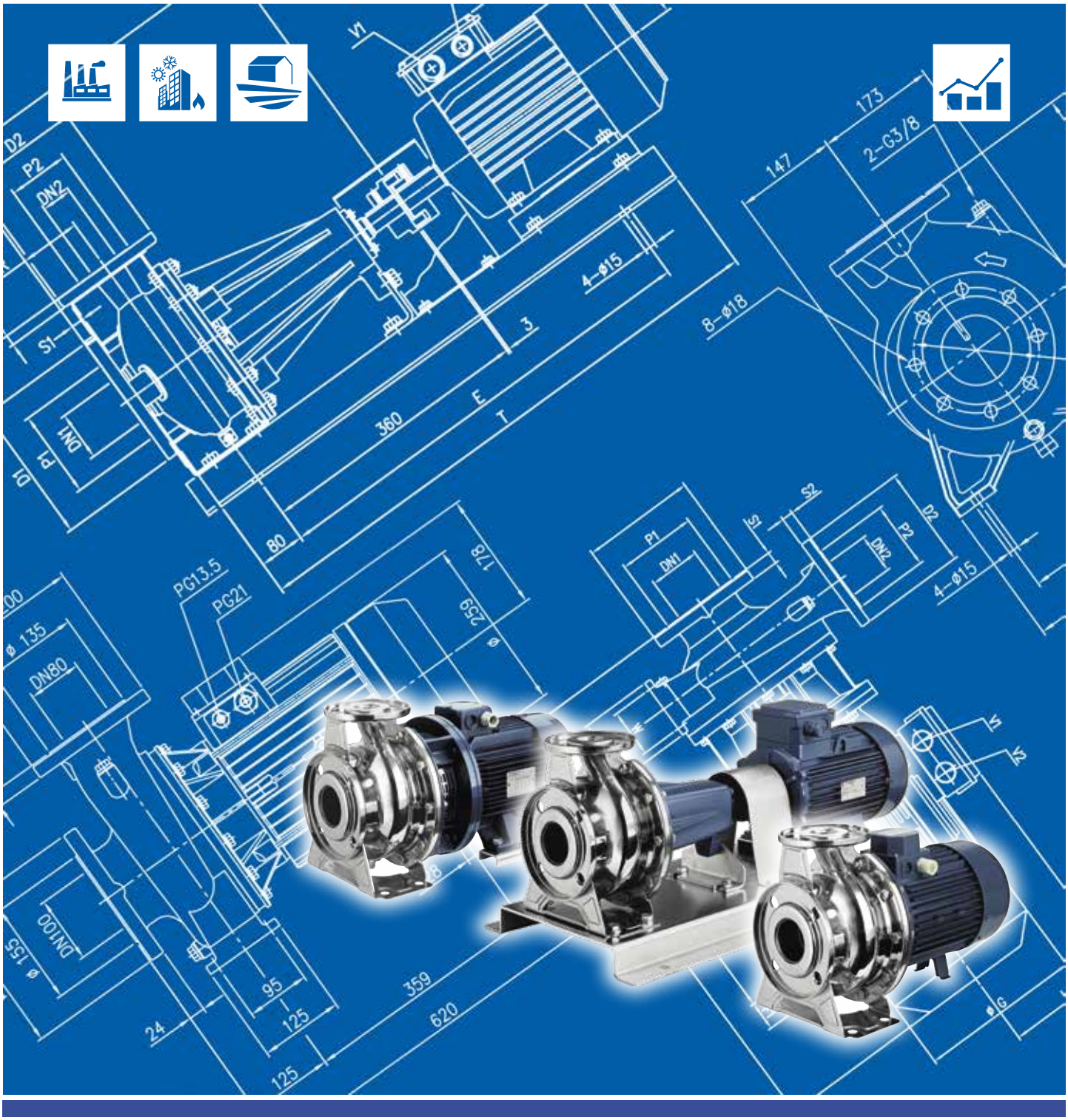
EBARA

Japanese Technology since 1912

3 SERIES 4P

Data Book 50Hz



CONTENTS

50Hz

Rev.AA

	Page
- SPECIFICATION	**200**
SPECIFICATION	201
SELECTION CHART	203-204
TYPE KEY AND CURVE SPECIFICATIONS	205-208
PERFORMANCE CURVE 32-125	209
PERFORMANCE CURVE 32-160	210
PERFORMANCE CURVE 32-200	211
PERFORMANCE CURVE 40-125	212
PERFORMANCE CURVE 40-160	213
PERFORMANCE CURVE 40-200	214
PERFORMANCE CURVE 50-125	215
PERFORMANCE CURVE 50-160	216
PERFORMANCE CURVE 50-200	217
PERFORMANCE CURVE 65-125	218
PERFORMANCE CURVE 65-160	219
PERFORMANCE CURVE 65-200	220
PERFORMANCE CURVE 65-250	221
PERFORMANCE CURVE 80-160	222
PERFORMANCE CURVE 80-200	223
PERFORMANCE CURVE 80-250	224
- CONSTRUCTION	**300**
SECTIONAL VIEW DRAWING 3(.)M4 32, 40, 50, 65-125/160/200	300
SECTIONAL VIEW TABLE 3(.)M4 32, 40, 50, 65-125/160/200	301
SECTIONAL VIEW DRAWING 3LM4 80-160	302
SECTIONAL VIEW TABLE 3LM4 80-160	303
SECTIONAL VIEW DRAWING 3LM4 65-250, 80-200/250	304
SECTIONAL VIEW TABLE 3LM4 65-250, 80-200/250	305
SECTIONAL VIEW DRAWING 3(.)S4 32, 40, 50, 65-125/160/200	306
SECTIONAL VIEW TABLE 3(.)S4 32, 40, 50, 65-125/160/200	307
SECTIONAL VIEW DRAWING 3LS4 80-160	308
SECTIONAL VIEW TABLE 3LS4 80-160	309
SECTIONAL VIEW DRAWING 3LS4 65-250, 80-200/250	310
SECTIONAL VIEW TABLE 3LS4 65-250, 80-200/250	311
SECTIONAL VIEW DRAWING 3(.)P4 32, 40, 50, 65-125/160/200	312
SECTIONAL VIEW TABLE 3(.)P4 32, 40, 50, 65-125/160/200	313
SECTIONAL VIEW DRAWING 3LP4 80-160	314
SECTIONAL VIEW DRAWING 3LP4 65-250, 80-200/250	315-316
SECTIONAL VIEW TABLE 3LP4 80-160	317
SECTIONAL VIEW TABLE 3LP4 65-250, 80-200/250	318

CONTENTS

50Hz

Rev.AA

BEARINGS 3(.)M4-3(.)S4	319
BEARINGS 3(.)P4	320
MECHANICAL SEAL (standard, H and E version)	321
MECHANICAL SEAL (L version Ø 22)	322
MECHANICAL SEAL (L version Ø 30)	323
MECHANICAL SEAL (HS version)	324
MECHANICAL SEAL (HW and HSW version)	325
FLUID TEMPERATURE RANGE	326
COUPLING 3(.)S4	327
FLEXIBLE COUPLING 3(.)P4	328
FITTINGS	329-330
- DIMENSIONS AND WEIGHT	**400**
PUMP 3(.)M4 32, 40, 50, 65-125/160/200	400
PUMP 3(.)M4 65-250, 80-160/200, 80-250/5.5	401
PUMP 3(.)M4 80-250/7.5	402
PUMP 3(.)S4 32, 40, 50, 65-125/160	403
PUMP 3(.)S4 50, 65-160/200	404
PUMP 3LS4 65-250, 80	405
PUMP 3LS4 80-160/1.5	406
PUMP 3(.)P4 32, 40, 50, 65-125/160/200	407
PUMP 3LP4 65-250, 80	408
PACKING 3(.)M4	409
PACKING 3(.)S4	410
PACKING 3(.)P4	411
- TECHNICAL DATA	**500**
MOTOR DATA 3(.)M4	500
MOTOR DATA 3(.)S4-3(.)P4	501
NOISE DATA 3(.)M4	502
NOISE DATA 3(.)S4-3(.)P4	503

3 SERIES 4 Poles

SELECTION CHART

50Hz

Rev.AA

Version		3M4	3S4	3P4	3LM4	3LS4	3LP4
Pump sizes	32-125	■	■	■	●	●	●
	32-160	■	■	■	●	●	●
	32-200	■	■	■	●	●	●
	40-125	■	■	■	●	●	●
	40-160	■	■	■	●	●	●
	40-200	■	■	■	●	●	●
	50-125	■	■	■	●	●	●
	50-160	■	■	■	●	●	●
	50-200	■	■	■	●	●	●
	65-125	■	■	■	●	●	●
	65-160	■	■	■	●	●	●
	65-200	■	■	■	●	●	●
	65-250	-	-	-	●	●	●
	80-160	-	-	-	●	●	●
	80-200	-	-	-	●	●	●
	80-250	-	-	-	●	●	●

■ Available also with H, HS, HW, HSW, E version.

● Available also with H, HW, HSW, E version.

– Not available.

3 SERIES 4 Poles

SELECTION CHART

50Hz

Rev.AA

PUMP									
Version				3M4	3S4	3P4	3LM4	3LS4	3LP4
Liquid Handled	Type of liquid			Clean water and moderately aggressive fluids					
	Temperature [°C]			min. -10 max. +120 For full details see section “FLUID TEMPERATURE RANGE”					
Maximum working pressure [MPa]				1					
Construction	Impeller			Closed centrifugal type for 32, 40, 50 version Reinforced laser welding for 40-200/1.5, 50-200/2.2 Closed centrifugal three dimensional blades for 65 and 80 version					
	Shaft seal type			Mechanical seal			Mechanical seal with stationary ring secured against rotation		
	Bearing			Bearing with contact seal					
Pipe Connection	Suction	32-125/160/200		Flange DN50 according EN1092-1 Standard					
		40-125/160/200 50-125/160/200		Flange DN65 according EN1092-1 Standard					
		65-125/160/200/250		Flange DN80 according EN1092-1 Standard					
		80-160/200/250		Flange DN100 according EN1092-1 Standard					
	Discharge	32-125/160/200		Flange DN32 according EN1092-1 Standard					
		40-125/160/200		Flange DN40 according EN1092-1 Standard					
		50-125/160/200		Flange DN50 according EN1092-1 Standard					
		65-125/160/200/250		Flange DN65 according EN1092-1 Standard					
		80-160/200/250		Flange DN80 according EN1092-1 Standard					
Material	Casing	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-250 80-160/200/250		/			CF8M - EN 1.4408 (AISI 316)		
	Impeller	32-125/160/200 40-125/160/200 50-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-125/160/200		CF8M - EN 1.4408 (AISI 316)					
		65-250 80-160/200/250		/			CF8M - EN 1.4408 (AISI 316)		
	Casing cover	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-250 80-160/200/250		/			CF8M - EN 1.4408 (AISI 316)		
	Mechanical seal	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200		Ceramic/Carbon/NBR (See page 321÷325)			SiC/SiC/FPM (L version) (See page 321÷325)		
		65-250 80-160/200/250		/					
	O-ring			NBR (See page 321÷325)			FPM (See page 321÷325)		
	Shaft	32, 40, 50, 65	d=19	EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		50-200/2.2	d=22						
		80-160	d=19	/					
		65-250 80-200/250	d=24						
	Bracket			Cast iron - Aluminium					
Applicable standard of test				ISO 9906:2012 – Grade 3B					

for all the EPDM E version models (sizes 32-40-50):
Approvals for drinking water application
DM174/2004 (ICIM) approved product

SELECTION CHART

50Hz

Rev.AA

MOTOR				
Type		3(.)M4	3(.)S4	3(.)P4
		Electric - TEFC		
		Three Phase		
Efficiency level (Reg. 1781/2019)		IE2 from 0.25 kW up to 0.55 kW IE3 from 0.75 kW up to 7.5 kW		
No. of Poles		4		
Rotation speed	[min^{-1}]	≈ 1400		
Insulation Class		F (class B fot temperature rise)		
Protection degree (CEI EN 60034-5)		IP 55		
Power rating	[kW]	0.25 ÷ 7.5		
	[HP]	0.33 ÷ 10		
Frequency	[Hz]	50		
Voltage	[V]	230/400 ±10% (up to 4.0 kW) 400/690 ±10% (5.5 kW and above)		
Over load protection		Provided by the user		
Casing material		Aluminium		
Motor support		Cast iron - Alluminium		
Dimensions of cable entry		PG11 PG13.5 PG16 PG21 * M25X1,5 * M20X1,5	M20x1.5 M25x1.5 M32x1.5	
Flange mount (IEC motor)		/	IM B5 (up to 1.5 kW) IM B35 (2.2 kw and above)	IM B3

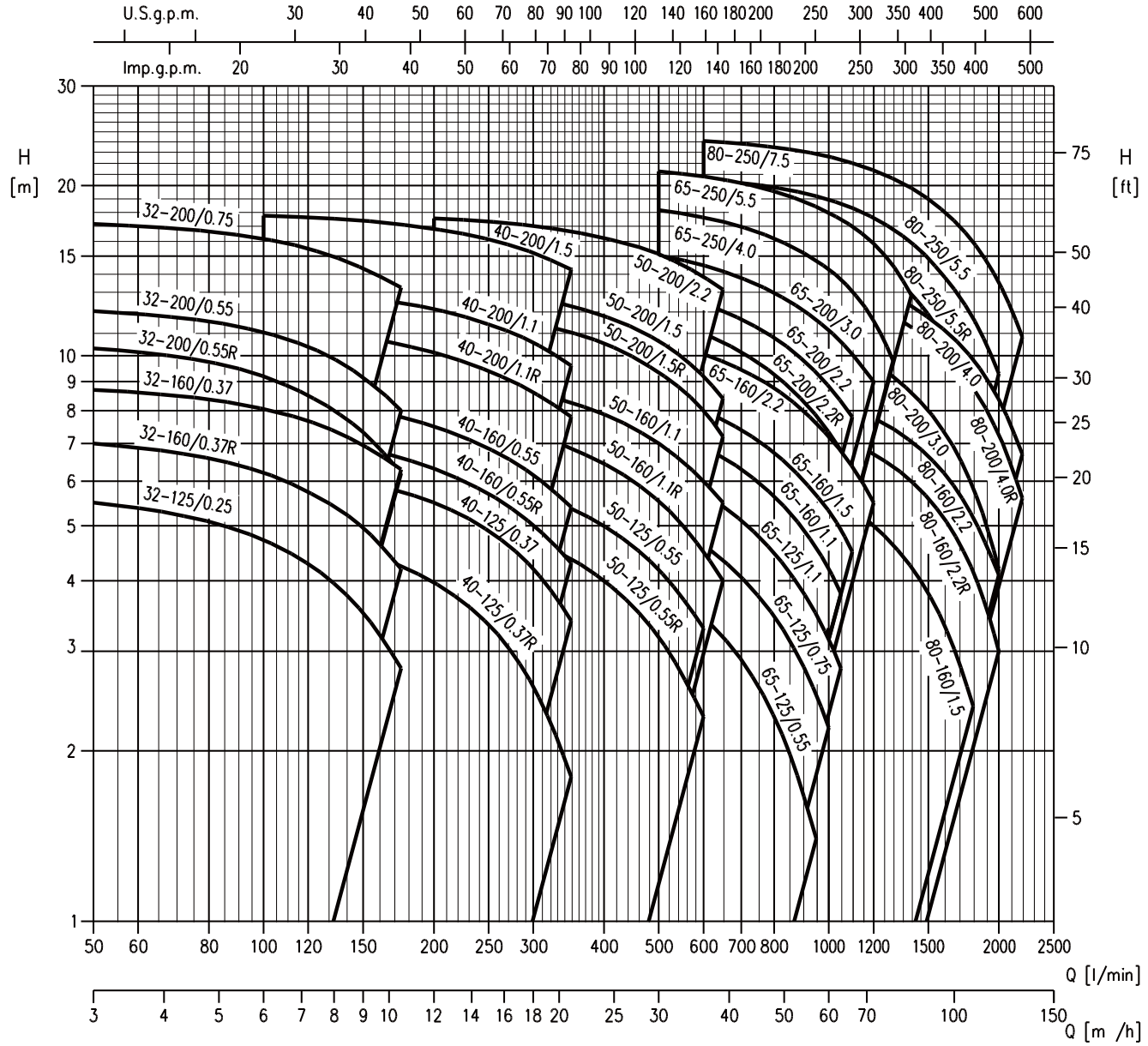
* Only for 65-250/4,80-200/4 models

3 SERIES 4 Poles

SELECTION CHART

50Hz

Rev.AA



SELECTION CHART

50Hz

Rev.AA

3 SERIES 4 Poles: 32, 40, 50 Version

Pump type	Power		Q=Capacity												
			l/min	0	50	100	150	175	200	250	300	350	400	500	600	650
	[kW]	[HP]	m³/h	0	3	6	9	10.5	12	15	18	21	24	30	36	39
			H=Total manometric head in meters													
32-125/0.25	0.25	0.33		5.7	5.5	4.7	3.5	2.8	-	-	-	-	-	-	-	-
32-160/0.37R	0.37	0.5		7.3	7	6.2	5	4.2	-	-	-	-	-	-	-	-
32-160/0.37	0.37	0.5		9	8.7	8.1	7	6.3	-	-	-	-	-	-	-	-
32-200/0.55R	0.55	0.75		10.8	10.3	9.2	7.3	6.2	-	-	-	-	-	-	-	-
32-200/0.55	0.55	0.75		12.5	12	11	9.2	8	-	-	-	-	-	-	-	-
32-200/0.75	0.75	1		17.5	17.1	16.1	14.3	13.2	-	-	-	-	-	-	-	-
40-125/0.37R	0.37	0.5		5.1	-	4.8	4.5	4.3	4	3.4	2.6	1.8	-	-	-	-
40-125/0.37	0.37	0.5		6.5	-	6.3	6	5.8	5.5	4.9	4.2	3.4	-	-	-	-
40-160/0.55R	0.55	0.75		7.7	-	7.3	6.9	6.6	6.3	5.7	5	4.3	-	-	-	-
40-160/0.55	0.55	0.75		9.1	-	8.6	8.1	7.8	7.5	6.9	6.2	5.4	-	-	-	-
40-200/1.1R	1.1	1.5		11.6	-	11.2	10.8	10.5	10.1	9.4	8.6	7.8	-	-	-	-
40-200/1.1	1.1	1.5		13.6	-	13.2	12.7	12.4	12.1	11.4	10.6	9.6	-	-	-	-
40-200/1.5	1.5	2		18	-	17.7	17.3	17.1	16.8	16.1	15.2	14.2	-	-	-	-
50-125/0.55R	0.55	0.75		5.4	-	-	-	-	5.2	5	4.7	4.4	4	3.2	2.3	-
50-125/0.55	0.55	0.75		6.4	-	-	-	-	6.2	6	5.7	5.4	5	4.2	3.3	-
50-160/1.1R	1.1	1.5		8.2	-	-	-	-	7.8	7.6	7.2	6.9	6.4	5.5	4.5	4
50-160/1.1	1.1	1.5		9.5	-	-	-	-	9.1	8.9	8.6	8.3	7.9	7	6	5.5
50-200/1.5R	1.5	2		12.7	-	-	-	-	12.1	11.8	11.4	11	10.5	9.3	8	7.2
50-200/1.5	1.5	2		14	-	-	-	-	13.3	13	12.7	12.2	11.8	10.6	9.2	8.4
50-200/2.2	2.2	3		17.8	-	-	-	-	17.5	17.3	17	16.6	16.2	15.1	13.8	13.1

3 SERIES 4 Poles: 65, 80 Version

Pump type	Power		Q=Capacity																
			l/min	0	300	350	500	600	800	950	1000	1050	1100	1200	1300	1400	1600	1800	2000	2200
	[kW]	[HP]	m³/h	0	18	21	30	36	48	57	60	63	66	72	78	84	96	108	120	132
			H=Total manometric head in meters																	
65-125/0.55	0.55	0.75		5.3	4.8	4.6	4	3.5	2.3	1.4	-	-	-	-	-	-	-	-	-	-
65-125/0.75	0.75	1		6.4	6	5.8	5.2	4.6	3.5	2.5	2.2	-	-	-	-	-	-	-	-	-
65-125/1.1	1.1	1.5		7.7	7.2	7	6.3	5.7	4.5	3.5	3.2	2.8	-	-	-	-	-	-	-	-
65-160/1.1	1.1	1.5		8.6	-	8.1	7.4	6.9	5.7	4.6	4.2	3.8	-	-	-	-	-	-	-	-
65-160/1.5	1.5	2		9.7	-	9.2	8.5	8	6.7	5.7	5.3	4.9	4.5	-	-	-	-	-	-	-
65-160/2.2	2.2	3		11.8	-	11.3	10.6	10.1	8.8	7.6	7.2	6.8	6.4	5.5	-	-	-	-	-	-
65-200/2.2R	2.2	3		13	-	12.4	11.6	10.9	9.3	7.8	7.3	6.8	-	-	-	-	-	-	-	-
65-200/2.2	2.2	3		14.5	-	13.9	13	12.4	10.8	9.3	8.8	8.3	7.8	-	-	-	-	-	-	-
65-200/3	3	4		16.3	-	15.8	15.1	14.4	12.9	11.6	11.1	10.6	10.1	9	-	-	-	-	-	-
65-250/4	4	5.5		18.8	-	-	18.1	17.6	16.1	14.7	14.2	13.7	13	11.6	9.8	-	-	-	-	-
65-250/5.5	5.5	7.5		21.8	-	-	21.2	20.8	19.6	18.4	17.9	17.5	17	15.8	14.4	12.8	-	-	-	-
80-160/1.5	1.5	2		7.3	-	-	-	6.8	6.3	5.9	5.7	5.6	5.4	5	4.6	4.2	3.4	2.4	-	-
80-160/2.2R	2.2	3		8.6	-	-	-	8.1	7.8	7.4	7.3	7.1	7	6.7	6.4	6	5.2	4.2	3	-
80-160/2.2	2.2	3		9.5	-	-	-	9.1	8.8	8.4	8.3	8.2	8	7.8	7.4	7.1	6.2	5.2	4.1	-
80-200/3	3	4		12.4	-	-	-	12	11.5	10.9	10.7	10.4	10.2	9.7	9.2	8.6	7.3	5.9	4.2	-
80-200/4R	4	5.5		14.8	-	-	-	14.4	13.9	13.4	13.2	12.9	12.7	12.2	11.7	11.2	10.1	8.8	7.2	5.6
80-200/4	4	5.5		16.0	-	-	-	15.4	14.9	14.3	14.1	13.9	13.7	13.2	12.8	12.3	11.1	9.9	8.4	6.7
80-250/5.5R	5.5	7.5		18.5	-	-	-	17.7	17	16.3	16	15.7	15.4	14.6	13.8	12.9	10.7	8.4	-	-
80-250/5.5	5.5	7.5		21.2	-	-	-	20.5	19.9	19.1	18.9	18.6	18.2	17.6	16.8	15.9	13.8	11.7	9.3	-
80-250/7.5	7.5	10		24.5	-	-	-	24	23.4	22.8	22.5	22.2	21.9	21.3	20.6	19.8	18	15.9	13.5	10.8

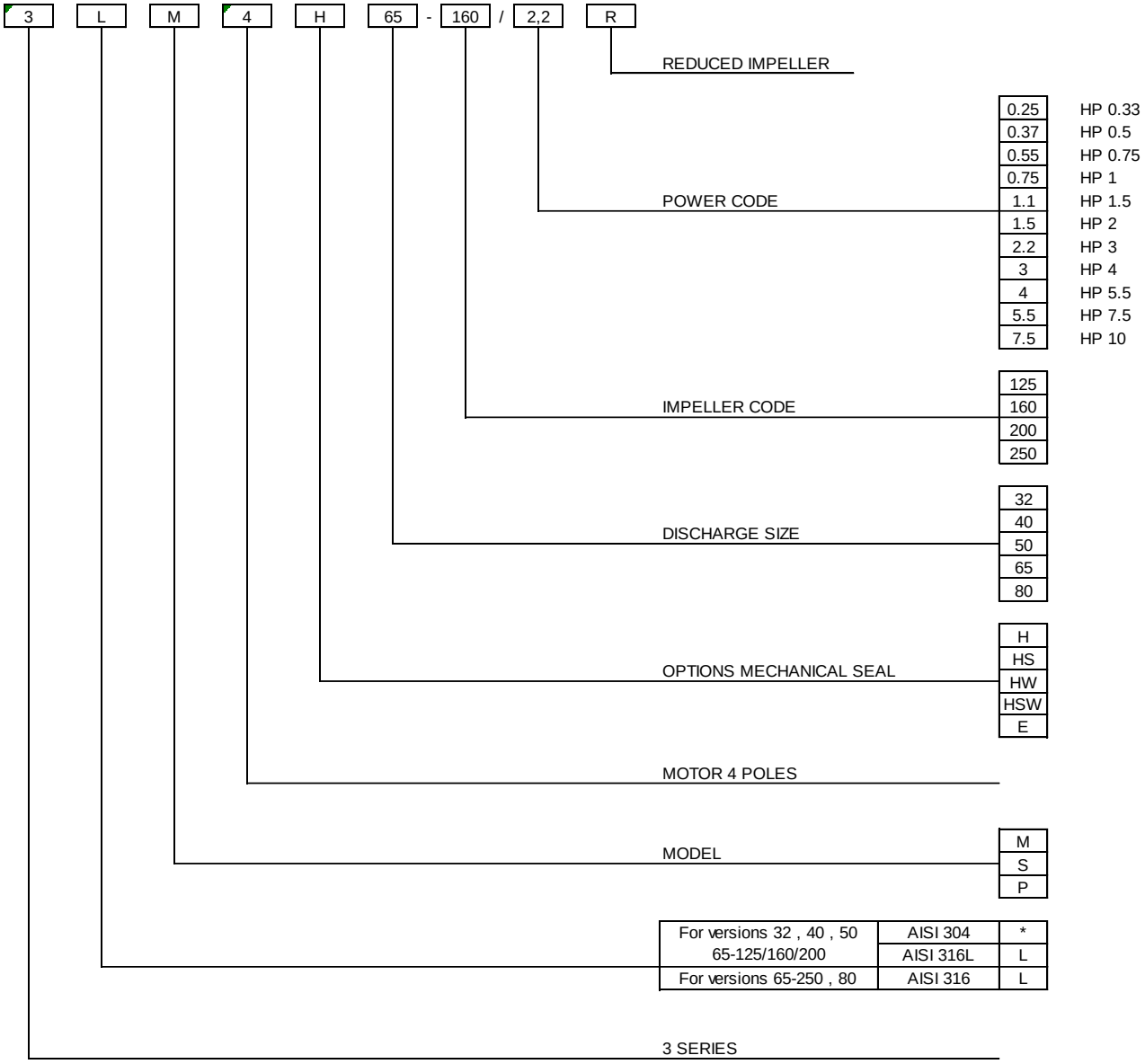
3 SERIES 4 Poles

TYPE KEY AND CURVE SPECIFICATIONS

50Hz

Rev.AA

TYPE KEY:



(*) No indication

TYPE KEY AND CURVE SPECIFICATIONS 50Hz

Rev.AA

PERFORMANCE CURVE SPECIFICATIONS

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

Tolerances according to ISO 9906:2012 - Grade 3B
The curves refer to effective speed of asynchronous motors at 50 Hz, 4 poles.
Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of ν = 1 mm^2/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
P_2	=	pump power input (shaft power)
η	=	pump efficiency
NPSH	=	net positive suction head required by the pump
MEI	=	minimum efficiency index

TYPE KEY AND CURVE SPECIFICATIONS 50Hz

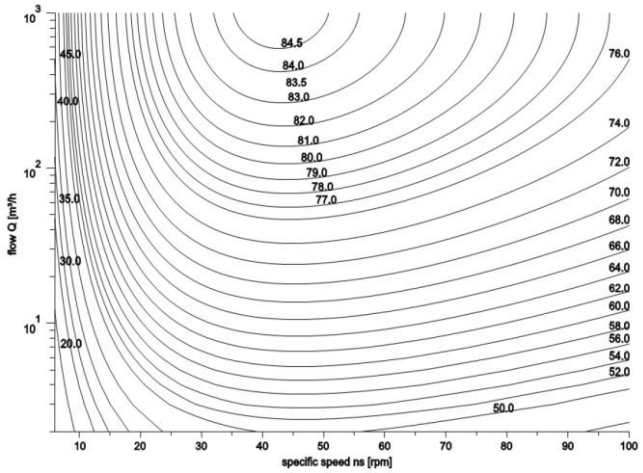
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The minimun efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

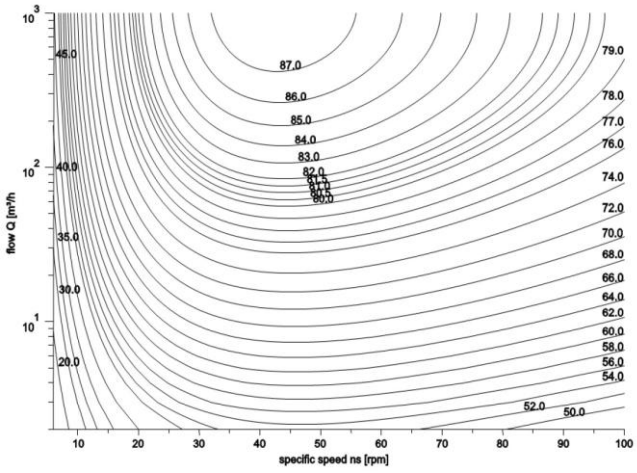
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point,leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

