2Z C3
3DP 40-160/3.0				
3DP 40-160/4.0	6308-2RS1	6306-2RS1	6306-2Z C3	6306-2Z C3
3DP 40-200/5.5			6208-2Z C3	6208-2Z C3
3DP 40-200/7.5			6309-2Z C3	6309-2Z C3
3DP 40-200/11				
3DP 50-125/2.2	6306-2RS1	6206-2RS1	6205-2Z C3	6205-2Z C3
3DP 50-125/3.0			6206-2Z C3	6206-2Z C3
3DP 50-125/4.0			6306-2Z C3	6306-2Z C3
3DP 50-160/5.5	6308-2RS1	6306-2RS1	6208-2Z C3	6208-2Z C3
3DP 50-160/7.5				
3DP 50-200/9.2			6309-2Z C3	6309-2Z C3
3DP 50-200/11				
3DP 50-200/15				
3DP 65-125/4.0	6306-2RS1	6206-2RS1	6306-2Z C3	6306-2Z C3
3DP 65-125/5.5			6208-2Z C3	6208-2Z C3
3DP 65-125/7.5				
3DP 65-160/7.5	6308-2RS1	6306-2RS1	6309-2Z C3	6309-2Z C3
3DP 65-160/9.2				
3DP 65-160/11				
3DP 65-160/15				
3DP 65-200/15			6311 C3	6311 C3
3DP 65-200/18.5				
3DP 65-200/22	6311 C3	6311 C3	6311 C3	6311 C3
3DP 65-200/22				

1) Motor available with lubricator for regular re-greasing of bearing.

3DS COUPLING



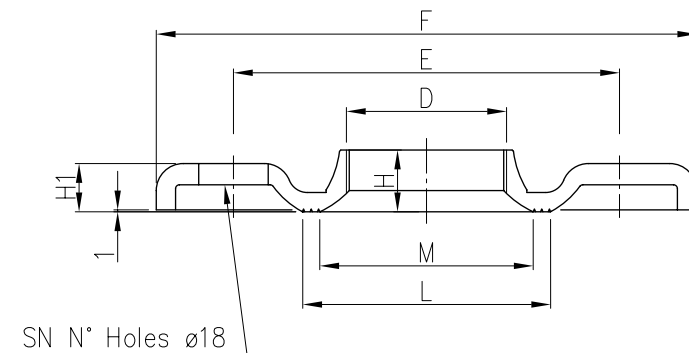
Pump type	Power		Motor Size	Dimensions [mm]									
	[kW]	[HP]		d	d ₁	d ₂	d ₃	M	L	L ₁	b	h	Set screw
32-125/1.1	1.1	1.5	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-160/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
32-160/2.2	2.2	3	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
32-200/3.0	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
32-200/4.0	4	5.5	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
32-200/7.5	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-125/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-125/2.2	2.2	3	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-160/3.0	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
40-160/4.0	4	5.5	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
40-200/5.5	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-200/7.5	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-200/11	11	15	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
50-125/2.2	2.2	3	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-125/3.0	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
50-125/4.0	4	5.5	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
50-160/5.5	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-160/7.5	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-200/9.2	9.2	12.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-200/11	11	15	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
50-200/15	15	20	160	22	22	42	63	M18x1.5	209	114	12	45.3	M8x8
65-125/4.0	4	5.5	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-125/5.5	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-125/7.5	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/7.5	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/9.2	9.2	12.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/11	11	15	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
65-160/15	15	20	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/15	15	20	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/18.5	18.5	25	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/22	22	30	180	24	30	48	72	M20x1.5	184	114	14	51.8	M10x10

3DP FLEXIBLE COUPLING

Pump type	Power		Motor Size	Dimensions [mm]					
	[KW]	[HP]		d1	b1	h1	d2	b2	h2
32-125/1.1	1.1	1.5	80	24	8	27.3	19	6	21.8
32-160/1.5	1.5	2	90	24	8	27.3	24	8	27.3
32-160/2.2	2.2	3	90	24	8	27.3	24	8	27.3
32-200/3.0	3	4	100	24	8	27.3	28	8	31.3
32-200/4.0	4	5.5	112	24	8	27.3	28	8	31.3
32-200/7.5	7.5	10	132	24	8	27.3	38	10	41.3
40-125/1.5	1.5	2	90	24	8	27.3	24	8	27.3
40-125/2.2	2.2	3	90	24	8	27.3	24	8	27.3
40-160/3.0	3	4	100	24	8	27.3	28	8	31.3
40-160/4.0	4	5.5	112	24	8	27.3	28	8	31.3
40-200/5.5	5.5	7.5	132	24	8	27.3	38	10	41.3
40-200/7.5	7.5	10	132	24	8	27.3	38	10	41.3
40-200/11	11	15	160	24	8	27.3	42	12	45.3
50-125/2.2	2.2	3	90	24	8	27.3	24	8	27.3
50-125/3.0	3	4	100	24	8	27.3	28	8	31.3
50-125/4.0	4	5.5	112	24	8	27.3	28	8	31.3
50-160/5.5	5.5	7.5	132	24	8	27.3	38	10	41.3
50-160/7.5	7.5	10	132	24	8	27.3	38	10	41.3
50-200/9.2	9.2	12.5	132	24	8	27.3	38	10	41.3
50-200/11	11	15	160	24	8	27.3	42	12	45.3
50-200/15	15	20	160	24	8	27.3	42	12	45.3
65-125/4.0	4	5.5	112	24	8	27.3	28	8	31.3
65-125/5.5	5.5	7.5	132	24	8	27.3	38	10	41.3
65-160/7.5	7.5	10	132	24	8	27.3	38	10	41.3
65-160/9.2	9.2	12.5	132	24	8	27.3	38	10	41.3
65-160/11	11	15	160	24	8	27.3	42	12	45.3
65-160/15	15	20	160	24	8	27.3	42	12	45.3
65-200/15	15	20	160	24	8	27.3	42	12	45.3
65-200/18.5	18.5	25	160	24	8	27.3	42	12	45.3
65-200/22	22	30	180	24	8	27.3	48	14	51.8

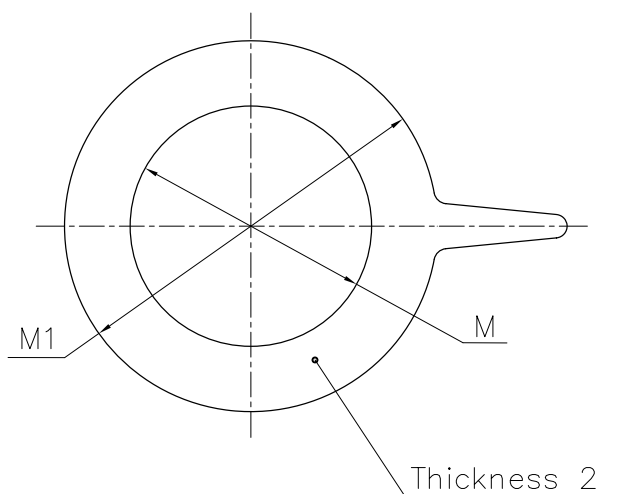
FITTINGS

COUNTERFLANGES GALVANIZED STEEL



Dimensions									Screws	
DN	D	E	F	H	H1	L	M	SN	DIMENSION	MATERIAL
32	G 1 ¼	100	140	15	11.5	67	50	4	M16x55	Gv. Steel 8.8 Strenght class ISO 898-1
40	G 1 ½	110	150	17.5	11.5	72	58	4		
50	G 2	125	165	19	15	89	70	4		
65	G 2 ½	145	185	23	14	104	88	4		
80	G 3	160	200	24	14.5	117.5	100	4		

