

EBARA

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PUMP SPECIFICATIONS

50 Hz

PUMP						
Version		ONLY FOR 65 VERSION		FOR ALL MODELS		
		3BM4		3M4	3LM4	
		3BS4		3S4	3LS4	
		3BP4		3P4	3LP4	
Liquid Handled	Type of liquid		Clean water and moderately aggressive fluids			
	Temperature [° C]		min. -10 max. +90 max. +110 (H-HS version)		min. -10 max. +110	
Maximum working pressure [MPa]		1				
Construction	Impeller		Closed centrifugal type [for 32,40,50 series] Reinforced laser welding [for types 40-200/11, 50-200/15] Closed centrifugal three dimensional blades [for 65 version]			
	Shaft seal type		Mechanical seal		Mechanical seal with stationary ring secured against rotation	
	Bearing		Sealed ball bearing			
Pipe Connection	Suction-Flange		Flange to DIN 2532 (50mm – 65mm - 80mm)			
	Discharge-Flange		Flange to DIN 2532 (32mm – 40mm – 50mm - 65mm)			
Material	Casing		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	Impeller	For all models (no 65 version)	/	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	
		Only for 65 Version	Bronze	EN 1.4401 (AISI 316) Made by precision casting		
	Casing cover		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	Mechanical seal		Ceramic/Carbon/NBR (3BM4-3BS4-3BP4/3M4-3S4-3P4) Ceramic/Carbon/FPM (3BM4H-3BS4H-3BP4H/3M4H-3S4H-3P4H) SiC/SiC/FPM (3BM4HS-3BS4HS-3BP4HS/3M4HS-3S4HS-3P4HS)		SiC/SiC/FPM	
	"O" ring		NBR		FPM	
	Shaft		EN 1.4301 (AISI 304) (Part in contact with liquid)		EN 1.4404 (AISI 316L) (Part in contact with liquid)	
	Bracket		Cast iron-Aluminium			
Applicable standard of test		ISO 9906 Annex A				

MOTOR SPECIFICATIONS

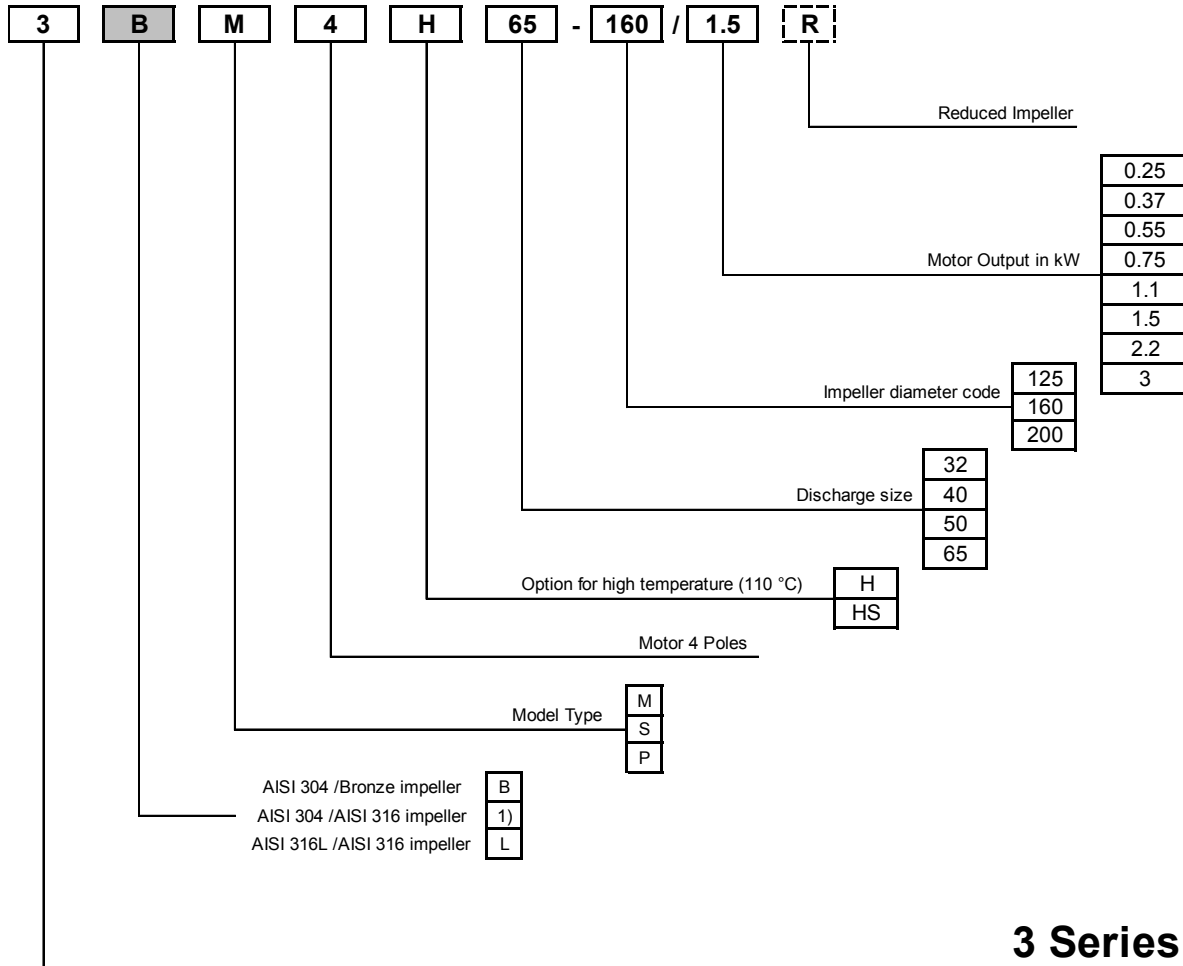
50 Hz

Motor			
Version	3BM4	3BS4	3BP4
	3M4	3S4	3P4
	3LM4	3LS4	3LP4
Type	Electric - TEFC		
	Three Phase		
No. of Poles	4		
Rotation speed [min ⁻¹]	≈1400		
Insulation Class	F		
Protection degree	IP 55		
Power Rating	[kW]	0.25÷3.0	
	[HP]	0.33 ÷ 4.0	
Frequency [Hz]	50		
Voltage [V]	230/400 ±10% (4.0 kW)		
Capacitor	-		
Over load protection	Provided by the user		
Casing material	Aluminium		
Dimensions of cable entry	PG 11 - PG 13.5 - PG 16 (see dimensions on page 400 and following)		
Flange mount (IEC motor)	/	IM B5 (up to 1.5kW) IM B35 (2.2 kW÷3kW)	IM B3

SELECTION CHART

50 Hz

TYPE KEY:



1) no indication for AISI 304/AISI 316 Impeller

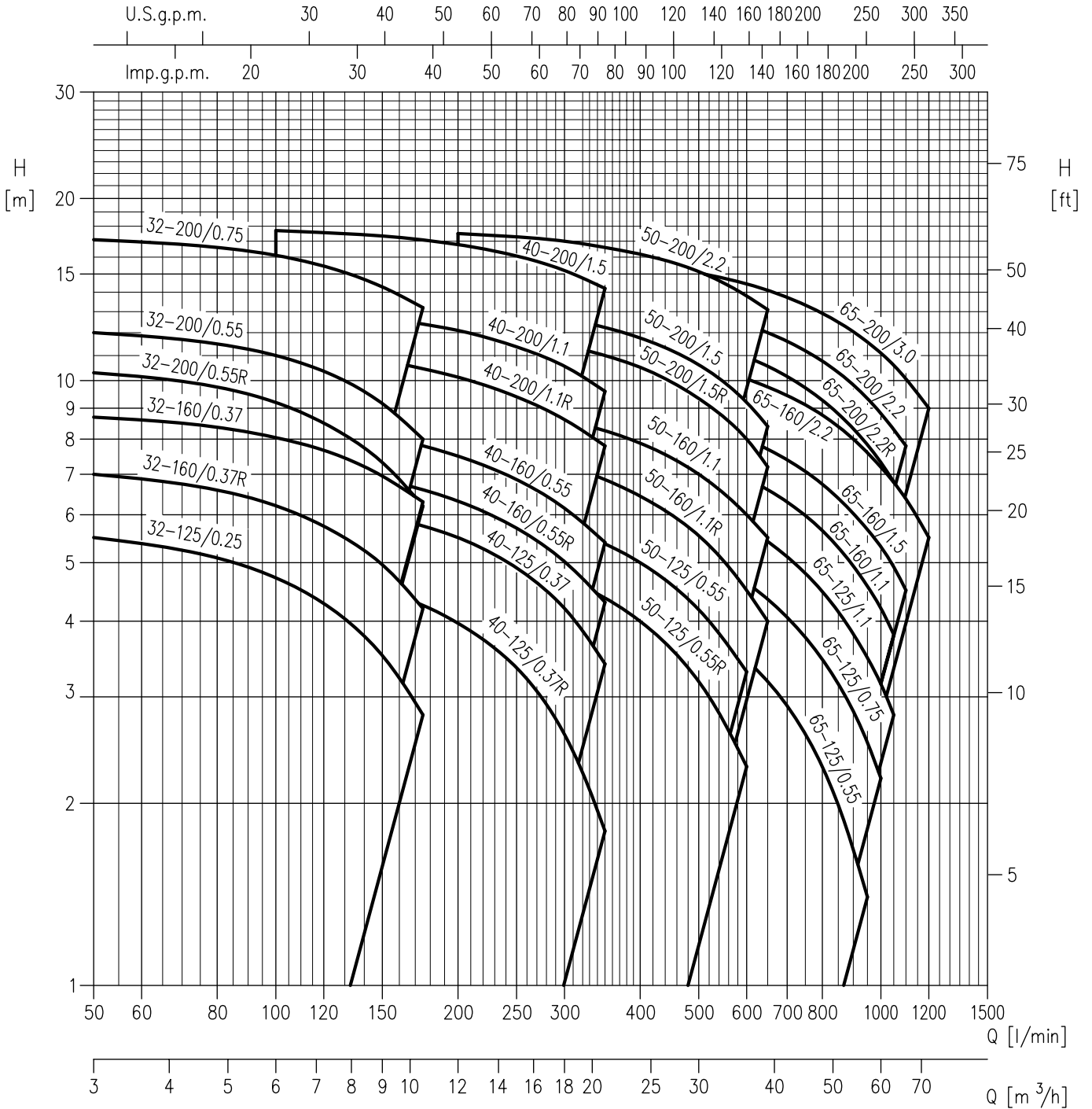
PERFORMANCE CURVES

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

- ◆ Tolerances according to ISO 9906 Annex A
- ◆ The curves refer to effective speed of asynchronous motors at 50 Hz
- ◆ Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)
- ◆ The NPSH curve is an average curve obtained in the same conditions of performance curves. During the pump selection, consider to get a safety margin of at least 0.5 m.
- ◆ 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