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

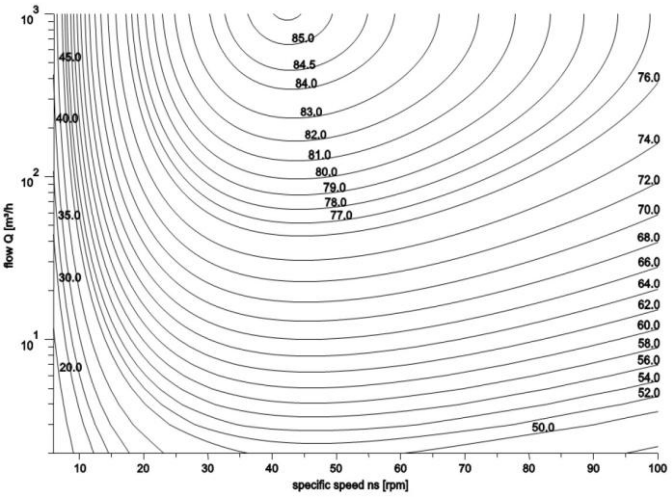
MEI=0.4 for ESCC 1450rpm



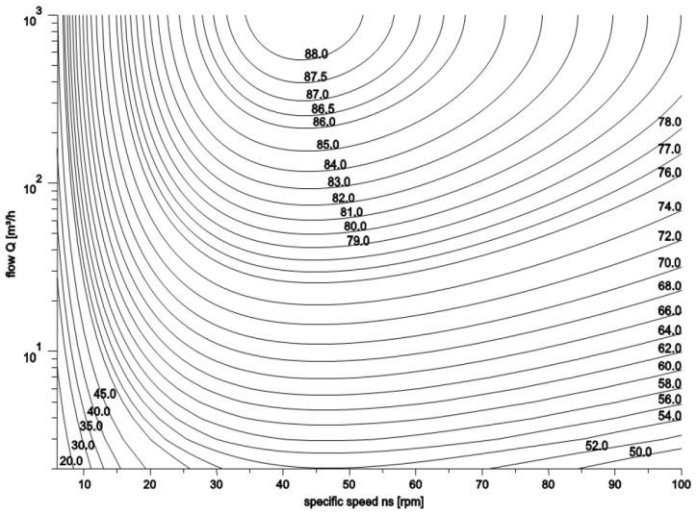
MEI = 0.7 for ESCC 1450rpm



MEI = 0.4 for ESOB 1450



MEI = 0.7 for ESOB 1450 rpm



TYPE KEY AND CURVE SPECIFICATIONS 50Hz

Rev.AA

MEI INDEX VALUE

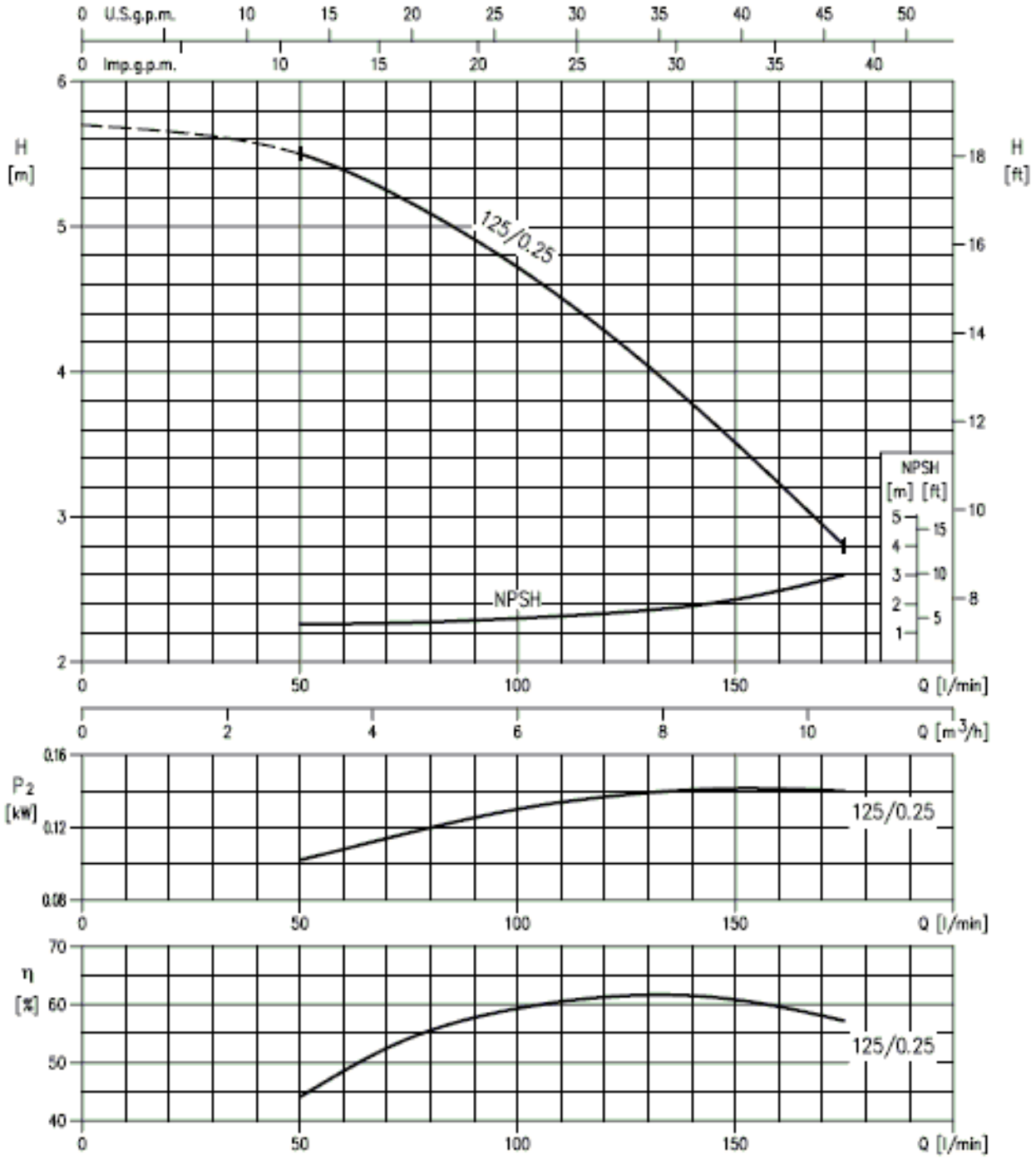
SIZE	MEI VALUE		
	3M4	3S4	3P4
32-125	≥ 0.7	≥ 0.7	≥ 0.7
32-160	≥ 0.6	≥ 0.6	≥ 0.5
32-200	≥ 0.7	≥ 0.7	≥ 0.7
40-125	≥ 0.6	≥ 0.6	≥ 0.5
40-160	≥ 0.7	≥ 0.7	≥ 0.7
40-200	≥ 0.7	≥ 0.7	≥ 0.7
50-125	≥ 0.7	≥ 0.7	≥ 0.6
50-160	≥ 0.6	≥ 0.6	≥ 0.5
50-200	≥ 0.7	≥ 0.7	≥ 0.7
65-125	≥ 0.5	≥ 0.5	≥ 0.5
65-160	≥ 0.5	≥ 0.5	≥ 0.4
65-200	≥ 0.7	≥ 0.7	≥ 0.6
65-250	≥ 0.7	≥ 0.7	≥ 0.7
80-160	≥ 0.6	≥ 0.6	≥ 0.5
80-200	≥ 0.5	≥ 0.5	≥ 0.4
80-250	≥ 0.6	≥ 0.6	≥ 0.5

PERFORMANCE CURVE

50Hz

Rev.AA

32-125/0.25 (0.25 kW) – impeller diameter = 133 mm



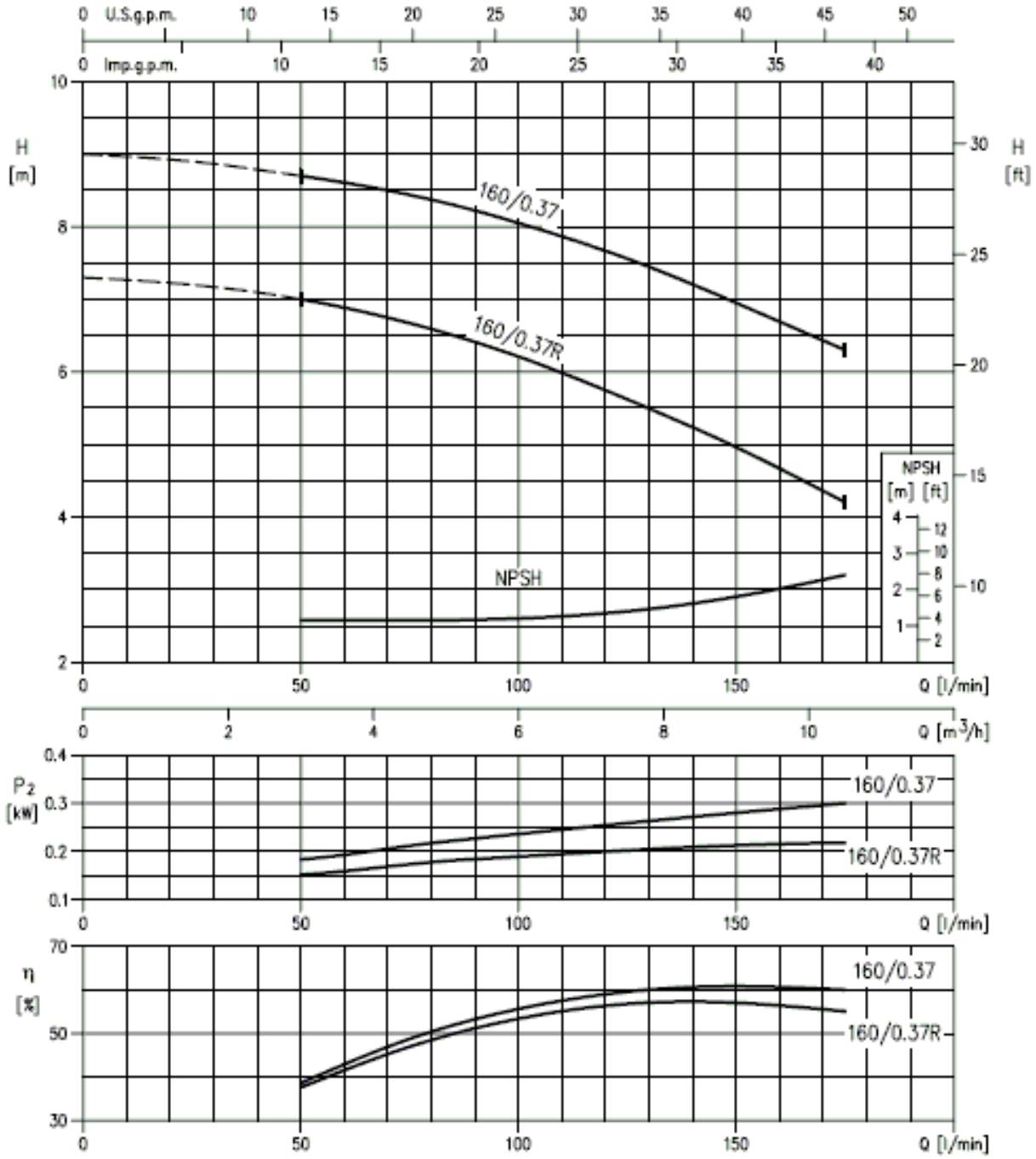
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

32-160/0.37R (0.37kW) – impeller diameter = 151 mm
32-160/0.37 (0.37kW) – impeller diameter = 166 mm



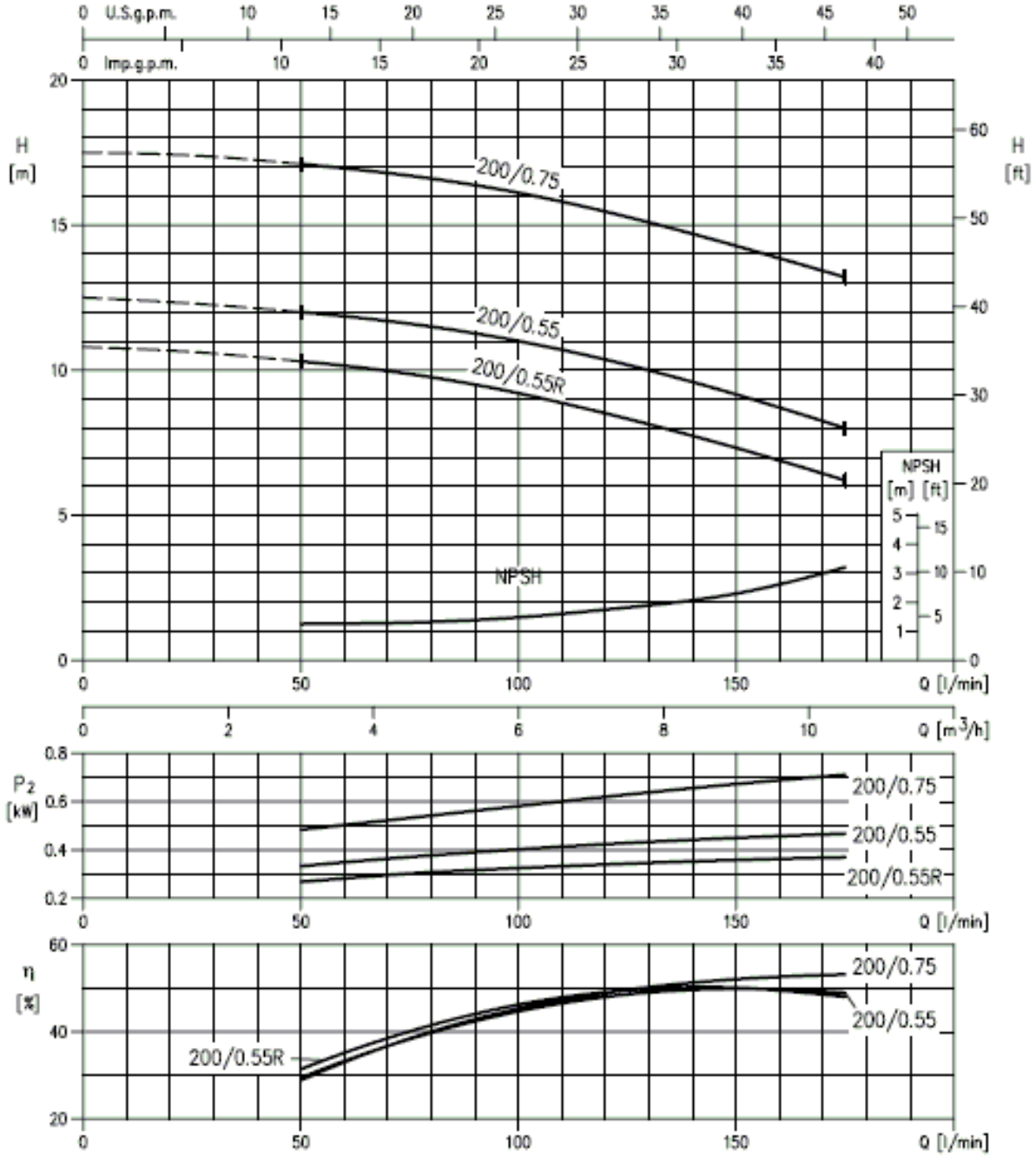
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

32-200/0.55R (0.55 kW) – impeller diameter = 186 mm
32-200/0.55 (0.55kW – impeller diameter = 200 mm
32-200/0.75 (0.55kW) – impeller diameter = 224 mm



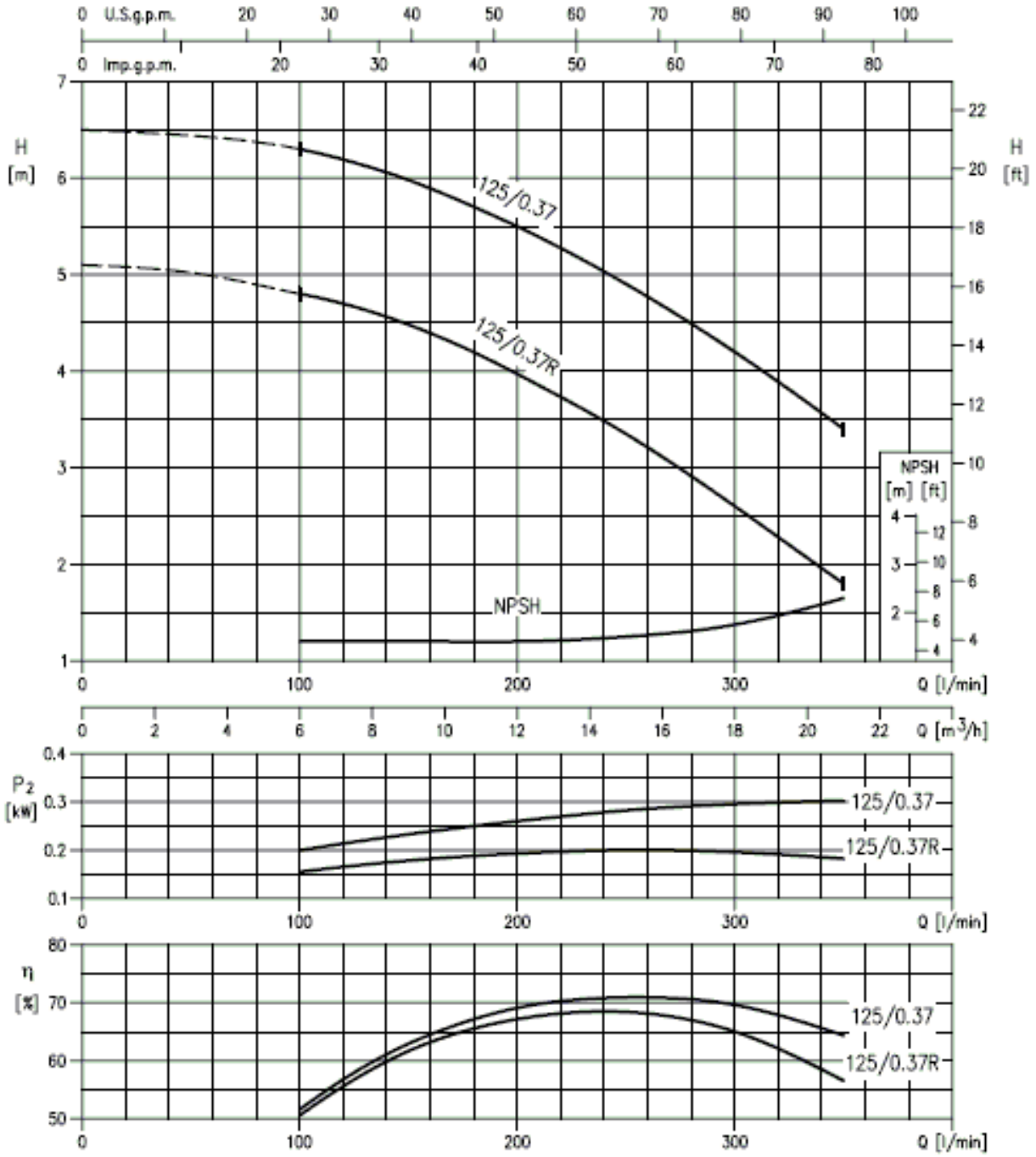
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

40-125/0.37R (0.37 kW) – impeller diameter = 125 mm
40-125/0.37 (0.37 kW) – impeller diameter = 140 mm



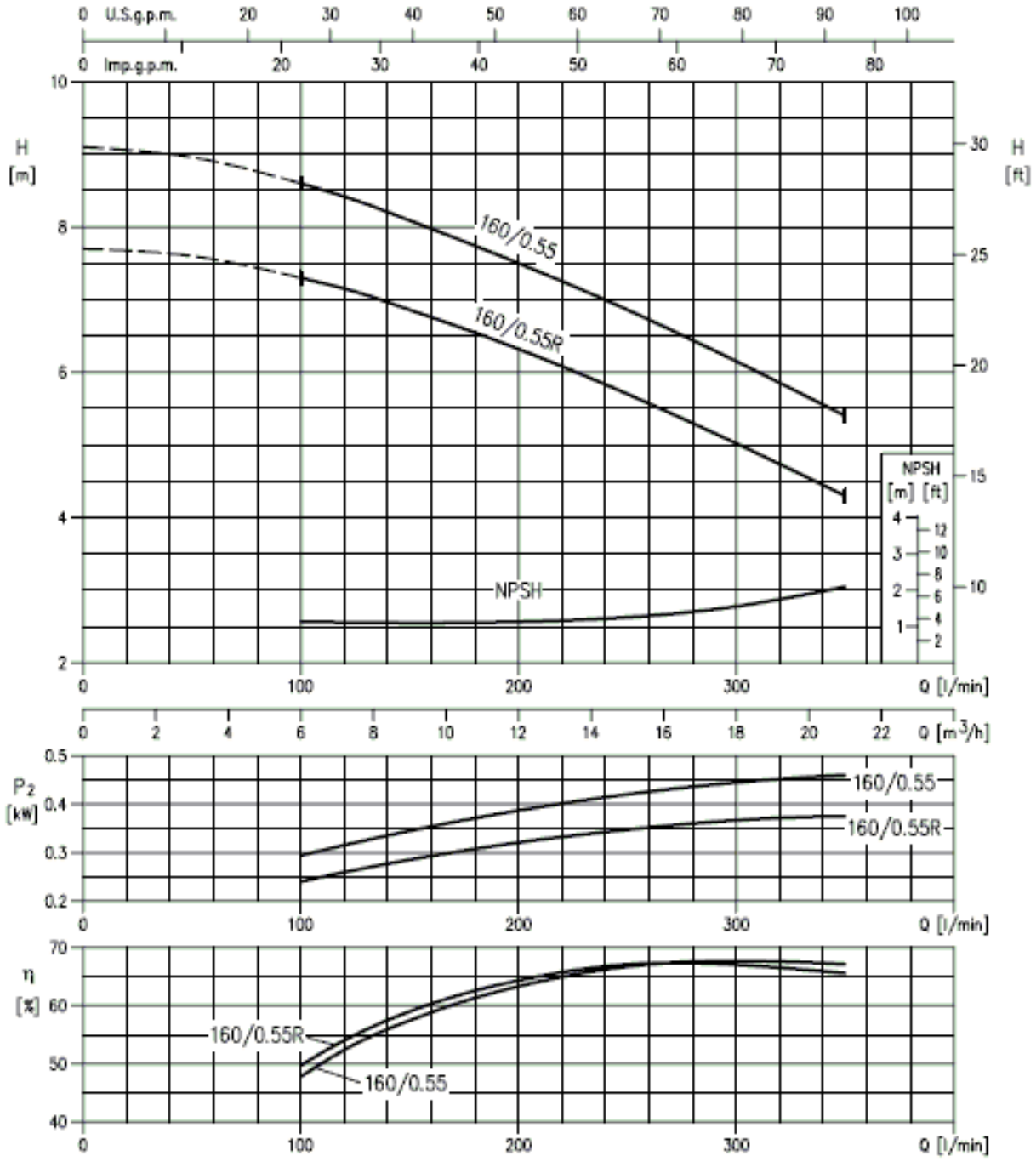
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

40-160/0.55R (0.55 kW) – impeller diameter = 151 mm
40-160/0.55 (0.55 kW) – impeller diameter = 166 mm



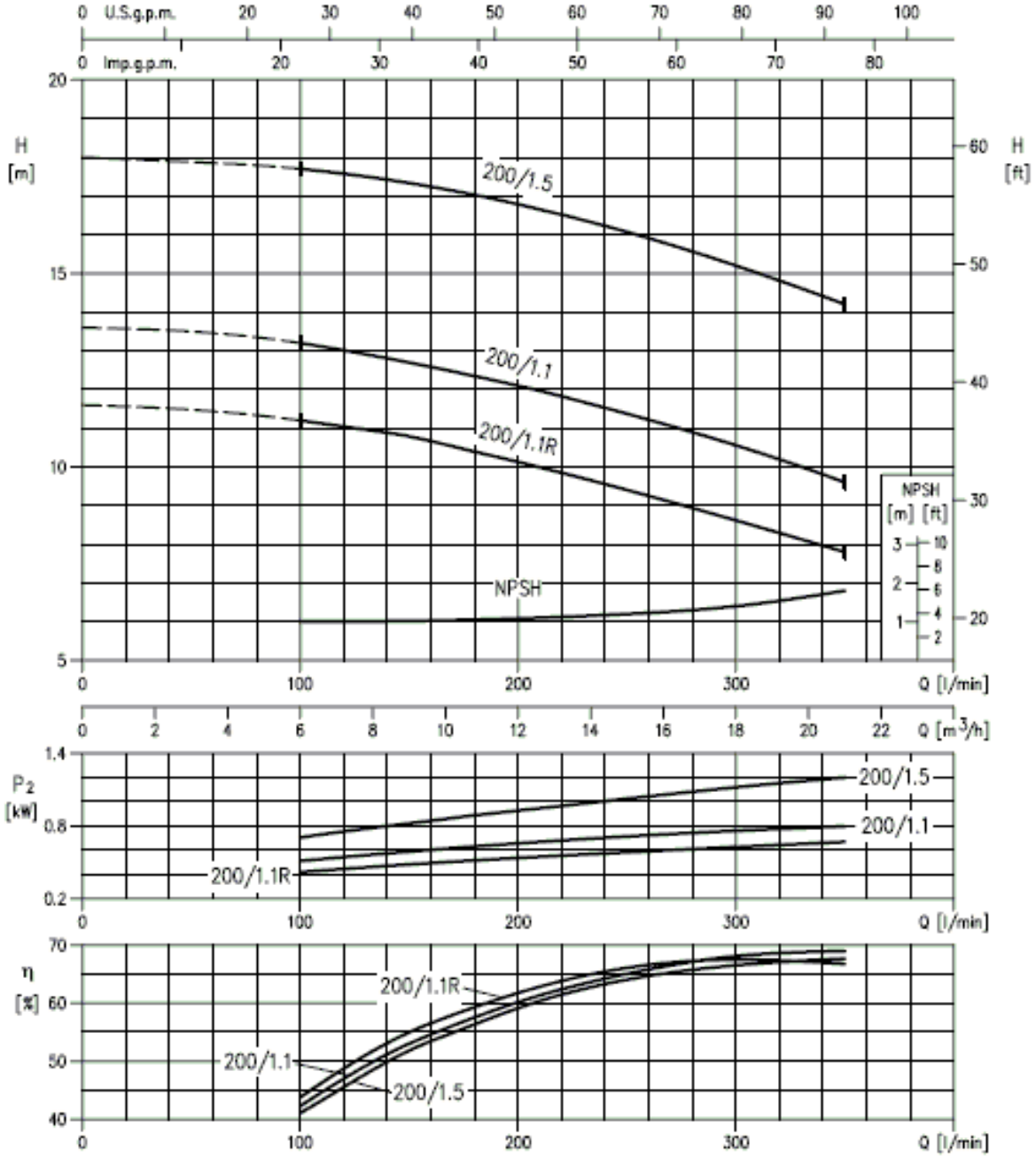
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

40-200/1.1R (1.1 kW) – impeller diameter = 183 mm
40-200/1.1 (1.1 kW) – impeller diameter = 200 mm
40-200/1.5 (1.5 kW) – impeller diameter = 224 mm



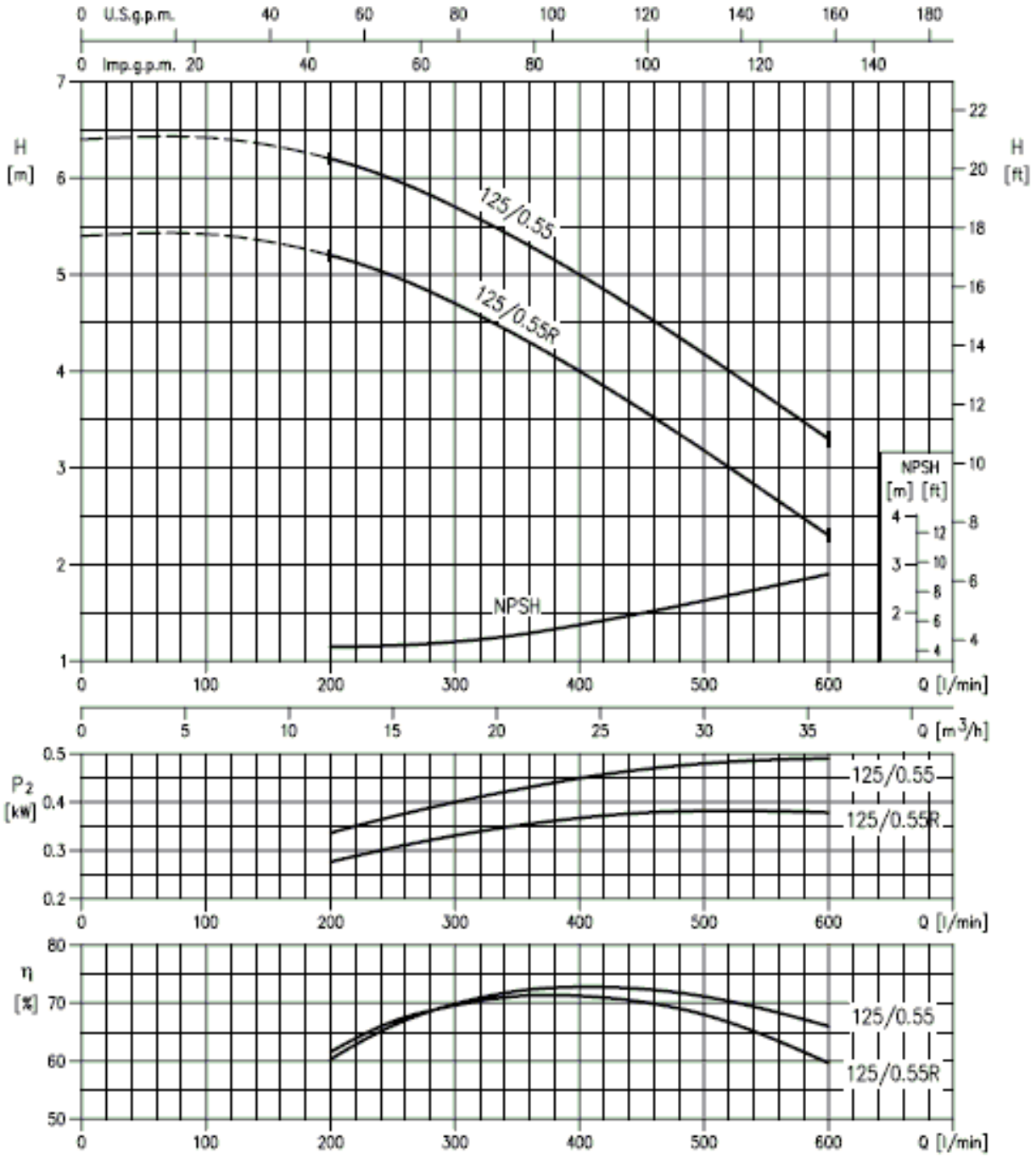
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

50-125/0.55R (0.55 kW) – impeller diameter = 131 mm
50-125/0.55 (0.55 kW) – impeller diameter = 140 mm



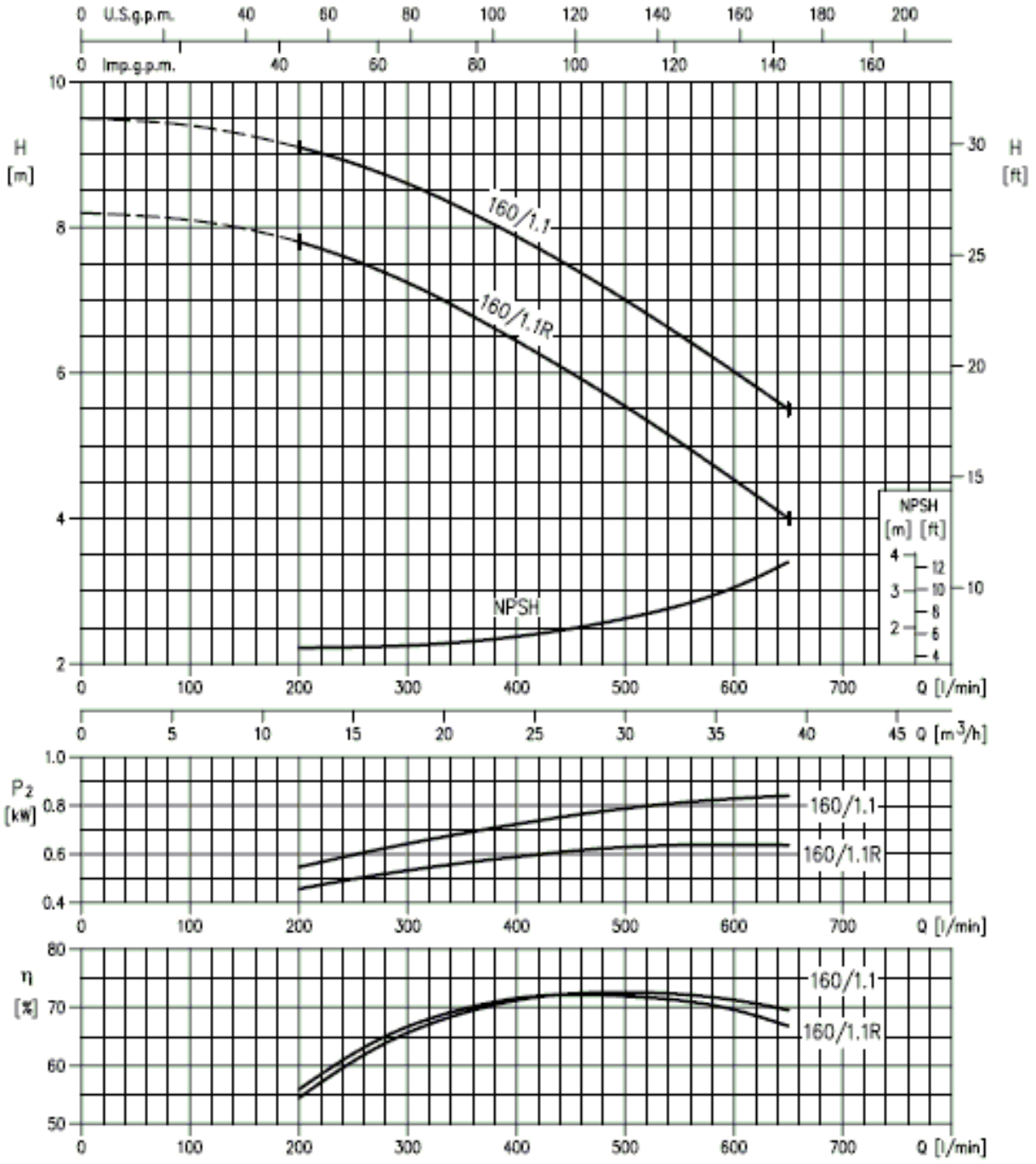
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