GASKETS

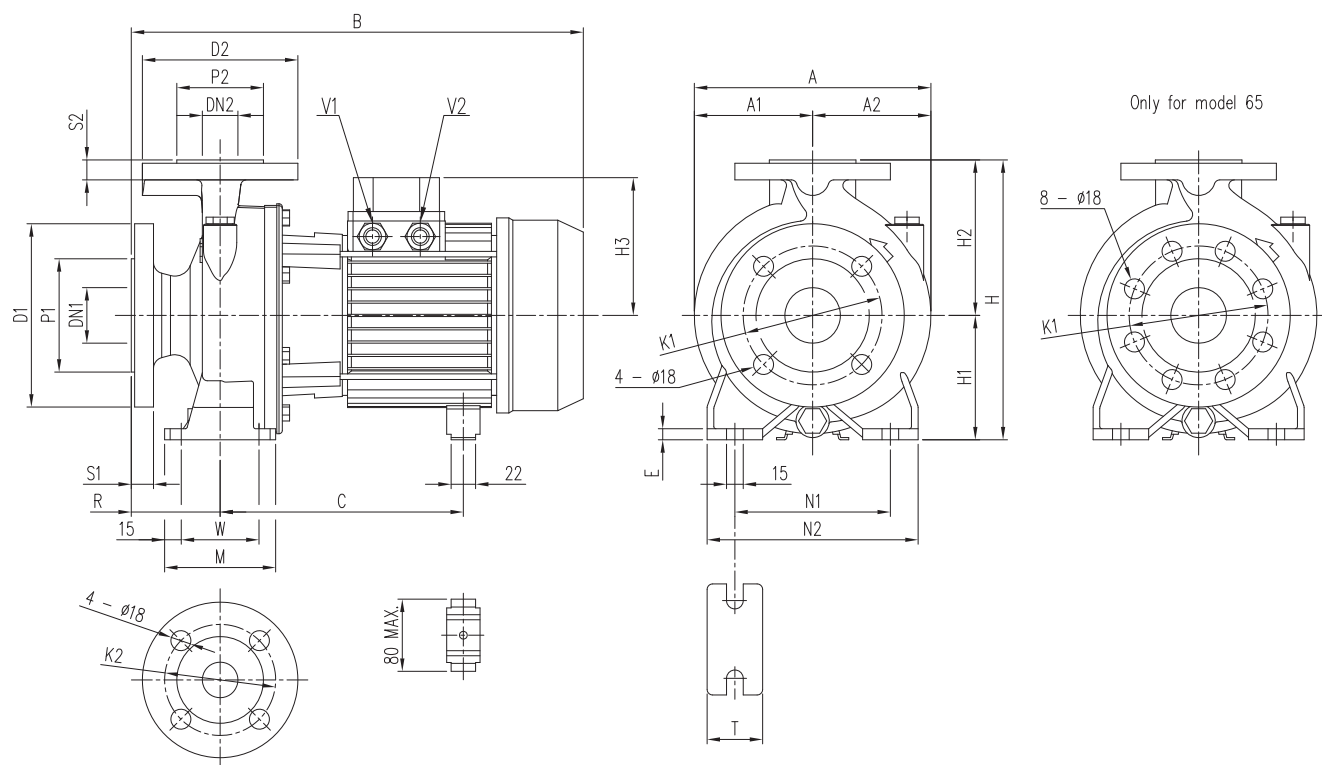


DN	M	M1
32	38	82
40	50	93
50	60	107
65	80	125
80	90	140

Material: EPDM for standard version
FPM for hot water version

PUMP 3D

UP TO 11 kW

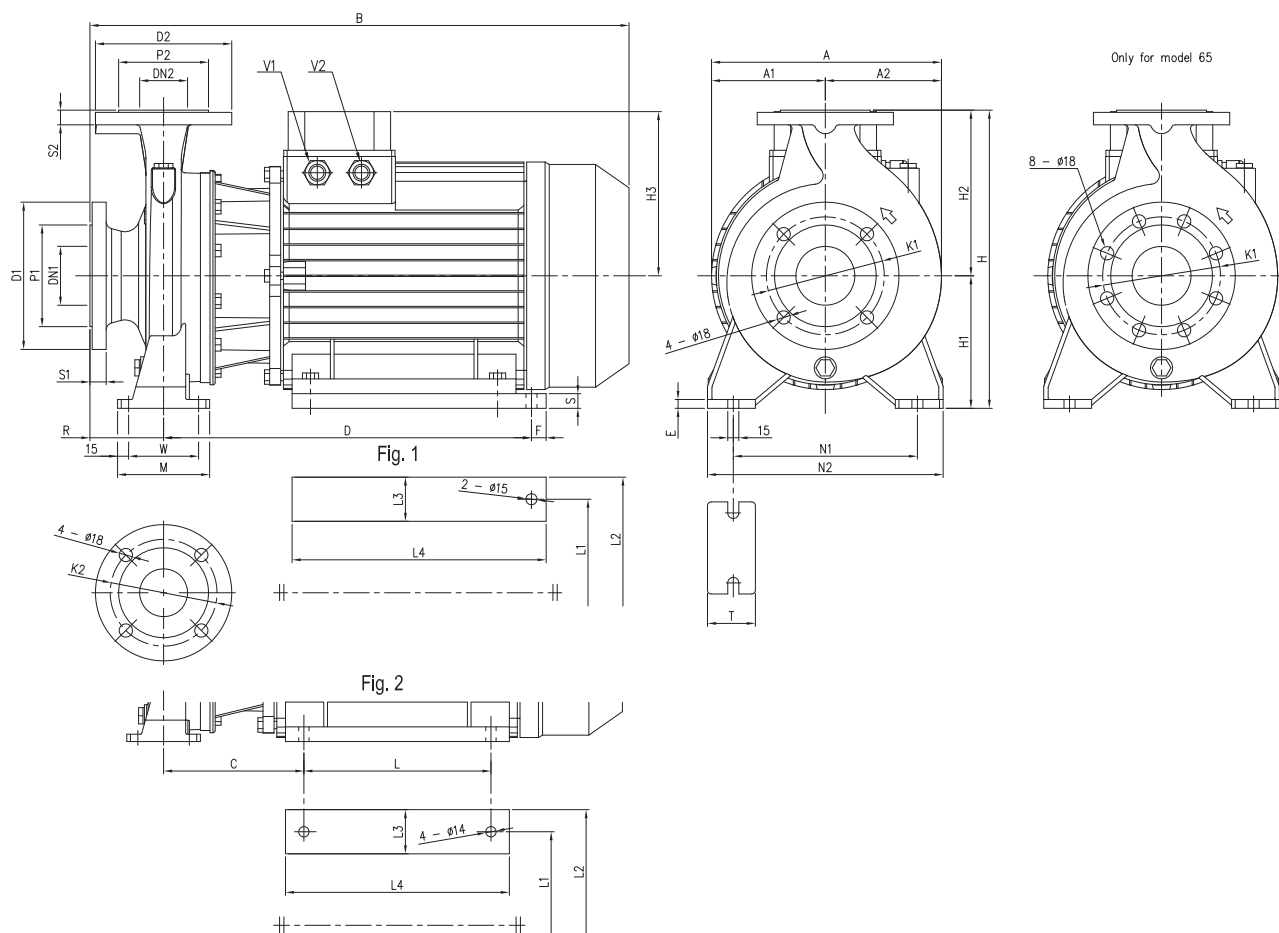


Model	Dimensions [mm]																																Weight							
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3		R	W	M	N1	N2	T	E	A	A1	A2	B		C	V1	V2		[kg]	[kg]	[kg]							
													[1-]	[3-]											[1-]	[3-]			[1-]	[3-]										
																																		(°)	(°)	(°)	(°)			
[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]	[1-]	[3-]							
32-125/1.1 (M)	50	102	125	165	20	32	78	100	140	18	252	112	140	141	124	119	80	70	100	140	190	50	10	213	106.5	106.5	408	407	431	219+230	219+230	232	-	-	M20x1.5	PG 13.5	M16x1.5	25	29.5	29.5
32-160/1.5 (M)	50	102	125	165	20	32	78	100	140	18	292	132	160	141	124	119	80	70	100	190	240	50	10	254	127	127	408	407	431	219+230	219+230	232	-	-	M20x1.5	PG 13.5	M20x1.5	29	33.5	33.5
32-160/2.2 (M)	50	102	125	165	20	32	78	100	140	18	292	132	160	141	124	119	80	70	100	190	240	50	10	254	127	127	408	432	431	219+230	244+255	232	-	-	M20x1.5	PG 13.5	M20x1.5	35.7	36	36
32-200/3.0	50	102	125	165	20	32	78	100	140	18	340	160	180	-	124	124	80	70	100	190	240	50	10	296	148	148	-	471	471	-	244+255	244+255	-	-	-	PG 13.5	M20x1.5	-	47.5	47.5
32-200/4.0	50	102	125	165	20	32	78	100	140	18	340	160	180	-	141	141	80	70	100	190	240	50	10	296	148	148	-	494	494	-	253	253	-	-	-	PG 16	M20x1.5	-	50	50
32-200/7.5	50	102	125	165	20	32	78	100	140	18	340	160	180	-	150	150	80	70	100	190	240	50	10	296	148	148	-	539	-	275	275	-	PG 13.5	-	PG 16	-	65.1	65.1		
40-125/1.5 (M)	65	122	145	185	20	40	88	110	150	18	252	112	140	141	124	119	80	70	100	160	210	50	10	220	108	112	408	407	431	219+230	219+230	232	-	-	M20x1.5	PG 13.5	M20x1.5	25.5	30	30
40-125/2.2 (M)	65	122	145	185	20	40	88	110	150	18	252	112	140	141	124	119	80	70	100	160	210	50	10	220	108	112	408	432	431	219+230	244+255	232	-	-	M20x1.5	PG 13.5	M20x1.5	31.7	32	32
40-160/3.0	65	122	145	185	20	40	88	110	150	18	292	132	160	-	124	124	80	70	100	190	240	50	12	254	127	127	-	471	471	-	244+255	244+255	-	-	-	PG 13.5	M20x1.5	-	39	39
40-160/4.0	65	122	145	185	20	40	88	110	150	18	292	132	160	-	141	141	80	70	100	190	240	50	12	254	127	127	-	494	494	-	253	253	-	-	-	PG 16	M20x1.5	-	48	48
40-200/5.5	65	122	145	185	20	40	88	110	150	18	340	160	180	-	150	150	100	70	100	212	265	50	12	296	148	148	-	539	539	-	275	275	PG 13.5	M20x1.5	-	PG 16	M25x1.5	-	60	60
40-200/7.5	65	122	145	185	20	40	88	110	150	18	340	160	180	-	150	150	100	70	100	212	265	50	12	296	148	148	-	559	-	275	275	-	PG 13.5	-	PG 16	-	66.1	66.1		
40-200/11	65	122	145	185	20	40	88	110	150	18	340	160	180	-	178	178	100	70	100	212	265	50	12	296	148	148	-	595	-	359	359	-	PG 13.5	-	PG 21	-	82.4	82.4		
50-125/2.2 (M)	65	122	145	185	20	50	102	125	165	20	292	132	160	141	124	119	100	70	100	190	240	50	10	254	127	127	428	452	451	219+230	244+255	232	-	-	M20x1.5	PG 13.5	M20x1.5	34.4	37	37
50-125/3.0	65	122	145	185	20	50	102	125	165	20	292	132	160	-	124	124	100	70	100	190	240	50	10	254	127	127	-	491	491	-	244+255	244+255	-	-	-	PG 13.5	M20x1.5	-	39.5	39.5
50-125/4.0	65	122	145	185	20	50	102	125	165	20	292	132	160	-	141	141	100	70	100	190	240	50	10	254	127	127	-	514	514	-	253	253	-	-	-	PG 16	M20x1.5	-	48	48
50-160/5.5	65	122	145	185	20	50	102	125	165	20	340	160	180	-	150	150	100	70	100	212	265	50	10	296	148	148	-	539	539	-	275	275	PG 13.5	M20x1.5	-	PG 16	M25x1.5	-	60	60
50-160/7.5	65	122	145	185	20	50	102	125	165	20	340	160	180	-	150	150	100	70	100	212	265	50	10	296	148	148	-	559	-	275	275	-	PG 13.5	-	PG 16	-	67.1	67.1		
50-200/9.2	65	122	145	185	20	50	102	125	165	20	360	160	200	-	178	178	100	70	100	212	265	50	10	296	148	148	-	595	-	359	359	-	PG 13.5	-	PG 21	-	77	77		
50-200/11	65	122	145	185	20	50	102	125	165	20	360	160	200	-	178	178	100	70	100	212	265	50	10	296	148	148	-	595	-	359	359	-	PG 13.5	-	PG 21	-	82.4	82.4		
65-125/4.0	80	138	160	200	22	65	122	145	185	20	340	160	180	-	141	141	100	95	125	212	280	65	12	263	127	136	-	514	514	-	253	253	-	-	-	PG 16	M20x1.5	-	53	53
65-125/5.5	80	138	160	200	22	65	122	145	185	20	340	160	180	-	150	150	100	95	125	212	280	65	12	263	127	136	-	539	539	-	275	275	PG 13.5	M20x1.5	-	PG 16	M25x1.5	-	65	65
65-125/7.5	80	138	160	200	22	65	122	145	185	20	340	160	180	-	150	150	100	95	125	212	280	65	12	263	127	136	-	559	-	275	275	-	PG 13.5	-	PG 16	-	72.6	72.6		
65-160/7.5	80	138	160	200	22	65	122	145	185	20	360	160	200	-	150	150	100	95	125	212	280	65	12	296	148	148	-	559	-	275	275	-	PG 13.5	-	PG 16	-	73.1	73.1		
65-160/9.2	80	138	160	200	22	65	122	145	185	20	360	160	200	-	178	178	100	95	125	212	280	65	12	296	148	148	-	595	-	359	359	-	PG 13.5	-	PG 21	-	85	85		
65-160/11	80	138	160	200	22	65	122	145	185	20	360	160	200	-	178	178	100	95	125	212	280	65	12	296	148	148	-	595	-	359	359	-	PG 13.5	-	PG 21	-	87.4	87.4		