SELECTION CHART

50 Hz



SELECTION CHART

50 Hz

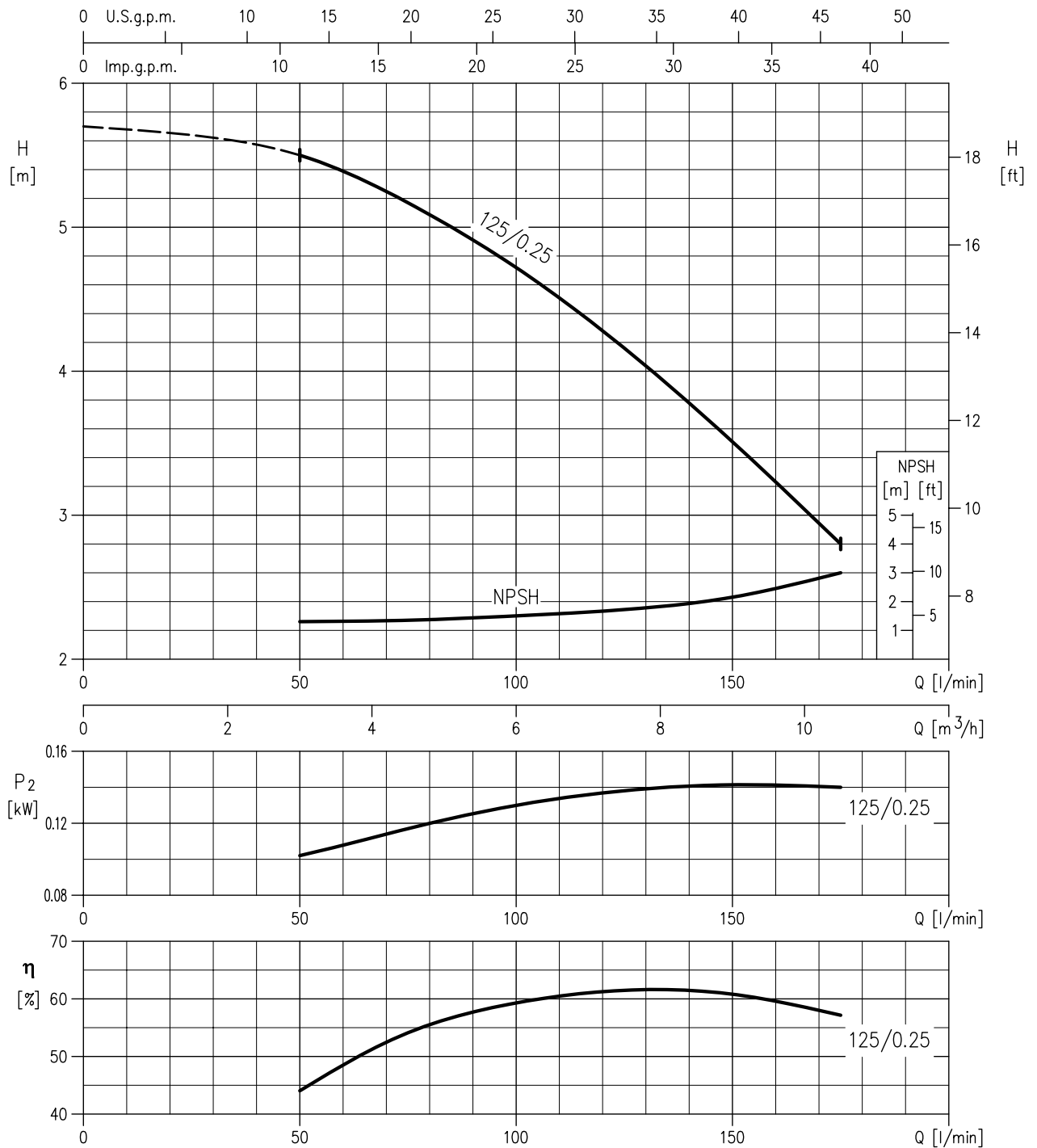
Pump type	kW	HP	Q=Capacity									
			l/min m ³ /h	50 3	100 6	160 9.6	200 12	250 15	300 18	350 21	400 24	500 30
H=Total manometric head in meters												
32-125/0.25	0.25	0.33	5.6	4.9	3.3	-	-	-	-	-	-	-
32-160/0.37R	0.37	0.5	7.2	6.3	4.5	-	-	-	-	-	-	-
32-160/0.37	0.37	0.5	8.7	8	6.7	-	-	-	-	-	-	-
32-200/0.55R	0.55	0.75	10.5	9.3	7	-	-	-	-	-	-	-
32-200/0.55	0.55	0.75	12	11	9.2	-	-	-	-	-	-	-
32-200/0.75	0.75	1	17.3	16.5	14.6	-	-	-	-	-	-	-
40-125/0.37R	0.37	0.5	-	4.5	4	3.6	3	2.3	1.5	-	-	-
40-125/0.37	0.37	0.5	-	6.2	5.7	5.2	4.6	3.8	3	-	-	-
40-160/0.55R	0.55	0.75	-	7.2	6.7	6.3	5.7	5	4.3	-	-	-
40-160/0.55	0.55	0.75	-	8.5	7.9	7.5	6.9	6.2	5.4	-	-	-
40-200/1.1R	1.1	1.5	-	11	10.5	10.1	9.6	9	8.3	-	-	-
40-200/1.1	1.1	1.5	-	12.7	12.3	11.9	11.2	10.4	9.4	-	-	-
40-200/1.5	1.5	2	-	17.8	17.4	16.9	16.2	15.3	14.2	-	-	-
50-125/0.55R	0.55	0.75	-	-	-	4.9	4.7	4.4	4.2	3.8	3	2
50-125/0.55	0.55	0.75	-	-	-	5.8	5.6	5.4	5.2	4.9	4.1	3.2
50-160/1.1R	1.1	1.5	-	-	-	7.7	7.5	7.2	6.9	6.5	5.6	4.5
50-160/1.1	1.1	1.5	-	-	-	9	8.8	8.5	8.2	7.8	6.9	5.8
50-200/1.5R	1.5	2	-	-	-	12.1	11.8	11.5	11.1	10.6	9.5	8
50-200/1.5	1.5	2	-	-	-	13	12.7	12.3	11.9	11.5	10.5	9.1
50-200/2.2	2.2	3	-	-	-	17.7	17.5	17.2	16.8	16.4	15.4	14

Pump type	kW	HP	Q=Capacity											
			l/min m ³ /h	0 0	300 18	350 21	500 30	650 39	800 48	950 57	1000 60	1050 63	1100 66	1200 72
H=Total manometric head in meters														
65-125/0.55	0.55	0.75	5.3	4.8	4.6	3.95	3.18	2.3	1.4	-	-	-	-	
65-125/0.75	0.75	1	6.4	6	5.8	5.2	4.4	3.5	2.5	2.2	-	-	-	
65-125/1.1	1.1	1.5	7.7	7.2	7	6.3	5.4	4.5	3.5	3.2	2.8	-	-	
65-160/1.1R			7.7	-	7.2	6.5	5.7	4.8	3.7	3.3	-	-	-	-
65-160/1.1	1.5	2	8.6	-	8.1	7.4	6.6	5.7	4.6	4.2	3.8	-	-	
65-160/1.5			9.7	-	9.2	8.5	7.7	6.7	5.7	5.3	4.9	4.5	-	-
65-160/2.2			11.8	-	11.3	10.6	9.8	8.8	7.6	7.2	6.8	6.4	5.5	-
65-200/2.2R	2.2	3	13	-	12.4	11.6	10.6	9.3	7.8	7.3	6.8	-	-	
65-200/2.2			14.5	-	13.9	13	12	10.8	9.3	8.8	8.3	7.8	-	-

PERFORMANCE CURVE

4 Poles 50Hz

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

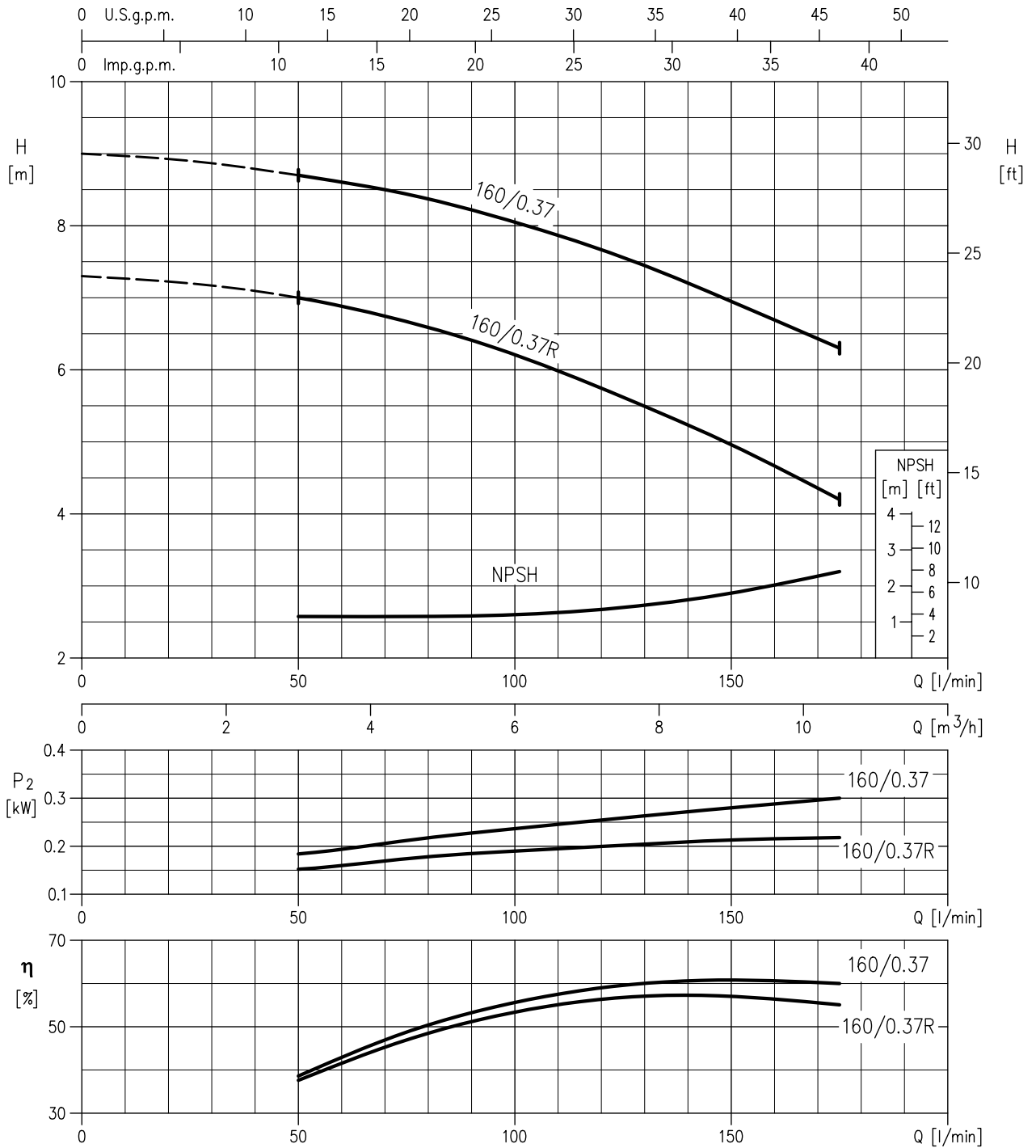


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

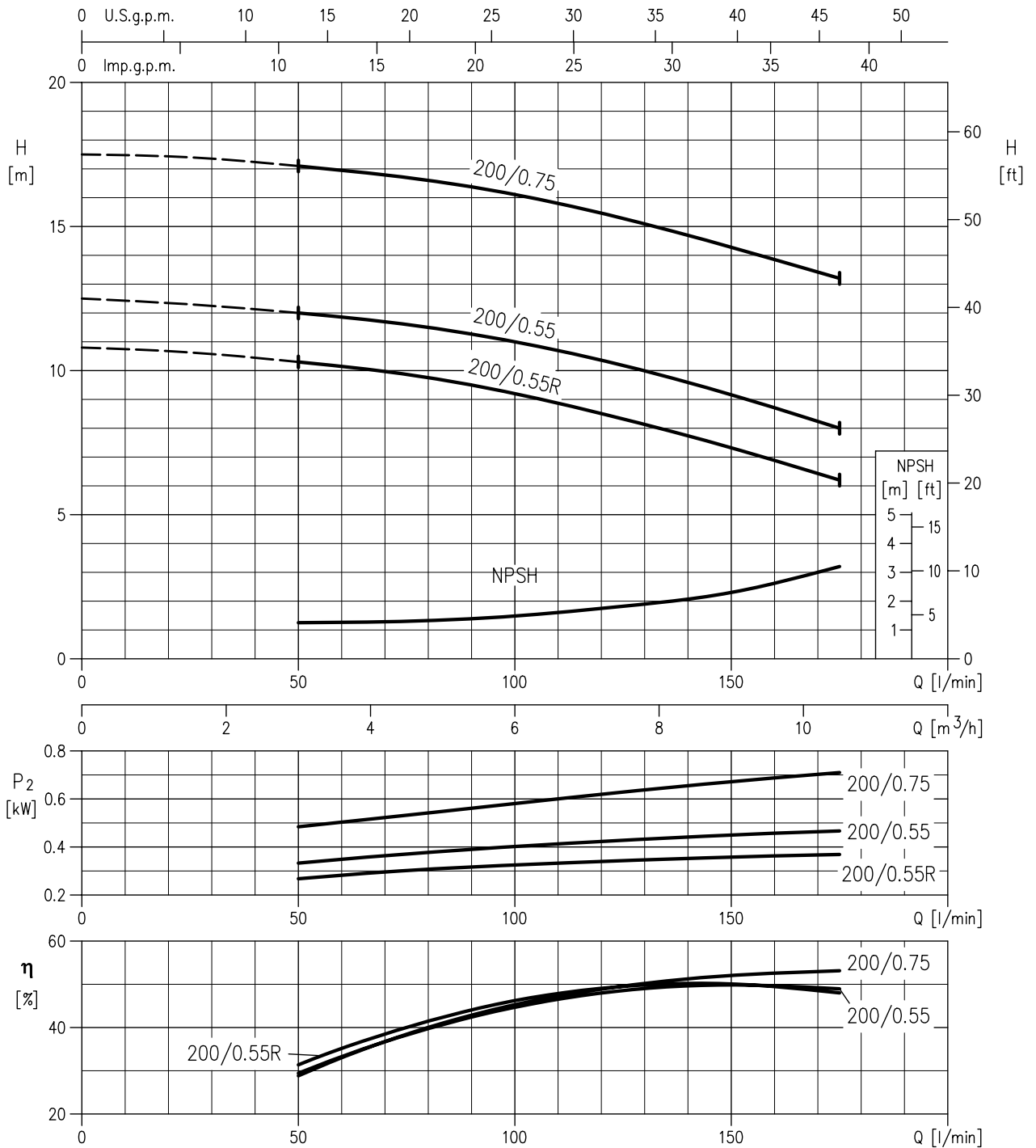


Rotation speed: ≈1400 min⁻¹
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