50-160/1.1R (1.1 kW) – impeller diameter = 154 mm
50-160/1.1 (1.1 kW) – impeller diameter = 166 mm



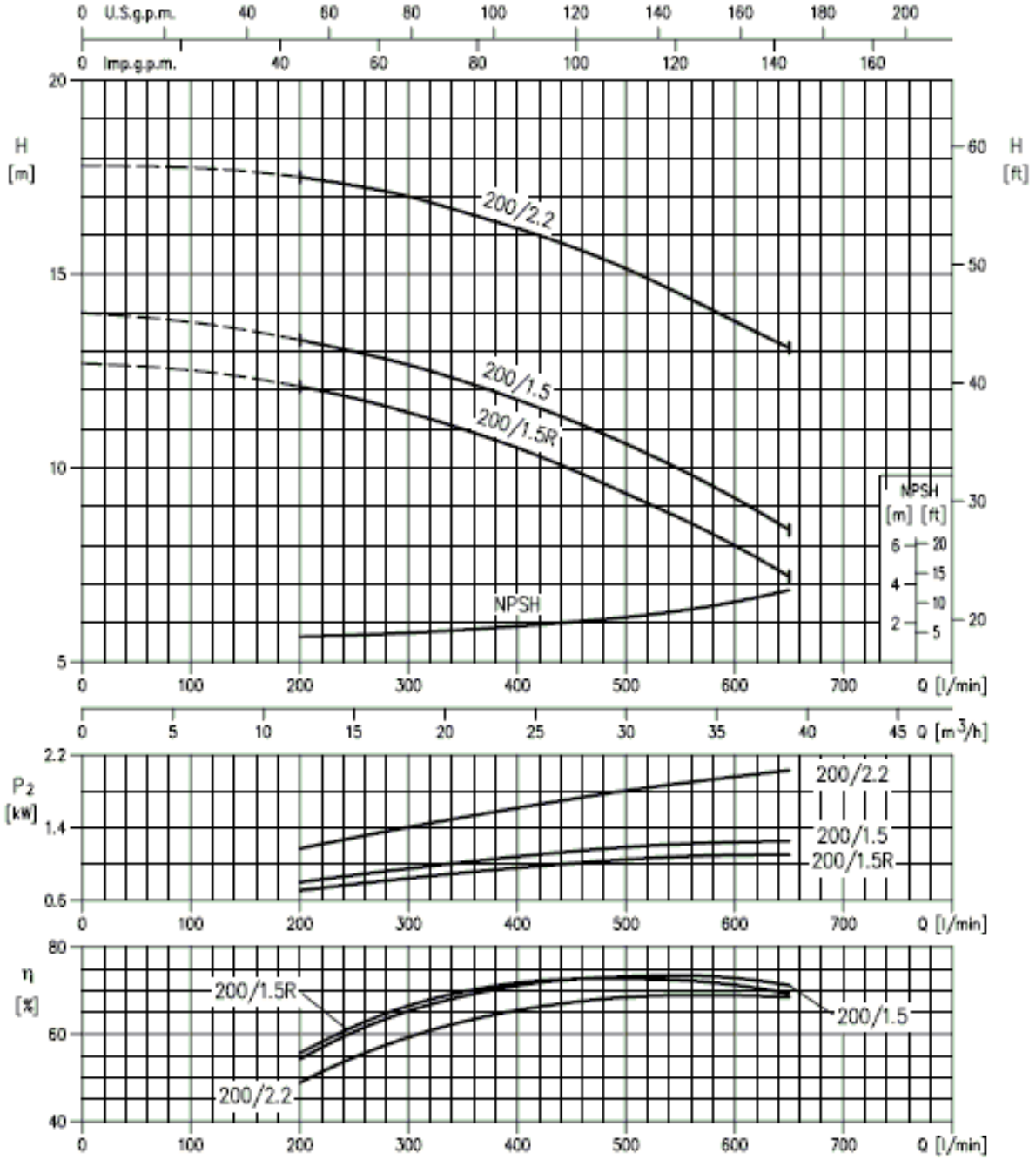
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

50-200/1.5R (1.5 kW) – impeller diameter = 191 mm
50-200/1.5 (1.5 kW) – impeller diameter = 200 mm
50-200/2.2 (2.2 kW) – impeller diameter = 224 mm



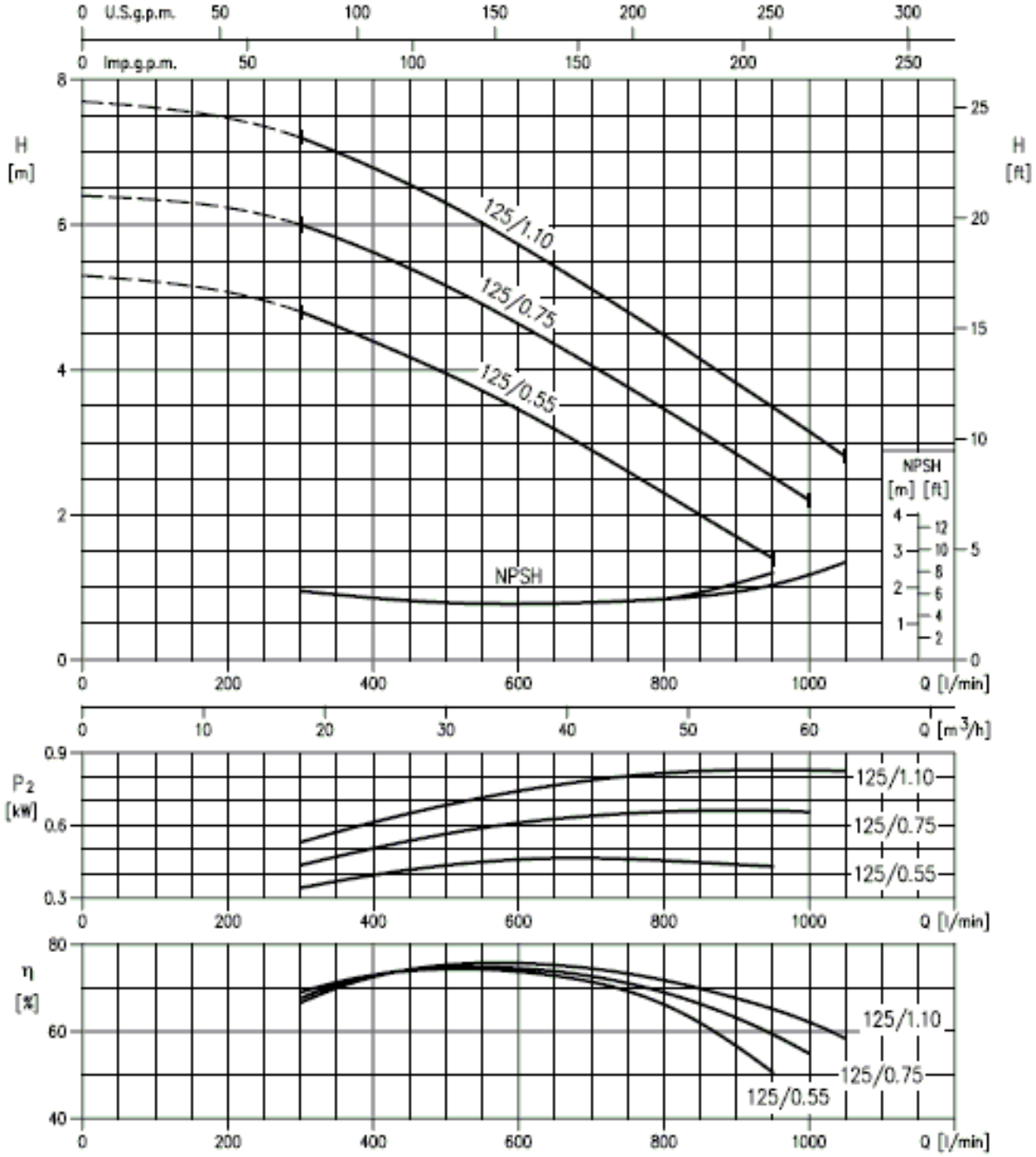
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

65-125/0.55 (0.55 kW) – impeller diameter = 128 mm
65-125/0.75 (0.75 kW) – impeller diameter = 138 mm
65-125/1.1 (1.1 kW) – impeller diameter = 149 mm



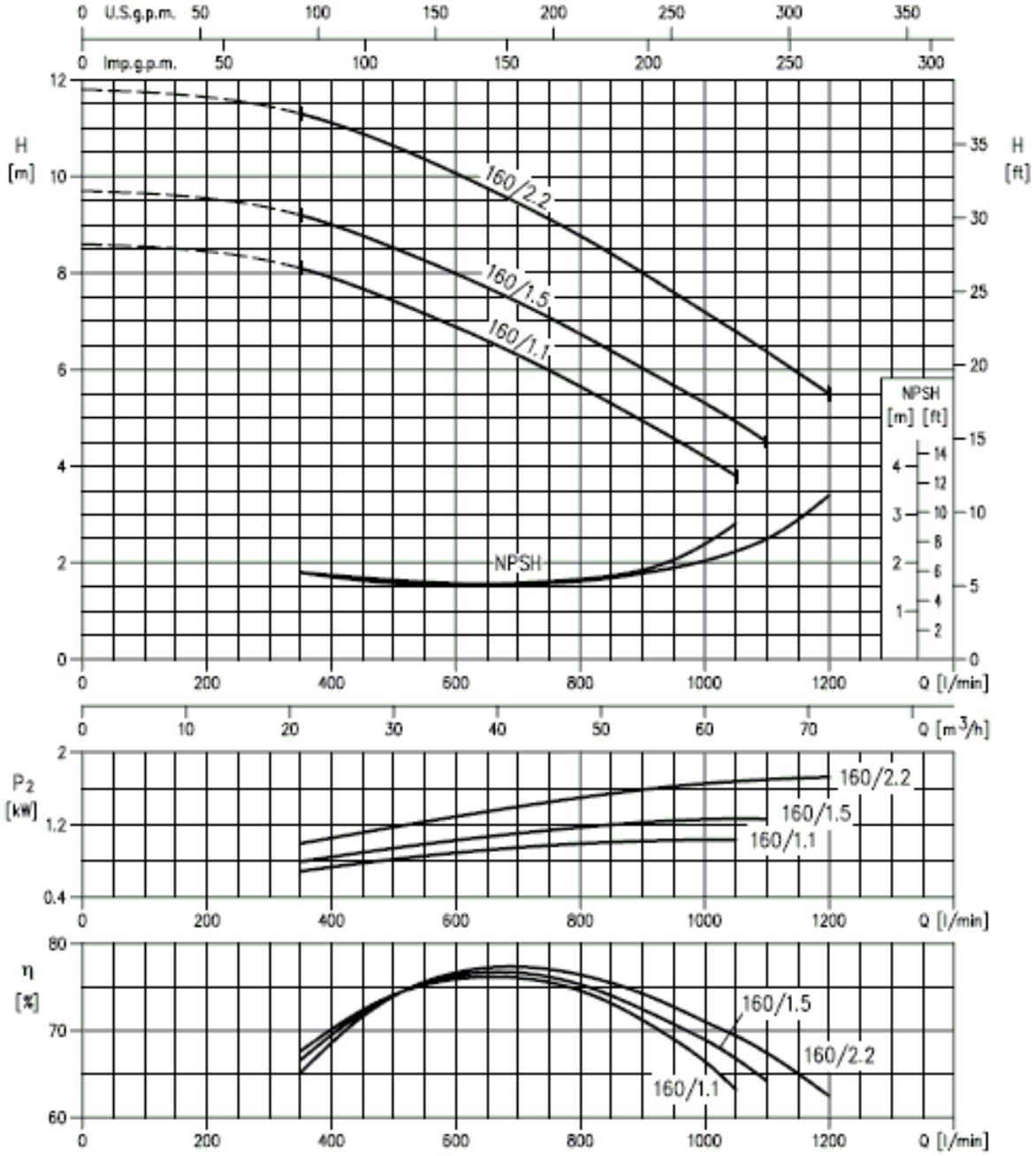
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

65-160/1.1 (1.1 kW) – impeller diameter = 161 mm
65-160/1.5 (1.5 kW) – impeller diameter = 168 mm
65-160/2.2 (2.2 kW) – impeller diameter = 178 mm



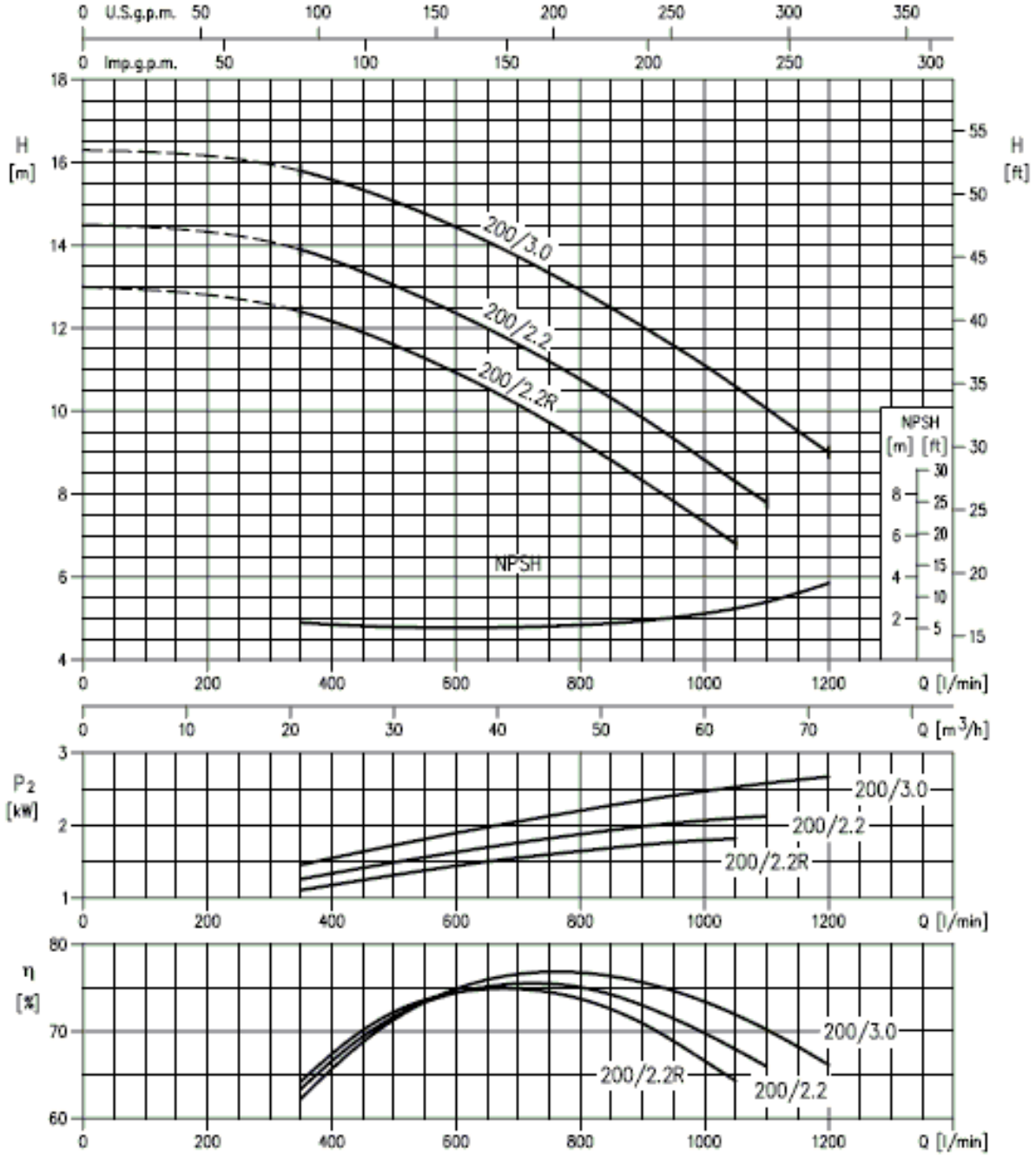
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

65-200/2.2R (2.2 kW) – impeller diameter = 190 mm
65-200/2.2 (2.2 kW) – impeller diameter = 201 mm
65-200/3 (3.0 kW) – impeller diameter = 212 mm



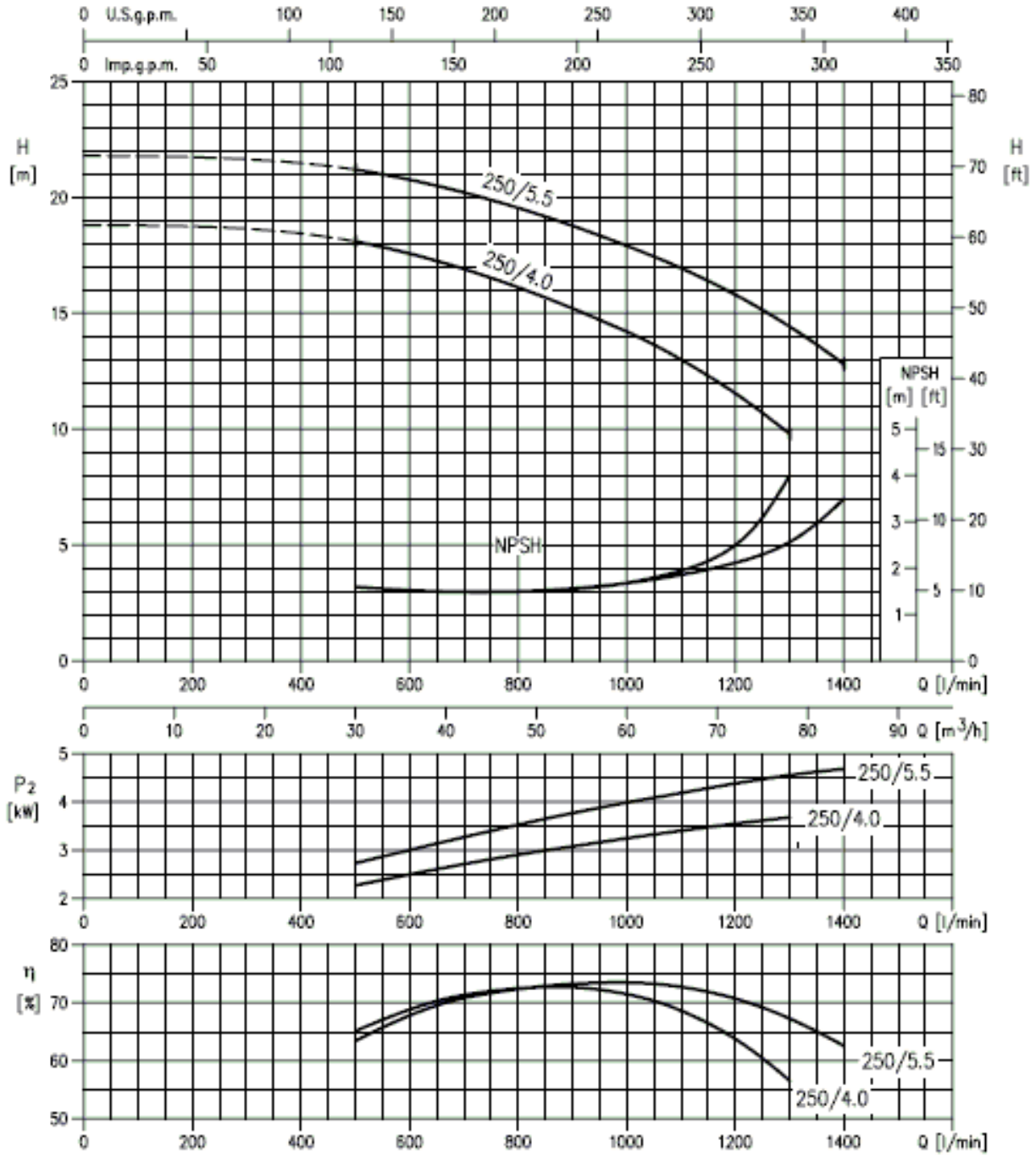
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

65-250/4 (4.0 kW) – impeller diameter = 235 mm
65-250/5.5 (5.5 kW) – impeller diameter = 250 mm



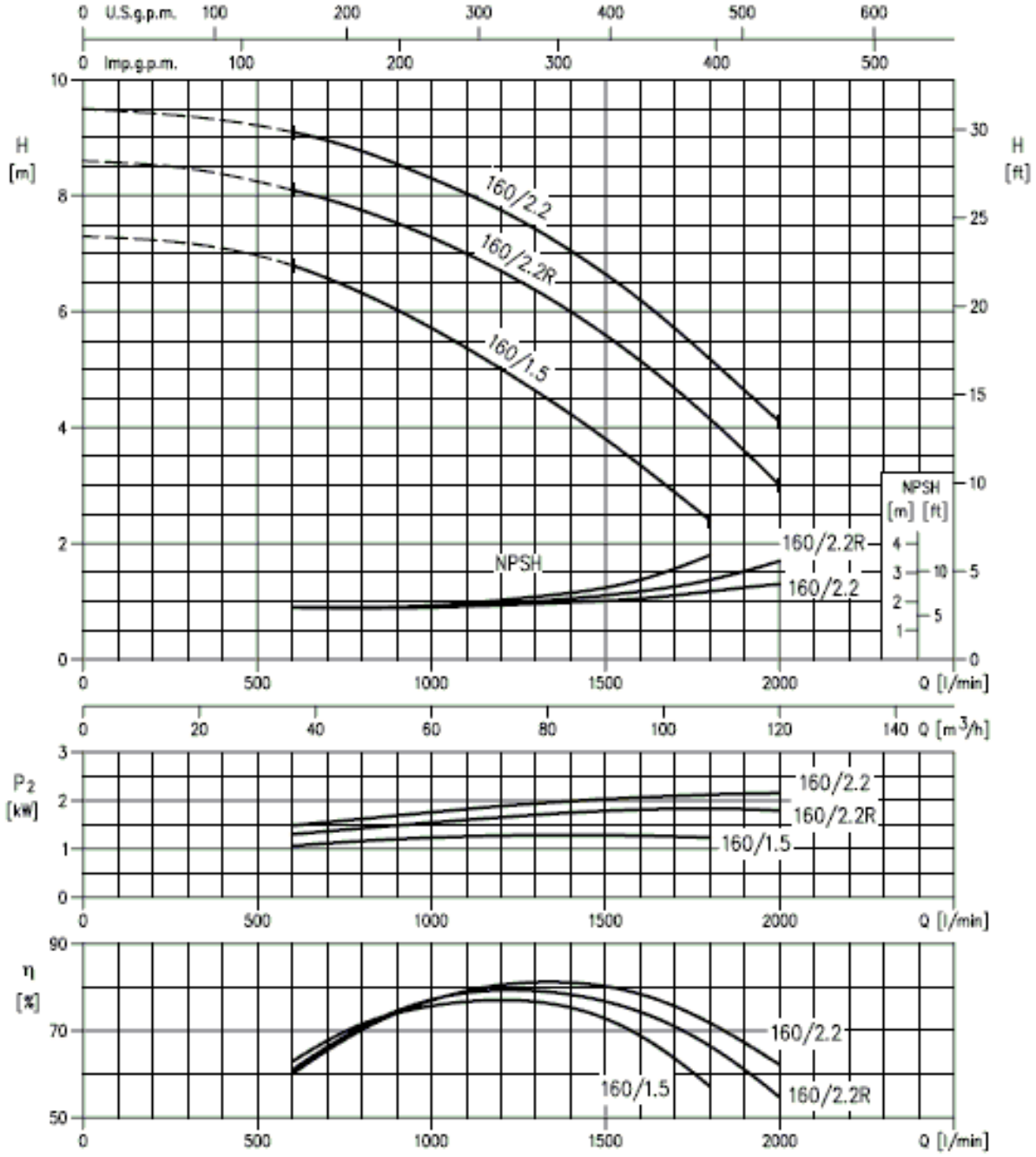
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

80-160/1.5 (1.5 kW) – impeller diameter = 156 mm
80-160/2.2R (2.2 kW) – impeller diameter = 165 mm
80-160/2.2 (2.2 kW) – impeller diameter = 174 mm



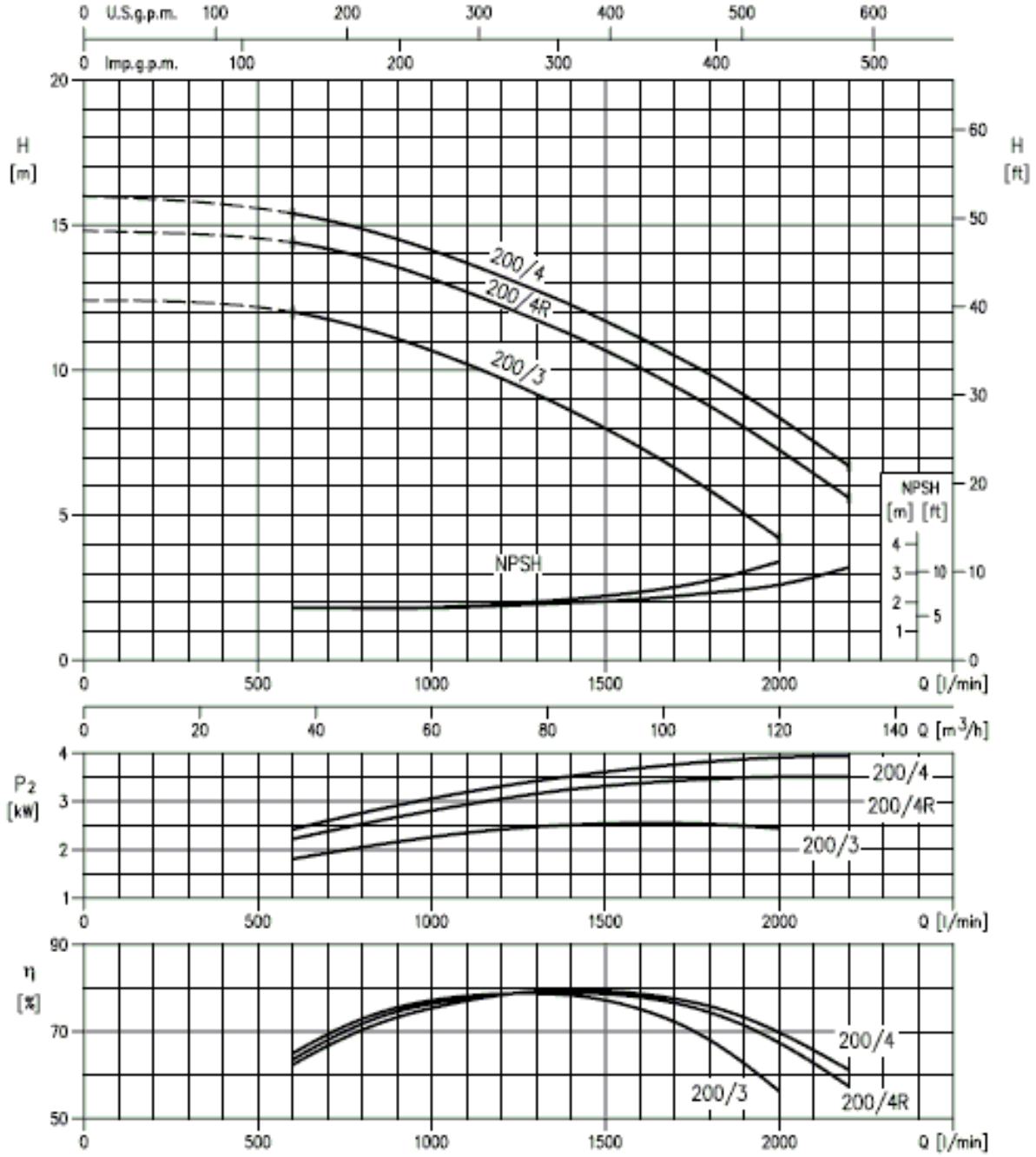
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

80-200/3 (3.0 kW) – impeller diameter = 196 mm
80-200/4R (4.0 kW) – impeller diameter = 211 mm
80-200/4 (4.0 kW) – impeller diameter = 219 mm