(*) Only for IE3 Motors

PUMP 3D

15 kW AND ABOVE

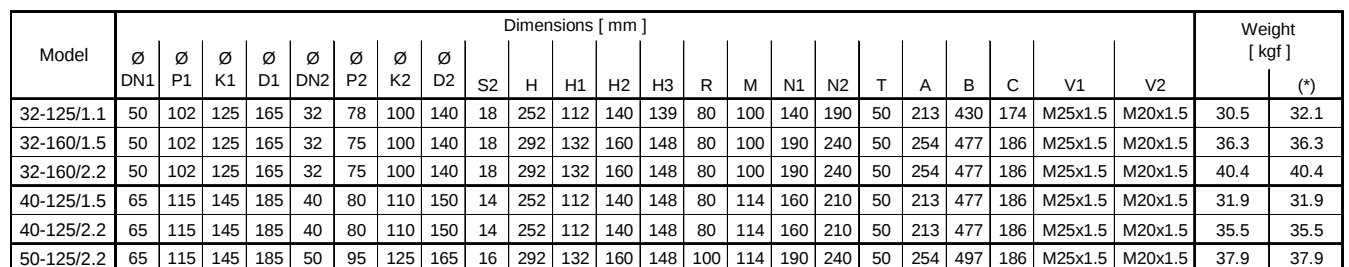


Model	Dimensions [mm]																																Weight [kgf]					
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	Fig.	R	W	M	N1	N2	T	E	A	A1	A2	B	C	L	L1	L2	L3	L4		D	F	S	V1	V2
50-200/15	65	122	145	185	20	50	102	125	165	20	360	160	200	223	2	100	70	100	212	265	50	10	296	154.5	141.5	723	190.5	254	254	318	64	304	-	-	-	PG 21	PG 21	124.1
65-160/15	80	138	160	200	22	65	122	145	185	20	360	160	200	223	2	100	95	125	212	280	65	12	296	154.5	141.5	732	199.5	254	254	318	64	304	-	-	-	PG 21	PG 21	129.1
65-200/15	80	138	160	200	22	65	122	145	185	20	405	180	225	223	1	100	95	125	250	320	65	12	312	154.5	157.5	732	-	-	254	314	60	345	499.5	20	20	PG 21	PG 21	129.1
65-200/18.5	80	138	160	200	22	65	122	145	185	20	405	180	225	223	1	100	95	125	250	320	65	12	312	154.5	157.5	732	-	-	254	314	60	345	499.5	20	20	PG 21	PG 21	146.3
65-200/22	80	138	160	200	22	65	122	145	185	20	405	180	225	223	1	100	95	125	250	320	65	12	312	154.5	157.5	732	-	-	254	314	60	345	499.5	20	20	PG 21	PG 21	158.1

3D SERIES

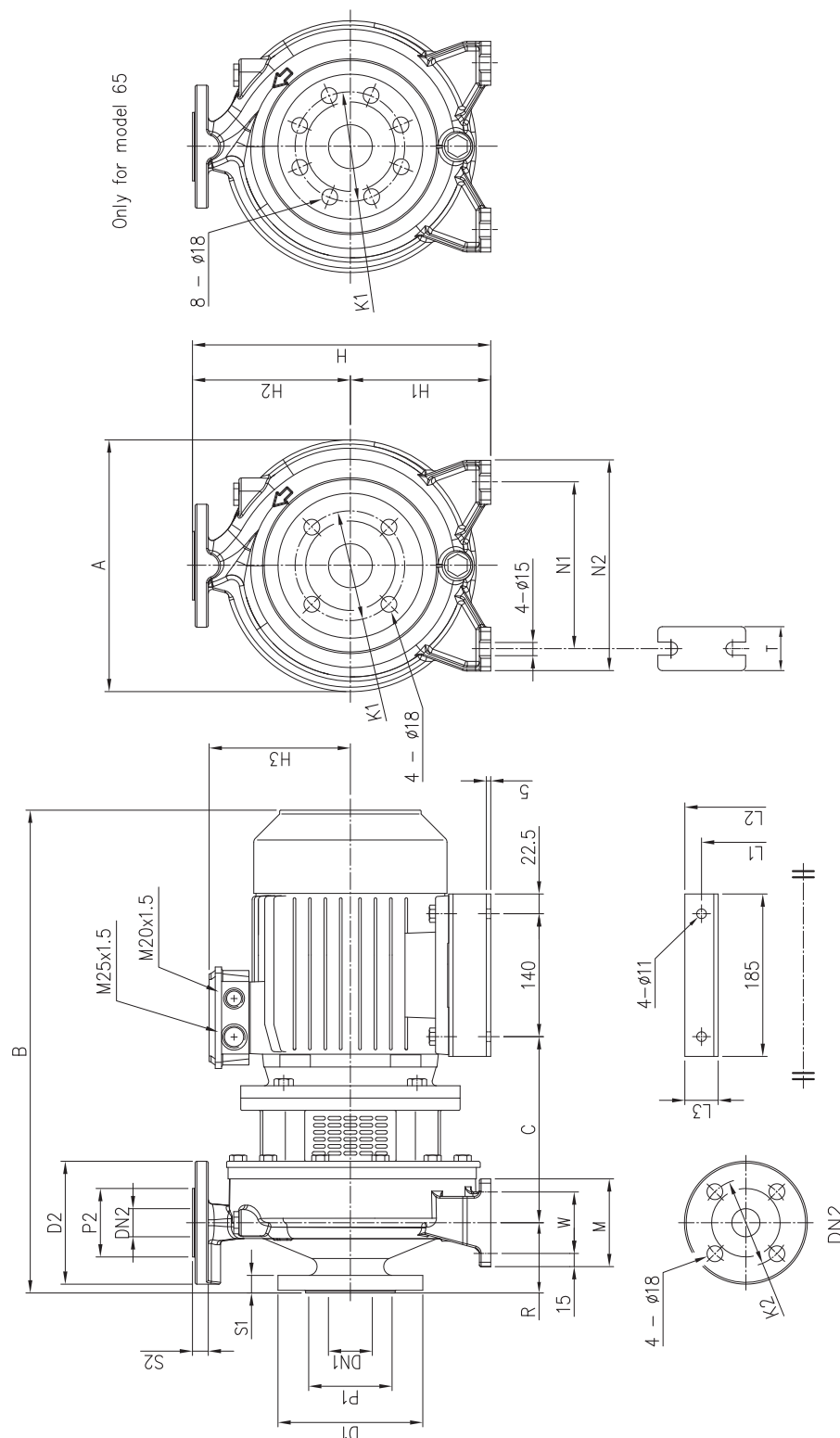
50Hz

PUMP 3DS 32, 40, 50



402

PUMP 3DS 32, 65



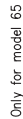
Model	Dimensions [mm]																										Weight [kgf]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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(*) Only for IE3 Motors