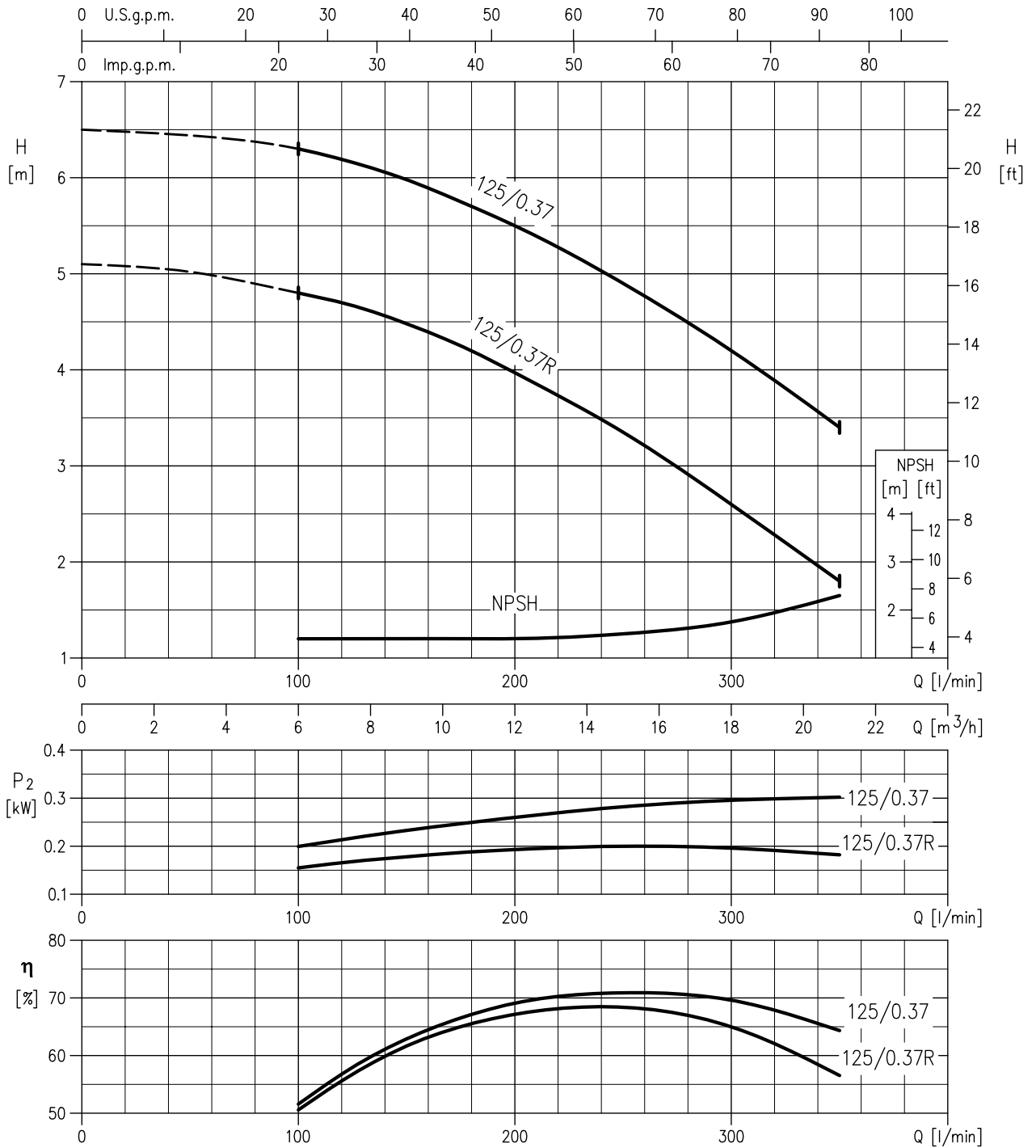


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

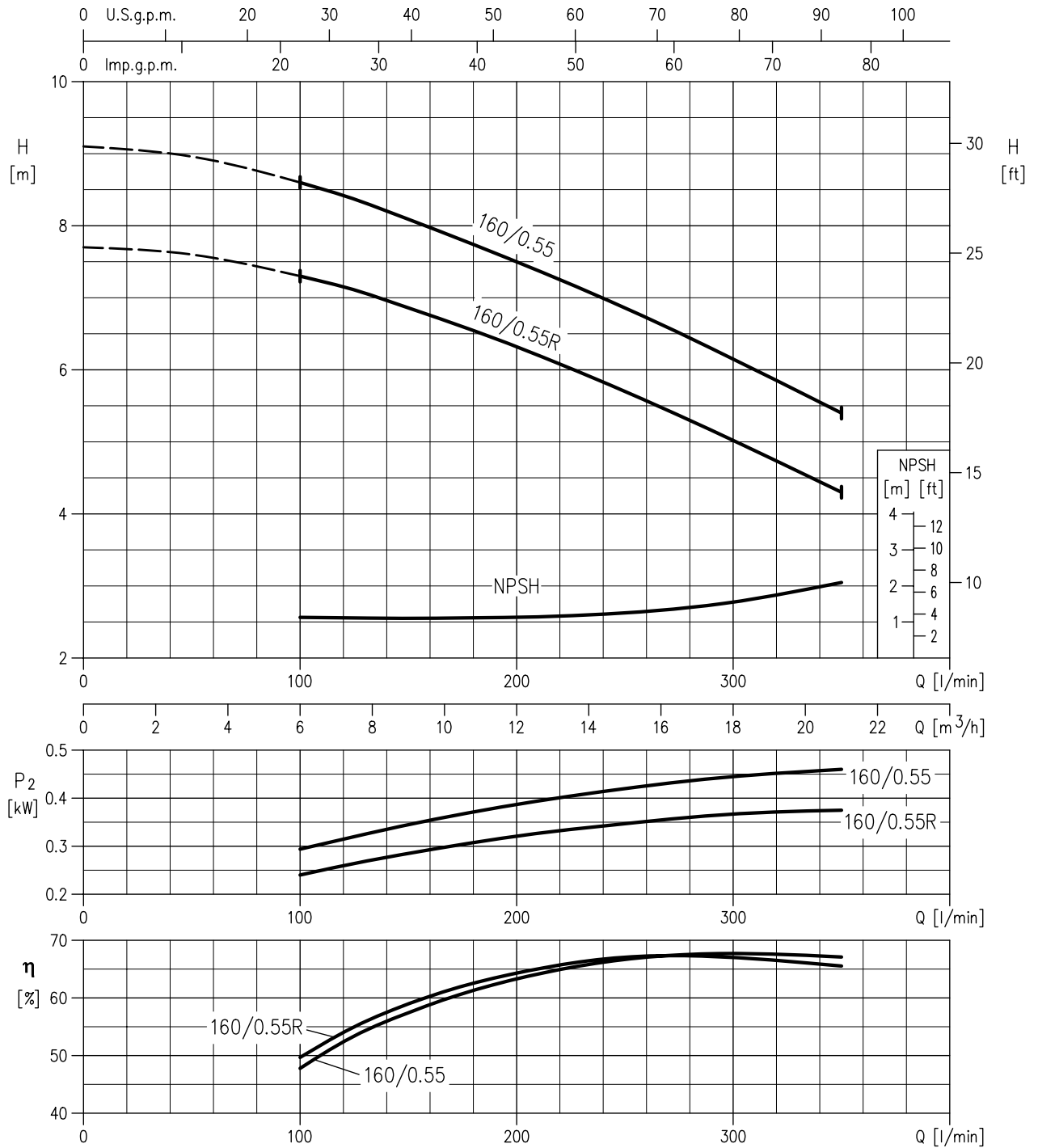


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

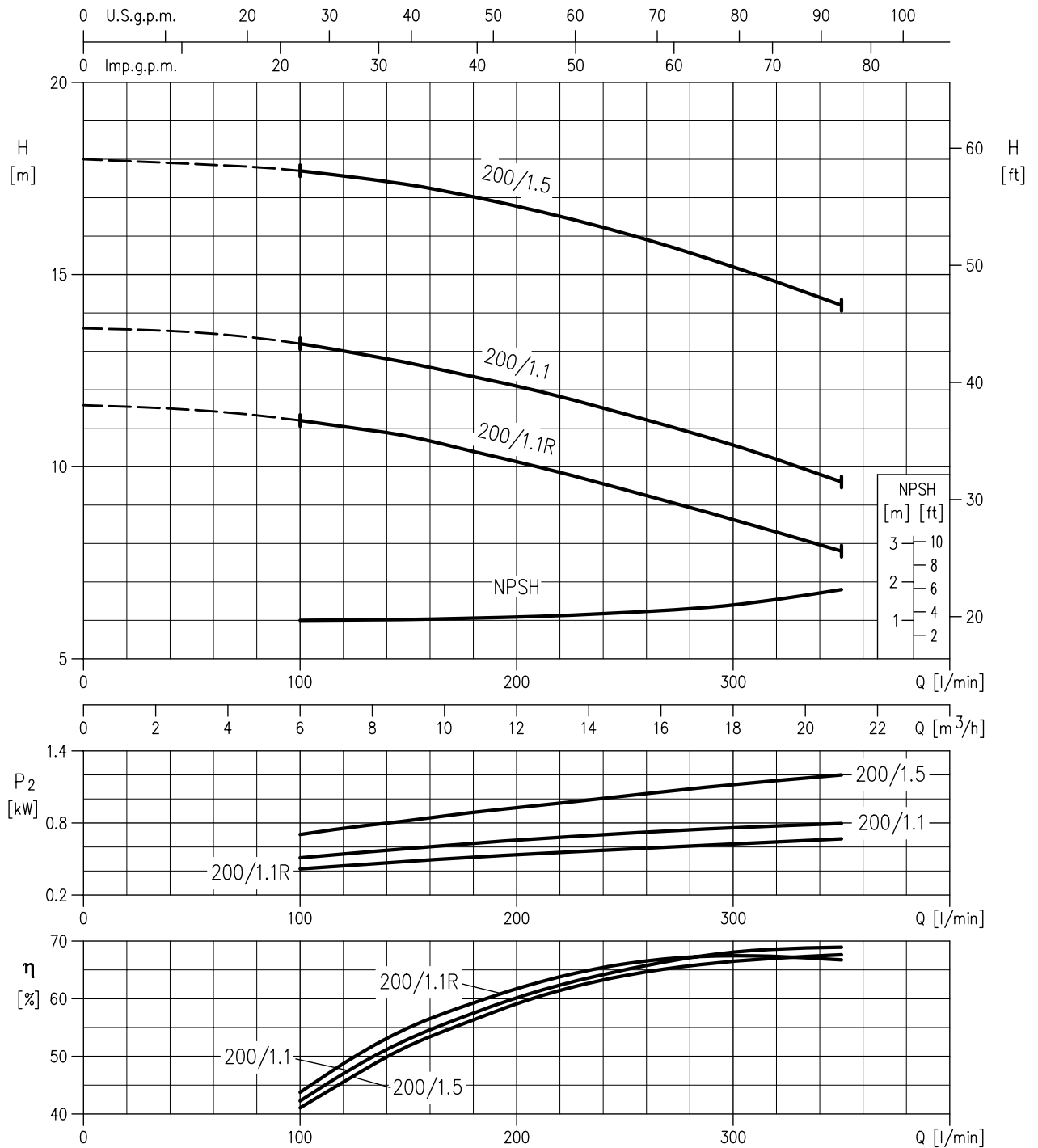


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