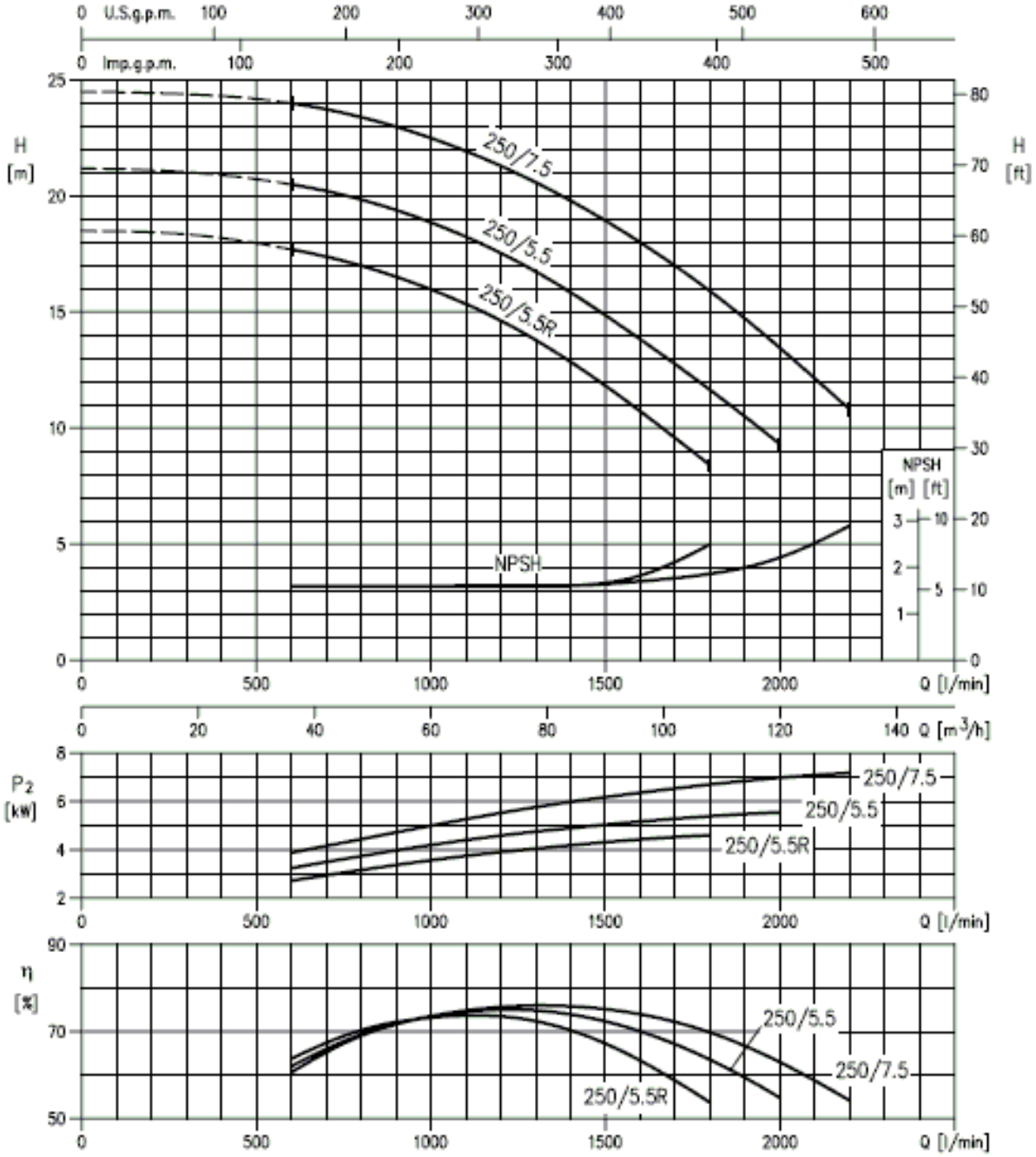
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

PERFORMANCE CURVE

50Hz

Rev.AA

80-250/5.5R (5.5 kW) – impeller diameter = 230 mm
80-250/5.5 (5.5 kW) – impeller diameter = 246 mm
80-250/7.5 (7.5 kW) – impeller diameter = 263 mm



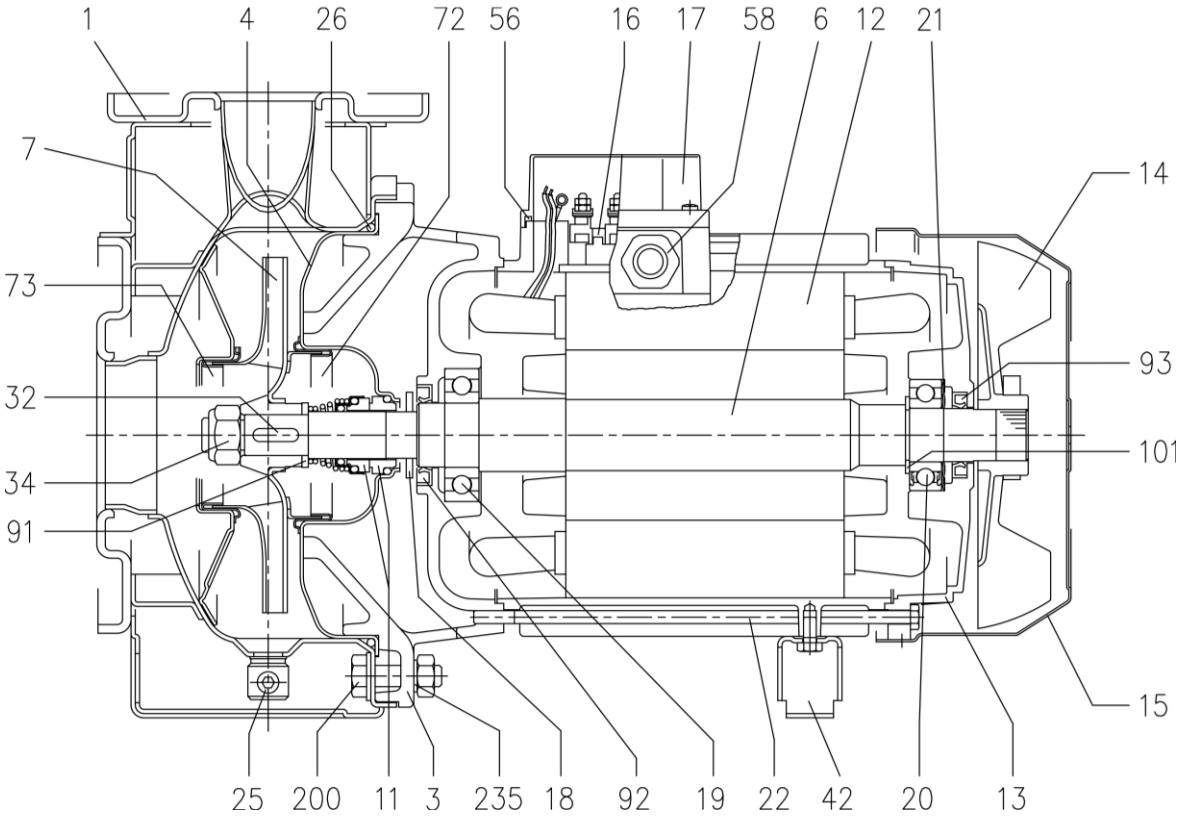
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906:2012 – Grade 3B

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3(.)M4 32, 40, 50, 65-125/160/200



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3(.)M4 32, 40, 50, 65-125/160/200

N°	PART NAME		MATERIAL 3M4	MATERIAL 3LM4	DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket		[5]				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Shaft with rotor-Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
7	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	CF8M - EN 1.4408 (AISI 316)				
11	Mechanical seal [3]		Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321÷325		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		NBR	/	40x21.5x3	EBARA DRAWING	1
19	Bearing		-		See table p.319		1
20	Bearing		-		See table p.319		1
21	Adjusting ring		Steel C70				1
22	Tie rod		Fe 42 Galvanized		M5	EBARA DRAWING	4
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
26	"O" ring	32-125, 40-125	NBR [4]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-160			183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
32	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
34	Impeller nut	Other models	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			M18x1.5		
42	Foot		Aluminium / Galvanized steel			EBARA DRAWING	1
56	Box gasket		NBR				1
58	Fasting nut		-				1
72	Casing ring (not for 65 version) [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
73	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
91	Impeller spacer [6]		EN 1.4404 (AISI 316L)				1
92	Lip seal	Up to 1.5kW	-	-	25x40x7	DIN 3760 without spring	1
		From 2.2kW to 3kW			30x47X7		
93	Lip seal	For 0.25kW	-	-	15x30x5	DIN 3760 without spring	1
		For 0.37kW and 0.55kW			17x32X7		
		From 0.75 kW to 3kW			25x40x7		
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35		[2]
235	Washer	32-125, 40-125	EN 1.4301 (AISI 304)		8.4x17	UNI 6592	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			10.5x21		[2]

Counterflange kit on request, see table p. 328-329

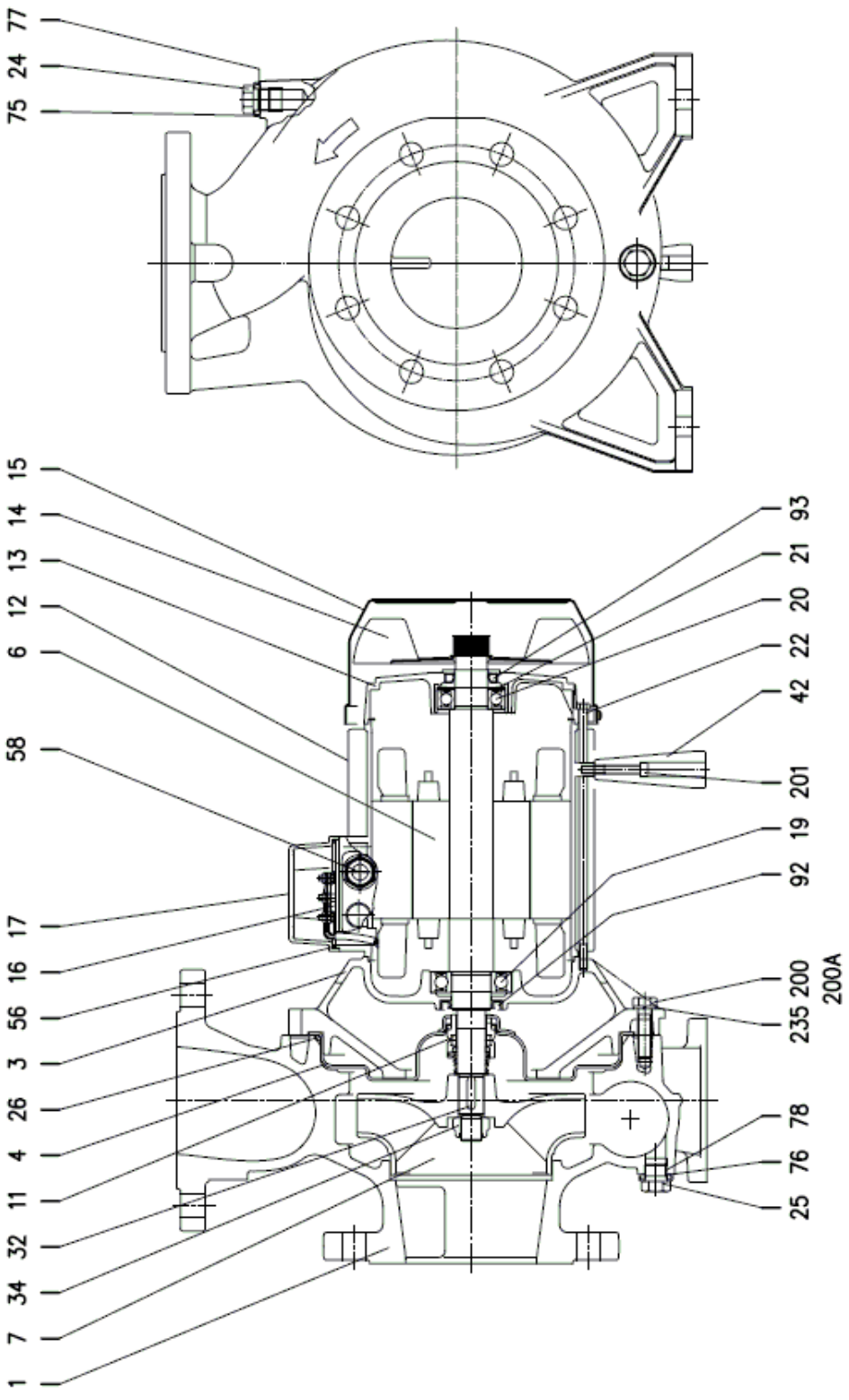
[1] For version 32-200, 40-200, 50-160 , 50-200
[2] Quantity = 10 for 32-160, 40-160, 50-125, 65-125
Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
[3] Special version: see page 321 and following
[4] FPM (H-HS-HW-HSW version)
EPDM (E version)
[5] Aluminum AL-EN-1706-AC-46000-D for 3D4 50-200/2.2; 65-125/0.75 and 1.1; 65-160/2.2; 65-200/2.2 and 3 kW
Cast iron EN-GJL-200-EN 1561 for all the others;
[6] Only for 32-125/0.25

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LM4 80-160



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3LM4 80-160

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing		CF8M - EN 1.4408 (AISI 316)			1
3	Motor bracket		Cast iron EN-GJL-200-EN 1561			1
4	Casing cover		EN 1.4404 (AISI 316L)			1
6	Shaft with rotor		EN 1.4404(AISI 316L) -Part in contact with liquid			1
7	Impeller		CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal [1]		SiC/SiC/FPM	See p. 321÷325		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			1
19	Bearing		-	See table p. 319		1
20	Bearing		-	See table p. 319		1
21	Adjusting ring		Steel C70			1
22	Tie rod		Fe 42 Galvanized			4
24	Plug		EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
25	Plug		EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
26	"O" ring		FPM	227.96x5.34	OR 6895	1
32	Key		EN 1.4404 (AISI 316L)	6x6x25	UNI 6604	1
34	Impeller nut		EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
42	Foot		Aluminium		EPE DRAWING	1
56	Box gasket		NBR			1
58	Fasting nut		-			1
75	Washer (plug)		EN 1.4404 (AISI 316L)			1
76	Washer (plug)					1
77	O-ring (plug)		FPM [2]			1
78	O-ring (plug)					1
92	Lip seal	1.5 kW	-	25x40x7	DIN 3760 without spring	1
		2.2 kW		30x47x7		
93	Lip seal		-	25x40x7		1
200	Screw		Stainless steel A2-70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw			M 10x30		2
201	Screw	1.5 kW	Stainless steel A2-70 class ISO 3506/1	M 6x40	UNI 5739	1
		2.2 kW		M 12x40		4
235	Washer		EN 1.4301 (AISI 304)	10.5	UNI 6592	12

Counterflange kit on request, see p. 328-329

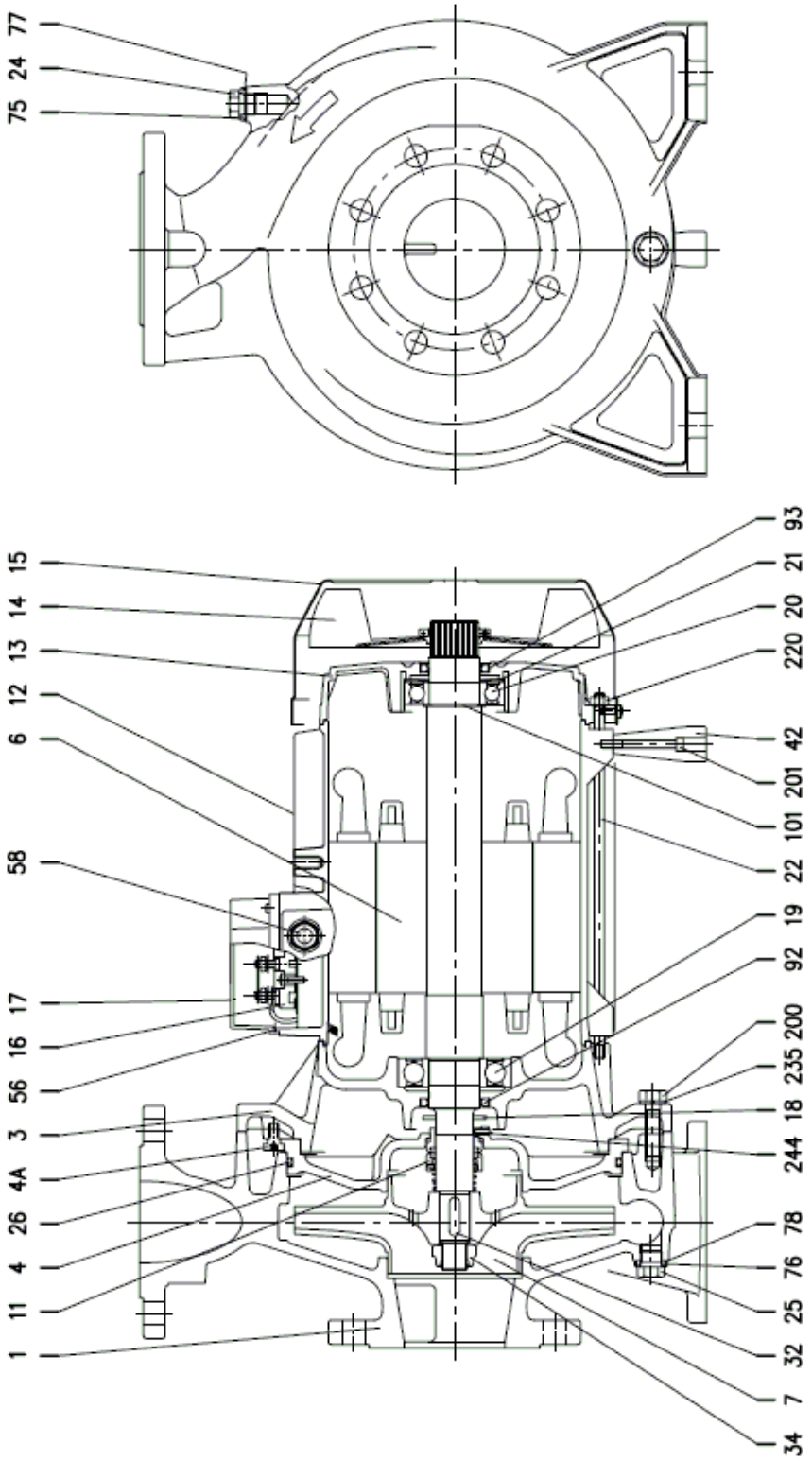
[1] Special version: see page 321 and following
[2] EPDM (E version)

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LM4 65-250, 80-200/250



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3LM4 65-250, 80-200/250

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI 316)			1
3	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4401 (AISI 316)			1
004A	Screw for casing cover	EN 1.4301 (AISI 304)			2
6	Shaft with rotor	EN 1.4404(AISI 316L) -Part in contact with liquid			1
7	Impeller	CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal [2]	SiC/SiC/FPM	See p. 321÷325		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			1
18	Splash ring	NBR	50x29.5x3	EPE DRAWING	1
19	Bearing	-	See table p. 319		1
20	Bearing	-	See table p. 319		1
21	Adjusting ring	Steel C70			1
22	Tie rod	Fe 42 Galvanized			4
24	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
25	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
26	"O" ring	FPM	227.96x5.34	OR 6895	1
32	Key	EN 1.4404 (AISI 316L)	8x7x30	UNI 6604	1
34	Impeller nut	Aluminium	M20x1.5	UNI 7474	1
42	Foot	Aluminium		EPE DRAWING	1
56	Box gasket	NBR			1
58	Fasting nut	-			1
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)				1
77	O-ring (plug)	FPM [3]			1
78	O-ring (plug)				1
92	Lip seal 3 - 4 kW	-	30x47x7	DIN 3760 without spring	1
	Lip seal 5.5 kW		40x55x7		
93	Lip seal 3 kW	-	25x40x7	DIN 3760 without spring	1
	Lip seal 4 kW		30x47x7		
	Lip seal 5.5 kW		40x55x7		
101	Snap ring (only 5.5 kW)	Carbon tool steels TC 80	Ø 40	UNI 7435	1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
201	Screw for 80-200/4 kW	Stainless steel A2-70 class ISO 3506/1	M 6x12	UNI 5739	1
	Screw for 80-200/3 kW		M 6x45		
	Screw for the other versions		M 6x60		
220	Nut for tie rod (only 5.5 kW)	Galvanized steel	M8		4
235	Washer	EN 1.4301(AISI 304)	13	UNI 8842	10
244	Pin [1]	EN 1.4301(AISI 304)	4x12		1

Counterflange kit on request, see table p. 328-329

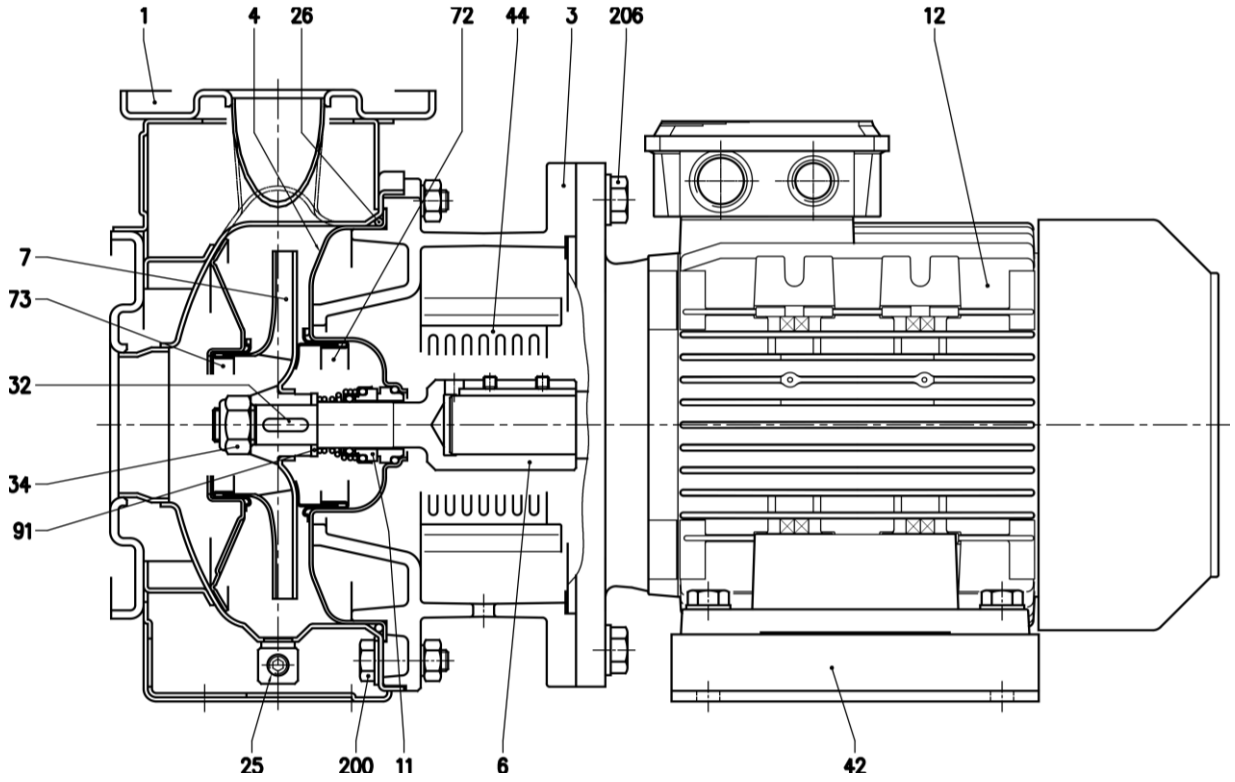
[1] Not for H, HW, HSW and E options
[2] Special version: see page 321 and following
[3] EPDM (E version)

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3(.)S4 32, 40, 50, 65-125/160/200



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3(.)S4 32, 40, 50, 65-125/160/200

N°	PART NAME		MATERIAL 3S4	MATERIAL 3LS4	DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table p. 326		1
7	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	CF8M - EN 1.4408 (AISI 316)				
11	Mechanical seal [4]		Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321÷325		1
12	Motor		-				1
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
26	"O" ring	32-125, 40-125	NBR [5]	FPM	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	
32	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
34	Impeller nut	Other model	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			M18x1.5		
42	Foot		Galvanized steel				[1]
44	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	2
72	Casing ring (not for 65 version) [2]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
73	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
91	Impeller spacer [6]		EN 1.4404 (AISI 316L)				1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[3]
206	Screw	up to 0.37kW	Gv. Steel 8.8 strenght class ISO 898/1		M 8x20	UNI 5739	4
		from 0.55 to 1.5kW			M 10x25		
		for 2.2 and 3kW			M 12x30		

Counterflange kit on request see p. 328-329

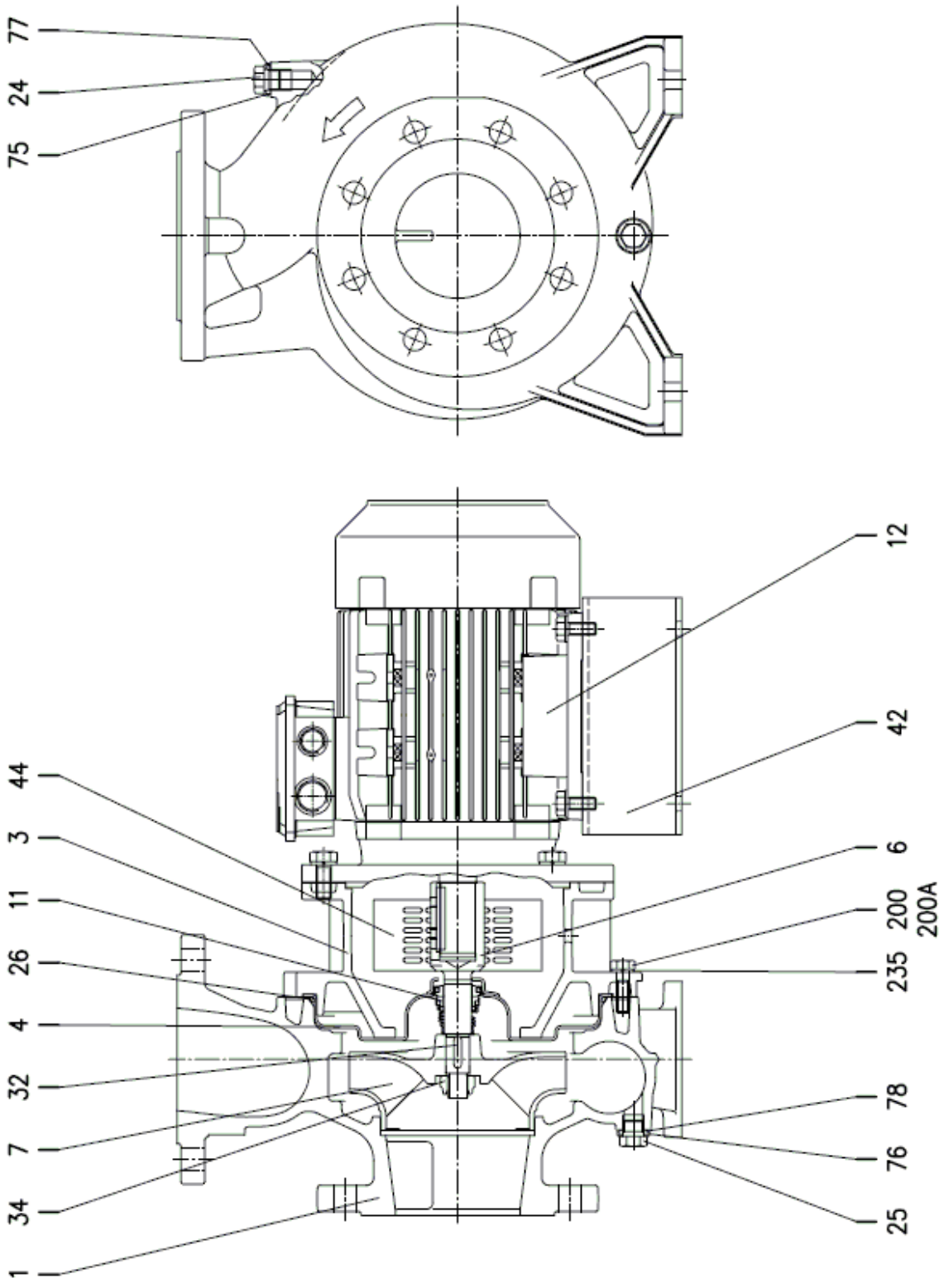
[1] Quantity = 1 up to 1.5kW
Quantity = 2 for 2.2 and 3kW
[2] Only for version 32-200, 40-200, 50-160, 50-200
[3] Quantity = 10 for 32-160, 40-160, 50-125, 65-125
Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
[4] Special version: see page 321 and following
[5] FPM (H-HS-HW-HSW version)
EPDM (E version)
[6] Only for 32-125/0.25

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LS4 80-160



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3LS4 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI 316)			1
3	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4404 (AISI 316L)			1
6	Coupling	EN 1.4404 (AISI 316L)	See table p. 326		1
7	Impeller	CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal [1]	SiC/SiC/FPM	See p. 321÷325		1
12	Motor	-			1
24	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
25	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
26	"O" ring	FPM EPDM (E option)	227.96x5.34	OR 6895	1
32	Key	EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
34	Impeller nut	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
42	Foot	Galvanized steel		EPE DRAWING	1
44	Protection	EN 1.4301 (AISI 304)		EPE DRAWING	2
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)				1
77	O-ring (plug)	FPM [2]			1
78	O-ring (plug)				1
200	Screw	Stainless steel A2-70	M 10x35	UNI 5739	10
200A	Screw	class ISO 3506/1	M 10x30		2
235	Washer	EN 1.4301 (AISI 304)	10.5	UNI 6592	12

Counterflange kit on request, see table p. 328-329

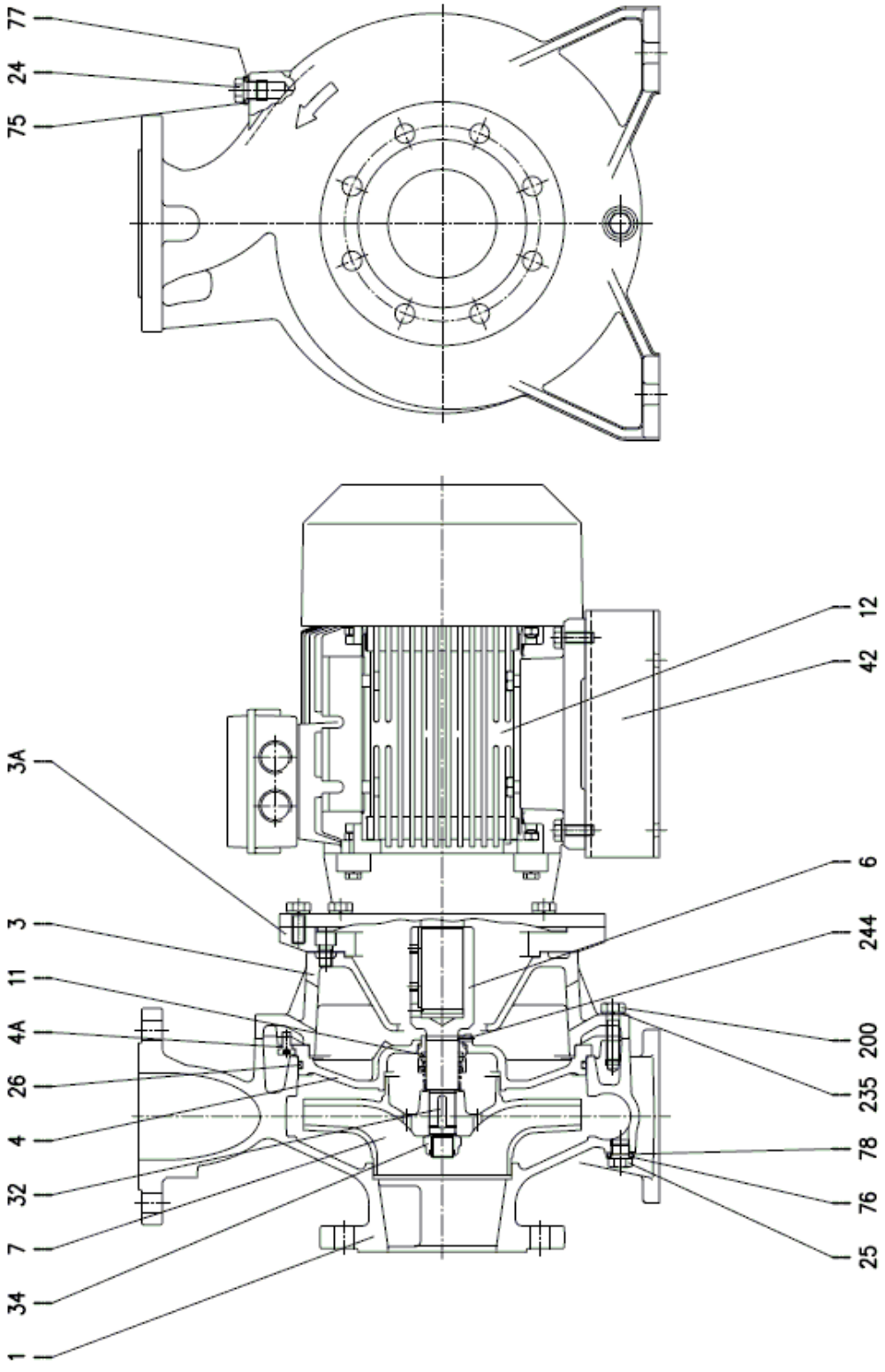
[1] Special version: see page 321 and following
[2] EPDM (E version)