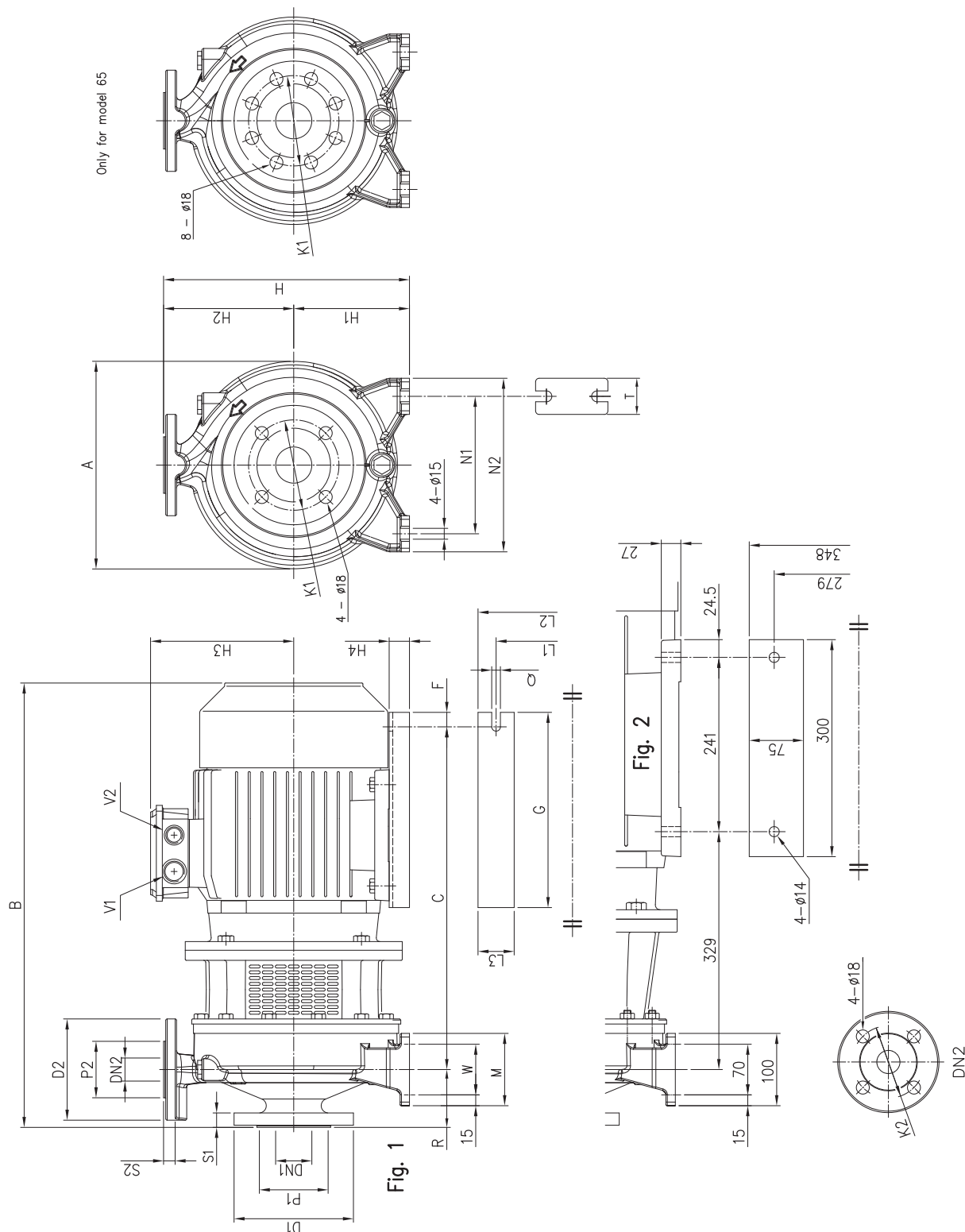
3D SERIES

50Hz

PUMP 3DS 40, 50, 65

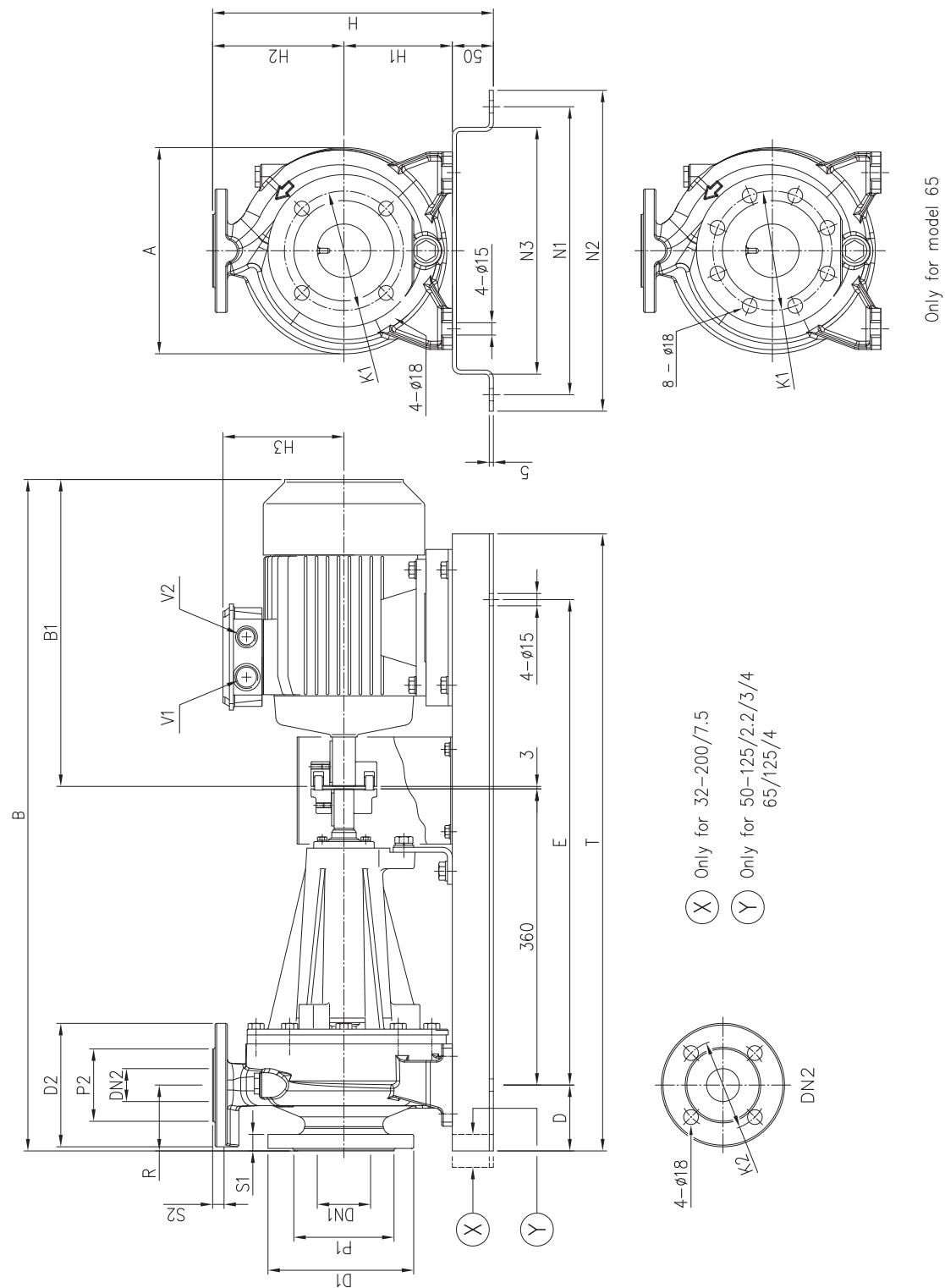
404

PUMP 3DS 32, 40, 50, 65



Model	Dimensions [mm]																																Weight [kgf]		
	Ø DN1	Ø P1	Ø K1	Ø D1	Ø S1	Ø DN2	Ø P2	Ø K2	Ø D2	Ø S2	Fig.	H	H1	H2	H3	H4	R	W	M	N1	N2	T	A	B	C	F	G	Q	L1	L2	L3	V1	V2	(*)	
32-200/7.5	50	102	125	165	20	32	78	100	140	18	1	340	160	180	198	28	80	70	100	190	240	50	296	607	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	92
40-160/3.0	65	122	145	185	20	40	88	110	150	18	1	292	132	160	155	32	80	70	100	190	240	50	254	528	388	15	220	12	160	200	40	M25X1.5	M20X1.5	65.6	65.6
40-160/4.0	65	122	145	185	20	40	88	110	150	18	1	292	132	160	171	20	80	70	100	190	240	50	254	550	395	15	220	12	190	240	50	M25X1.5	M20X1.5	51.8	51.8
40-200/5.5	65	122	145	185	20	40	88	110	150	18	1	340	160	180	198	28	100	70	100	212	265	50	296	630	479	15	270	12	216	266	50	M32X1.5	M32X1.5	79.7	79.7
40-200/7.5	65	122	145	185	20	40	88	110	150	18	1	340	160	180	198	28	100	70	100	212	265	50	296	650	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	88.8
50-125/3.0	65	122	145	185	20	50	102	125	165	20	1	292	132	160	155	32	100	70	100	190	240	50	254	548	388	15	220	12	160	200	40	M25X1.5	M20X1.5	44.1	44.1
50-125/4.0	65	122	145	185	20	50	102	125	165	20	1	292	132	160	171	20	100	70	100	190	240	50	254	570	395	15	220	12	190	240	50	M25X1.5	M20X1.5	52.7	52.7
50-160/5.5	65	122	145	185	20	50	102	125	165	20	1	340	160	180	198	28	100	70	100	212	265	50	296	630	479	15	270	12	216	266	50	M32X1.5	M32X1.5	77.3	77.3
50-160/7.5	65	122	145	185	20	50	102	125	165	20	1	340	160	180	198	28	100	70	100	212	265	50	296	650	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	99.5
50-200/9.2	65	122	145	185	20	50	102	125	165	20	1	360	160	200	198	28	100	70	100	212	265	50	296	690	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	104
65-125/5.5	80	138	160	200	22	65	122	145	185	20	1	340	160	180	198	28	100	95	125	212	280	65	263	630	479	15	270	12	216	266	50	M32X1.5	M32X1.5	76.3	76.3
65-125/7.5	80	138	160	200	22	65	122	145	185	20	1	340	160	180	198	28	100	95	125	212	280	65	263	650	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	99.9
65-160/7.5	80	138	160	200	22	65	122	145	185	20	1	360	160	200	198	28	100	95	125	212	280	65	296	650	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	99.2
65-160/9.2	80	138	160	200	22	65	122	145	185	20	1	360	160	200	198	28	100	95	125	212	280	65	296	690	479	15	270	12	216	266	50	M32X1.5	M32X1.5	-	108
65-200/15	80	138	160	200	22	65	122	145	185	20	1	405	180	225	238	20	100	95	125	250	320	65	312	806	621	20	350	14	254	314	60	M40X1.5	M40X1.5	-	156.9
65-200/18.5	80	138	160	200	22	65	122	145	185	20	1	405	180	225	238	20	100	95	125	250	320	65	312	850	621	20	350	14	254	314	60	M40X1.5	M40X1.5	-	158.5
65-200/22	80	138	160	200	22	65	122	145	185	20	2	405	180	225	268	-	100	-	-	250	320	65	312	885	-	-	-	-	-	-	-	M40X1.5	M40X1.5	-	197