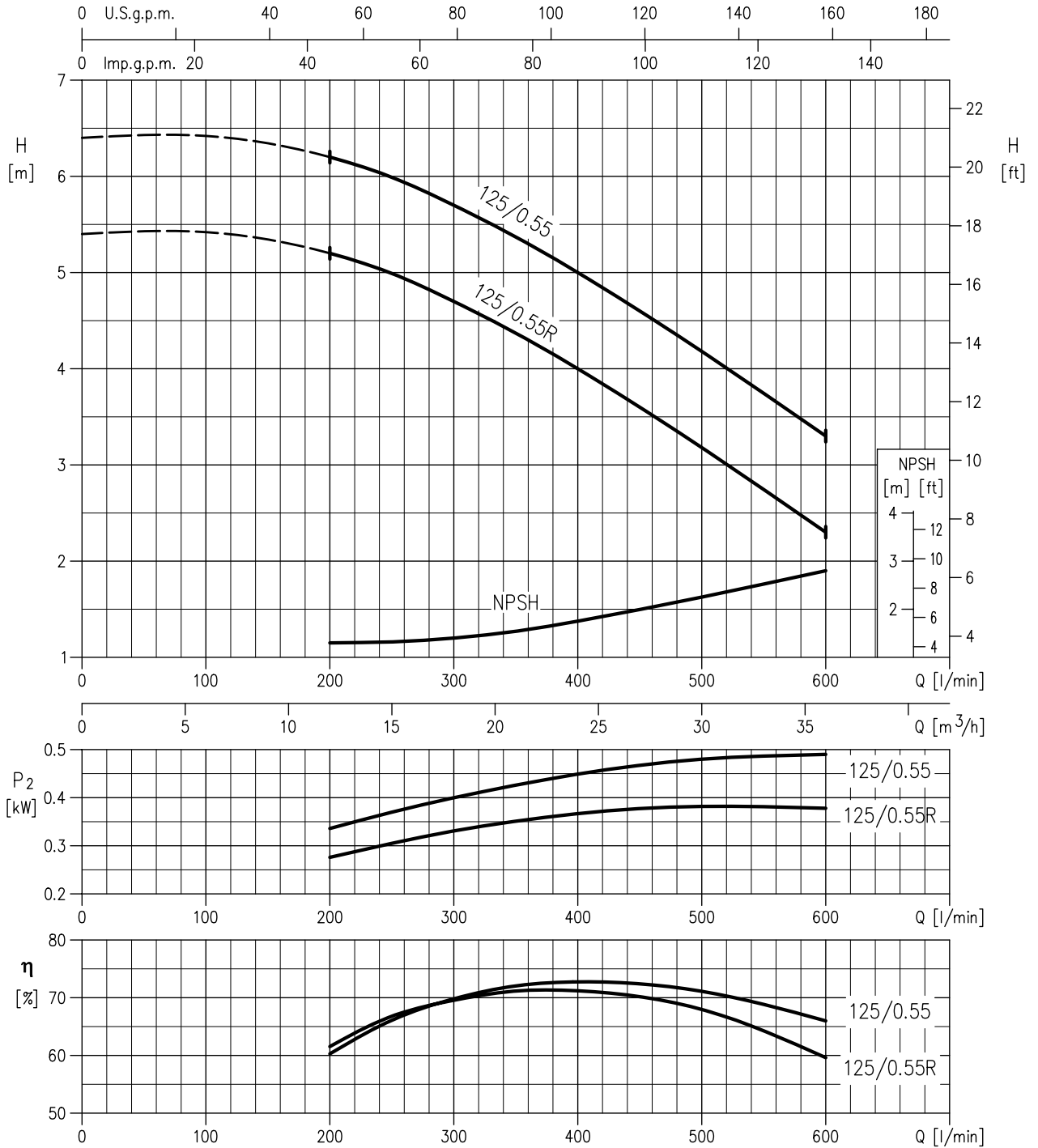


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

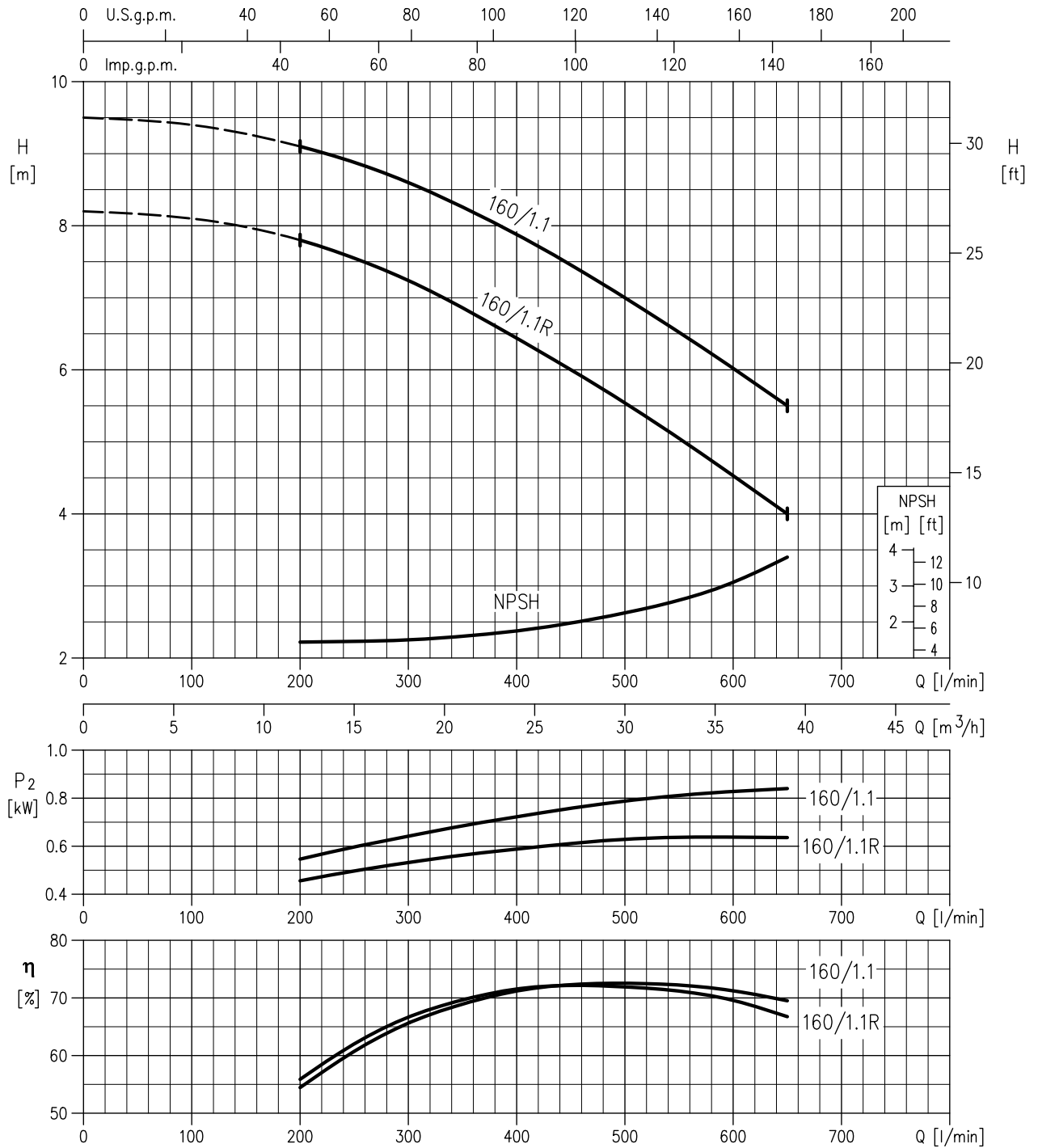


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

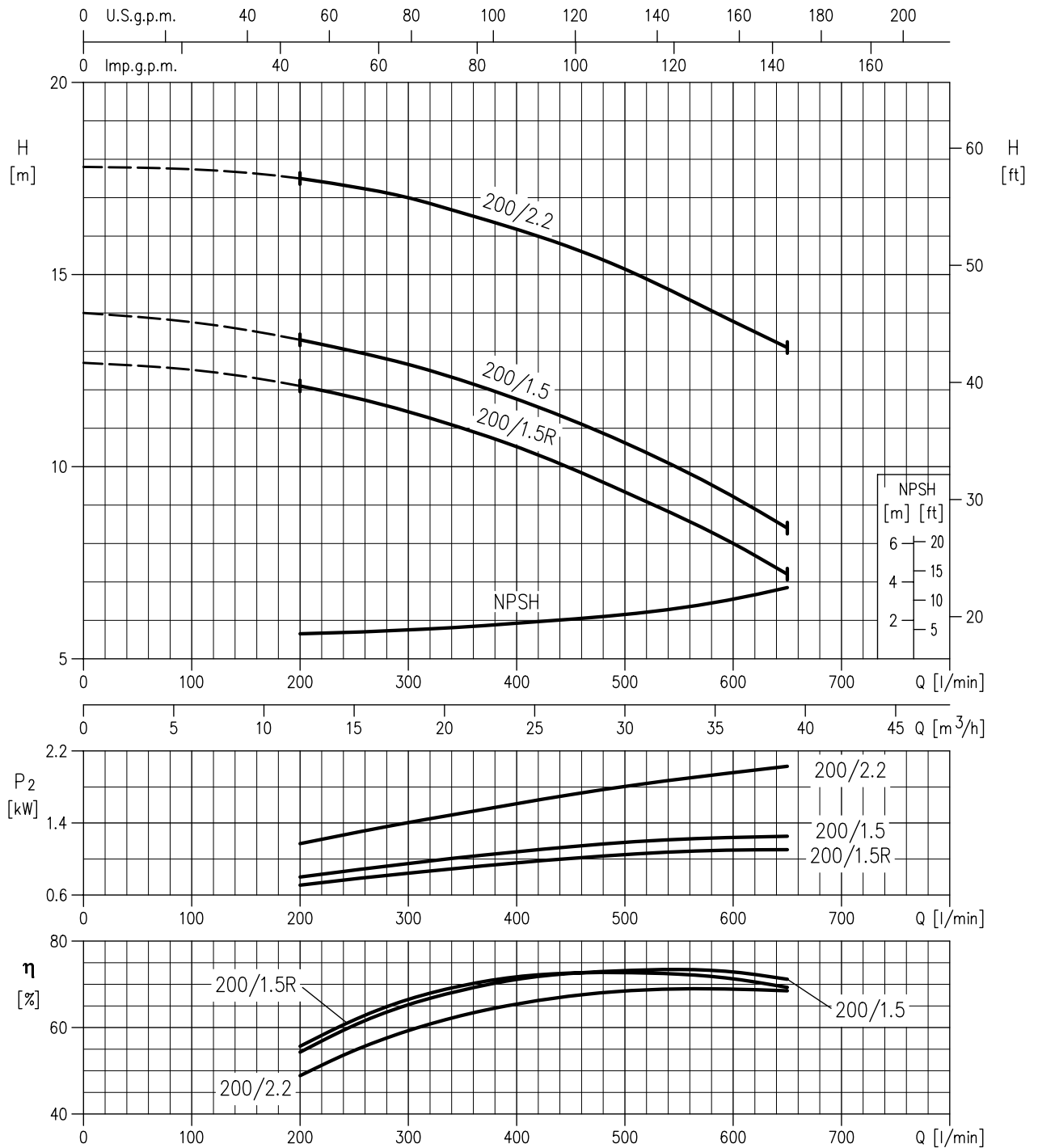


Rotation speed: ≈1400 min⁻¹
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