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LS4 65-250, 80-200/250



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3LS4 65-250, 80-200/250

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI 316)			1
3	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4401 (AISI 316)			1
004A	Screw for casing cover	EN 1.4301(AISI 304)			2
6	Coupling	EN 1.4401 (AISI 316)	See table p. 326		1
7	Impeller	CF8M - EN 1.4408 (AISI 316)			1
11	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷325		1
12	Motor	-			1
24	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
25	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
26	"O" ring	FPM EPDM (E version)	253.36x5.34	OR 6995	1
32	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
34	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
42	Foot for motor	Galvanized steel		EPE DRAWING	1
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)				
77	O-ring (plug)	FPM [4]			1
78	O-ring (plug)				1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer	EN 1.4301(AISI 304)	13	UNI 8842	10
244	Pin [2]	EN 1.4301(AISI 304)	4x12		1

Counterflange kit on request, see table p. 328-329

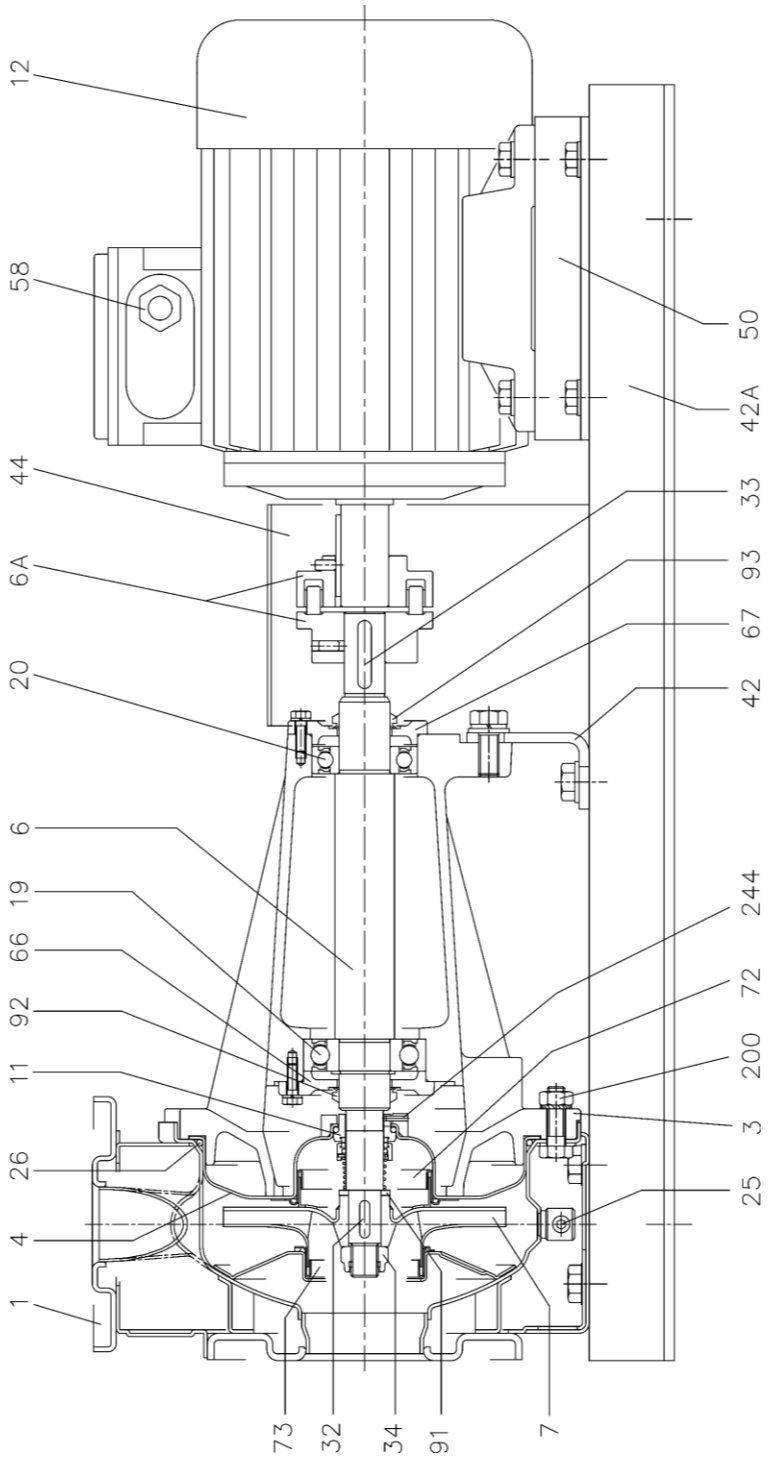
[1] Only for 65-250/5.5,80-250/5.5,80-250/7.5 models
[2] Not for H, HW, HSW and E options
[3] Special version: see page 321 and following
[4] EPDM (E version)

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3(.)P4 32, 40, 50, 65-125/160/200



CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3(.)P4 32, 40, 50, 65-125/160/200

N°	PART NAME		MATERIAL 3P4	MATERIAL 3LP4	DIMENSIONS	STANDARD	Q.TY
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Support		Cast iron EN-GJL-200-EN 1561				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Shaft - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006 A	Flexible coupling		Cast iron EN-GJL-250-EN 1561		See table pag. 327		1
7	Impeller	32-40-50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
		65-125/160/200	CF8M - EN 1.4408 (AISI 316)				
11	Mechanical seal	[3]	Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321÷325		1
12	Motor		-				1
19	Bearing		-		See table p. 320		1
20	Bearing		-		See table p. 320		1
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
26	"O" ring	32-125, 40-125	NBR [4]	FPM	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	
32	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
33	Key		C 40		8x7x40	UNI 6604	1
34	Impeller nut	Other model	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/2.2			M18x1.5		
42	Pump support		Galvanized steel			EBARA DRAWING	1
042 A	Base		Galvanized steel				1
44	Protection		Galvanized steel				1
50	Foot		Galvanized steel				1
58	Fasting nut		-				1
66	Impeller side bearing cover		Cast iron EN-GJL-200-EN 1561				1
67	Motor side bearing cover		Cast iron EN-GJL-200-EN 1561				1
72	Casing ring (not for 65 version) [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
73	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
89	Snap ring	32-125, 32-160, 40-125, 50-125	Carbon tool steel TC 80		Ø30	UNI 7435	1
		Other model			Ø40		
91	Impeller spacer [5]		EN 1.4404 (AISI 316L)				1
92	"V" ring		-		VS - 0030		1
93	"V" ring		-		VS - 0030		1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[2]

Counterflange kit on request see p. 328-329

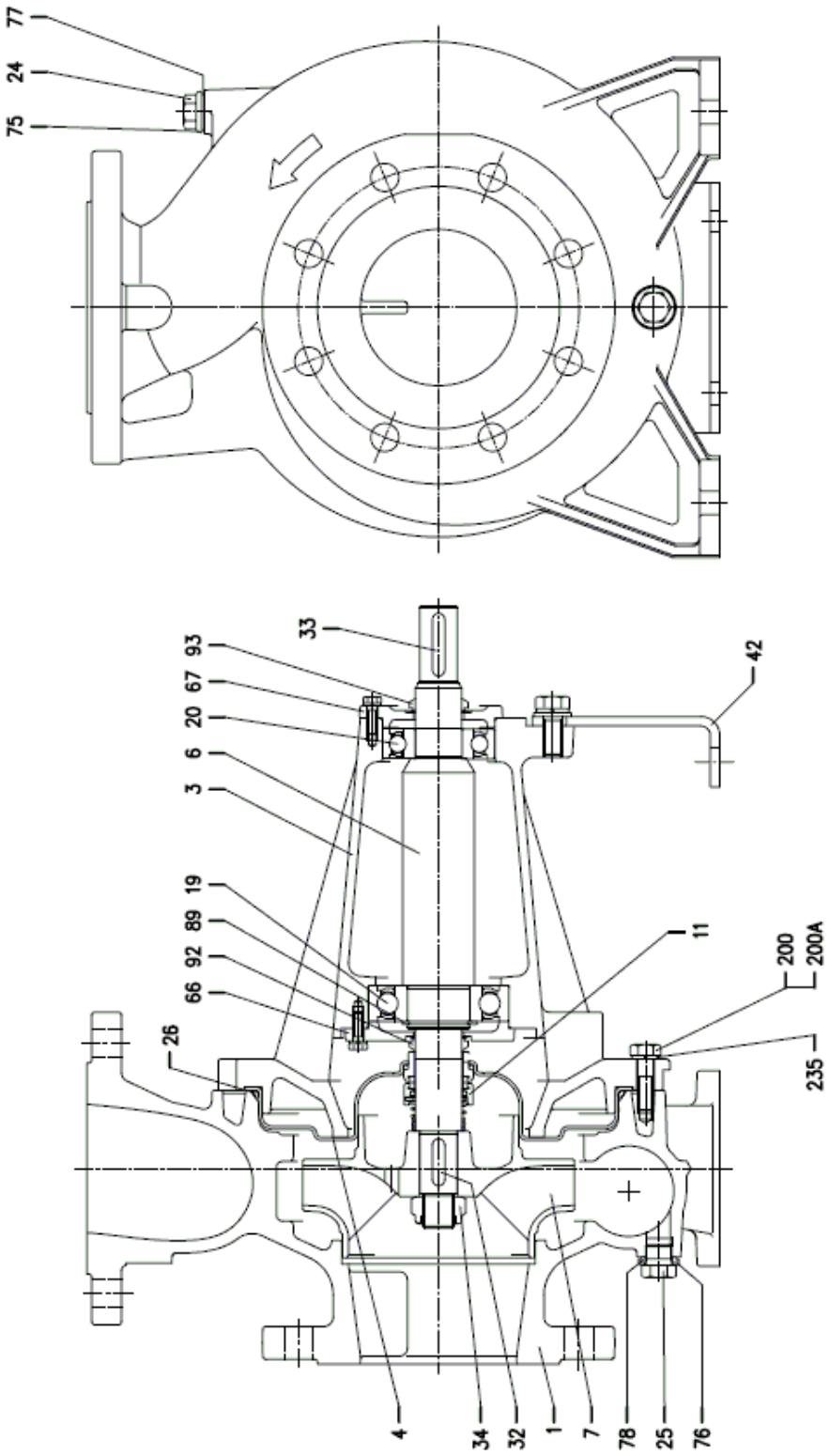
[1] For version: 32-200, 40-200, 50-160, 50-200
[2] Quantity = 10 for 32-160, 40-160, 50-125, 65-125
Quantity = 12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
[3] Special version: see page 321 and following
[4] FPM (H-HS-HW-HSW version)
EPDM (E version)
[5] Only for 32-125/0.25

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LP4 80-160

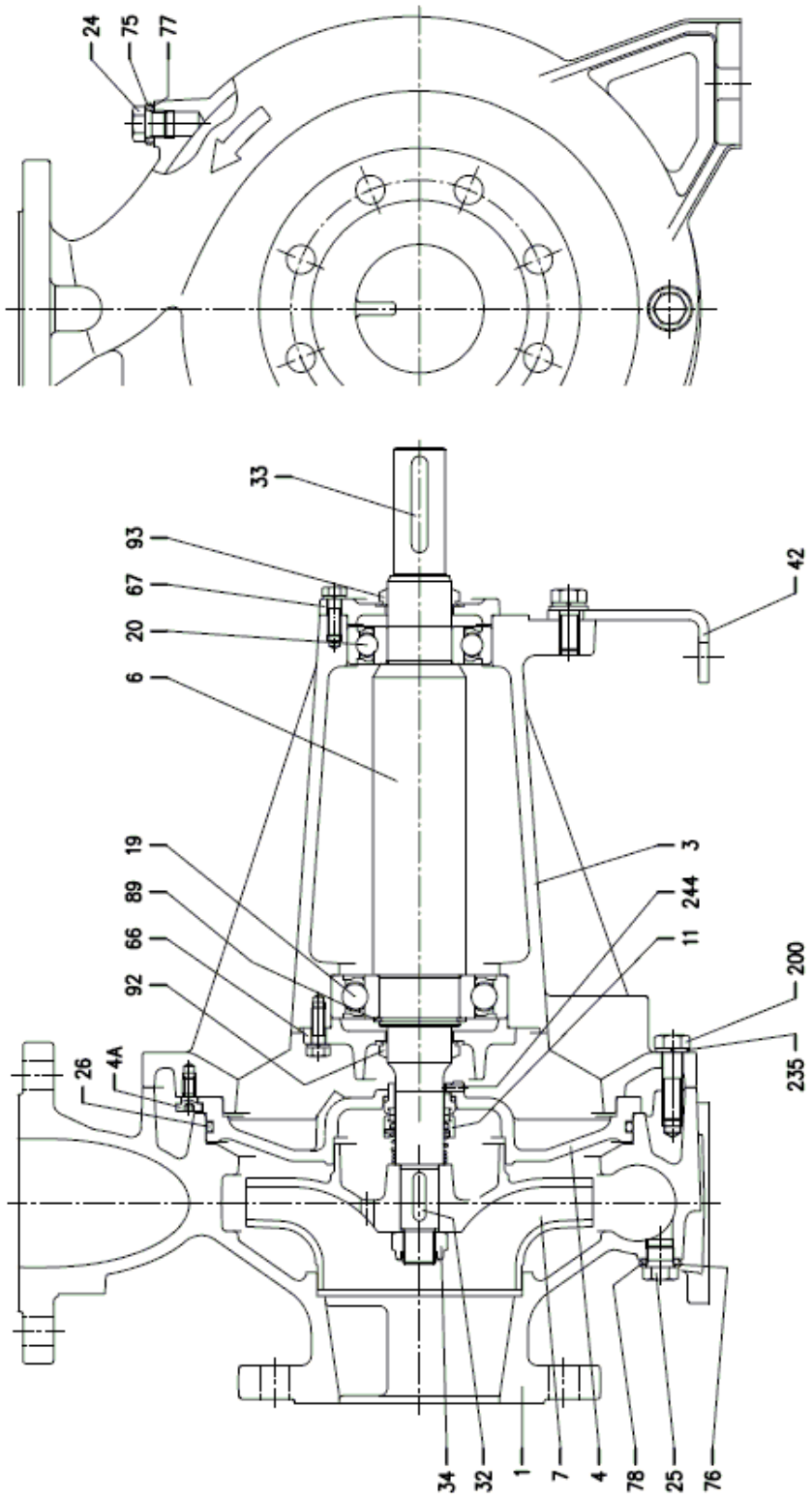


CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LP4 65-250, 80-200/250

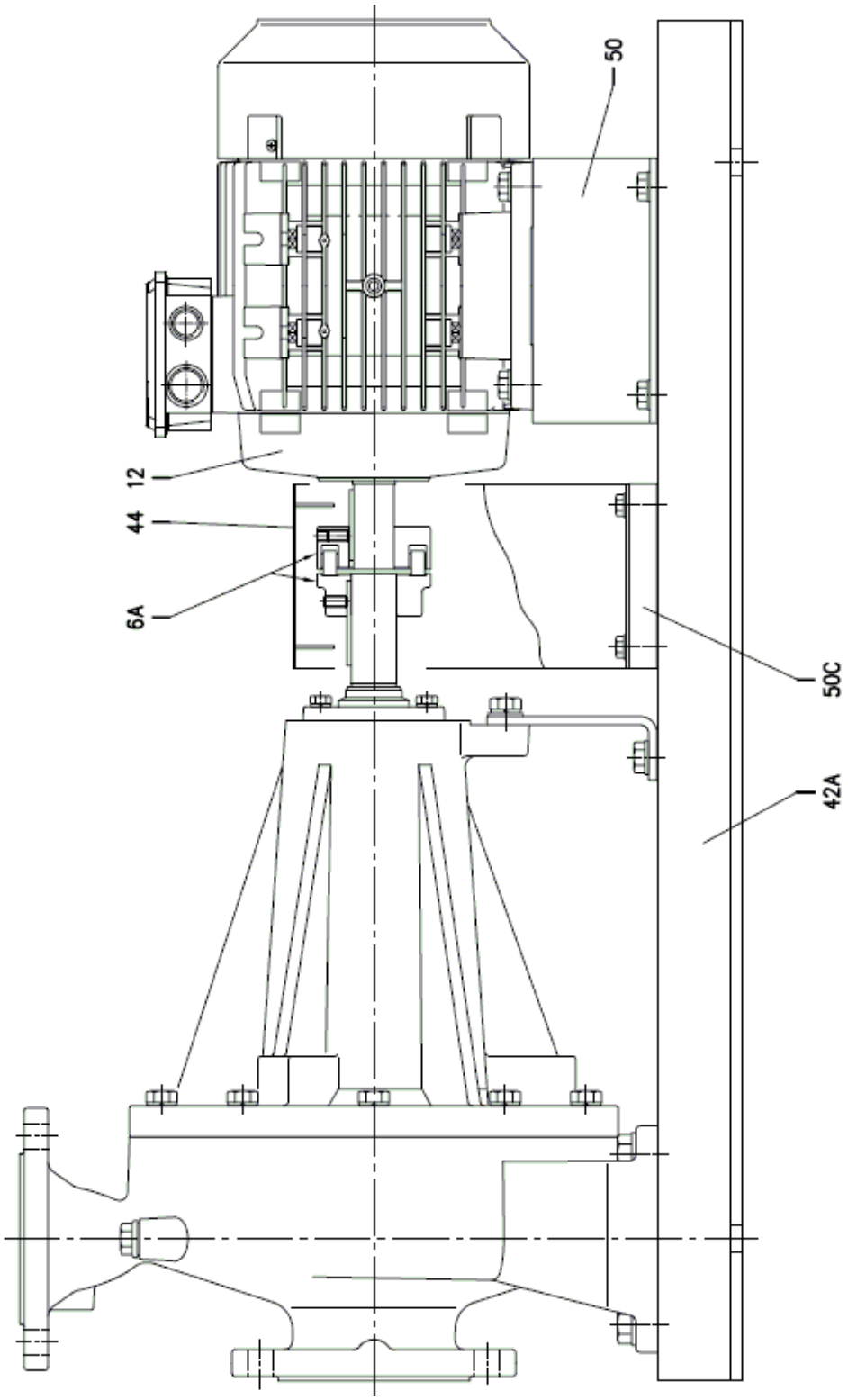


CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW DRAWING 3LP4 65-250, 80-160/200/250



CONSTRUCTION 50Hz

Rev.AA

SECTIONAL VIEW TABLE 3LP4 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI316)			1
3	Support	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4404 (AISI316L)			1
6	Shaft	EN 1.4404 (AISI316L)-Part in contact with liquid			1
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	See table p. 327		1
7	Impeller	CF8M - EN 1.4408 (AISI316)			1
11	Mechanical seal [2]	SiC/SiC/FPM	See p. 321÷325		1
12	Motor	-			1
19	Bearing	-	See table p. 320		1
20	Bearing	-	See table p. 320		1
24	Plug	EN 1.4404 (AISI316L)	G3/8	EPE DRAWING	1
25	Plug	EN 1.4404 (AISI316L)	G3/8	EPE DRAWING	1
26	"O" ring	FPM EPDM (E option)	227.96x5.34	OR 6895	1
32	Key	EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
33	Key	C 40	8x7x40		1
34	Impeller nut	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
42	Pump support	Galvanized steel		EPE DRAWING	1
042A	Base	Galvanized steel		EPE DRAWING	1
44	Protection	Galvanized steel		EPE DRAWING	1
50	Foot	Galvanized steel		EPE DRAWING	2
050C	Spacer for protection [1]	Aluminium			2
66	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561			1
67	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561			1
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)				1
77	O-ring (plug)	FPM [3]			1
78	O-ring (plug)				1
89	Snap ring	Carbon tool steels TC 80	Ø 40	UNI 7435	1
92	"V" ring	-	VS-0030		1
93	"V" ring				1
200	Screw	Stainless steel A2 70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
235	Washer	EN 1.4301 (AISI 304)	10.5	UNI 6592	12

Counterflange kit on request see p 328-329

[1] Only for 1.5kW
[2] Special version: see page 321 and following
[3] EPDM (E version)

See p 314-316

CONSTRUCTION

50Hz

Rev.AA

SECTIONAL VIEW TABLE 3LP4 65-250, 80-200/250

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
1	Casing	CF8M - EN 1.4408 (AISI316)			1
3	Support	Cast iron EN-GJL-200-EN 1561			1
4	Casing cover	EN 1.4401 (AISI316)			1
004A	Screw for casing cover	EN 1.4301 (AISI 304)			2
6	Shaft	EN 1.4462 (Duplex stainless steel)-Part in contact with liquid			1
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	See table p. 327		1
7	Impeller	CF8M - EN 1.4408 (AISI316)			1
11	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷325		1
12	Motor	-			1
19	Bearing	-	See table p. 320		1
20	Bearing	-	See table p. 320		1
24	Plug	EN 1.4404 (AISI316L)	G3/8		1
25	Plug	EN 1.4404 (AISI316L)	G3/8		1
26	"O" ring	FPM EPDM (E version)	253.36x5.34	OR 6995	1
32	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
33	Key	C 40	10x8x60	UNI 6604	1
34	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
42	Pump support	Galvanized steel			1
042A	Base	Galvanized steel			1
44	Protection	Galvanized steel			1
50	Foot	Galvanized steel		EPE DRAWING	1
050C	Spacer for protection [1]	Aluminium			2
66	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561			1
67	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561			1
75	Washer (plug)	EN 1.4404 (AISI 316L)			1
76	Washer (plug)				1
77	O-ring (plug)	FPM [4]			1
78	O-ring (plug)				1
89	Snap ring	Carbon tool steels TC 80	Ø 50	UNI 7435	1
92	"V" ring	-	VS-0040		1
93	"V" ring				1
200	Screw	Stainless steel A2 70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer	EN 1.4301 (AISI 304)	13	UNI 8842	10
244	Pin [2]	EN 1.4301 (AISI 304)	4x12	UNI 6873	1

Counterflange kit on request see p 328-329

[1] Only for 65-250/3-4 kW
[2] Not for H, HW, HSW and E options
[3] Special version: see page 321 and following
[4] EPDM (E version)

See p.315-316

CONSTRUCTION

50Hz

Rev.AA

BEARINGS 3(.)M4, 3(.)S4

Pump type	Ball bearing	
	Pump side	Fan side
3(.)M4 32-125/0.25	6205 2DW C3	6202 2DW C3
3(.)M4 32-160/0.37R		6203 2DW C3
3(.)M4 32-160/0.37		
3(.)M4 32-200/0.55R		
3(.)M4 32-200/0.55		
3(.)M4 32-200/0.75	6205-2RSH C3	6205-2RSH C3
3(.)M4 40-125/0.37R	6205 2DW C3	6202 2DW C3
3(.)M4 40-125/0.37		
3(.)M4 40-160/0.55R		6203 2DW C3
3(.)M4 40-160/0.55		
3(.)M4 40-200/1.1R	6205-2RSH C3	6205-2RSH C3
3(.)M4 40-200/1.1		
3(.)M4 40-200/1.5		
3(.)M4 50-125/0.55R	6205 2DW C3	6203 2DW C3
3(.)M4 50-125/0.55		
3(.)M4 50-160/1.1R	6205-2RSH C3	6205-2RSH C3
3(.)M4 50-160/1.1		
3(.)M4 50-200/1.5R		
3(.)M4 50-200/1.5		
3(.)M4 50-200/2.2		
3(.)M4 65-125/0.55	6205 2DW C3	6203 2DW C3
3(.)M4 65-125/0.75	6205-2RSH C3	6205-2RSH C3
3(.)M4 65-125/1.1		
3(.)M4 65-160/1.1		
3(.)M4 65-160/1.5		
3(.)M4 65-160/2.2	3606-2RS1 C3	
3(.)M4 65-200/2.2R		
3(.)M4 65-200/2.2		
3(.)M4 65-200/3.0		
3LM4 65-250/4	6306-2RS1 C3	6206-2RS1 C3
3LM4 65-250/5.5	6308-2RS1 C3	6208-2RS1 C3
3LM4 80-160/1.5	6205-2RS1 C3	6205-2RS1 C3
3LM4 80-160/2.2R	6206-2RS1 C3	
3LM4 80-160/2.2		
3LM4 80-200/ 3		
3LM4 80-200/4R	6306-2RS1 C3	6206-2RS1 C3
3LM4 80-200/4		
3LM4 80-250/5.5R	6308-2RS1 C3	6208-2RS1 C3
3LM4 80-250/5.5		

Pump type	Ball bearing	
	Pump side	Fan side
3(.)S4 32-125/0.25	6203-2Z	6203-2Z
3(.)S4 32-160/0.37R		
3(.)S4 32-160/0.37		
3(.)S4 32-200/0.55R	6204-2Z C3	6204-2Z C3
3(.)S4 32-200/0.55		
3(.)S4 32-200/0.75		
3(.)S4 40-125/0.37R	6203-2Z	6203-2Z
3(.)S4 40-125/0.37		
3(.)S4 40-160/0.55R	6204-2Z C3	6204-2Z C3
3(.)S4 40-160/0.55		
3(.)S4 40-200/1.1R	6205-2Z C3	6205-2Z C3
3(.)S4 40-200/1.1		
3(.)S4 40-200/1.5		
3(.)S4 50-125/0.55R	6204-2Z C3	6204-2Z C3
3(.)S4 50-125/0.55		
3(.)S4 50-160/1.1R	6205-2Z C3	6205-2Z C3
3(.)S4 50-160/1.1		
3(.)S4 50-200/1.5R		
3(.)S4 50-200/1.5		
3(.)S4 50-200/2.2	6206-2Z C3	6206-2Z C3
3(.)S4 65-125/0.55	6204-2Z C3	6204-2Z C3
3(.)S4 65-125/0.75		
3(.)S4 65-125/1.1	6205-2Z C3	6205-2Z C3
3(.)S4 65-160/1.1		
3(.)S4 65-160/1.5		
3(.)S4 65-160/2.2	6206-2Z C3	6206-2Z C3
3(.)S4 65-200/2.2R		
3(.)S4 65-200/2.2		
3(.)S4 65-200/3.0		
3LS4 65-250/4	6306-2Z C3	6306-2Z C3
3LS4 65-250/5.5	6208-2Z C3	6208-2Z C3
3LS4 80-160/1.5	6205-2Z C3	6205-2Z C3
3LS4 80-160/2.2R	6206-2Z C3	6206-2Z C3
3LS4 80-160/2.2		
3LS4 80-200/3		
3LS4 80-200/4R	6306-2Z C3	6306-2Z C3
3LS4 80-200/4		
3LS4 80-250/5.5R	6208-2Z C3	6208-2Z C3
3LS4 80-250/5.5		
3LS4 80-250/7.5		

BEARINGS 3(.)P4

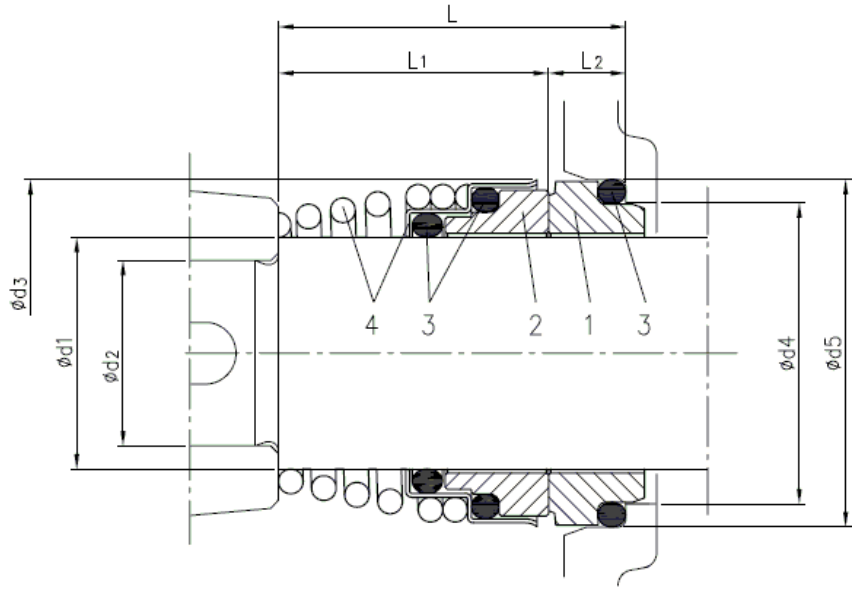
Pump type	Ball bearing			
	Pump		Motor	
	Pump side	Motor side	Pump side	Fan side
3(.)P4 32-125/0.25	6306-2RS1 C3	6206-2RS1 C3	6203-2Z	6203-2Z
3(.)P4 32-160/0.37R				
3(.)P4 32-160/0.37				
3(.)P4 32-200/0.55R	6308-2RS1 C3	6306-2RS1 C3	6204-2Z C3	6204-2Z C3
3(.)P4 32-200/0.55				
3(.)P4 32-200/0.75				
3(.)P4 40-125/0.37R	6306-2RS1 C3	6206-2RS1 C3	6203-2Z	6203-2Z
3(.)P4 40-125/0.37				
3(.)P4 40-160/0.55R			6204-2Z C3	6204-2Z C3
3(.)P4 40-160/0.55				
3(.)P4 40-200/1.1R	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3(.)P4 40-200/1.1				
3(.)P4 40-200/1.5				
3(.)P4 50-125/0.55R	6306-2RS1 C3	6206-2RS1 C3	6204-2Z C3	6204-2Z C3
3(.)P4 50-125/0.55				
3(.)P4 50-160/1.1R	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3(.)P4 50-160/1.1				
3(.)P4 50-200/1.5R				
3(.)P4 50-200/1.5				
3(.)P4 50-200/2.2			6206-2Z C3	6206-2Z C3
3(.)P4 65-125/0.55	6306-2RS1 C3	6206-2RS1 C3	6204-2Z C3	6204-2Z C3
3(.)P4 65-125/0.75				
3(.)P4 65-125/1.1			6205-2Z C3	6205-2Z C3
3(.)P4 65-160/1.1	6308-2RS1 C3	6306-2RS1 C3		
3(.)P4 65-160/1.5				
3(.)P4 65-160/2.2			6206-2Z C3	6206-2Z C3
3(.)P4 65-200/2.2R				
3(.)P4 65-200/2.2				
3(.)P4 65-200/3				
3LP4 65-250/4	6310-2RS1 C3	6308-2RS1 C3	6306-2Z C3	6306-2Z C3
3LP4 65-250/5.5			6208-2Z C3	6208-2Z C3
3LP4 80-160/1.5	6308-2RS1 C3	6308-2RS1 C3	6205-2Z C3	6205-2Z C3
3LP4 80-160/2.2R			6206-2Z C3	6206-2Z C3
3LP4 80-160/2.2				
3LP4 80-200/3	6310-2RS1 C3	6308-2RS1 C3		
3LP4 80-200/4R			6306-2Z C3	6306-2Z C3
3LP4 80-200/4				
3LP4 80-250/5.5R			6208-2Z C3	6208-2Z C3
3LP4 80-250/5.5				
3LP4 80-250/7.5				