(*) Only for IE3 Motors

PUMP 3DP 32, 40, 50, 65

DIMENSIONS AND WEIGHT

50Hz

Rev. F

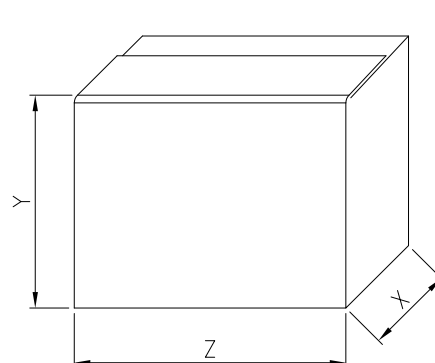
Model	Dimensions [mm]																									Weight [kgf]		
	Ø DN1	Ø P1	Ø K1	Ø D1	Ø S1	Ø DN2	Ø P2	Ø K2	Ø D2	Ø S2	H	H1	H2	H3	R	A	B	B1	D	E	N1	N2	N3	T	V1	V2	(*)	
32-125/1.1	50	102	125	165	20	32	78	100	140	18	302	112	140	139	80	213	715	272	80	550	300	340	250	710	M25x1.5	M20x1.5	50.5	62.1
32-160/1.5	50	102	125	165	20	32	78	100	140	18	342	132	160	148	80	254	760	317	80	590	350	390	300	750	M25x1.5	M20x1.5	58.5	58.5
32-160/2.2	50	102	125	165	20	32	78	100	140	18	342	132	160	148	80	254	760	317	80	590	350	390	300	750	M25x1.5	M20x1.5	61.5	61.5
32-200/3.0	50	102	125	165	20	32	78	100	140	18	390	160	180	155	80	296	809	366	80	590	350	390	300	750	M25x1.5	M20x1.5	83.9	83.9
32-200/4.0	50	102	125	165	20	32	78	100	140	18	390	160	180	171	80	296	831	388	80	590	350	390	300	750	M25x1.5	M20x1.5	86.9	86.9
32-200/7.5	50	102	125	165	20	32	78	100	140	18	390	160	180	198	80	296	908	442	100	650	350	390	300	850	M32x1.5	M32x1.5	-	117.2
40-125/1.5	65	122	145	185	20	40	88	110	150	18	302	112	140	148	80	220	760	317	80	550	300	340	250	710	M25x1.5	M20x1.5	76.2	76.2
40-125/2.2	65	122	145	185	20	40	88	110	150	18	302	112	140	148	80	220	760	317	80	550	300	340	250	710	M25x1.5	M20x1.5	56.9	56.9
40-160/3.0	65	122	145	185	20	40	88	110	150	18	342	132	160	155	80	254	809	366	80	590	350	390	300	750	M25x1.5	M20x1.5	93.4	93.4
40-160/4.0	65	122	145	185	20	40	88	110	150	18	342	132	160	171	80	254	831	388	80	590	350	390	300	750	M25x1.5	M20x1.5	74.8	74.8
40-200/5.5	65	122	145	185	20	40	88	110	150	18	390	160	180	198	100	296	908	442	100	650	350	390	300	850	M32x1.5	M20x1.5	105	105
40-200/7.5	65	122	145	185	20	40	88	110	150	18	390	160	180	198	100	296	928	442	100	650	350	390	300	850	M32x1.5	M32x1.5	-	113.7
40-200/11	65	122	145	185	20	40	88	110	150	18	390	160	180	238	100	296	1071	610	100	800	380	420	330	1000	M40x1.5	M40x1.5	-	140.6
50-125/2.2	65	122	145	185	20	50	102	125	165	20	342	132	160	148	100	254	780	317	80	550	350	390	300	710	M25x1.5	M20x1.5	80	80
50-125/3.0	65	122	145	185	20	50	102	125	165	20	342	132	160	155	100	254	829	366	80	590	350	390	300	750	M25x1.5	M20x1.5	91.1	91.1
50-125/4.0	65	122	145	185	20	50	102	125	165	20	342	132	160	171	100	254	851	388	80	590	350	390	300	750	M25x1.5	M20x1.5	91.7	91.7
50-160/5.5	65	122	145	185	20	50	102	125	165	20	390	160	180	198	100	296	908	442	100	650	350	390	300	850	M32x1.5	M32x1.5	111.5	111.5
50-160/7.5	65	122	145	185	20	50	102	125	165	20	390	160	180	198	100	296	928	442	100	650	350	390	300	850	M32x1.5	M32x1.5	-	115.4
50-200/9.2	65	122	145	185	20	50	102	125	165	20	410	160	200	198	100	296	968	482	100	650	350	390	300	850	M32x1.5	M32x1.5	-	124.1
50-200/11	65	122	145	185	20	50	102	125	165	20	410	160	200	238	100	296	1071	610	100	800	380	420	330	1000	M40x1.5	M32x1.5	-	144.4
50-200/15	65	122	145	185	20	50	102	125	165	20	410	160	200	238	100	296	1071	610	100	800	380	420	330	1000	M40x1.5	M40x1.5	-	154.4
65-125/4.0	80	138	160	200	22	65	122	145	185	20	390	160	180	171	100	263	851	388	80	590	350	390	300	750	M25x1.5	M20x1.5	70.9	70.9
65-125/5.5	80	138	160	200	22	65	122	145	185	20	390	160	180	198	100	263	908	442	100	650	350	390	300	850	M32x1.5	M32x1.5	115.3	115.3
65-125/7.5	80	138	160	200	22	65	122	145	185	20	390	160	180	198	100	263	928	442	100	650	350	390	300	850	M32x1.5	M32x1.5	-	129.9
65-160/7.5	80	138	160	200	22	65	122	145	185	20	410	160	200	198	100	296	928	442	100	650	350	390	300	850	M32x1.5	M32x1.5	-	133.2
65-160/9.2	80	138	160	200	22	65	122	145	185	20	410	160	200	198	100	296	968	482	100	650	350	390	300	850	M32x1.5	M32x1.5	-	138
65-160/11	80	138	160	200	22	65	122	145	185	20	410	160	200	238	100	296	1071	610	100	800	380	420	330	1000	M40x1.5	M40x1.5	-	144.8
65-160/15	80	138	160	200	22	65	122	145	185	20	455	160	200	238	100	296	1071	610	100	800	380	420	330	1000	M40x1.5	M40x1.5	-	151
65-200/15	80	138	160	200	22	65	122	145	185	20	455	180	225	238	100	312	1071	610	100	800	380	420	330	1000	M40x1.5	M40x1.5	-	156
65-200/18.5	80	138	160	200	22	65	122	145	185	20	455	180	225	238	100	312	1115	654	100	800	380	420	330	1000	M40x1.5	M40x1.5	-	156.2
65-200/22	80	138	160	200	22	65	122	145	185	20	455	180	225	268	100	312	1150	690	100	800	410	450	360	1000	M40x1.5	M40x1.5	-	211