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

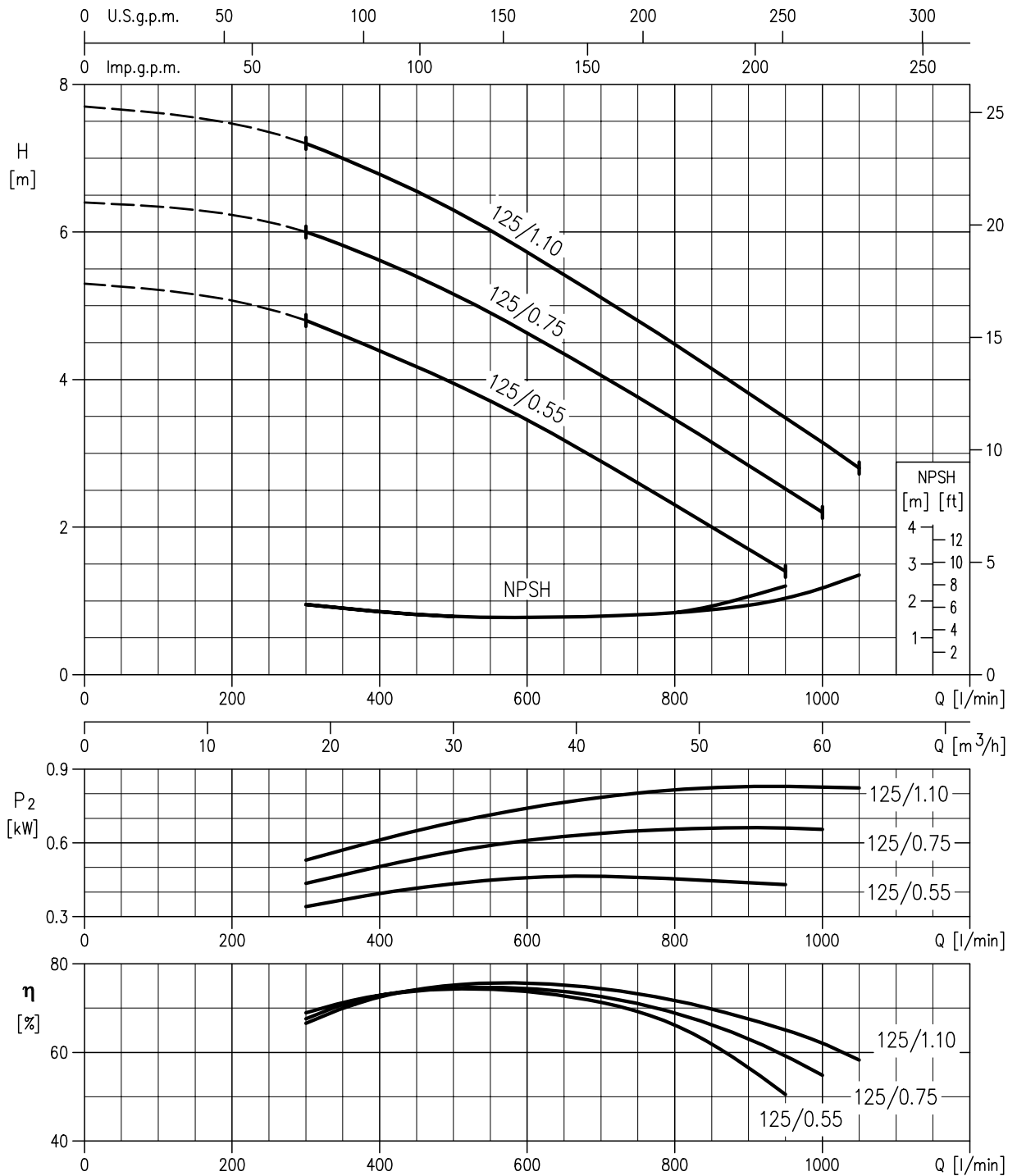


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

65-125/0.55 (0.55 kW) – Impeller diameter = 128 mm
65-125/0.75 (0.75 kW) – Impeller diameter = 138 mm
65-125/1.10 (1.10 kW) – Impeller diameter = 149 mm

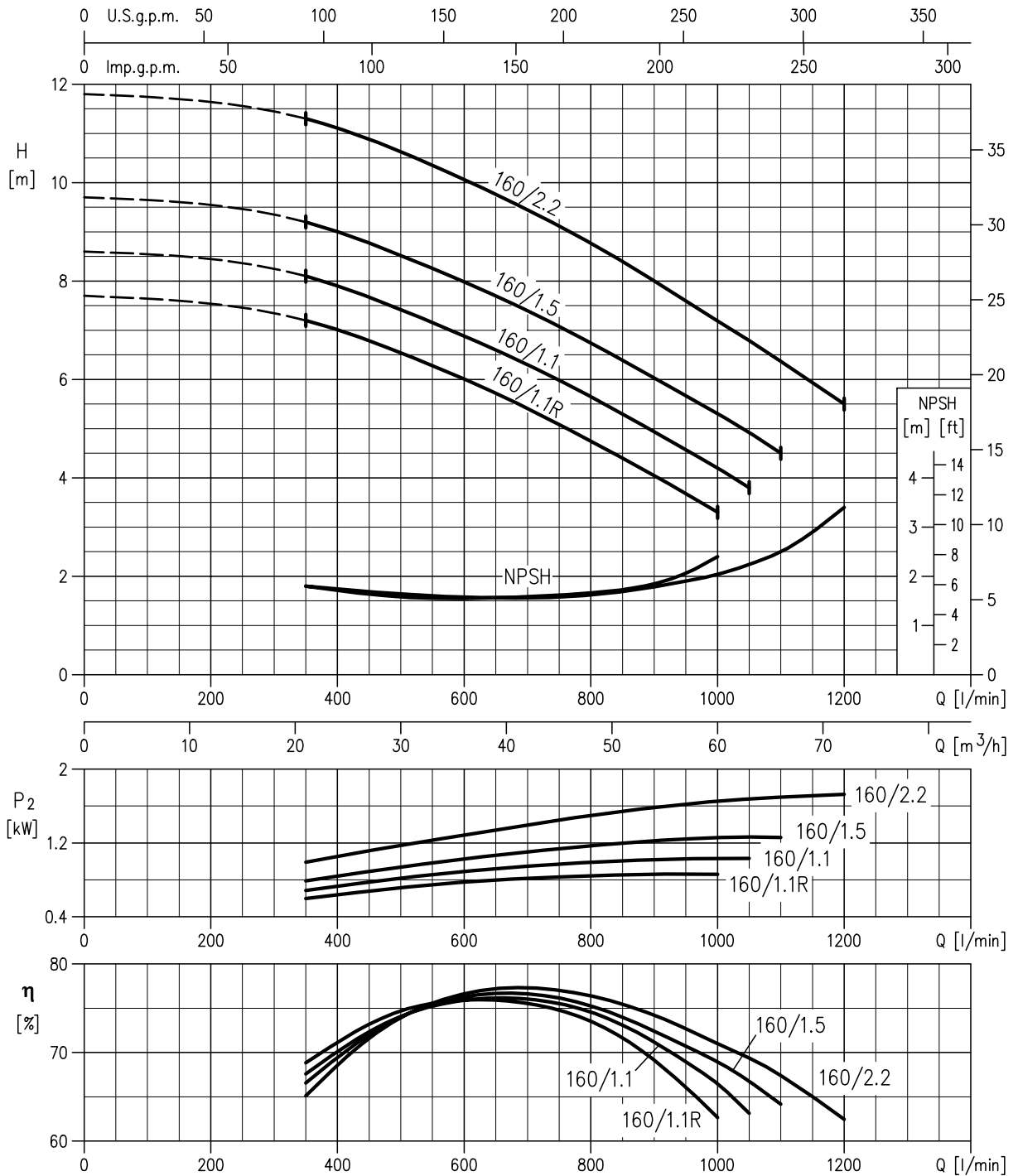


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

4 Poles 50Hz

65-160/1.1R (1.1 kW) – Impeller diameter = 153 mm
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

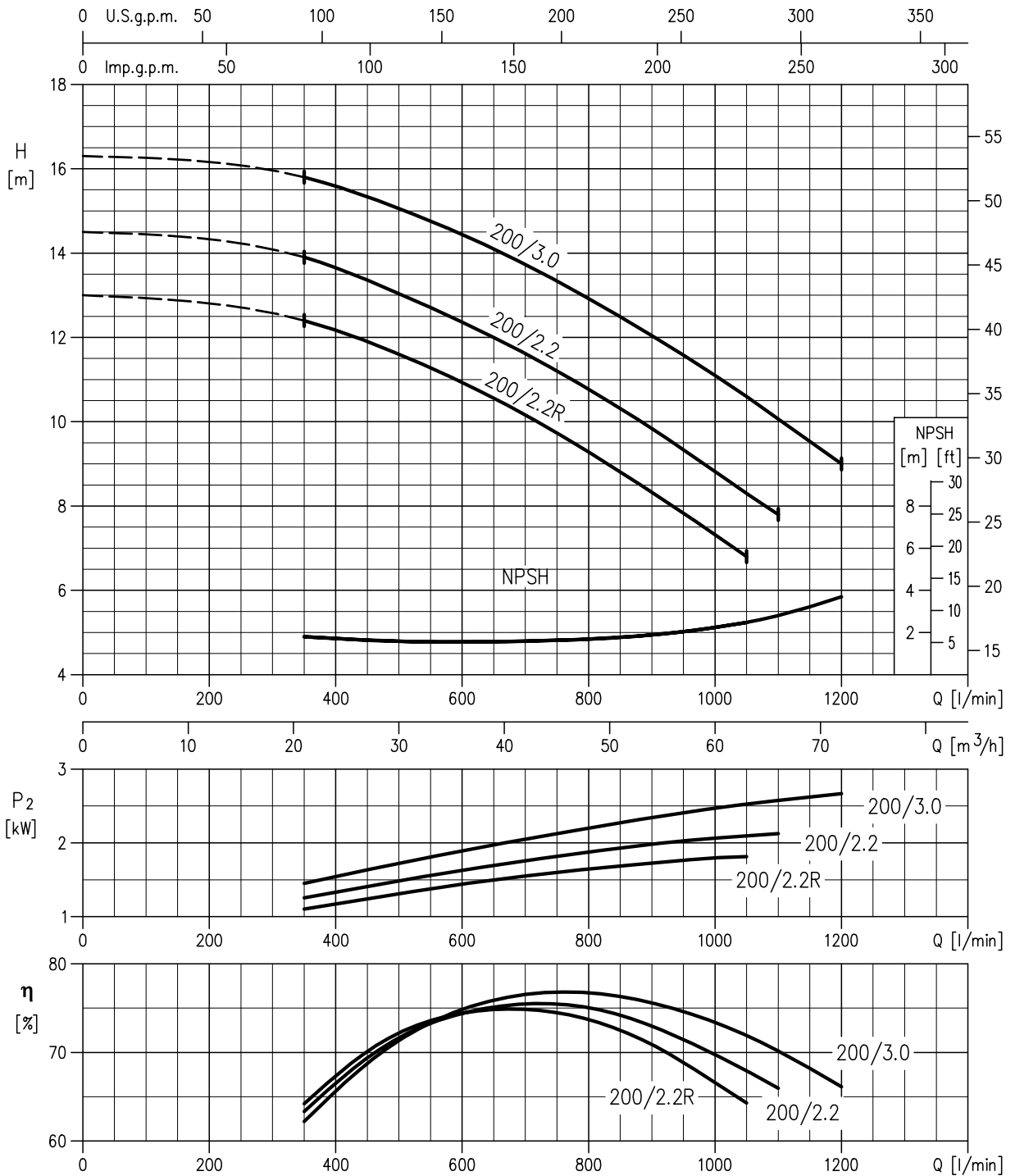


Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

PERFORMANCE CURVE

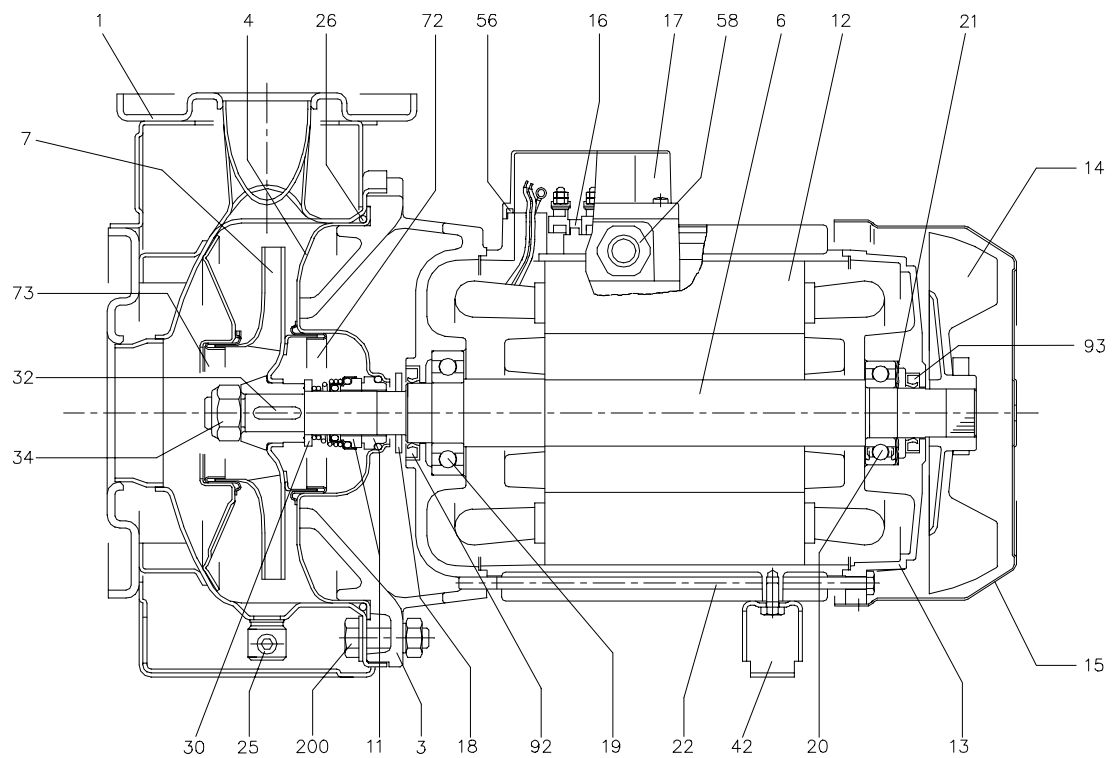
4 Poles 50Hz

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



Rotation speed: $\approx 1400 \text{ min}^{-1}$
 Applicable standard of test: ISO 9906 - Annex A