CONSTRUCTION

50Hz

Rev.AA

MECHANICAL SEAL (standard, H and E version)

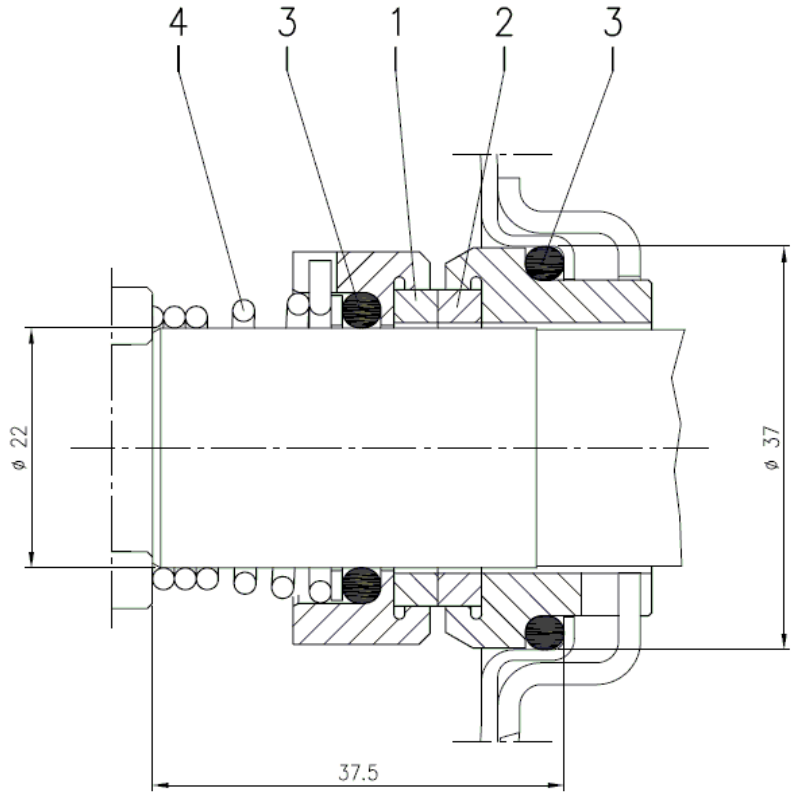


Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
Standard	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
H	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	FPM	EN 1.4401 (AISI 316)
	65-250 80-200/250	30	24	46	39	45	42.5	32.5	10				
E	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	22	19	38	31	37	37.5	27.5	10	Carbon	SiC	EPDM	EN 1.4401 (AISI 316)
	65-250 80-200/250	30	24	46	39	45	42.5	32.5	10				

for all the EPDM E version models (sizes 32-40-50):
Approvals for drinking water application

DM174/2004 (ICIM) approved product

MECHANICAL SEAL (L version ø22)



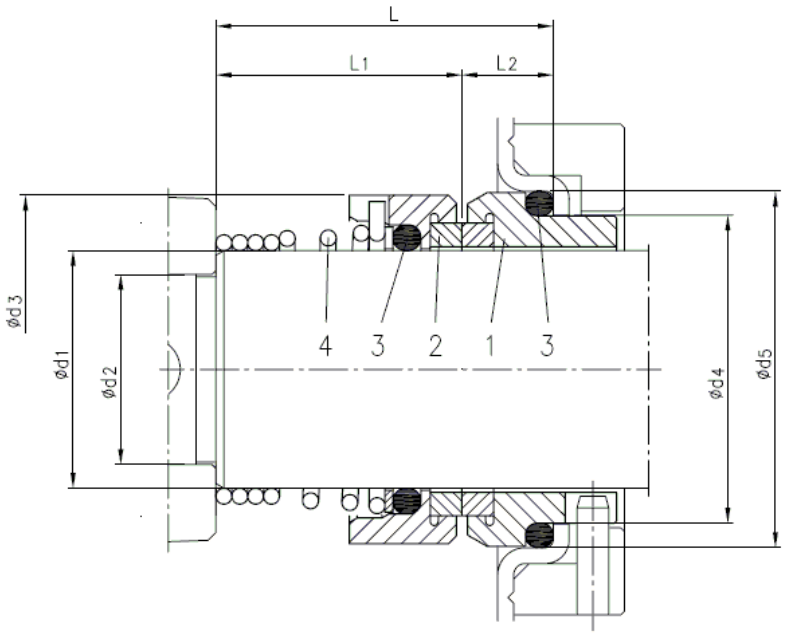
Pump type	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

CONSTRUCTION

50Hz

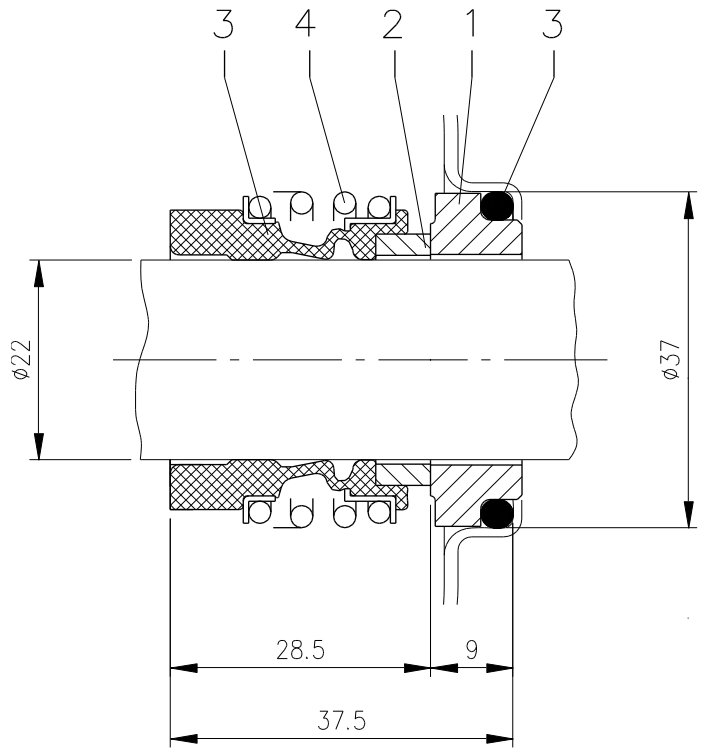
Rev.AA

MECHANICAL SEAL (L version ø30)



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
65-250 80-200/250	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

MECHANICAL SEAL (HS version)



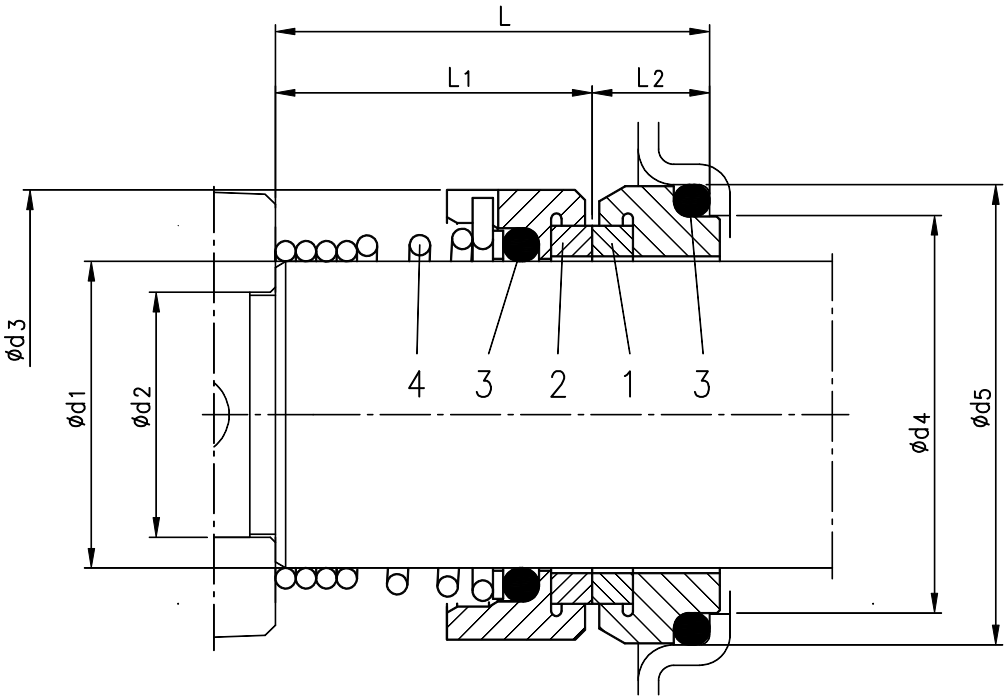
Pump type	Material			
	1	2	3	4
	Stationary seal ring	Rotary seal ring	Rubber	Frame + spring
32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

CONSTRUCTION

50Hz

Rev.AA

MECHANICAL SEAL (HW and HSW 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 65-125/160/200 80-160	22	19	38	31	37	37.5	27.5	10	Tungsten Carbide	Tungsten Carbide	FPM	EN 1.4401 (AISI 316)
	65-250 80-200/250	30	24	46	39	45	42.5	32.5	10				
HSW	32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200 80-160	22	19	38	31	37	37.5	27.5	10	Tungsten Carbide	SiC	FPM	EN 1.4401 (AISI 316)
	65-250 80-200/250	30	24	46	39	45	42.5	32.5	10				

CONSTRUCTION

50Hz

Rev.AA

FLUID TEMPERATURE RANGE

The maximum allowable temperature for the pumped fluid is a determining factor for the operational life of the pump. A primary role in this limitation is played by the materials of the mechanical seals (rings and elastomers), whose thermal resistance often defines the upper limit. The general construction materials of the pump (casing, impeller) and the lubricant used also contribute to defining the maximum temperature. Although the fluid properties and operating conditions have an impact, the choice of suitable seal materials for the operating temperature is crucial to prevent leaks and ensure the reliability of the pumping system.

To preserve optimal performance and prevent failures, we recommend to operate within the following limits:

STANDARD	TEMPERATURE	
mechanical seal	MIN	MAX
STANDARD	-10 °C	90 °C
STANDARD * (L VERSION)	-10 °C	110 °C

OPTIONAL	TEMPERATURE	
mechanical seal	MIN	MAX
H *	-10 °C	110 °C
HS *	-10 °C	110 °C
HW *	-10 °C	110 °C
HSW *	-10 °C	110 °C
E	-10 °C	120 °C

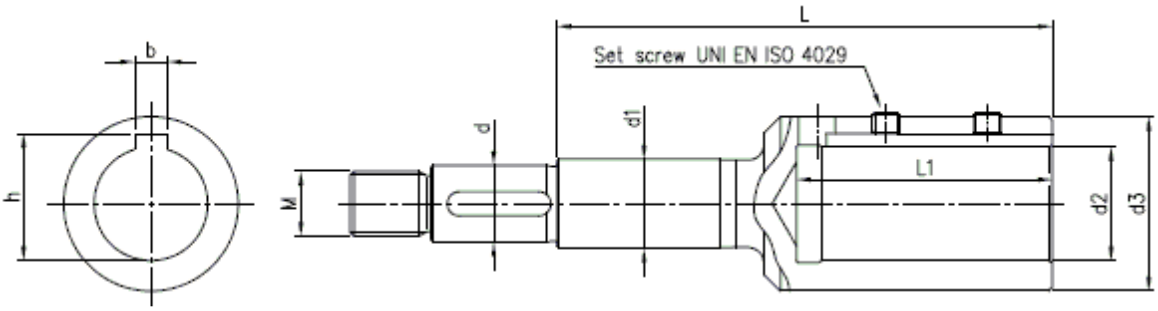
* in case the pumped fluid is water in combination to FPM elastomers, a maximum temperature fluid of 75°C is recommended in order to guarantee a longer life of the sealing parts

CONSTRUCTION

50Hz

Rev.AA

COUPLING 3(.)S4



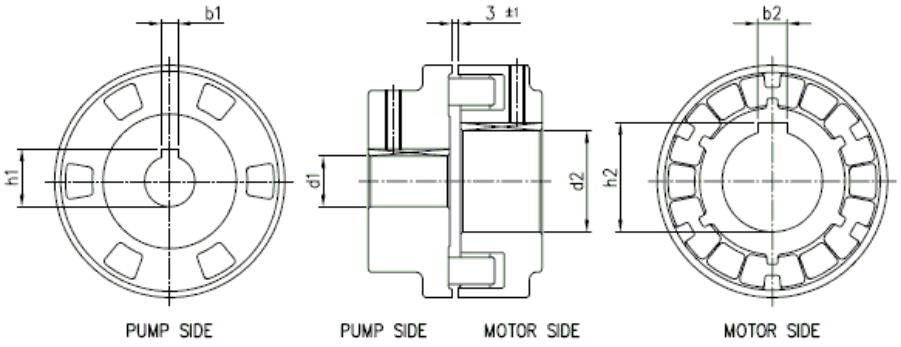
Pump type	[kW]	[HP]	Motor Size	Dimensions mm									
				d	d1	d2	d3	M	L	L1	b	h	Set screw
32-125/0.25	0.25	0.33	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37R	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-200/0.55R	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-200/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-200/0.75	0.75	1	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-125/0.37R	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
40-125/0.37	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
40-160/0.55R	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-160/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-200/1.1R	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-200/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-200/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-125/0.55R	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
50-125/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
50-160/1.1R	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-160/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/1.5R	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/2.2	2.2	3	100	22	22	28	43	M18x1.5	153	63	8	31.3	M8x8
65-125/0.55	0.55	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
65-125/0.75	0.75	1	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
65-125/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/1.1	1.1	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/2.2	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/2.2R	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/2.2	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/3	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-250/4	4	5.5	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
65-250/5.5	5.5	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-160/1.5	1.5	2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
80-160/2.2R	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
80-160/2.2	2.2	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
80-200/3	3	4	100	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-200/4R	4	5.5	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-200/4	4	5.5	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-250/5.5R	5.5	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-250/5.5	5.5	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-250/7.5	7.5	10	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8

CONSTRUCTION

50Hz

Rev.AA

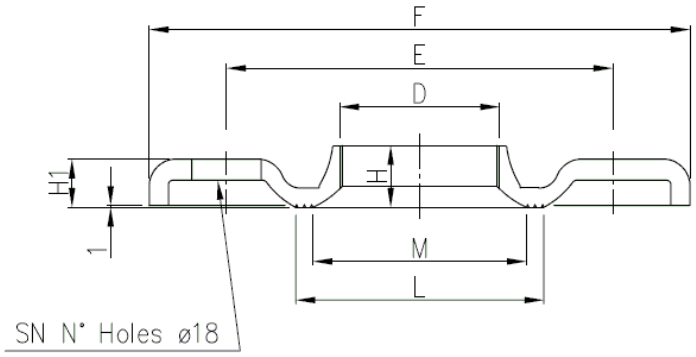
FLEXIBLE COUPLING 3(.)P4



Pump type	[kW]	[HP]	Motor Size	Dimensions mm					
				d1	b1	h1	d2	b2	h2
32-125/0.25	0.25	0.33	71	24	8	27.3	14	5	16.3
32-160/0.37R	0.37	0.5	71	24	8	27.3	14	5	16.3
32-160/0.37	0.37	0.5	71	24	8	27.3	14	5	16.3
32-200/0.55R	0.55	0.75	80	24	8	27.3	19	6	21.8
32-200/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
32-200/0.75	0.75	1	80	24	8	27.3	19	6	21.8
40-125/0.37R	0.37	0.5	71	24	8	27.3	14	5	16.3
40-125/0.37	0.37	0.5	71	24	8	27.3	14	5	16.3
40-160/0.55R	0.55	0.75	80	24	8	27.3	19	6	21.8
40-160/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
40-200/1.1R	1.1	1.5	90	24	8	27.3	24	8	27.3
40-200/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
40-200/1.5	1.5	2	90	24	8	27.3	24	8	27.3
50-125/0.55R	0.55	0.75	80	24	8	27.3	19	6	21.8
50-125/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
50-160/1.1R	1.1	1.5	90	24	8	27.3	24	8	27.3
50-160/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
50-200/1.5R	1.5	2	90	24	8	27.3	24	8	27.3
50-200/1.5	1.5	2	90	24	8	27.3	24	8	27.3
50-200/2.2	2.2	3	100	24	8	27.3	28	8	31.3
65-125/0.55	0.55	0.75	80	24	8	27.3	19	6	21.8
65-125/0.75	0.75	1	80	24	8	27.3	19	6	21.8
65-125/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
65-160/1.1	1.1	1.5	90	24	8	27.3	24	8	27.3
65-160/1.5	1.5	2	90	24	8	27.3	24	8	27.3
65-160/2.2	2.2	3	100	24	8	27.3	28	8	31.3
65-200/2.2R	2.2	3	100	24	8	27.3	28	8	31.3
65-200/2.2	2.2	3	100	24	8	27.3	28	8	31.3
65-200/3	3	4	100	24	8	27.3	28	8	31.3
65-250/4	4	5.5	112	32	10	35.3	28	8	31.3
65-250/5.5	5.5	7.5	132	32	10	35.3	38	10	41.3
80-160/1.5	1.5	2	90	24	8	27.3	24	8	27.3
80-160/2.2R	2.2	3	100	24	8	27.3	28	8	31.3
80-160/2.2	2.2	3	100	24	8	27.3	28	8	31.3
80-200/3	3	4	100	32	10	35.3	28	8	31.3
80-200/4R	4	5.5	112	32	10	35.3	28	8	31.3
80-200/4	4	5.5	112	32	10	35.3	28	8	31.3
80-250/5.5R	5.5	7.5	132	32	10	35.3	38	10	41.3
80-250/5.5	5.5	7.5	132	32	10	35.3	38	10	41.3
80-250/7.5	7.5	10	132	32	10	35.3	38	10	41.3

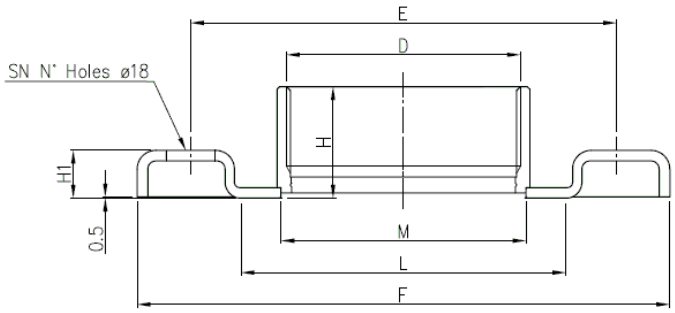
FITTINGS

COUNTERFLANGE ZINCKED STEEL



Counterflange									Screw	
DN	D	E	F	H	H1	L	M	SN	DIMENSIONS	MATERIAL
32	G 1 1/4	100	140	15	11.5	67	50	4	M16x55	Gv. Steel 8.8 strenght class ISO 898-1
40	G 1 1/2	110	150	17.5	11.5	72	58	4		
50	G2	125	165	19	15	89	70	4		
65	G 2 1/2	145	185	23	14	104	88	4		
80	G3	160	200	24	16	117.5	100	8	M16x60	
100	G4	180	220	29	16	144	125	8		

COUNTERFLANGE EN 1.4404 (AISI 316L)



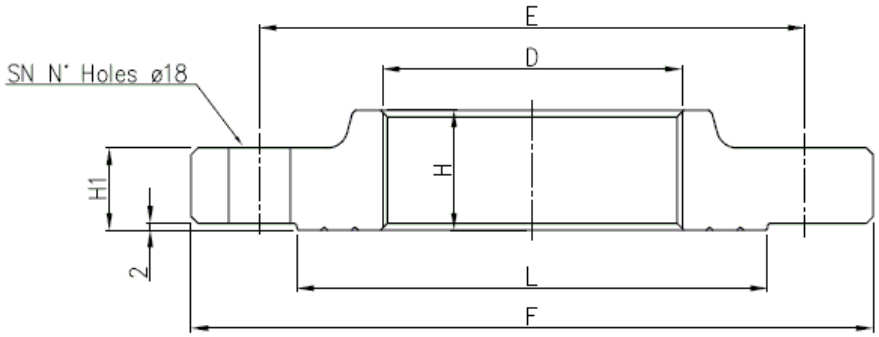
Counterflange									Screw	
DN	D	E	F	H	H1	L	M	SN	DIMENSIONS	MATERIAL
32	G 1 1/4	100	140	29.5	14	66	44	4	M16x55	A2-70 class ISO 3506-1
40	G 1 1/2	110	150	29.5	14	71	50.5			
50	G 2	125	165	34	16	83	63			
65	G 2 1/2	145	185	40	16	103	80			
80	G3	160	200	42	18	122	92	8	M16x60	

CONSTRUCTION

50Hz

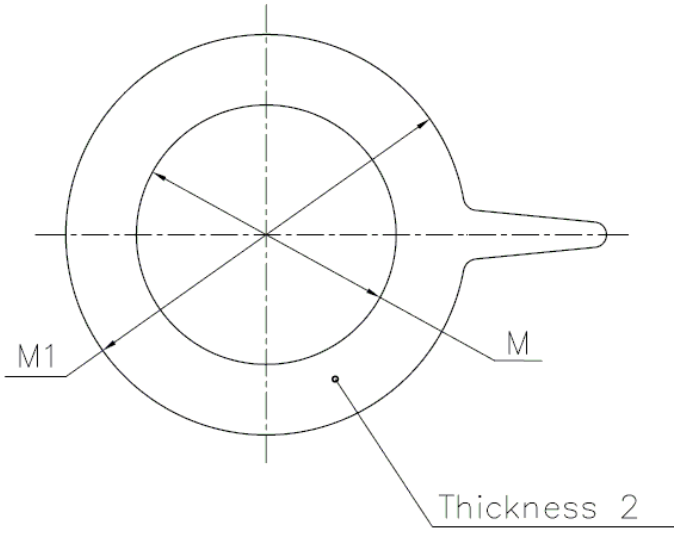
Rev.AA

COUNTERFLANGE EN 1.4404 (AISI 316L) DN100



Counterflange								Screw	
DN	D	E	F	H	H1	L	SN	DIMENSIONS	MATERIAL
100	G4	180	220	35	20	150	8	M16x70	A2-70 class ISO 3506-1

GASKET



DN	M	M1
32	38	82
40	50	93
50	60	107
65	80	125
80	90	140
100	115	160

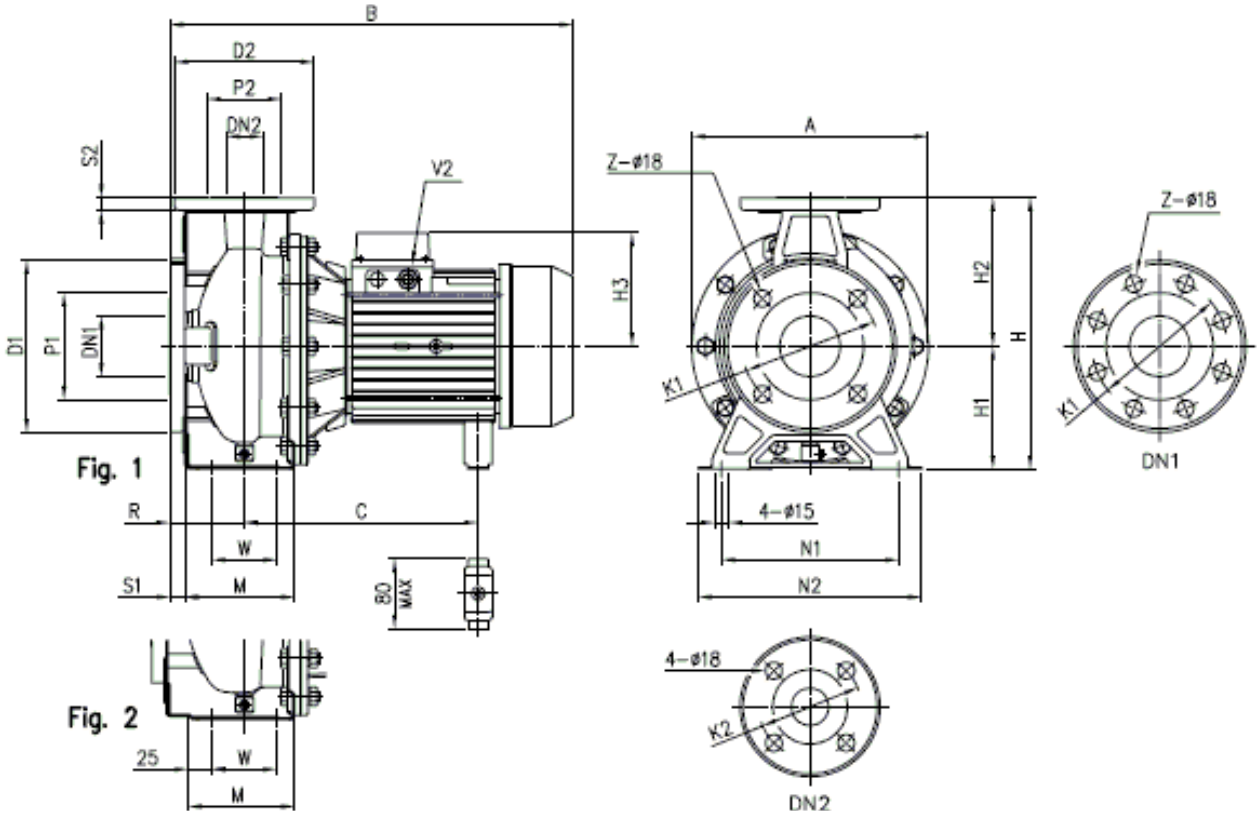
Material : EPDM for standard version
FPM for L version

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3(.)M4 32, 40, 50, 65-125/160/200



Pump type	Dimensions (mm)																										Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	V2	
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	102	80	70	114	140	190	213	371	205	PG 11	16.2
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	22
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	22.2
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	119	80	70	119	190	240	296	393	219	PG 11	26.8
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	119	80	70	119	190	240	296	393	219	PG 11	26.8
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	124	80	70	119	190	240	296	432	244÷255	PG 13.5	28.1
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	102	80	70	114	160	210	213	371	205	PG 11	16.8
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	102	80	70	114	160	210	213	371	205	PG 11	16.9
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	22.5
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	22.9
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	452	244÷255	PG 13.5	28.5
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	452	244÷255	PG 13.5	28.6
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	141	100	70	115	212	265	296	484	253	M20X1,5	30.3
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	119	100	70	114	190	240	254	413	219	PG 11	22.8
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	119	100	70	114	190	240	254	413	219	PG 11	22.8
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	124	100	70	115	212	265	296	452	244÷255	PG 13.5	28.6
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	124	100	70	115	212	265	296	452	244÷255	PG 13.5	28.7
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	141	100	70	115	212	265	296	484	253	M20x1,5	30.5
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	141	100	70	115	212	265	296	484	253	M20x1,5	31.6
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	141	100	70	115	212	265	296	521	253	M20x1,5	30
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	119	100	95	140	212	280	254	413	219	PG 11	23.2
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	124	100	95	140	212	280	254	452	244÷255	PG 13.5	20
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	124	100	95	140	212	280	254	452	244÷255	PG 13.5	20
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	124	100	95	140	212	280	296	452	244÷255	PG 13.5	28.5
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	141	100	95	140	212	280	296	484	253	M20x1,5	30
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	141	100	95	140	212	280	296	521	253	M20x1,5	32
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	521	253	M20x1,5	30
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	521	253	M20x1,5	30
65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	514	253	PG 16	38

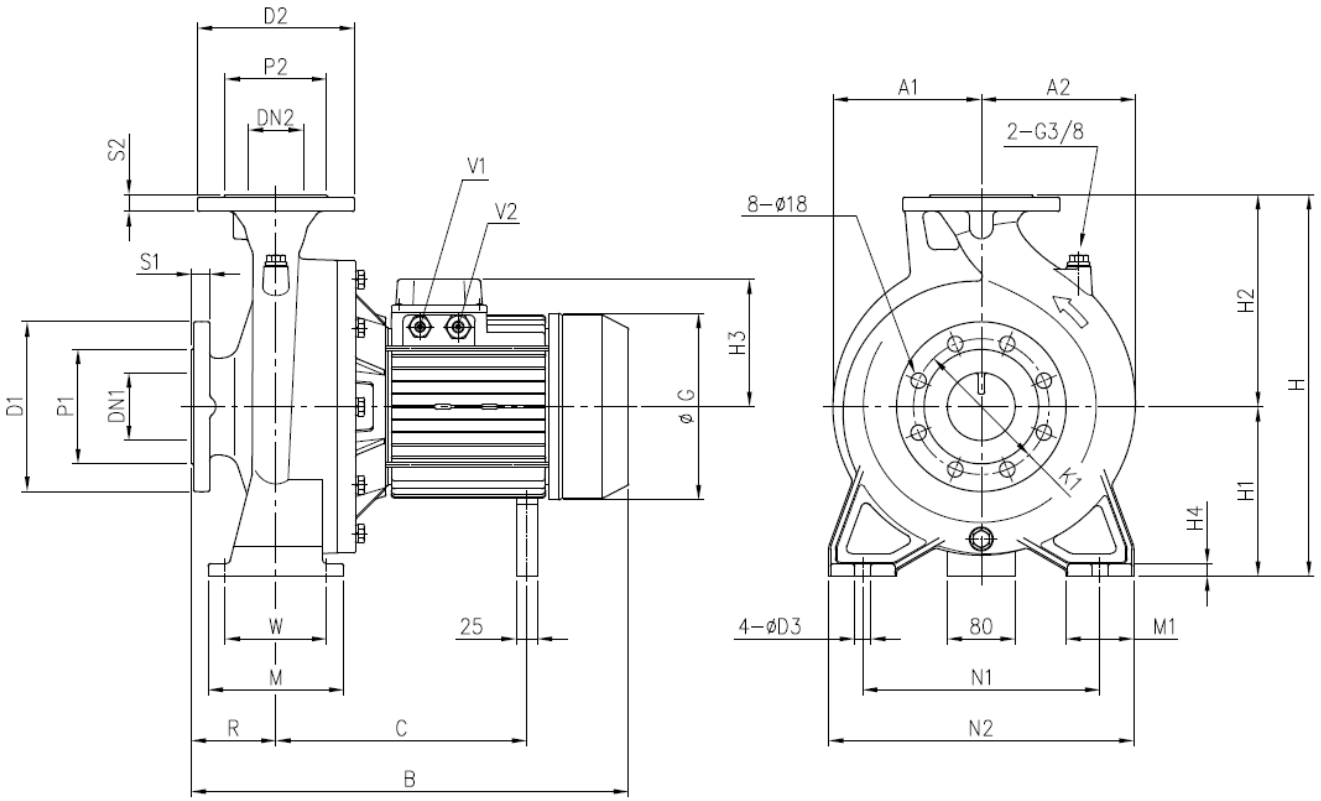
[1] Standard [2] On request

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3(.)M4 65-250, 80-160/200



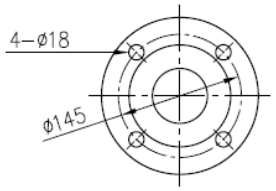


Fig. 1

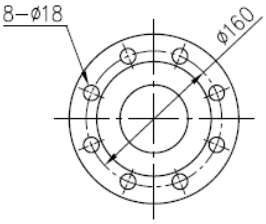


Fig. 2

Pump type	Dimensions [mm]																											Weight [kgf]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	W	N1	N2	M	M1	A1	A2	B	C	G	D3	V1	V2	
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	150	15	100	120	280	360	160	80	175	182	559	295	220	19	PG13.5	PG16	81
80-160/1.5	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	509	253	176	15	-	M20x1,5	53
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	546	253	193	15	-	M20x1,5	53
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	546	253	193	15	-	M20x1,5	53
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	141	13	125	95	280	345	125	65	175	182	561	275	193	15	-	PG16	73
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	175	182	584	295	220	15	PG13.5	PG16	80
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	175	182	584	295	220	15	PG13.5	PG16	81