(*) Only for IE3 Motors

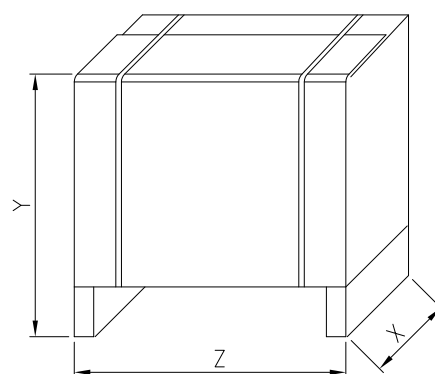
PACKING 3D

Pump type	Packing [mm]				Weight [kgf]			Pack type
	X	Y	Z	(*)	[1~]	[3~]	(*) [3~]	
32-125/1.1 (M)	250	300	450	450	30.4	31.5	31.5	1
32-160/1.5 (M)	280	330	430	460	30.7	35.5	35.5	
32-160/2.2 (M)	280	340	490	490	38.67	44.87	44.87	
32-200/3.0	350	488	550	550	-	52.4	52.4	2
32-200/4.0	350	488	550	550	-	53.8	53.8	
32-200/7.5	350	488	-	700	-	-	69.4	
40-125/1.5 (M)	250	300	450	450	29.9	39.12	39.12	1
40-125/2.2 (M)	280	340	490	490	33.82	34	34	
40-160/3.0	350	488	550	550	-	39.8	39.8	
40-160/4.0	350	488	550	550	-	52.6	52.6	2
40-200/5.5	350	488	550	550	-	64.4	64.4	
40-200/7.5	350	488	-	700	-	68.4	71.5	
40-200/11	350	488	-	700	-	91	93.4	
50-125/2.2 (M)	280	340	490	490	36.1	39	39	1
50-125/3.0	350	488	550	550	-	40.1	40.1	2
50-125/4.0	350	488	550	550	-	52.6	52.6	
50-160/5.5	350	488	550	550	-	64.2	64.2	
50-160/7.5	350	488	-	700	-	-	71.7	
50-200/9.2	350	488	-	700	-	-	81.1	
50-200/11	350	488	-	700	-	-	87.4	
50-200/15	390	532	-	880	-	-	133.1	
65-125/4.0	350	488	550	550	-	57.9	57.9	
65-125/5.5	350	488	550	550	-	70.8	70.8	
65-125/7.5	350	488	-	700	-	-	81.8	
65-160/7.5	350	488	-	700	-	-	77.9	
65-160/9.2	350	488	-	700	-	-	93	
65-160/11	350	488	-	700	-	-	89.4	
65-160/15	390	532	-	880	-	-	138.6	
65-200/15	390	532	-	880	-	-	138.1	
65-200/18.5	390	532	-	880	-	-	155.8	
65-200/22	390	532	-	880	-	-	170.6	

(*) Only for IE3 Motors



TYPE 1

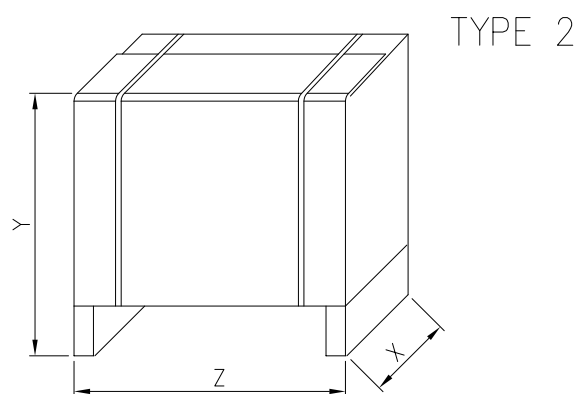
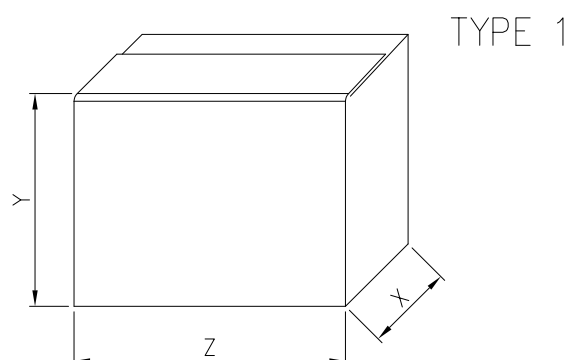


TYPE 2

PACKING 3DS

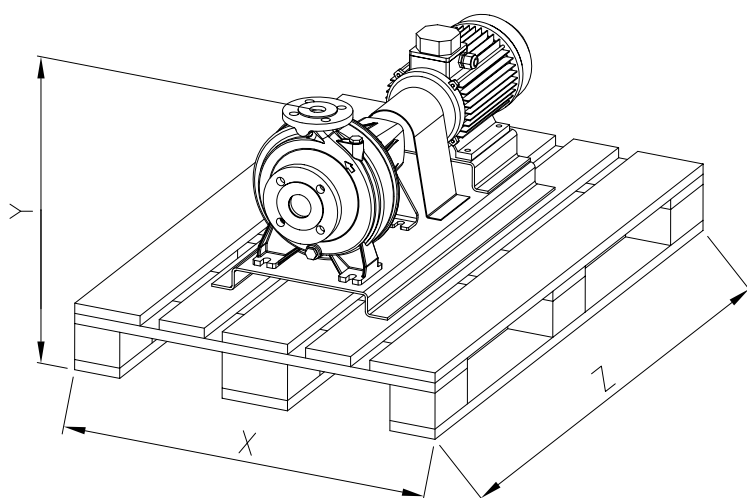
Pump type	Packing [mm]			Weight [kgf]		Pack Type
	X	Y	Z		(*)	
32-125/1.1	450	250	300	32.2	33.8	1
32-160/1.5	350	488	580	41.2	41.2	
32-160/2.2	350	488	580	43.9	43.9	
32-200/3.0	350	498	700	63.4	63.4	
32-200/4.0	350	498	700	63.7	63.7	
32-200/7.5	350	498	700	-	97	
40-125/1.5	350	488	580	36	36	
40-125/2.2	350	488	580	39.7	39.7	
40-160/3.0	350	498	700	68.5	68.5	
40-160/4.0	350	498	700	56.2	56.2	
40-200/5.5	350	498	700	83.9	83.9	
40-200/7.5	350	498	700	-	101	
40-200/11	390	598	970	-	159.3	2
50-125/2.2	350	498	700	42.9	42.9	
50-125/3.0	350	498	700	45.1	45.1	
50-125/4.0	350	498	700	57.8	57.8	
50-160/5.5	350	498	700	81.3	81.3	
50-160/7.5	350	498	700	-	111.8	
50-200/9.2	390	598	880	-	108	
50-200/11	390	598	880	-	138.8	
50-200/15	390	598	880	-	191.9	
65-125/4.0	350	498	700	72.6	72.6	
65-125/5.5	350	498	700	81.7	81.7	
65-125/7.5	350	498	700	-	105.6	
65-160/7.5	350	498	700	-	104.8	
65-160/9.2	390	598	880	-	109	
65-160/11	390	598	970	-	108.8	
65-160/15	390	598	970	-	150.9	
65-200/15	390	598	880	-	162.9	
65-200/18.5	390	598	970	-	165.5	
65-200/22	500	727	1100	-	219	

(*) Only for IE3 Motors



PACKING 3DP

Pump type	Packing [mm]			Weight [kgf]	
	X	Y	Z		(*)
32-125/1.1	800	394	1200	64.0	65.6
32-160/1.5		434		72.0	72.0
32-160/2.2				75.0	75.0
32-200/3.0				482	97.5
32-200/4.0		100.5			100.5
32-200/7.5		-			130.7
40-125/1.5		394		89.7	89.7
40-125/2.2				70.5	70.5
40-160/3.0				434	107.0
40-160/4.0		88.3			88.3
40-200/5.5		482			118.5
40-200/7.5				-	127.2
40-200/11				-	154.1
50-125/2.2		434		93.5	93.5
50-125/3.0				104.5	104.5
50-125/4.0				105.2	105.2
50-160/5.5		482		125.0	125.0
50-160/7.5				-	129.0
50-200/9.2				502	-
50-200/11		-			157.9
50-200/15		-			167.9
65-125/4.0		482		84.4	84.4
65-125/5.5				128.8	128.8
65-125/7.5				-	143.5
65-160/7.5		502		-	146.7
65-160/9.2				-	151.5
65-160/11				-	158.3
65-160/15		547		-	164.5
65-200/15				-	169.5
65-200/18.5				-	169.7
65-200/22				-	224.5