SECTIONAL VIEW



N°	PART NAME			DIMENSIONS	STANDARD	N. FOR 1 UNIT	
		3M4	3LM4				
001	Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
003	Motor bracket	Cast iron EN-GJL-200-EN 1561				1	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
006	Shaft with rotor	EN 1.4301(AISI 304)	EN 1.4404(AISI 316L)			1	
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404(AISI 316L)			1	
011	Mechanical seal [1] - [2]	Carbon / Ceramic / NBR	SIC /SiC / FPM	(see pag.310+312)		1	
012	Motor frame with stator	-				1	
013	Motor cover	Aluminium				1	
014	Fan	Polyamide				1	
015	Fan cover	Galvanized Fe P04				1	
016	Terminal	-				1	
017	Terminal box cover	Aluminium (three phase version)				1	
018	Splash ring	NBR	-	40x21.5x3	EBARA drawing	1	
019	Bearing	-		See table pag.309		1	
020	Bearing	-		See table pag.309		1	
021	Adjusting ring	Steel C70				1	
022	Tie rod	Galvanized Fe 42		M5	EBARA drawing	4	
025	Draining plug	EN 1.4401 (AISI 316)/PTFE		R 1/8" L=8	DIN 906	1	
026	"O" ring	32-125, 40-125	NBR	FPM	158,11x5,34	OR 6625	1
		32-160, 40-160, 50-125			189,86x5,34	OR 6745	
		32-200, 40-200, 50-160, 50-200			227,96x5,34	OR 6895	
030	Spacer (No for HS version)	EN 1.4301 (AISI 304)	-	22.5x26.9x2.5	EBARA drawing	1	
032	Key	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1	
034	Impeller nut	other models	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1,5	UNI 7474	1
		3M 50-200/2.2			M18X1,5	UNI 7474	
042	Foot	Aluminium / carbon steel			EBARA drawing	1	
056	Box gasket	NBR				1	
058	Fasting nut	-				1	
72	Casing ring [3]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)				
73	Casing ring [3]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)				
092	Lip seal	other models	-	-	25X40X7	DIN 3760 without spring	1
		50-200/2.2			30X47X7		
093	Lip seal	32-125, 40-125	-	-	15X30X5	DIN 3760 without spring	1
		other models			17X32X7		
		all models with motor 0.75 kW and higher			25X40X7		
200	Screw	32-125, 40-125	Stainless steel A2-70 class ISO 3506/1	-	M 8x30	UNI 5739	[4]
		other models			M 10x35	UNI 5739	

[1] FPM for 3M4H –3M4HS version

[2] See constructions mechanical seal pages 303, 304

[3] For version 32-200/0.55R - 32-200/0.55 - 32-200/0.75 - 40-200/1.1R - 40-200/1.1 - 40-200/1.5
50-160/1.1R - 50-160/1.1 - 50-200/1.5R - 50-200/1.5 - 50-200/2.2

[4] No. for unit: 8 for 32-125 – 40-125
10 for 32-160 – 40-160 – 50-125
12 for 32-200 – 40-200 – 50-160 – 50-200

CONSTRUCTIONS 3BM4-3M4-3LM4 (65 version) 50 Hz

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	N. FOR 1 UNIT	
		3BM4	3M4	3LM4				
001	Casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)			1	
003	Motor bracket	Cast iron EN-GJL-200-EN 1561					1	
004	Casing cover	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)			1	
006	Shaft with rotor	EN 1.4301(AISI 304)-Part in contact with liquid		EN 1.4404(AISI 316) -Part in contact with liquid			1	
007	Impeller	Bronze	EN 1.4401 (AISI 316)				1	
011	Mechanical seal	Carbon / Ceramic / NBR		SiC /SiC / FPM	(see pag.310+312)		1	
012	Motor frame with stator	-					1	
013	Motor cover	Aluminium					1	
014	Fan	Polyamide					1	
015	Fan cover	Fe P04 Zinc-coated					1	
016	Terminal	-					1	
017	Terminal box cover	Aluminium					1	
018	Splash ring	NBR		/	40x21.5x3	EBARA drawing	[A]	
019	Bearing	-			See table pag.309		1	
020	Bearing	-			See table pag.309		1	
021	Adjusting ring	Steel C70					1	
022	Tie rod	Fe 42 Zinc-coated				EBARA drawing	4	
025	Draing plug	EN 1.4401 (AISI 316) / PTFE			R 1/8" L=8	DIN 906	1	
026	"O" ring	3(..)M4 65-125	NBR	NBR FPM (version H and HS)	FPM		1	
		3(..)M4 65-160 and 3(..)M4 65-200						
030	Spacer (Not for HS version)	EN 1.4301 (AISI 304)		/	22.5x26.9x2.5	EBARA drawing	[A]	
032	Key	EN 1.4401 (AISI 316)			6x6x25	UNI 6604	1	
034	Impeller nut	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1	
042	Foot	Aluminium / Zinc-coated steel				EBARA drawing	1	
056	Box gasket	NBR					1	
058	Fasting nut	-					1	
085*	Counter-flange kit	Flange	Zinc-coated steel	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table pag.316	EBARA drawing	2
		Screw for flange	Zn. Steel 8.8 strenght class ISO 898/1 or A2-70 class ISO 3506-1	Stainless Steel A2-70 class ISO 3506/1		M16x55	UNI 5737	8-4
		Gasket	EPDM	EPDM FPM for H HS version	FPM	See table pag.316		2
092	Lip seal	Up to 1.5 kW	-			17x32x7	DIN 3760 without spring	1
		For 2.2 and 3.0 kW				25x40x7		
093	Lip seal	For 0.55 kW	-			17x32x7	DIN 3760 without spring	1
		From 0.75 to 3.0 kW				25x40x7		
200	Screw	Stainless steel A2-70 class ISO 3506/1			M 10x35	UNI 5739	[B]	

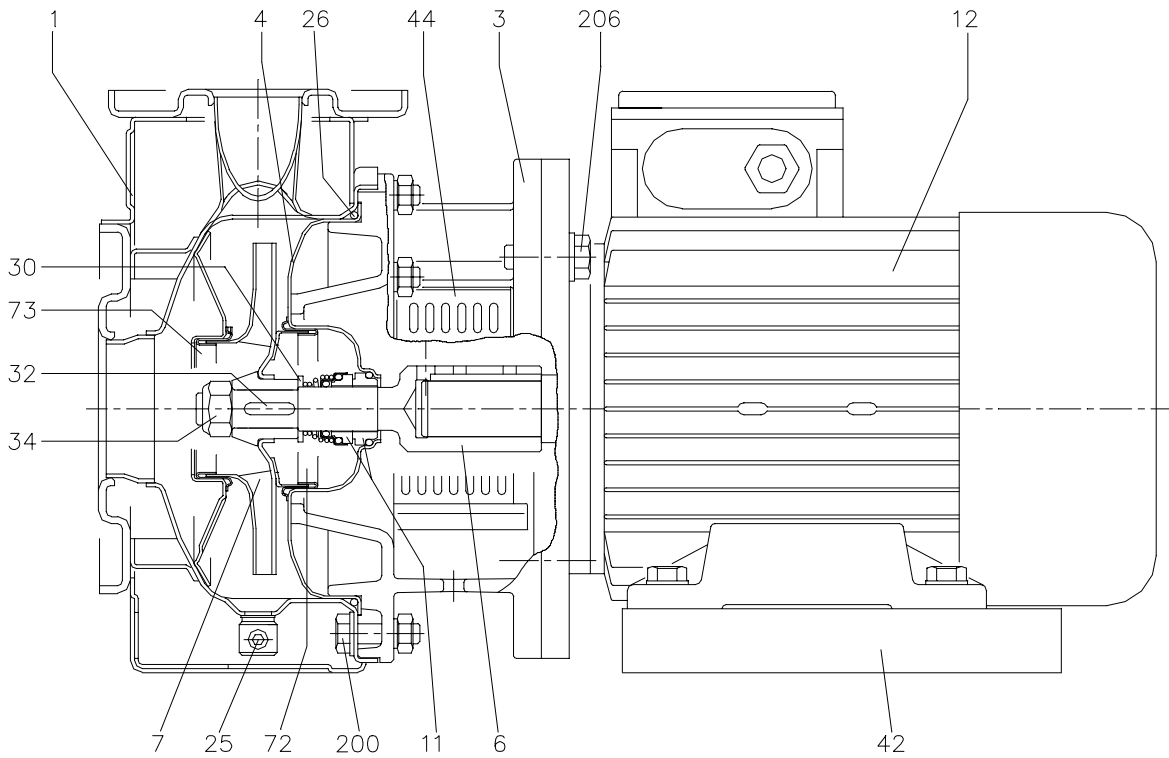
[A] Not for 3LM4 version

*On request

[B] No. for 1 unit=10 for version 65-125

No. for 1 unit=12 for version 65-160 – 65-200

SECTIONAL VIEW



N°	PART NAME		3S4		DIMENSIONS	STANDARD	N. FOR 1 UNIT
			3S4	3LS4			
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Coupling		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table p.314		1
007	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
011	Mechanical seal [1] -[2]		Carbon / Ceramic / NBR	SiC / SiC / FPM	See pag 310+312		1
012	Motor		-				1
025	Draining plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring [1]	32-125, 40-125	NBR	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125			189.86x5.34	OR 6745	
		32-200, 40-200,50-160, 50-200			227.96x5.34	OR 6895	
030	Spacer		EN 1.4301 (AISI 304)	/	22.5x26.9x2.5	EBARA DRAWING	1
032	Key		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
034	Impeller nut	All other models	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	M16x1.5	UNI 7474	1
		50-200			M18X1,5		
042	Foot		Aluminium			EBARA DRAWING	1
044	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	1
072	Casing ring [3]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
200	Screw	32-125, 40-125	Stainless steel A2-70 class ISO 3506/1		M 8x30	UNI 5739	8-12
		other models			M 10x35		
206	Screw for bracket	Up to 0.37 kW	Zn. Steel 8.8 strenght class ISO 898/1		M 8x20	UNI 5739	4
		from 0.55 to 1.5 kW			M 10x25		
		from 2.2 to 4 kW			M 12x30		

[1] FPM for 3S4H-3S4HS version

[2] See constructions mechanical seal pages 303, 304

[3] For version 32-200/0.55R – 32-200/0.55 – 32-200/0.75 – 40-200/1.1R – 40-200/1.1 – 40-200/1.5
50-160/1.1R – 50-160/1.1 – 50-200/1.5R – 50-200/1.5 – 50-200/2.2

N°	PART NAME	MATERIAL			DIMENSIONS	STANDARD	N. FOR 1 UNIT	
		3BS4	3S4	3LS4				
001	Casing	EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		1	
003	Motor bracket	Cast iron EN-GJL-200-EN 1561					1	
004	Casing cover	EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		1	
006	Coupling	EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)	See table p.314	1	
007	Impeller	Bronze	EN 1.4401 (AISI 316)				1	
011	Mechanical seal	Carbon / Ceramic / NBR		SiC / SiC / FPM	See pag 310+312		1	
012	Motor	-					1	
025	Draing plug	EN 1.4401 (AISI 316) / PTFE			R 1/8" L=8	DIN 906	1	
026	"O" ring	3(..)S4 65-125	NBR	NBR FPM for H-HS version	FPM	189.86x5.34	OR 6745	1
		3(..)S4 65-160 and 3(..)S4 65-200				227.96x5.34	OR 6895	
030	Spacer (Not for HS version)	EN 1.4301 (AISI 304)			/	22.5x26.9x2.5	EBARA DRAWING	[A]
032	Key	EN 1.4401 (AISI 316)				6x6x25	UNI 6604	1
034	Impeller nut	EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
042	Foot	Aluminium / Zinc-coated steel					EBARA DRAWING	[B]
044	Protection	EN 1.4301 (AISI 304)					EBARA DRAWING	2
085*	Counter-flange kit	Flange	Zinc-coated steel	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table p.316	EBARA DRAWING	2
		Screw for flange	Zn. Steel 8.8 strenght class ISO 898/1	Stainless steel A2-70 class ISO 3506/1		M16x55	UNI 5737	8-4
		Gasket	EPDM	EPDM FPM for H-HS version	FPM	See table p.316		2
200	Screw	Stainless steel A2-70 class ISO 3506/1				M 10x35	UNI 5739	[C]
206	Screw for bracket	Zn. Steel 8.8 strenght class ISO 898/1				M 10x40	UNI 5739	4