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3(.)M4 65-250/5.5, 80-250

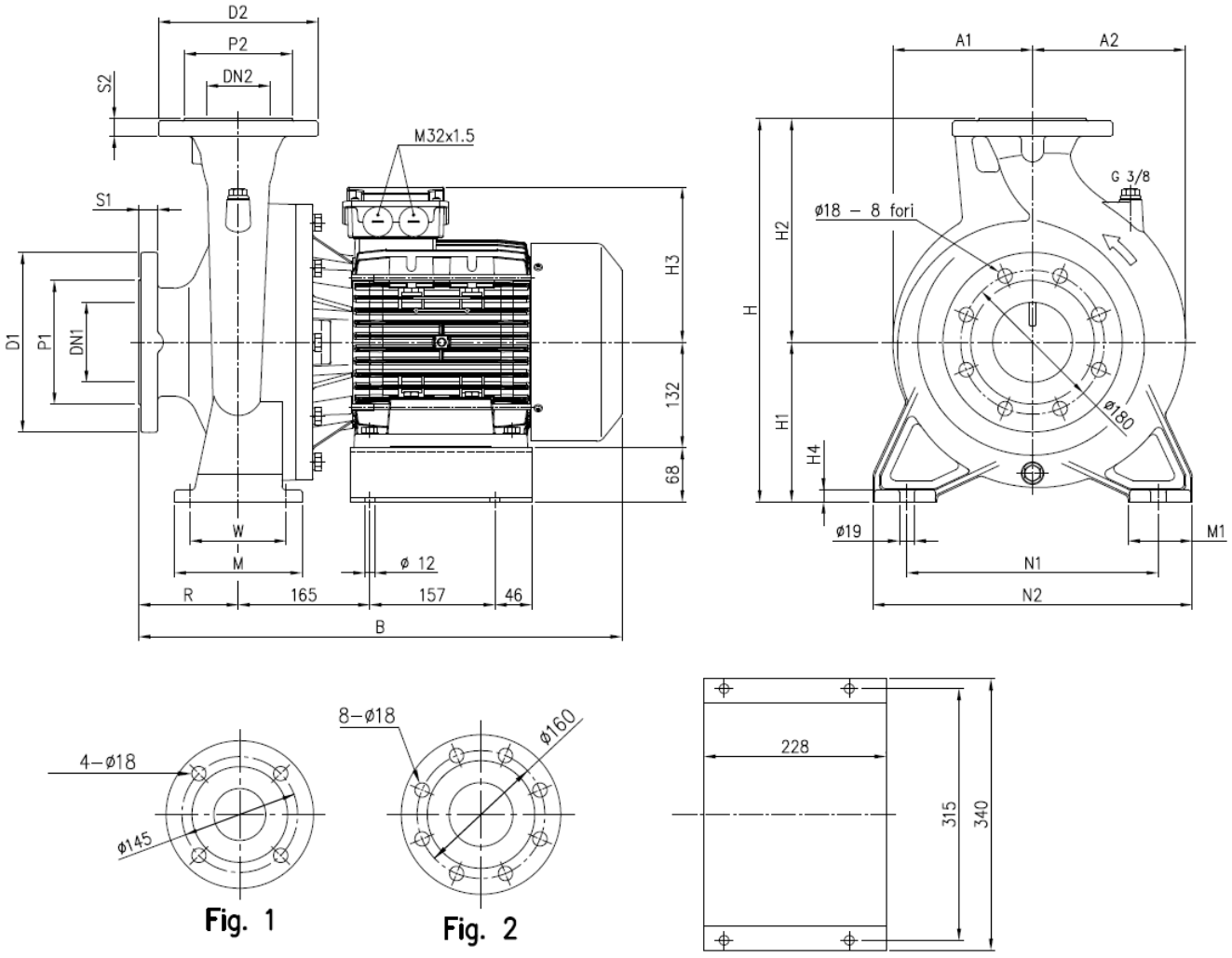


Fig. 1

Fig. 2

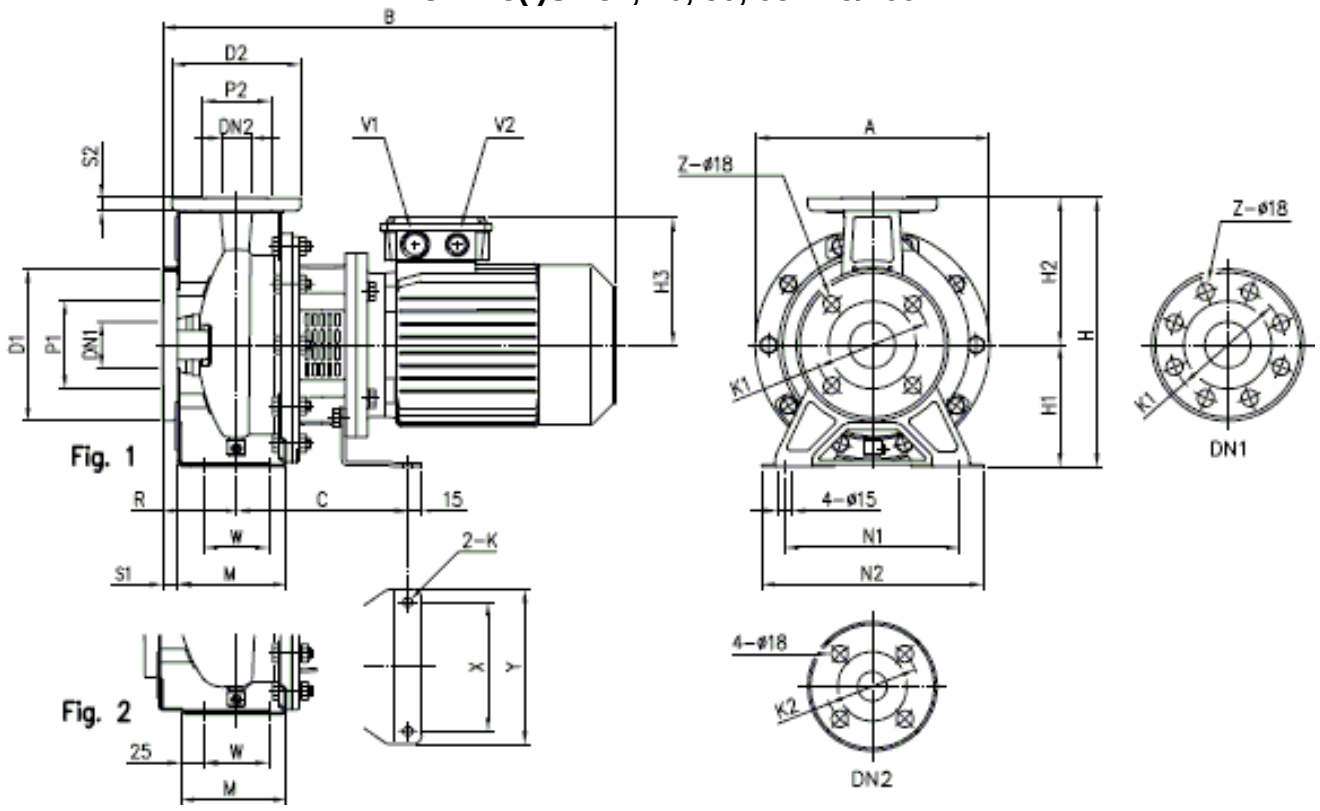
Pump type	Dimensions [mm]																						Weight [kgf]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	W	N1	N2	M	M1	A1	A2	B	
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	196	15	100	120	280	360	160	80	175	182	581	96
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	196	15	125	120	315	400	160	80	175	192	606	94
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	196	15	125	120	315	400	160	80	175	192	606	95
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	196	15	125	120	315	400	160	80	175	192	606	95

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3(.)S4 32, 40, 50, 65-125/160



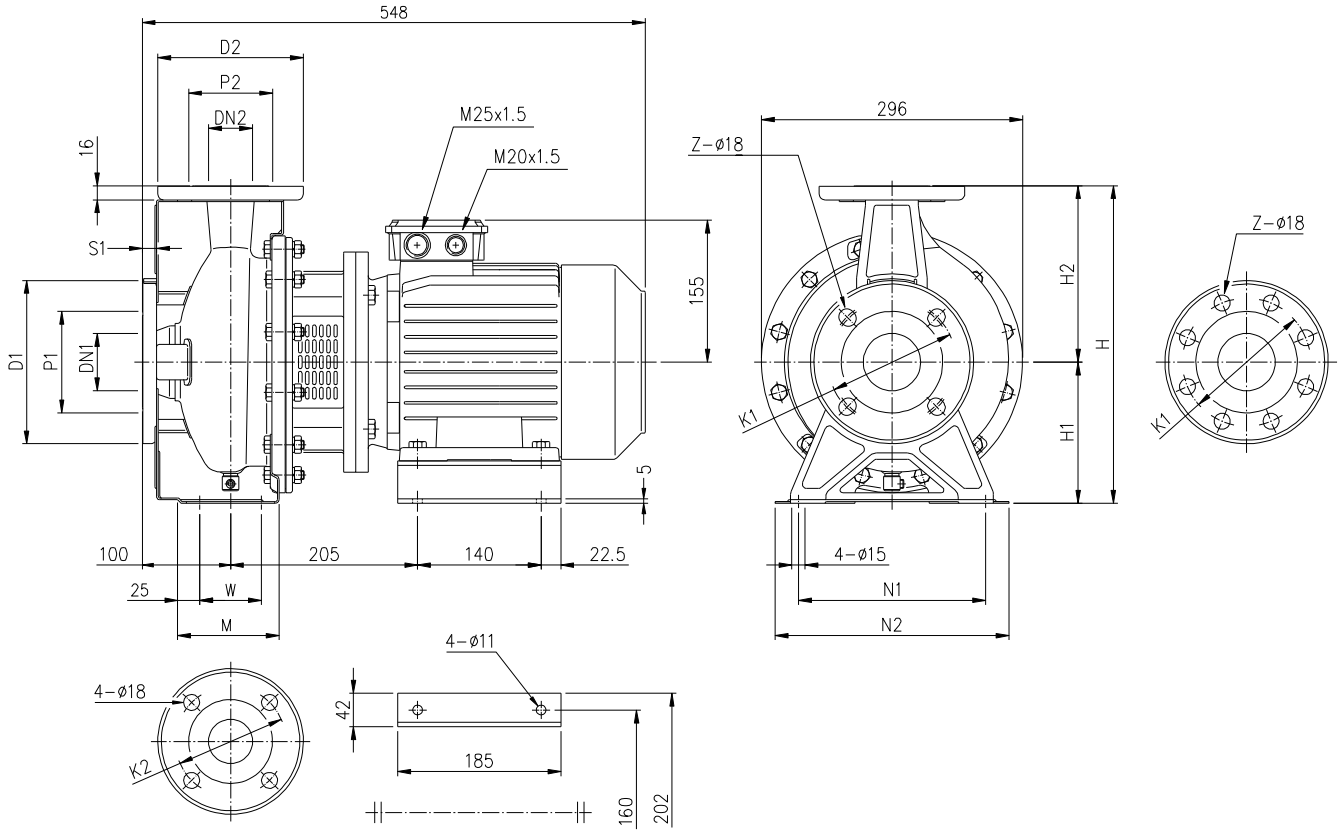
Pump type	Dimensions (mm)																												Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	X	Y	K	V1	V2	
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	114	80	70	114	140	190	213	404	153	112	140	8	M20x1.5	M16x1.5	15.4
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	114	80	70	118	190	240	254	404	153	112	140	8	M20x1.5	M16x1.5	18.5
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	114	80	70	118	190	240	254	404	153	112	140	8	M20x1.5	M16x1.5	18.7
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	33
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	33
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	29.5
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	114	80	70	114	160	210	213	404	153	112	140	8	M20x1.5	M16x1.5	16.2
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	114	80	70	114	160	210	213	404	153	112	140	8	M20x1.5	M16x1.5	16.2
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	139	80	70	118	190	240	254	430	174	140	168	10	M25x1.5	M20x1.5	23.5
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	139	80	70	118	190	240	254	430	174	140	168	10	M25x1.5	M20x1.5	23.5
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	32,1
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	32,1
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	32,9
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	139	100	70	114	190	240	254	450	174	140	168	10	M25x1.5	M20x1.5	23.7
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	139	100	70	114	190	240	254	450	174	140	168	10	M25x1.5	M20x1.5	23.7
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	31,8
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	31,8
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34,5
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34,5
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	450	174	140	168	10	M25x1.5	M20x1.5	21.5
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	450	174	140	168	10	M25x1.5	M20x1.5	30
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	148	100	95	140	212	280	254	497	186	140	168	10	M25x1.5	M20x1.5	27,8
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	148	100	95	140	212	280	296	497	186	140	168	10	M25x1.5	M20x1.5	28,8
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	148	100	95	140	212	280	296	497	186	140	168	10	M25x1.5	M20x1.5	40,4

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3(.)S4 50, 65-160/200



Pump type	Dimensions (mm)																		Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	H	H1	H2	W	M	N1	N2	
3S 50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	360	160	200	70	115	212	265	43.4
3S 65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	360	160	200	95	140	212	280	46.4
3S 65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	42,9
3S 65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	43,4
3S 65-200/3	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	48.5

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3LS4 65-250, 80-160/200/250

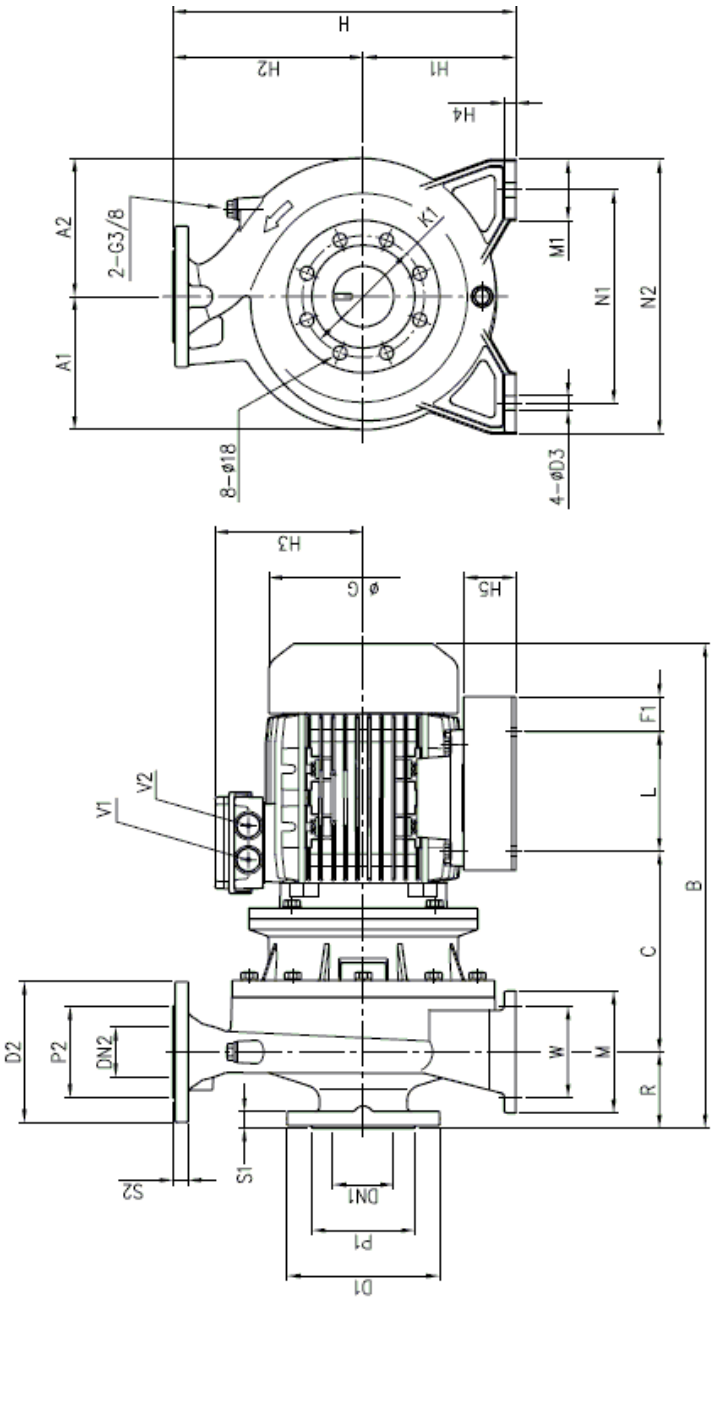


Fig. 1

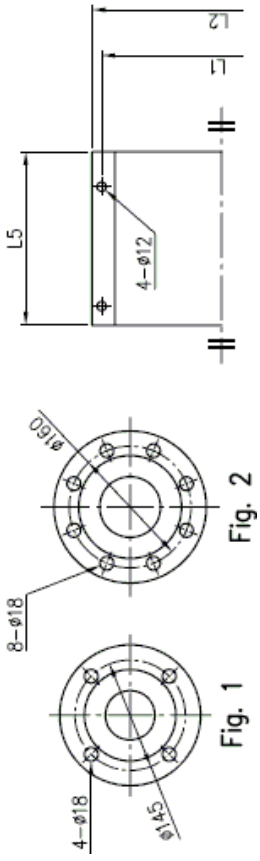


Fig. 2

Pump type	Dimensions [mm]																																				Weight [kgf]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	W	N1	N2	M	M1	L	L1	L2	L5	A1	A2	B	C	F1	G	D3	V1	V2		
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	171	15	88	100	120	280	360	160	80	147	265	290	187	175	182	580	215	20	225	19	M25x1.5	M20x1.5		90.6
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	198	15	68	100	120	280	360	160	80	157	315	340	228	175	182	637	264	46	248	19	M32x1.5	M32x1.5		118
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	155	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1.5	M20x1.5		70.1
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	155	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1.5	M20x1.5		70.4
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	155	13	80	125	95	280	345	125	65	157	315	340	228	175	182	583	215	25	196	15	M25x1.5	M20x1.5		80
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	161	13	68	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1.5	M20x1.5		89.6
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	161	13	68	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1.5	M20x1.5		95.6
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1.5	M32x1.5		124
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1.5	M32x1.5		125
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	157	315	340	228	175	192	722	264	46	248	19	M32x1.5	M32x1.5		134

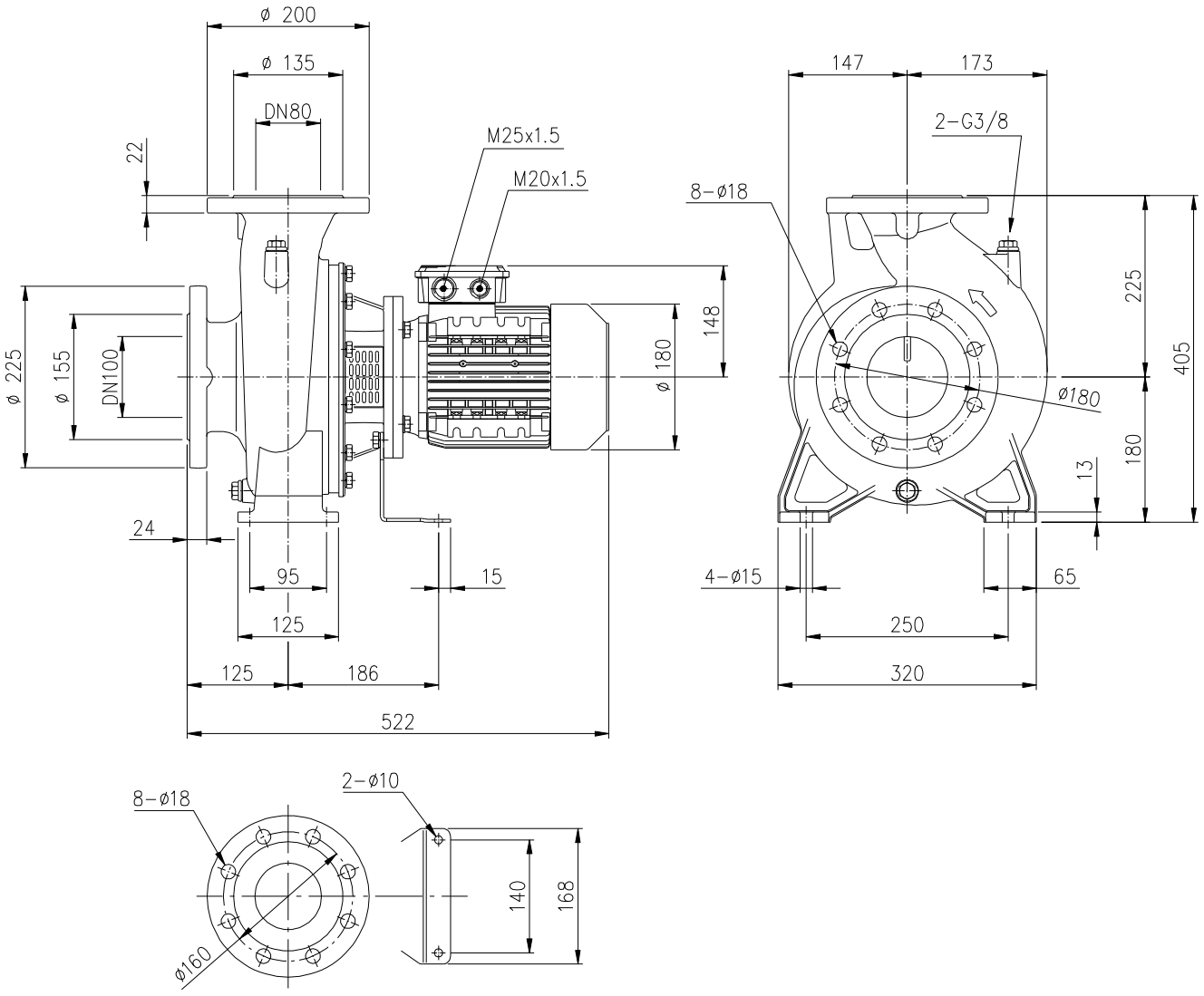
[1] Standard [2] On request

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3LS4 80-160/1.5



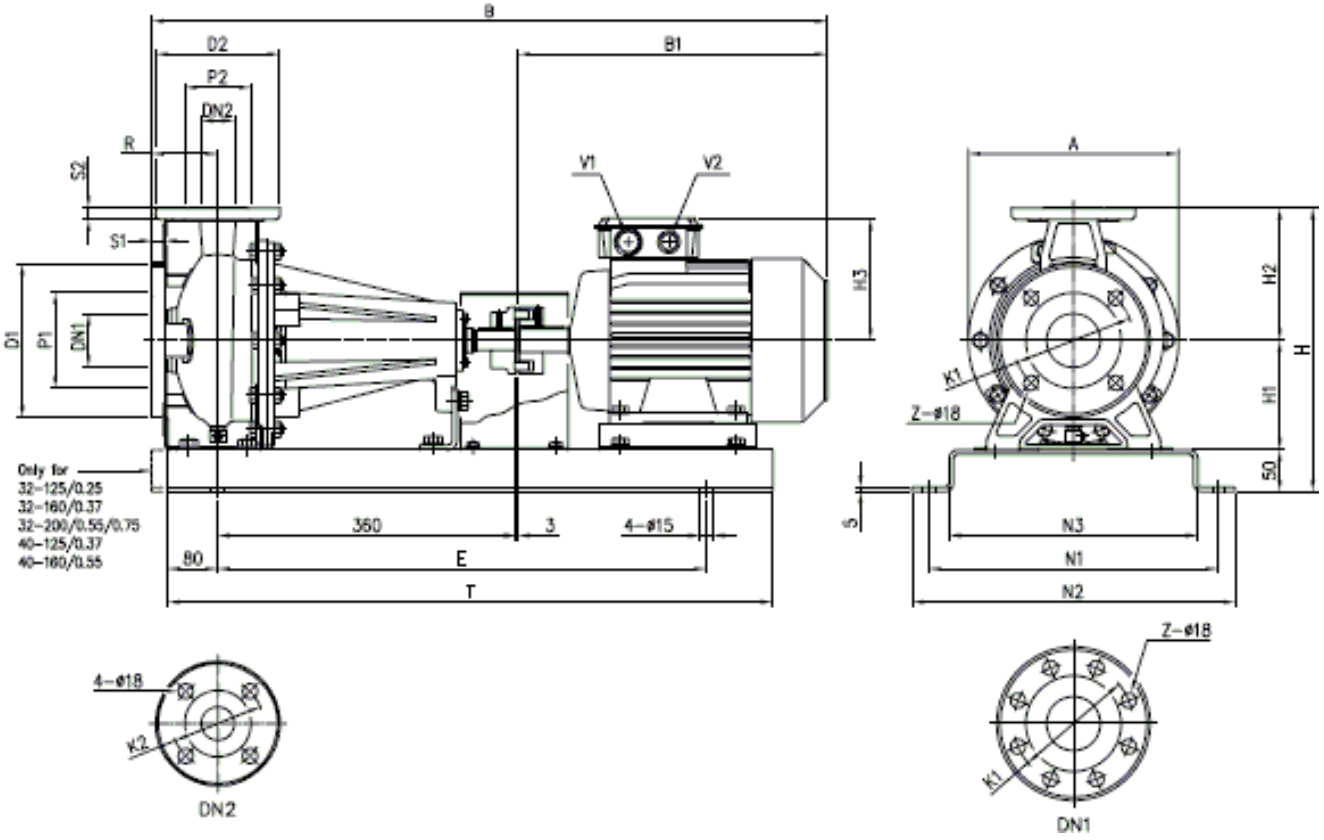
Weight: 58 kgf

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3(.)P4 32, 40, 50, 65-125/160/200



Pump type	Dimensions [mm]																										Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	A	B	B1	E	N1	N2	N3	T	V1	V2	
3P 32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	37
3P 32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	114	80	254	689	246	510	350	390	300	670	M20x1.5	M16x1.5	41
3P 32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	114	80	254	689	246	510	350	390	300	670	M20x1.5	M16x1.5	41
3P 32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	53.5
3P 32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	53.5
3P 32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	54.5
3P 40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	46.5
3P 40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	46.5
3P 40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	139	80	254	715	272	510	350	390	300	670	M25x1.5	M20x1.5	44.5
3P 40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	139	80	254	715	272	510	350	390	300	670	M25x1.5	M20x1.5	44.5
3P 40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	59,3
3P 40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	59,3
3P 40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61,4
3P 50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	45
3P 50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	45
3P 50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	50,3
3P 50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	50,3
3P 50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61,4
3P 50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61,4
3P 50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	155	100	296	829	366	590	350	390	300	750	M25x1.5	M20x1.5	70,4
3P 65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	48.5
3P 65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	48.5
3P 65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	148	100	254	780	317	590	350	390	300	750	M25x1.5	M20x1.5	53,8
3P 65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	60,3
3P 65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	60,9
3P 65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	155	100	296	829	366	590	350	390	300	750	M25x1.5	M20x1.5	71,9
3P 65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	74,4
3P 65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	74,4
3P 65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	77.5

[1] Standard [2] On request

DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PUMP 3LP4 65-250, 80

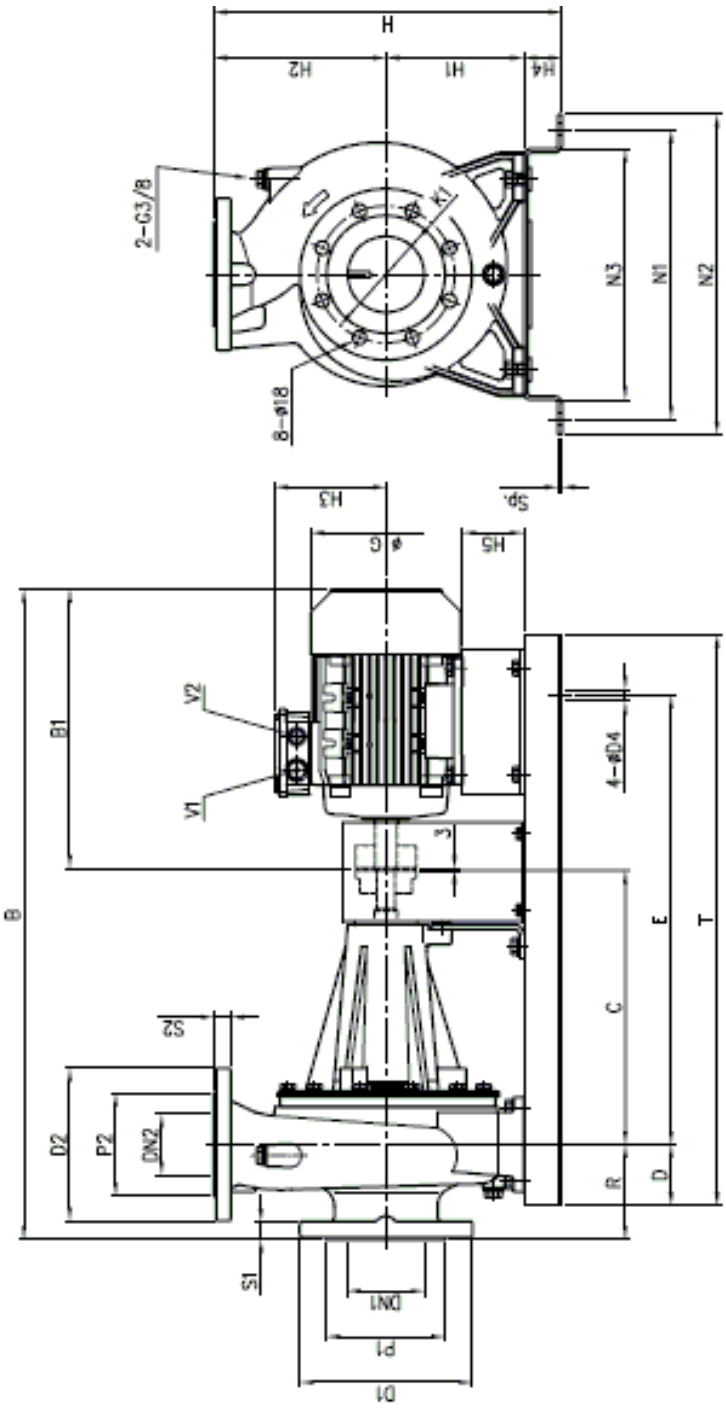


Fig. 1

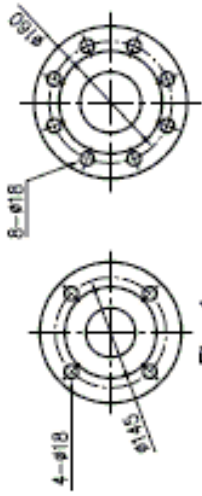


Fig. 2

Pump type	Dimensions [mm]																												Weight [kgf]
	DN1	P1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	N1	N2	N3	B	B1	C	D	G	E	T	D4	Sp.	V1	V2	
65-250/4	80	135	200	22	65 Fig. 1	120	185	20	510	200	250	171	60	88	100	510	570	440	961	388	470	100	225	760	960	19	8	M25x1.5	M20x1.5	119.1
65-250/5.5	80	135	200	22	65 Fig. 1	120	185	20	510	200	250	198	60	68	100	510	570	440	###	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	140
80-160/1.5	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	148	50	90	125	380	420	330	805	317	360	80	180	590	750	15	5	M25x1.5	M20x1.5	77.4
80-160/2.2R	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	155	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1.5	M20x1.5	86.4
80-160/2.2	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	155	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1.5	M20x1.5	100.9
80-200/3	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	155	60	80	125	460	520	390	964	366	470	100	196	700	900	19	8	M25x1.5	M20x1.5	109.5
80-200/4R	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	68	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	122.1
80-200/4	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	68	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	122.6
80-250/5.5R	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	68	125	510	570	440	###	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	144
80-250/5.5	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	68	125	510	570	440	###	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	144.5
80-250/7.5	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	68	125	510	570	440	###	502	470	100	248	760	960	19	8	M32x1.5	M32x1.5	157.5