(*) Only for IE3 Motors

MOTOR DATA 3D

Pump type		Power		Efficiency		Capacitor		Efficiency (% load)			Input		Full load current				Locked rotor current			
Single Phase	Three Phase	[kW]	[HP]	Single Phase	Three Phase	Single Phase	Three phase	50%	75%	100%	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase	Single Phase	Three Phase
						[μF]	[V]						230 V	230 V	400 V	690 V	230 V	230 V	400 V	690 V
3D 32-125/1.1 M	3D 32-125/1.1	1.1	1.5	-	IE2	31.5	450	79.5	82.0	82.5	1.51	1.82	6.7	5.6	3.2	-	23.5	57.0	33.0	-
-	3D 32-125/1.1	1.1	1.5	-	IE3	-	-	83.5	84.3	84.6	-	1.77	-	5.8	3.3	-	-	47.4	27.4	-
3D 32-160/1.5 M	3D 32-160/1.5	1.5	2.0	-	IE2	40	450	79.5	82.0	82.5	2.10	1.82	9.6	5.6	3.2	-	47	57.0	33.0	-
-	3D 32-160/1.5	1.5	2.0	-	IE3	-	-	83.5	84.3	84.6	-	1.77	-	5.8	3.3	-	-	47.4	27.4	-
3D 32-160/2.2 M	3D 32-160/2.2	2.2	3.0	-	IE2	50	450	83.1	85.7	86.2	2.95	2.55	13.3	7.8	4.5	-	63.8	75.0	43.5	-
-	3D 32-160/2.2	2.2	3.0	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7	-	-	66.6	38.4	-
-	3D 32-200/3.0	3.0	4.0	-	IE2	-	-	85.0	86.7	86.3	-	3.48	-	10.6	6.1	-	-	100.0	57.7	-
-	3D 32-200/3.0	3.0	4.0	-	IE3	-	-	85.9	87.5	87.1	-	3.44	-	11.1	6.4	-	-	90.0	52.0	-
-	3D 32-200/4.0	4.0	5.5	-	IE2	-	-	84.3	87.2	87.8	-	4.56	-	15.1	8.7	-	-	151.0	87.0	-
-	3D 32-200/4.0	4.0	5.5	-	IE3	-	-	85.8	88.3	88.4	-	4.52	-	15.1	8.7	-	-	131.8	76.1	-
-	3D 32-200/7.5	7.5	10.0	-	IE3	-	-	89.0	90.7	90.8	-	8.26	-	-	13.6	7.9	-	-	144.0	83.0
3D 40-125/1.5 M	3D 40-125/1.5	1.5	2.0	-	IE2	40	450	79.5	82.0	82.5	2.10	1.82	9.6	5.6	3.2	-	47	57.0	33.0	-
-	3D 40-125/1.5	1.5	2.0	-	IE3	-	-	83.5	84.3	84.6	-	1.77	-	5.8	3.3	-	-	47.4	27.4	-
3D 40-125/2.2 M	3D 40-125/2.2	2.2	3.0	-	IE2	50	450	83.1	85.7	86.2	2.95	2.55	13.3	7.8	4.5	-	63.8	75.0	43.5	-
-	3D 40-125/2.2	2.2	3.0	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7	-	-	66.6	38.4	-
-	3D 40-160/3.0	3.0	4.0	-	IE2	-	-	85.0	86.7	86.3	-	3.48	-	10.6	6.1	-	-	100.0	57.7	-
-	3D 40-160/3.0	3.0	4.0	-	IE3	-	-	85.9	87.5	87.1	-	3.44	-	11.1	6.4	-	-	90.0	52.0	-
-	3D 40-160/4.0	4.0	5.5	-	IE2	-	-	84.3	87.2	87.8	-	4.56	-	15.1	8.7	-	-	151.0	87.0	-
-	3D 40-160/4.0	4.0	5.5	-	IE3	-	-	85.8	88.3	88.4	-	4.52	-	15.1	8.7	-	-	131.8	76.1	-
-	3D 40-200/5.5	5.5	7.5	-	IE2	-	-	82.9	86.0	87.4	-	6.29	-	-	10.4	6.0	-	-	116.0	67.0
-	3D 40-200/5.5	5.5	7.5	-	IE3	-	-	89.2	90.6	90.4	-	6.09	-	-	10.6	6.1	-	-	115.3	67.0
-	3D 40-200/7.5	7.5	10.0	-	IE3	-	-	89.0	90.7	90.8	-	8.26	-	-	13.6	7.9	-	-	144.0	83.0
-	3D 40-200/11	11.0	15.0	-	IE3	-	-	90.4	91.2	91.8	-	11.98	-	-	21.3	12.3	-	-	184.0	107.0
3D 50-125/2.2 M	3D 50-125/2.2	2.2	3.0	-	IE2	50	450	83.1	85.7	86.2	2.95	2.55	13.3	7.8	4.5	-	63.8	75.0	43.5	-
-	3D 50-125/2.2	2.2	3.0	-	IE3	-	-	86.2	87.0	86.0	-	2.55	-	8.2	4.7	-	-	66.6	38.4	-
-	3D 50-125/3.0	3.0	4.0	-	IE2	-	-	85.0	86.7	86.3	-	3.48	-	10.6	6.1	-	-	100.0	57.7	-
-	3D 50-125/3.0	3.0	4.0	-	IE3	-	-	85.9	87.5	87.1	-	3.44	-	11.1	6.4	-	-	90.0	52.0	-
-	3D 50-125/4.0	4.0	5.5	-	IE2	-	-	84.3	87.2	87.8	-	4.56	-	15.1	8.7	-	-	151.0	87.0	-
-	3D 50-125/4.0	4.0	5.5	-	IE3	-	-	85.8	88.3	88.4	-	4.52	-	15.1	8.7	-	-	131.8	76.1	-
-	3D 50-160/5.5	5.5	7.5	-	IE2	-	-	82.9	86.0	87.4	-	6.29	-	-	10.4	6.0	-	-	116.0	67.0
-	3D 50-160/5.5	5.5	7.5	-	IE3	-	-	89.2	90.6	90.4	-	6.09	-	-	10.6	6.1	-	-	115.3	67.0
-	3D 50-160/7.5	7.5	10.0	-	IE3	-	-	89.0	90.7	90.8	-	8.26	-	-	13.6	7.9	-	-	144.0	83.0
-	3D 50-200/9.2	9.2	12.5	-	IE3	-	-	90.1	90.8	90.9	-	10.12	-	-	17.2	10.0	-	-	166.0	96.0
-	3D 50-200/11	11.0	15.0	-	IE3	-	-	90.4	91.2	91.8	-	11.98	-	-	21.3	12.3	-	-	184.0	107.0
-	3D 50-200/15	15.0	20.0	-	IE3	-	-	91.2	92.0	91.9	-	16.32	-	-	27.7	17.3	-	-	225.0	130.0
-	3D 65-125/4.0	4.0	5.5	-	IE2	-	-	84.3	87.2	87.8	-	4.56	-	15.1	8.7	-	-	151.0	87.0	-
-	3D 65-125/4	4.0	5.5	-	IE3	-	-	85.8	88.3	88.4	-	4.52	-	15.1	8.7	-	-	131.8	76.1	-
-	3D 65-125/5.5	5.5	7.5	-	IE2	-	-	82.9	86.0	87.4	-	6.29	-	-	10.4	6.0	-	-	116.0	67.0
-	3D 65-125/5.5	5.5	7.5	-	IE3	-	-	89.2	90.6	90.4	-	6.09	-	-	10.6	6.1	-	-	115.3	67.0
-	3D 65-125/7.5	7.5	10.0	-	IE3	-	-	89.0	90.7	90.8	-	8.26	-	-	13.6	7.9	-	-	144.0	83.0
-	3D 65-160/7.5	7.5	10.0	-	IE3	-	-	89.0	90.7	90.8	-	8.26	-	-	13.6	7.9	-	-	144.0	83.0
-	3D 65-160/9.2	9.2	12.5	-	IE3	-	-	90.1	90.8	90.9	-	10.12	-	-	17.2	10.0	-	-	166.0	96.0
-	3D 65-160/11	11.0	15.0	-	IE3	-	-	90.4	91.2	91.8	-	11.98	-	-	21.3	12.3	-	-	184.0	107.0
-	3D 65-160/15	15.0	20.0	-	IE3	-	-	91.2	92.0	91.9	-	16.32	-	-	27.7	17.3	-	-	225.0	130.0
-	3D 65-200/15	15.0	20.0	-	IE3	-	-	91.2	92.0	91.9	-	16.32	-	-	27.7	17.3	-	-	225.0	130.0
-	3D 65-200/18.5	18.5	25.0	-	IE3	-	-	91.6	93.0	92.6	-	19.98	-	-	35.0	20.3	-	-	328.0	190.0
-	3D 65-200/22	22.0	30.0	-	IE3	-	-	92.0	93.1	93.2	-	23.58	-	-	39.7	23.6	-	-	391.0	227.0