*On request

[A] Not for 3LS4 version

[B] N° for 1 unit=1for version

3(..)S4 65-125/0.55, 3(..)S4 65-125/0.75, 3(..)S4 65-125/1.1,

3(..)S4 65-160/1.1, 3(..)S4 65-160/1.5

N° for 1 unit =2 for version

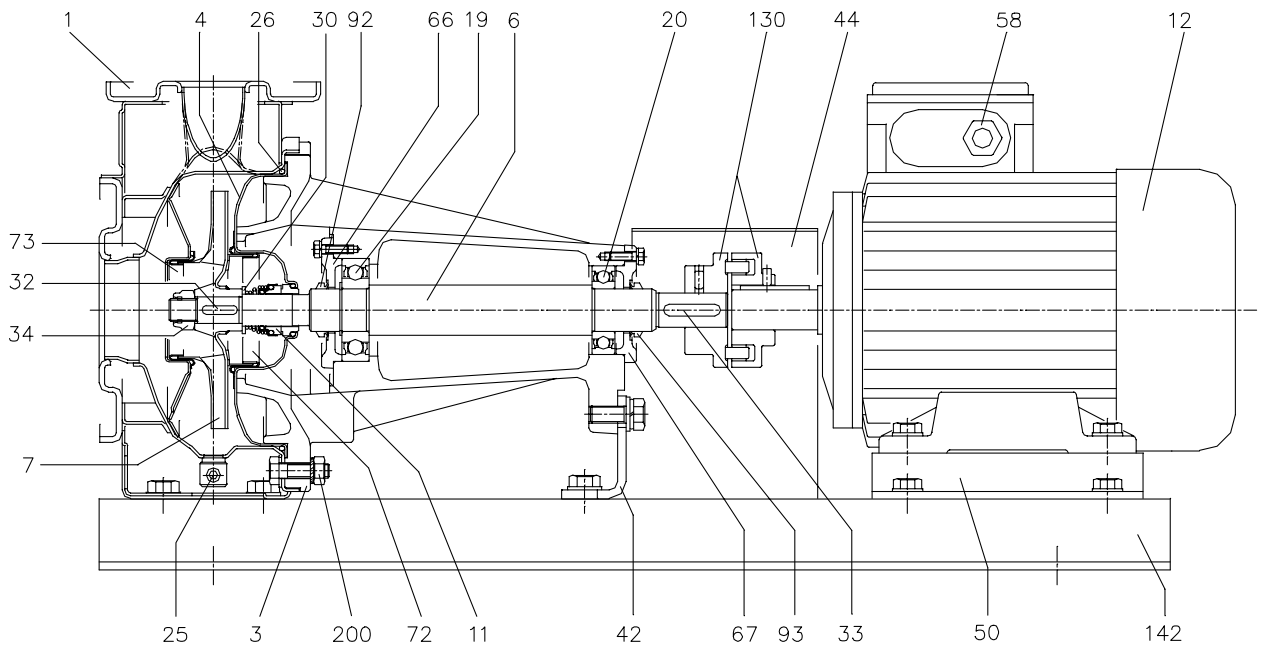
3(..)S4 65-160/2.2,

3(..)S4 65-200/2.2R, 3(..)S4 65-200/2.2, 3(..)S4 65-200/3.0

[C] N° for 1 unit =10 for version 3(..)S4 65-125

N° for 1 unit =12 for version 3(..)S4 65-160 and 3(..)S4 65-200

SECTIONAL VIEW



N°	PART NAME			DIMENSIONS	STANDARD	N. FOR 1 UNIT	
		3P	3LP				
001	Casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
003	Support	Cast iron EN-GJL-200-EN 1561				1	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
006	Shaft	EN 1.4301 (AISI 304) -Part in contact with liquid	EN 1.4404 (AISI 316L) -Part in contact with liquid			1	
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1	
011	Mechanical seal [1] - [2]	Carbon / Ceramic / NBR	SiC / SiC / FPM			1	
012	Motor					1	
019	Bearing			See table p.309		1	
020	Bearing			See table p.309		1	
025	Draining plug	EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1	
026	"O" ring [1]	NBR (FPM for H-HS version)	FPM	32-125, 40-125 32-160, 40-160, 50-125, 65-125	158.1X5.34	OR6625	1
				32-200, 40-200, 50-160, 50-200, 65-160, 65-200	189.86x5.34	OR 6745	
					227.96x5.34	OR 6895	
030	Spacer (Not HS version)	EN 1.4301 (AISI 304)	/	22.5x26.9x2.5	EPE DRAWING	1	
032	Key	EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1	
033	Key	C40		8x7x40	UNI 6604	1	
034	Impeller nut	all other models 50-200	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M 16x1.5	UNI 7474	1
					M 18x1.5		
042	Pump support	Galvanized Fe 37			EPE DRAWING	1	
044	Protection	Galvanized Fe 37				1	
050	Foot	Galvanized Fe 37				1	
58	Fastening nut					1	
066	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561				1	
067	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561				1	
72	Casing ring [3]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)				
73	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)				
092	"V" ring	all other models 50-200			14x20x5.5		1
					18x26x7.5		
093	"V" ring	all other models 50-200			14x20x5.5		1
					18x26x7.5		
130	Flexible coupling	Cast iron EN-GJL-250-EN 1561		See table pag. 315		1	
142	Base	Fe 37 Zinc-coated				1	
200	Screw	Stainless steel A2 70 class ISO 3506/1		M 10x35	UNI 5739	8-12	

[1] FPM for 3P4H –3P4HS Version

[2] See constructions mechanical seal pages 303, 304

[3] For version 32-200/0.55R – 32-200/0.55 – 32-200/0.75 – 40/200 1.1R – 40-200/1.5
50-160/1.1R – 50-160/1.1 – 50-200/1.5R – 50-200/1.5 – 50-200/2.2

N°	PART NAME		MATERIAL			DIMENSIONS	STANDARD	N. FOR 1 UNIT
			3BP4	3P4	3LP4			
001	Casing		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)			1
003	Support		Cast iron EN-GJL-200-EN 1561					1
004	Casing cover		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)			1
006	Shaft		EN 1.4301 (AISI 304) -Part in contact with liquid		EN 1.4404 (AISI 316L) -Part in contact with liquid			1
007	Impeller		Bronze	EN 14401 (AISI 316)				1
011	Mechanical seal		Carbon / Ceramic / NBR		SIC / SIC / FPM	See pag.310+312		1
012	Motor		-					1
019	Bearing		-			See table pag.309		1
020	Bearing		-			See table pag.309		1
025	Draining plug		EN 1.4401 (AISI 316) / PTFE			R 1/8" L=8	DIN 906	1
026	"O" ring	3(..)P 65-125	NBR	NBR	FPM	189.86x5.34	OR 6745	1
		3(..)P 65-160 and 3P 65-200		FPM (version H and HS)		227.96x5.34	OR 6895	
030	Spacer (No HS version up to 11 kW)		EN 1.4301 (AISI 304)		-	22.5x26.9x2.5	EBARA drawing	[A]
032	Key		EN 1.4401 (AISI 316)			6x6x25	UNI 6604	1
033	Key		C 40			8x7x40	UNI 6604	1
034	Impeller nut		EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
042	Pump support		Fe 37 Zinc-coated				EBARA drawing	1
044	Protection		Fe 37 Zinc-coated					1
050	Foot		Zinc-coated steel					1
066	Impeller side bearing cover		Cast iron EN-GJL-200-EN 1561					1
067	Motor side bearing cover		Cast iron EN-GJL-200-EN 1561					1
085*	Counter-flange kit	Flange	Zinc-coated steel	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table pag.316	EBARA drawing	2
		Screw for flange	Zn. Steel 8.8 strength class ISO 898/1	Stainless steel A2-70 class ISO 3506/1		M16x55	UNI 5737	8-4
		Gasket	EPDM	EPDM (FPM for H-HS version)	FPM	See table pag.317		2
092	"V" ring		-			VS-0030		1
093	"V" ring		-			VS-0030		1
130	Flexible coupling		Cast iron EN-GJL-250-EN 1561			See table pag.315		1
142	Base		Fe 37 Zinc-coated					1
200	Screw		Stainless steel A2 70 class ISO 3506/1			M 10x35	UNI 5739	[B]

* On request

[A] Not for 3LP4 Version

[B] N° for 1 unit=10 for version 3(..)P4 65-125

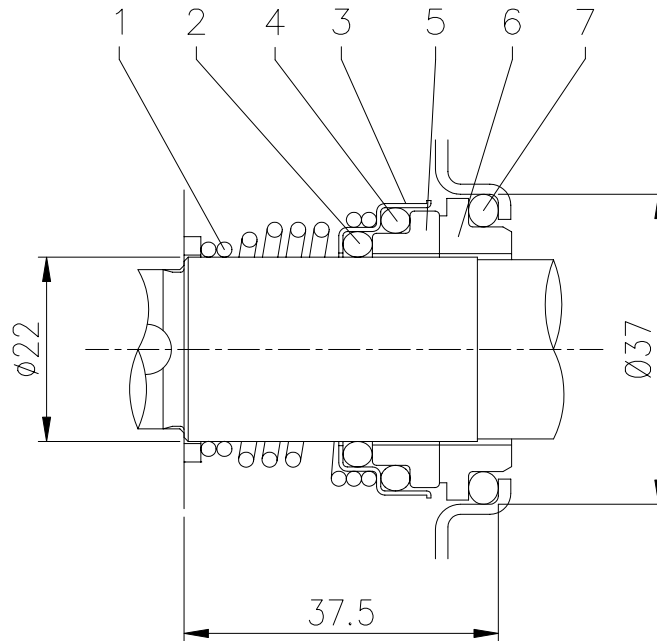
N° for 1 unit =12 for version 3(..)P4 65-160 and 3(..)P4 65-200

CONSTRUCTIONS (bearings)