[1] Standard [2] On request

DIMENSIONS AND WEIGHT

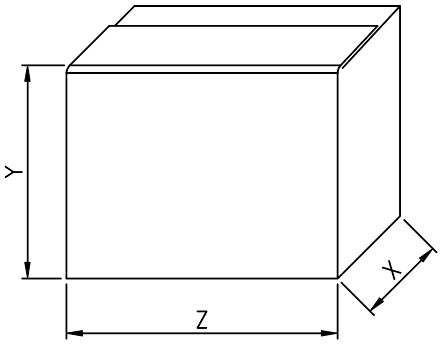
50Hz

Rev.AA

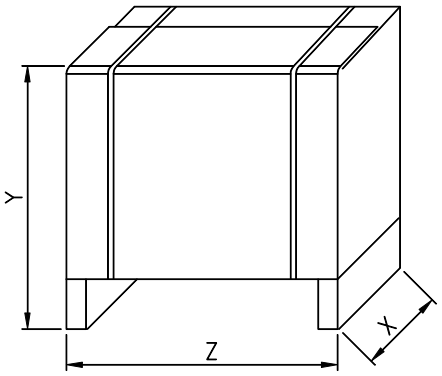
PACKING 3(.)M4

Pump type	Packing [mm]			Weight [kgf]	Pack type
	Z	X	Y		
32-125/0.25	450	250	300	19.3	1
32-160/0.37R	430	280	340	24.4	
32-160/0.37				24.4	
32-200/0.55R	500	330	390	28.7	
32-200/0.55				28.7	
32-200/0.75				31	
40-125/0.37R	450	250	300	18.2	
40-125/0.37				18.2	
40-160/0.55R	430	280	340	25.6	
40-160/0.55				25.6	
40-200/1.1R	500	330	390	31.7	
40-200/1.1				31.8	
40-200/1.5	580	350	416	33	2
50-125/0.55R	430	280	340	24.8	1
50-125/0.55				24.8	
50-160/1.1R	500	330	390	31.5	
50-160/1.1				31.6	
50-200/1.5R				32.7	
50-200/1.5				33.8	2
50-200/2.2	580	350	416	32.7	
65-125/0.55	500	330	390	26.6	1
65-125/0.75				22	
65-125/1.1				26.5	
65-160/1.1				31	
65-160/1.5	580	350	416	34	2
65-160/2.2	500	330	390	35	1
65-200/2.2R	600	390	533	35	2
65-200/2.2				35	
65-200/3				40	
65-250/4	760	455	613	92	
65-250/5.5				106	
80-160/1.5	580	370	538	58	
80-160/2.2R				58	
80-160/2.2				58	
80-200/3	760	455	613	78	
80-250/4R				85	
80-250/4				86	
80-250/5.5R				99	
80-250/5.5				103	
80-250/7.5				124	

TYPE 1



TYPE 2



DIMENSIONS AND WEIGHT

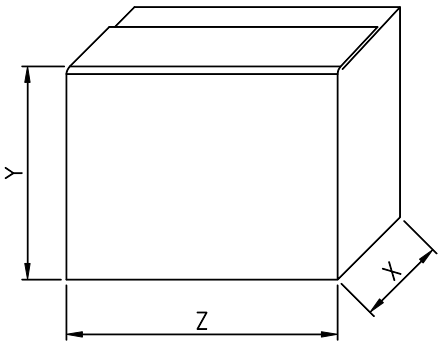
50Hz

Rev.AA

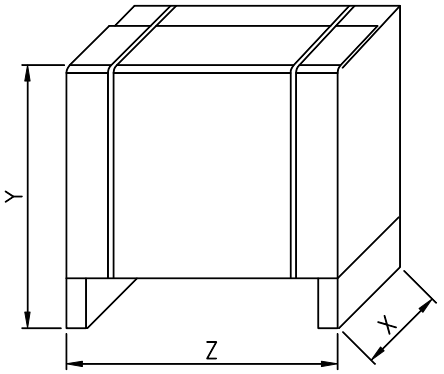
PACKING 3(.)S4

Pump type	Packing [mm]			Weight [kgf]	Pack type
	Z	X	Y		
32-125/0.25	450	250	300	17.5	1
32-160/0.37R	490	280	340	21.3	
32-160/0.37	430	280	330	21.3	
32-200/0.55R	500	330	390	34.3	
32-200/0.55				34.3	
32-200/0.75				32.3	
40-125/0.37R	450	250	300	18.5	
40-125/0.37				18.5	
40-160/0.55R	490	280	340	25.6	
40-160/0.55				25.6	
40-200/1.1R	700	350	498	33.2	2
40-200/1.1				33.2	
40-200/1.5				38.1	
50-125/0.55R	490	280	340	26	1
50-125/0.55				26	
50-160/1.1R	700	350	498	37.8	2
50-160/1.1				37.8	
50-200/1.5R				36	
50-200/1.5				36	
50-200/2.2				47.9	
65-125/0.55	580	350	488	28	
65-125/0.75				33	
65-125/1.1				34.9	
65-160/1.1				36.8	
65-160/1.5				37.4	
65-160/2.2	600	390	533	45.4	
65-200/2.2R				50.4	
65-200/2.2				50.4	
65-200/3				50	
65-250/4	760	455	613	10.6	
65-250/5.5				126	
80-160/1.5	580	370	538	66.9	
80-160/2.2R	680			75.9	
80-160/2.2				76.4	
80-200/3	760	455	613	88	
80-200/4R				99.6	
80-200/4				102.6	
80-250/5.5R				134	
80-250/5.5				135	
80-250/7.5				144	

TYPE 1



TYPE 2



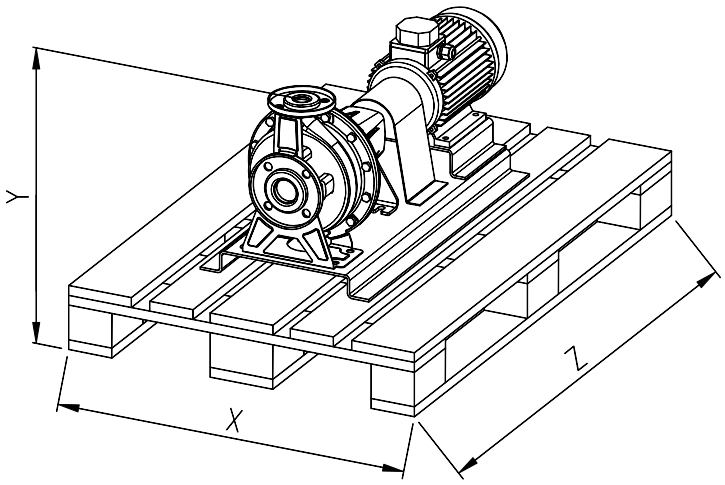
DIMENSIONS AND WEIGHT

50Hz

Rev.AA

PACKING 3(.)P4

Pump type	Packing [mm] Z	X	Y	Weight [kgf]
32-125/0.25	1200	800	394	37
32-160/0.37R			434	41
32-160/0.37				41
32-200/0.55R			482	53.5
32-200/0.55				53.5
32-200/0.75				54.5
40-125/0.37R			394	46.5
40-125/0.37				46.5
40-160/0.55R			434	44.5
40-160/0.55				44.5
40-200/1.1R			482	59.3
40-200/1.1				59.3
40-200/1.5				61.4
50-125/0.55R			434	45
50-125/0.55				45
50-160/1.1R			482	50.3
50-160/1.1				50.3
50-200/1.5R			502	61.4
50-200/1.5				61.4
50-200/2.2				70.4
65-125/0.55			482	48.6
65-125/0.75				50
65-125/1.1				53.8
65-160/1.1			502	60.3
65-160/1.5				60.9
65-160/2.2				71.9
65-200/2.2R			547	74.4
65-200/2.2				74.4
65-200/3				77.5
65-250/4			635	119.1
65-250/5.5				140
80-160/1.5			580	77.4
80-160/2.2R				83.4
80-160/2.2				97.9
80-200/3			615	109.5
80-200/4R				122.1
80-200/4				122.6
80-250/5.5R			665	144
80-250/5.5				144.5
80-250/7.5				157.5



TECHNICAL DATA

50Hz

Rev.AA

MOTOR DATA 3(.)M4

Pump type		Motor			Efficiency	Input	Efficiency (% load)				Full load current [A]			Locked rotor current [A]		
		Motor Size	Power [kW]	Power [HP]	[IE2 / IE3]	[kW]	η % 50%	η % 75%	η % 100%	cos-φ	230V	400V	690V	230V	400V	690V
3(.)M4	32-125/0.25	71	0,25	0,33	IE2	0,34	62,8	69,4	68,5	0,552	1,6	0,9	-	8,8	5,1	-
3(.)M4	32-160/0.37R	80	0,37	0,5	IE2	0,49	67,5	73,4	76,4	0,562	2,3	1,3	-	15,6	9,0	-
3(.)M4	32-160/0.37		0,37	0,5	IE2	0,49	67,5	73,4	76,4	0,562	2,3	1,3	-	15,6	9,0	-
3(.)M4	32-200/0.55R	80	0,55	0,75	IE2	0,72	73,5	77,4	77,1	0,704	2,6	1,5	-	15,6	9,0	-
3(.)M4	32-200/0.55		0,55	0,75	IE2	0,72	73,5	77,4	77,1	0,704	2,6	1,5	-	15,6	9,0	-
3(.)M4	32-200/0.75	90	0,75	1	IE3	0,92	74,6	79,9	82,5	0,660	3,5	2,0	-	30,1	17,4	-
3(.)M4	40-125/0.37R	71	0,37	0,5	IE2	0,50	69,4	73,6	74,2	0,705	1,8	1,0	-	8,8	5,1	-
3(.)M4	40-125/0.37		0,37	0,5	IE2	0,50	69,4	73,6	74,2	0,705	1,8	1,0	-	8,8	5,1	-
3(.)M4	40-160/0.55R	80	0,55	0,75	IE2	0,72	71,9	75,9	77,7	0,704	2,4	1,4	-	15,6	9,0	-
3(.)M4	40-160/0.55		0,55	0,75	IE2	0,72	71,9	75,9	77,7	0,704	2,4	1,4	-	15,6	9,0	-
3(.)M4	40-200/1.1R	90	1,1	1,5	IE3	1,31	81,7	83,3	84,1	0,785	4,3	2,5	-	30,1	17,4	-
3(.)M4	40-200/1.1		1,1	1,5	IE3	1,31	81,7	83,3	84,1	0,785	4,3	2,5	-	30,1	17,4	-
3(.)M4	40-200/1.5	100	1,5	2	IE3	1,74	81,6	85,0	85,3	0,669	6,4	3,7	-	47,1	27,2	-
3(.)M4	50-125/0.55R	80	0,55	0,75	IE2	0,72	73,5	77,4	77,1	0,704	2,6	1,5	-	15,6	9,0	-
3(.)M4	50-125/0.55		0,55	0,75	IE2	0,72	73,5	77,4	77,1	0,704	2,6	1,5	-	15,6	9,0	-
3(.)M4	50-160/1.1R	90	1,1	1,5	IE3	1,31	81,7	83,3	84,1	0,785	4,3	2,5	-	30,1	17,4	-
3(.)M4	50-160/1.1		1,1	1,5	IE3	1,31	81,7	83,3	84,1	0,785	4,3	2,5	-	30,1	17,4	-
3(.)M4	50-200/1.5R	100	1,5	2	IE3	1,74	81,6	85,0	85,3	0,669	6,4	3,7	-	47,1	27,2	-
3(.)M4	50-200/1.5		1,5	2	IE3	1,74	81,6	85,0	85,3	0,669	6,4	3,7	-	47,1	27,2	-
3(.)M4	50-200/2.2		2,2	3	IE3	2,55	81,8	85,4	86,7	0,632	10,0	5,8	-	80,2	46,3	-
3(.)M4	65-125/0.55	80	0,55	0,75	IE2	0,72	73,5	77,4	77,1	0,704	2,6	1,5	-	15,6	9,0	-
3(.)M4	65-125/0.75	90	0,75	1	IE3	0,92	74,6	79,9	82,5	0,660	3,5	2,0	-	30,1	17,4	-
3(.)M4	65-125/1.1		1,1	1,5	IE3	1,31	81,7	83,3	84,1	0,785	4,3	2,5	-	30,1	17,4	-
3(.)M4	65-160/1.1		1,1	1,5	IE3	1,31	81,7	83,3	84,1	0,785	4,3	2,5	-	30,1	17,4	-
3(.)M4	65-160/1.5	100	1,5	2	IE3	1,74	81,6	85,0	85,3	0,669	6,4	3,7	-	47,1	27,2	-
3(.)M4	65-160/2.2		2,2	3	IE3	2,55	81,8	85,4	86,7	0,632	10,0	5,8	-	80,2	46,3	-
3(.)M4	65-200/2.2R		2,2	3	IE3	2,55	81,8	85,4	86,7	0,632	10,0	5,8	-	80,2	46,3	-
3(.)M4	65-200/2.2		2,2	3	IE3	2,55	81,8	85,4	86,7	0,632	10,0	5,8	-	80,2	46,3	-
3(.)M4	65-200/3		3	4	IE3	3,42	84,1	86,1	87,7	0,736	11,8	6,8	-	80,2	46,3	-
3LM4	65-250/4	112	4	5,5	IE3	4,51	87,9	88,9	88,6	0,779	14,5	8,4	-	101,3	58,5	-
3LM4	65-250/5.5	132M	5,5	7,5	IE3	6,14	90,6	91,3	89,6	0,840	-	10,6	6,1	-	91,2	52,5
3LM4	80-160/1.5	100	1,5	2	IE3	1,74	81,6	85,0	85,3	0,669	6,4	3,7	-	47,1	27,2	-
3LM4	80-160/2.2R		2,2	3	IE3	2,55	81,8	85,4	86,7	0,632	10,0	5,8	-	80,2	46,3	-
3LM4	80-160/2.2		2,2	3	IE3	2,55	81,8	85,4	86,7	0,632	10,0	5,8	-	80,2	46,3	-
3LM4	80-200/3		3	4	IE3	3,42	84,1	86,1	87,7	0,736	11,8	6,8	-	80,2	46,3	-
3LM4	80-200/4R	112	4	5,5	IE3	4,51	87,9	88,9	88,6	0,779	14,5	8,4	-	101,3	58,5	-
3LM4	80-200/4	112	4	5,5	IE3	4,51	87,9	88,9	88,6	0,779	14,5	8,4	-	101,3	58,5	-
3LM4	80-250/5.5R	132M	5,5	7,5	IE3	6,14	90,6	91,3	89,6	0,840	-	10,6	6,1	-	91,2	52,5
3LM4	80-250/5.5		5,5	7,5	IE3	6,14	90,6	91,3	89,6	0,840	-	10,6	6,1	-	91,2	52,5
3LM4	80-250/7.5		7,5	10	IE3	8,30	90,8	91,5	90,4	0,840	-	14,2	8,2	-	122,1	70,5

MOTOR DATA 3(.)S4-3(.)P4

Pump type		Motor size	Motor Power [kW]	Motor Power [HP]	Efficiency	Input [kW]	Efficiency (% load) and power-factor η % 50%	η % 75%	η % 100%	cos-ϕ	Full load current [A] 230 V	[A] 400 V	[A] 690 V	Locked rotor current [A] 230 V	[A] 400 V	[A] 690 V
3(.)S4 32-125/0.25	3(.)P4 32-125/0.25	71	0.25	0.33	IE2	0,36	67,1	71,2	68,5	0,77	1,2	0,7	-	3,8	2,2	-
3(.)S4 32-160/0.37R	3(.)P4 32-160/0.37R		0.37	0.5	IE2	0,50	68,4	73,3	72,7	0,70	1,8	1,1	-	5,9	3,5	-
3(.)S4 32-160/0.37	3(.)P4 32-160/0.37		0.37	0.5	IE2	0,50	68,4	73,3	72,7	0,70	1,8	1,1	-	5,9	3,5	-
3(.)S4 32-200/0.55R	3(.)P4 32-200/0.55R	80	0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 32-200/0.55	3(.)P4 32-200/0.55		0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 32-200/0.75	3(.)P4 32-200/0.75		0.75	1	IE3	0,92	80,7	81,5	82,5	0,74	3,1	1,8	-	17,3	10,0	-
3(.)S4 40-125/0.37R	3(.)P4 40-125/0.37R	71	0.37	0.5	IE2	0,50	68,4	73,3	72,7	0,70	1,8	1,1	-	5,9	3,5	-
3(.)S4 40-125/0.37	3(.)P4 40-125/0.37		0.37	0.5	IE2	0,50	68,4	73,3	72,7	0,70	1,8	1,1	-	5,9	3,5	-
3(.)S4 40-160/0.55R	3(.)P4 40-160/0.55R	80	0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 40-160/0.55	3(.)P4 40-160/0.55		0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 40-200/1.1R	3(.)P4 40-200/1.1R	90S	1.1	1.5	IE3	1,30	83,3	84,3	84,1	0,75	4,3	2,5	-	30,7	17,7	-
3(.)S4 40-200/1.1	3(.)P4 40-200/1.1		1.1	1.5	IE3	1,30	83,3	84,3	84,1	0,75	4,3	2,5	-	30,7	17,7	-
3(.)S4 40-200/1.5	3(.)P4 40-200/1.5	90L	1.5	2	IE3	1,80	84,1	85,2	85,3	0,72	6,2	3,6	-	41,0	23,7	-
3(.)S4 50-125/0.55R	3(.)P4 50-125/0.55R	80	0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 50-125/0.55	3(.)P4 50-125/0.55		0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 50-160/1.1R	3(.)P4 50-160/1.1R	90S	1.1	1.5	IE3	1,30	83,3	84,3	84,1	0,75	4,3	2,5	-	30,7	17,7	-
3(.)S4 50-160/1.1	3(.)P4 50-160/1.1		1.1	1.5	IE3	1,30	83,3	84,3	84,1	0,75	4,3	2,5	-	30,7	17,7	-
3(.)S4 50-200/1.5R	3(.)P4 50-200/1.5R	90L	1.5	2	IE3	1,80	84,1	85,2	85,3	0,72	6,2	3,6	-	41,0	23,7	-
3(.)S4 50-200/1.5	3(.)P4 50-200/1.5		1.5	2	IE3	1,80	84,1	85,2	85,3	0,72	6,2	3,6	-	41,0	23,7	-
3(.)S4 50-200/2.2	3(.)P4 50-200/2.2	100L	2.2	3	IE3	2,58	83,2	86,2	86,7	0,63	10,2	5,9	-	73,6	42,5	-
3(.)S4 65-125/0.55	3(.)P4 65-125/0.55	80	0.55	0.75	IE2	0,71	75,1	77,8	77,1	0,72	2,6	1,5	-	9,4	5,4	-
3(.)S4 65-125/0.75	3(.)P4 65-125/0.75		0.75	1	IE3	0,92	80,7	81,5	82,5	0,74	3,1	1,8	-	17,3	10,0	-
3(.)S4 65-125/1.1	3(.)P4 65-125/1.1	90S	1.1	1.5	IE3	1,30	83,3	84,3	84,1	0,75	4,3	2,5	-	30,7	17,7	-
3(.)S4 65-160/1.1	3(.)P4 65-160/1.1		1.1	1.5	IE3	1,30	83,3	84,3	84,1	0,75	4,3	2,5	-	30,7	17,7	-
3(.)S4 65-160/1.5	3(.)P4 65-160/1.5	90L	1.5	2	IE3	1,80	84,1	85,2	85,3	0,72	6,2	3,6	-	41,0	23,7	-
3(.)S4 65-160/2.2	3(.)P4 65-160/2.2	100L	2.2	3	IE3	2,58	83,2	86,2	86,7	0,63	10,2	5,9	-	73,6	42,5	-
3(.)S4 65-200/2.2R	3(.)P4 65-200/2.2R		2.2	3	IE3	2,58	83,2	86,2	86,7	0,63	10,2	5,9	-	73,6	42,5	-
3(.)S4 65-200/2.2	3(.)P4 65-200/2.2		2.2	3	IE3	2,58	83,2	86,2	86,7	0,63	10,2	5,9	-	73,6	42,5	-
3(.)S4 65-200/3	3(.)P4 65-200/3		3	4	IE3	3,44	85,1	87,1	87,7	0,73	11,8	6,8	-	95,4	55,1	-
3LS4 65-250/4	3LP4 65-250/4	112M	4	5.5	IE3	4,54	87,2	88,3	88,6	0,80	14,2	8,2	-	120,7	69,7	-
3LS4 65-250/5.5	3LP4 65-250/5.5	132S	5.5	7.5	IE3	6,17	89,8	90,2	89,6	0,84	-	10,6	6,1	-	92,2	53,2
3LS4 80-160/1.5	3LP4 80-160/1.5	90L	1.5	2	IE3	1,80	84,1	85,2	85,3	0,72	6,2	3,6	-	41,0	23,7	-
3LS4 80-160/2.2R	3LP4 80-160/2.2R	100L	2.2	3	IE3	2,58	83,2	86,2	86,7	0,63	10,2	5,9	-	73,6	42,5	-
3LS4 80-160/2.2	3LP4 80-160/2.2		2.2	3	IE3	2,58	83,2	86,2	86,7	0,63	10,2	5,9	-	73,6	42,5	-
3LS4 80-200/3	3LP4 80-200/3		3	4	IE3	3,44	85,1	87,1	87,7	0,73	11,8	6,8	-	95,4	55,1	-
3LS4 80-200/4R	3LP4 80-200/4R	112M	4	5.5	IE3	4,54	87,2	88,3	88,6	0,80	14,2	8,2	-	120,7	69,7	-
3LS4 80-200/4	3LP4 80-200/4		4	5.5	IE3	4,54	87,2	88,3	88,6	0,80	14,2	8,2	-	120,7	69,7	-
3LS4 80-250/5.5R	3LP4 80-250/5.5R	132S	5.5	7.5	IE3	6,17	89,8	90,2	89,6	0,84	-	10,6	6,1	-	92,2	53,2
3LS4 80-250/5.5	3LP4 80-250/5.5		5.5	7.5	IE3	6,17	89,8	90,2	89,6	0,84	-	10,6	6,1	-	92,2	53,2
3LS4 80-250/7.5	3LP4 80-250/7.5	132M	7.5	10	IE3	8,27	89,8	90,9	90,4	0,78	-	15,3	8,8	-	125,5	72,4

NOISE DATA 3(.)M4

Pump type	Power [kW]	Power [HP]	LpA - dB(A) *
3(.)M4 32-125/0.25	0.25	0.33	<70
3(.)M4 32-160/0.37R	0.37	0.5	
3(.)M4 32-160/0.37	0.37	0.5	
3(.)M4 32-200/0.55R	0.55	0.75	
3(.)M4 32-200/0.55	0.55	0.75	
3(.)M4 32-200/0.75	0.75	1	
3(.)M4 40-125/0.37R	0.37	0.5	
3(.)M4 40-125/0.37	0.37	0.5	
3(.)M4 40-160/0.55R	0.55	0.75	
3(.)M4 40-160/0.55	0.55	0.75	
3(.)M4 40-200/1.1R	1.1	1.5	
3(.)M4 40-200/1.1	1.1	1.5	
3(.)M4 40-200/1.5	1.5	2	
3(.)M4 50-125/0.55R	0.55	0.75	
3(.)M4 50-125/0.55	0.55	0.75	
3(.)M4 50-160/1.1R	1.1	1.5	
3(.)M4 50-160/1.1	1.1	1.5	
3(.)M4 50-200/1.5R	1.5	2	
3(.)M4 50-200/1.5	1.5	2	
3(.)M4 50-200/2.2	2.2	3	
3(.)M4 65-125/0.55	0.55	0.75	
3(.)M4 65-125/0.75	0.75	1	
3(.)M4 65-125/1.1	1.1	1.5	
3(.)M4 65-160/1.1	1.1	1.5	
3(.)M4 65-160/1.5	1.5	2	
3(.)M4 65-160/2.2	2.2	3	
3(.)M4 65-200/2.2R	2.2	3	
3(.)M4 65-200/2.2	2.2	3	
3(.)M4 65-200/3	3	4	
3LM4 65-250/4	4	5.5	
3LM4 65-250/5.5	5.5	7.5	71
3LM4 80-160/1.5	1.5	2	<70
3LM4 80-160/2.2R	2.2	3	
3LM4 80-160/2.2	2.2	3	
3LM4 80-200/3	3	4	
3LM4 80-200/4R	4	5.5	
3LM4 80-200/4	4	5.5	
3LM4 80-250/5.5R	5.5	7.5	71
3LM4 80-250/5.5	5.5	7.5	
3LM4 80-250/7.5	7.5	10	<70**

*Mean value of several measures at 1m distance around the pump.
Tolerance ± 2.5 dB.
** Sound pressure level of motor pumps with AEG

NOISE DATA 3(.)S4-3(.)P4

Pump type		Power		LpA - dB(A) *
3(.)S4	3(.)P4	[kW]	[HP]	
3(.)S4 32-125/0.25	3(.)P4 32-125/0.25	0.25	0.33	<70
3(.)S4 32-160/0.37R	3(.)P4 32-160/0.37R	0.37	0.5	
3(.)S4 32-160/0.37	3(.)P4 32-160/0.37	0.37	0.5	
3(.)S4 32-200/0.55R	3(.)P4 32-200/0.55R	0.55	0.75	
3(.)S4 32-200/0.55	3(.)P4 32-200/0.55	0.55	0.75	
3(.)S4 32-200/0.75	3(.)P4 32-200/0.75	0.75	1	
3(.)S4 40-125/0.37R	3(.)P4 40-125/0.37R	0.37	0.5	
3(.)S4 40-125/0.37	3(.)P4 40-125/0.37	0.37	0.5	
3(.)S4 40-160/0.55R	3(.)P4 40-160/0.55R	0.55	0.75	
3(.)S4 40-160/0.55	3(.)P4 40-160/0.55	0.55	0.75	
3(.)S4 40-200/1.1R	3(.)P4 40-200/1.1R	1.1	1.5	
3(.)S4 40-200/1.1	3(.)P4 40-200/1.1	1.1	1.5	
3(.)S4 40-200/1.5	3(.)P4 40-200/1.5	1.5	2	
3(.)S4 50-125/0.55R	3(.)P4 50-125/0.55R	0.55	0.75	
3(.)S4 50-125/0.55	3(.)P4 50-125/0.55	0.55	0.75	
3(.)S4 50-160/1.1R	3(.)P4 50-160/1.1R	1.1	1.5	
3(.)S4 50-160/1.1	3(.)P4 50-160/1.1	1.1	1.5	
3(.)S4 50-200/1.5R	3(.)P4 50-200/1.5R	1.5	2	
3(.)S4 50-200/1.5	3(.)P4 50-200/1.5	1.5	2	
3(.)S4 50-200/2.2	3(.)P4 50-200/2.2	2.2	3	
3(.)S4 65-125/0.55	3(.)P4 65-125/0.55	0.55	0.75	
3(.)S4 65-125/0.75	3(.)P4 65-125/0.75	0.75	1	
3(.)S4 65-125/1.1	3(.)P4 65-125/1.1	1.1	1.5	
3(.)S4 65-160/1.1	3(.)P4 65-160/1.1	1.1	1.5	
3(.)S4 65-160/1.5	3(.)P4 65-160/1.5	1.5	2	
3(.)S4 65-160/2.2	3(.)P4 65-160/2.2	2.2	3	
3(.)S4 65-200/2.2R	3(.)P4 65-200/2.2R	2.2	3	
3(.)S4 65-200/2.2	3(.)P4 65-200/2.2	2.2	3	
3(.)S4 65-200/3	3(.)P4 65-200/3	3	4	
3LS4 65-250/4	3LP4 65-250/4	4	5.5	
3LS4 65-250/5.5	3LP4 65-250/5.5	5.5	7.5	
3LS4 80-160/1.5	3LP4 80-160/1.5	1.5	2	
3LS4 80-160/2.2R	3LP4 80-160/2.2R	2.2	3	
3LS4 80-160/2.2	3LP4 80-160/2.2	2.2	3	
3LS4 80-200/3	3LP4 80-200/3	3	4	
3LS4 80-200/4R	3LP4 80-200/4R	4	5.5	
3LS4 80-200/4	3LP4 80-200/4	4	5.5	
3LS4 80-250/5.5R	3LP4 80-250/5.5R	5.5	7.5	
3LS4 80-250/5.5	3LP4 80-250/5.5	5.5	7.5	
3LS4 80-250/7.5	3LP4 80-250/7.5	7.5	10	

*Mean value of several measures at 1m distance around the pump.
Tolerance ± 2.5 dB.
Sound pressure level of motor pumps with AEG

The contents of this publication must not be considered binding.
EBARA Pumps Europe S.p.A. reserves the right to make any modifications considered necessary without prior notice.

09/26

EBARA Pumps Europe S.p.A.
Via Torri di Confine 2/1 int. C
36053 Gambellara (Vicenza), Italy
Phone +39 0444 706811
ebarapumps.epe@ebara.com
www.ebaraeurope.com

EBARA Pumps Europe S.p.A. UK
Unit A, Park 34
Collett Way - Didcot
Oxfordshire - OX11 7WB, United Kingdom
Phone +44 1895 439027
marketing.epuk@ebara.com

EBARA POMPY POLSKA Sp. z o.o.
ul. Działkowa 115 A
02-234 Warszawa, Poland
Phone +48 22 3909920
marketing.epl@ebara.com

EBARA Pumps Europe S.p.A. GERMANY
Elisabeth-Selbert-Straße 2
63110 Rodgau, Germany
Phone +49 (0) 6106-660 99-0
info.epde@ebara.com

EBARA Pumps Europe S.p.A. FRANCE
122, Rue Pasteur
69780 Toussieu, France
Phone: +33 04 72 76 94 82
mktg.efr@ebara.com

EBARA Pumps Europe Nordic
Gustav III Boulevard 34,
169 73 Solna, Sweden
info.epen@ebara.com

EBARA Pumps South Africa (PTY) LTD
26 Kyalami Boulevard,
Kyalami Business Park, 1684, Midrand,
Gauteng, South Africa
Phone +27 11 466 1844
ebara.epsa@ebara.com

EBARA Pumps East Africa
Sunflag Industrial Park, Unit 5, Mombasa Road,
P.O BOX 18851-00100, Nairobi, Kenya
Tel. +254709491900
info.epea@ebara.com
www.ebaraeurope.co.ke

EBARA West Africa Limited
ewasales.epe@ebara.com