MOTOR DATA 3DS-3DP

Pump type		Motor Size	Motor		Efficiency	Input [kW]	Efficiency (% load) and power-factor				Full load current			Locked rotor current		
			Power [kW]	[HP]			η %	cos—φ	[A]			[A]				
									50%	75%	100%	230 V	400 V	690 V	230 V	400 V
3DS 32-125/1.1	3DP 32-125/1.1	80	1.1	1.5	IE2	1,35	79.5	81.2	81.5	0.78	4.3	2.5	-	29.4	17.0	-
			1.1	1.5	IE3	1.26	78.7	81.7	82.7	0.76	4.2	2.4	-	38.7	22.3	-
3DS 32-160/1.5	3DP 32-160/1.5	90 S	1.5	2	IE2	1.77	81,0	82.8	82.8	0.80	5.5	3.2	-	44.9	25.9	-
			1.5	2	IE3	1.77	83.2	84.8	84.2	0.85	5.2	3.0	-	43.6	25.2	-
3DS 32-160/2.2	3DP 32-160/2.2	90L	2.2	3	IE2	2.59	82.5	84.0	84.0	0.85	7.6	4.4	-	64.8	37.4	-
			2.2	3	IE3	2.61	85.0	86.2	86.5	0.82	8.0	4.6	-	73.3	42.3	-
3DS 32-200/3.0	3DP 32-200/3.0	100L	3	4	IE2	3,43	84.1	85.8	85.5	0.84	10.2	5.9	-	81.8	47.2	-
			3	4	IE3	3.45	82.3	85.8	87.1	0.89	9.7	5.6	-	85.4	49.3	-
3DS 32-200/4.0	3DP 32-200/4.0	112M	4	5.5	IE2	4,64	85.2	86.4	86.1	0.86	13.5	7.8	-	110.9	64.0	-
			4	5.5	IE3	4.51	86.8	87.8	88.1	0.93	12.1	7.0	-	116.4	67.2	-
3DS 32-200/7.5	3DP 32-200/7.5	132S	7.5	10	IE3	8.35	88.6	89.2	90.1	0.92	-	13.1	7.6	-	116.6	67.3
3DS 40-125/1.5	3DP 40-125/1.5	90S	1.5	2	IE2	1,77	81.0	82.8	82.8	0.80	5.5	3.2	-	44.9	25.9	-
			1.5	2	IE3	1.77	83.2	84.8	84.2	0.85	5.2	3.0	-	43.6	25.2	-
3DS 40-125/2.2	3DP 40-125/2.2	90L	2.2	3	IE2	2,59	82.5	84.0	84.0	0.85	7.6	4.4	-	64.8	37.4	-
			2.2	3	IE3	2.61	85.0	86.2	86.5	0.82	8.0	4.6	-	73.3	42.3	-
3DS 40-160/3.0	3DP 40-160/3.0	100L	3	4	IE2	3,43	84.1	85.8	85.5	0.84	10.2	5.9	-	81.8	47.2	-
			3	4	IE3	3.45	82.3	85.8	87.1	0.89	9.7	5.6	-	85.4	49.3	-
3DS 40-160/4.0	3DP 40-160/4.0	112M	4	5.5	IE2	4,64	85.2	86.4	86.1	0.86	13.5	7.8	-	110.9	64.0	-
			4	5.5	IE3	4.51	86.8	87.8	88.1	0.93	12.1	7.0	-	116.4	67.2	-
3DS 40-200/5.5	3DP 40-200/5.5	132S	5.5	7.5	IE2	6,34	85.8	87.4	87.3	0.88	-	10.4	6.0	-	83.2	48.0
			5.5	7.5	IE3	6.24	88.0	88.5	89.2	0.90	-	10.0	5.8	-	89.0	51.4
3DS 40-200/7.5	3DP 40-200/7.5	160M	7.5	10	IE3	8.35	88.6	89.2	90.1	0.92	-	13.1	7.6	-	116.6	67.3
3DS 40-200/11	3DP 40-200/11		11	15	IE3	12.15	87.4	89.8	91.2	0.89	-	19.7	11.4	-	179.3	103.5
3DS 50-125/2.2	3DP 50-125/2.2	90L	2.2	3	IE2	2,59	82.5	84.0	84.0	0.85	7.6	4.4	-	64.8	37.4	-
			2.2	3	IE3	2.61	85.0	86.2	86.5	0.82	8.0	4.6	-	73.3	42.3	-
3DS 50-125/3.0	3DP 50-125/3.0	100L	3	4	IE2	3,43	84.1	85.8	85.5	0.84	10.2	5.9	-	81.8	47.2	-
			3	4	IE3	3.45	82.3	85.8	87.1	0.89	9.7	5.6	-	85.4	49.3	-
3DS 50-125/4.0	3DP 50-125/4.0	112M	4	5.5	IE2	4,64	85.2	86.4	86.1	0.86	13.5	7.8	-	110.9	64.0	-
			4	5.5	IE3	4.51	86.8	87.8	88.1	0.93	12.1	7.0	-	116.4	67.2	-
3DS 50-160/5.5	3DP 50-160/5.5	132S	5.5	7.5	IE2	6,34	85.8	87.4	87.3	0.88	-	10.4	6.0	-	83.2	48.0
			5.5	7.5	IE3	6.24	88.0	88.5	89.2	0.90	-	10.0	5.8	-	89.0	51.4
3DS 50-160/7.5	3DP 50-160/7.5	132M	7.5	10	IE3	8.35	88.6	89.2	90.1	0.92	-	13.1	7.6	-	116.6	67.3
3DS 50-200/9.2	3DP 50-200/9.2		9.2	12.5	IE3	10.17	88.6	89.8	90.7	0.89	-	16.5	9.5	-	166.7	96.2
3DS 50-200/11	3DP 50-200/11	160M	11	15	IE3	12.15	87.4	89.8	91.2	0.89	-	19.7	11.4	-	179.3	103.5
3DS 50-200/15	3DP 50-200/15		15	20	IE3	16.46	91.0	91.3	91.9	0.89	-	26.7	15.4	-	259.0	149.5
3DS 65-125/4	3DP 65-125/4	112M	4	5.5	IE2	4,64	85.2	86.4	86.1	0.86	13.5	7.8	-	110.9	64.0	-
			4	5.5	IE3	4.51	86.8	87.8	88.1	0.93	12.1	7.0	-	116.4	67.2	-
3DS 65-125/5.5	3DP 65-125/5.5	132S	5.5	7.5	IE2	6,34	85.8	87.4	87.3	0.88	-	10.4	6.0	-	83.2	48.0
			5.5	7.5	IE3	6.24	88.0	88.5	89.2	0.90	-	10.0	5.8	-	89.0	51.4
3DS 65-125/7.5	3DP 65-125/7.5	132M	7.5	10	IE3	8.35	88.6	89.2	90.1	0.92	-	13.1	7.6	-	116.6	67.3
3DS 65-160/7.5	3DP 65-160/7.5		7.5	10	IE3	8.35	88.6	89.2	90.1	0.92	-	13.1	7.6	-	116.6	67.3
3DS 65-160/9.2	3DP 65-160/9.2	160M	9.2	12.5	IE3	10.17	88.6	89.8	90.7	0.89	-	16.5	9.5	-	166.7	96.2
3DS 65-160/11	3DP 65-160/11		11	15	IE3	12.15	87.4	89.8	91.2	0.89	-	19.7	11.4	-	179.3	103.5
3DS 65-160/15	3DP 65-160/15	180M	15	20	IE3	16.46	91.0	91.3	91.9	0.89	-	26.7	15.4	-	259.0	149.5
3DS 65-200/15	3DP 65-200/15		15	20	IE3	16.46	91.0	91.3	91.9	0.89	-	26.7	15.4	-	259.0	149.5
3DS 65-200/18.5	3DP 65-200/18.5	160L	18.5	25	IE3	20.12	91.6	92.8	92.4	0.88	-	33.0	19.1	-	353.1	203.9
3DS 65-200/22	3DP 65-200/22	180M	22	30	IE3	23.69	92.3	92.9	92.9	0.90	-	38.0	22.0	-	361.0	209.0

3D NOISE DATA

Pump type	Power		L _{pA} - dB(A) *
	[kW]	[HP]	
3D 32-125/1.1 (M)	1,1	1,5	69
3D 32-160/1.5 (M)	1,5	2,0	
3D 32-160/2.2 (M)	2,2	3,0	
3D 32-200/3.0	3,0	4,0	76
3D 32-200/4.0	4,0	5,5	
3D 32-200/7.5	7,5	10,0	79
3D 40-125/1.5 (M)	1,5	2,0	69
3D 40-125/2.2 (M)	2,2	3,0	
3D 40-160/3.0	3,0	4,0	76
3D 40-160/4.0	4,0	5,5	
3D 40-200/5.5	5,5	7,5	79
3D 40-200/7.5	7,5	10,0	
3D 40-200/11	11,0	15,0	82
3D 50-125/2.2 (M)	2,2	3,0	69
3D 50-125/3.0	3,0	4,0	76
3D 50-125/4.0	4,0	5,5	
3D 50-160/5.5	5,5	7,5	79
3D 50-160/7.5	7,5	10,0	
3D 50-200/9.2	9,2	12,5	82
3D 50-200/11	11,0	15,0	
3D 50-200/15	15,0	20,0	86
3D 65-125/4.0	4,0	5,5	76
3D 65-125/5.5	5,5	7,5	79
3DM 65-125/7.5	7,5	10,0	
3D 65-160/7.5	7,5	10,0	
3D 65-160/9.2	9,2	12,5	82
3D 65-160/11	11,0	15,0	
3D 65-160/15	15,0	20,0	86
3D 65-200/15	15,0	20,0	
3D 65-200/18.5	18,5	25,0	
3D 65-200/22	22,0	30,0	

* Mean value of several measures at 1m distance around the pump.
Tolerance ± 2.5 dB.

3DS-3DP NOISE DATA

Pump type		Motor Size	Motor Power		L _{pA} - dB(A) *
			[kW]	[HP]	
3DS 32-125/1.1	3DP 32-125/1.1	80	1.1	1.5	<70
3DS 32-160/1.5	3DP 32-160/1.5	90S	1.5	2	
3DS 32-160/2.2	3DP 32-160/2.2	90L	2.2	3	
3DS 32-200/3.0	3DP 32-200/3.0	100L	3	4	
3DS 32-200/4.0	3DP 32-200/4.0	112M	4	5.5	
3DS 32-200/7.5	3DP 32-200/7.5	132S	7.5	10	72
3DS 40-125/1.5	3DP 40-125/1.5	90S	1.5	2	<70
3DS 40-125/2.2	3DP 40-125/2.2	90L	2.2	3	
3DS 40-160/3.0	3DP 40-160/3.0	100L	3	4	
3DS 40-160/4.0	3DP 40-160/4.0	112M	4	5.5	
3DS 40-200/5.5	3DP 40-200/5.5	132S	5.5	7.5	72
3DS 40-200/7.5	3DP 40-200/7.5		7.5	10	
3DS 40-200/11	3DP 40-200/11	160M	11	15	74
3DS 50-125/2.2	3DP 50-125/2.2	90L	2.2	3	<70
3DS 50-125/3.0	3DP 50-125/3.0	100L	3	4	
3DS 50-125/4.0	3DP 50-125/4.0	112M	4	5.5	
3DS 50-160/5.5	3DP 50-160/5.5	132S	5.5	7.5	72
3DS 50-160/7.5	3DP 50-160/7.5		7.5	10	
3DS 50-200/9.2	3DP 50-200/9.2	132M	9.2	12.5	74
3DS 50-200/11	3DP 50-200/11	160M	11	15	
3DS 50-200/15	3DP 50-200/15		15	20	
3DS 65-125/4	3DP 65-125/4	112M	4	5.5	<70
3DS 65-125/5.5	3DP 65-125/5.5	132S	5.5	7.5	72
3DS 65-125/7.5	3DP 65-125/7.5		7.5	10	
3DS 65-160/7.5	3DP 65-160/7.5		7.5	10	
3DS 65-160/9.2	3DP 65-160/9.2	132M	9.2	12.5	
3DS 65-160/11	3DP 65-160/11	160M	11	15	74
3DS 65-160/15	3DP 65-160/15		15	20	
3DS 65-200/15	3DP 65-200/15		15	20	
3DS 65-200/18.5	3DP 65-200/18.5	160L	18.5	25	
3DS 65-200/22	3DP 65-200/22	180M	22	30	77

* Mean value of several measures at 1m distance around the pump.
Tolerance ± 2.5 dB.