50Hz

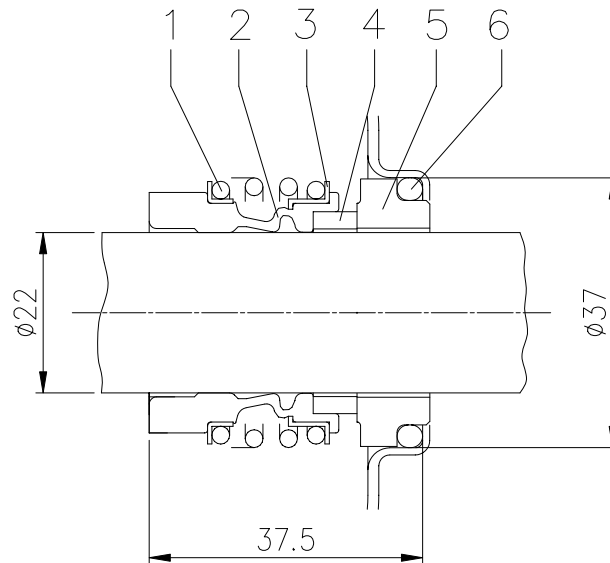
Pump type	Bearing size		Pump type	Bearing size - pump		Pump type	Bearing size - motor	
	Pump side	Fan side		Pump side	Motor side		Pump side	Fan side
3M4 32-125/0.25		6202 ZZ	3M4 32-125/0.25			3P4 32-125/0.25		
3M4 32-160/0.37R			3S4 32-160/0.37R	6203 ZZ	6203 ZZ	3P4 32-160/0.37R	6306 ZZ	6203 ZZ
3M4 32-160/0.37		6203 ZZ	3S4 32-160/0.37			3P4 32-160/0.37		
3M4 32-200/0.55R			3S4 32-200/0.55R			3P4 32-200/0.55R		
3M4 32-200/0.55		6205 ZZ	3S4 32-200/0.55	6204 ZZ	6204 ZZ	3P4 32-200/0.55	6308 ZZ	6204 ZZ
3M4 32-200/0.75			3S4 32-200/0.75			3P4 32-200/0.75		
3M4 40-125/0.37R		6202 ZZ	3S4 40-125/0.37R	6203 ZZ	6203 ZZ	3P4 40-125/0.37R	6306 ZZ	6203 ZZ
3M4 40-125/0.37			3S4 40-125/0.37			3P4 40-125/0.37		
3M4 40-160/0.55R			3S4 40-160/0.55R			3P4 40-160/0.55R		
3M4 40-160/0.55		6203 ZZ	3S4 40-160/0.55	6204 ZZ	6204 ZZ	3P4 40-160/0.55	6306 ZZ	6204 ZZ
3M4 40-200/1.1R			3S4 40-200/1.1R			3P4 40-200/1.1R		
3M4 40-200/1.1		6205 ZZ	3S4 40-200/1.1	6205 ZZ	6205 ZZ	3P4 40-200/1.1	6308 ZZ	6205 ZZ
3M4 40-200/1.5			3S4 40-200/1.5			3P4 40-200/1.5		
3M4 50-125/0.55R			3S4 50-125/0.55R			3P4 50-125/0.55R		
3M4 50-125/0.55		6203 ZZ	3S4 50-125/0.55	6204 ZZ	6204 ZZ	3P4 50-125/0.55	6306 ZZ	6204 ZZ
3M4 50-160/1.1R			3S4 50-160/1.1R			3P4 50-160/1.1R		
3M4 50-160/1.1			3S4 50-160/1.1			3P4 50-160/1.1		
3M4 50-200/1.5R		6205 ZZ	3S4 50-200/1.5R	6205 ZZ	6205 ZZ	3P4 50-200/1.5R	6308 ZZ	6205 ZZ
3M4 50-200/1.5			3S4 50-200/1.5			3P4 50-200/1.5		
3M4 50-200/2.2			3S4 50-200/2.2			3P4 50-200/2.2		
3M4 65-125/0.55		6203 ZZ	3S4 65-125/0.55	6206 ZZ	6206 ZZ	3P4 65-125/0.55	6206 ZZ	6205 ZZ
3M4 65-125/0.75			3S4 65-125/0.75			3P4 65-125/0.75		
3M4 65-125/1.1			3S4 65-125/1.1			3P4 65-125/1.1		
3M4 65-160/1.1			3S4 65-160/1.1			3P4 65-160/1.1		
3M4 65-160/1.5		6205 ZZ	3S4 65-160/1.5	6205 ZZ	6205 ZZ	3P4 65-160/1.5	6306 ZZ	6205 ZZ
3M4 65-160/2.2			3S4 65-160/2.2			3P4 65-160/2.2		
3M4 65-200/2.2R			3S4 65-200/2.2R			3P4 65-200/2.2R		
3M4 65-200/2.2		6206 ZZ	3S4 65-200/2.2	6206 ZZ	6206 ZZ	3P4 65-200/2.2	6206 ZZ	6206 ZZ
3M4 65-200/3.0			3S4 65-200/3.0			3P4 65-200/3.0		

MECHANICAL SEAL



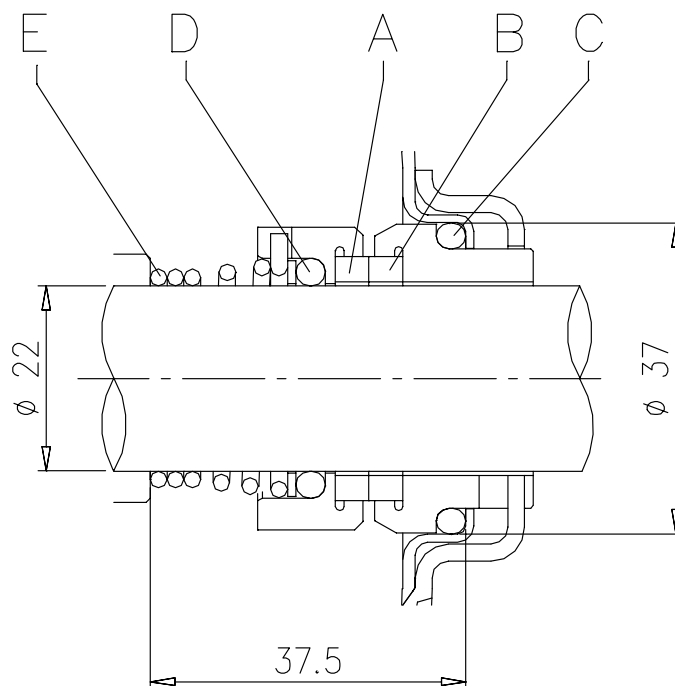
MANUFACTURER REFERENCE	MANUFACTURER	ROTEN	
	DESCRIPTION	UNITEN 3 X6H62V6	UNITEN 3 XYHY2VY
	PUMP VERSION	STANDARD	H VERSION
	DIMENSIONS	$\varnothing 22$	$\varnothing 22$
MATERIAL	1 Self driving spring	EN 1.4401(AISI 316)	EN 1.4401(AISI 316)
	2 O Ring	NBR	FPM
	3 Frame	EN 1.4301(AISI 304)	EN 1.4301(AISI 304)
	4 O Ring	NBR	FPM
	5 Rotary seal ring	ceramic	ceramic
	6 Stationary seal ring	carbon graphite	carbon graphite
	7 O Ring	NBR	FPM

**MECHANICAL SEAL (HS version)
Ø22 SiC/SiC/FPM**



MANUFACTURER REFERENCE	MANUFACTURER	BURGMANN
	DESCRIPTION	MG1S6/22-G3
	PUMP VERSION	HS VERSION
	DIMENSIONS	Ø 22
MATERIAL	1 Self driving spring	EN 1.4571(AISI 316Ti)
	2 Bellows	FPM
	3 Frame	EN 1.4571(AISI 316Ti)
	4 Rotary seal ring	SiC
	5 Stationary seal ring	SiC
	6 O Ring	FPM

**MECHANICAL SEAL (L version)
Ø22 SiC/SiC/FPM**

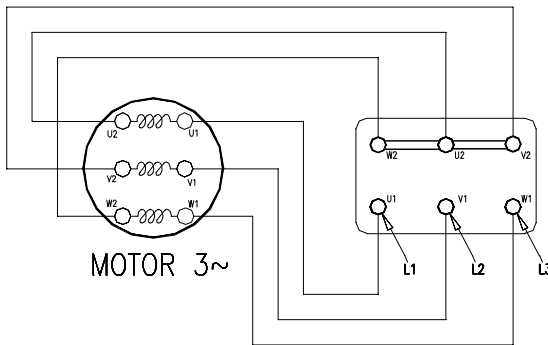


MANUFACTURER REFERENCE	MANUFACTURER	BURGMANN
	DESCRIPTION	M377GN85/22-00-R
	PUMP VERSION	3L VERSION
	DIMENSIONS	Ø 22
MATERIAL	1 Self driving spring	EN 1.4571(AISI 316Ti)
	2 Thrust ring	EN 1.4571(AISI 316Ti)
	3 O Ring	FPM
	4 Rotary seal ring	SiC
	5 Stationary seal ring	SiC
	6 O Ring	FPM

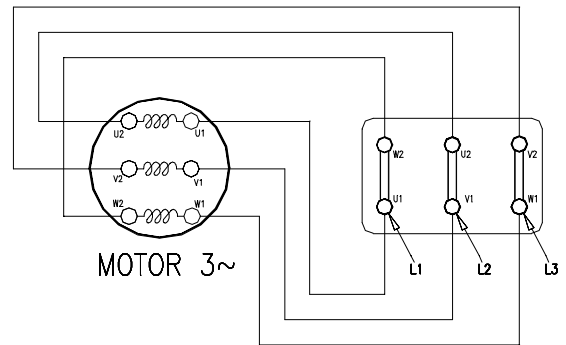
DIAGRAM AND ELECTRIC CONNECTIONS

THREE PHASE MOTOR

STAR CONNECTION

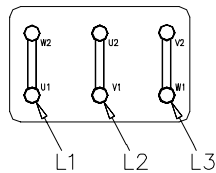


DELTA CONNECTION

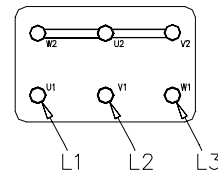


FOR MOTOR 4 kW AND BELOW

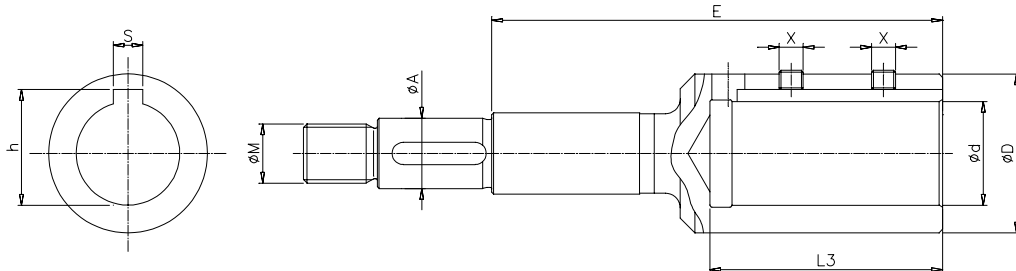
DELTA CONNECTION 230 V



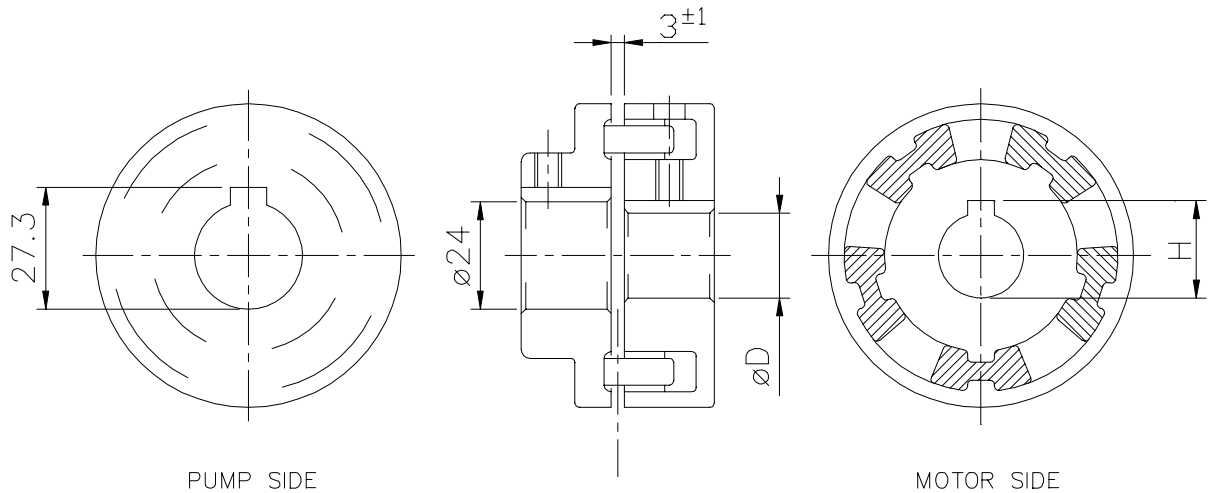
STAR CONNECTION 400 V



EXTENSION MOTOR SHAFT



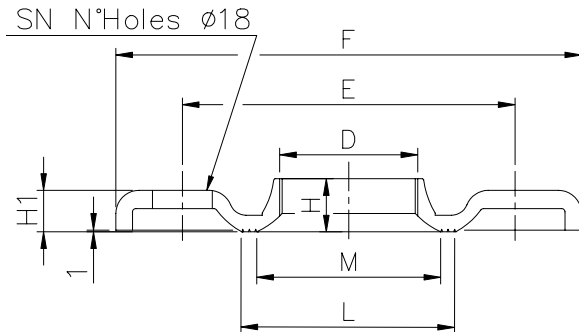
Pump Type	kW	HP	Motor		Dimensions mm									
			HA	Type	D	d	L3	M	X	h	S	E	A	
32-125/0.25	0.25	0.33	71	B5	28	14	33	M16X1.5	M5x6	16.3	5	88	19	
32-160/0.37R	0.37	0.5	71	B5	28	14	33	M16X1.5	M5x6	16.3	5	88	19	
32-160/0.37	0.37	0.5	71	B5	28	14	33	M16X1.5	M5x6	16.3	5	88	19	
32-200/0.55R	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
32-200/0.55	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
32-200/0.75	0.75	1	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
40-125/0.37R	0.37	0.5	71	B5	28	14	33	M16X1.5	M5x6	16.3	5	88	19	
40-125/0.37	0.37	0.5	71	B5	28	14	33	M16X1.5	M5x6	16.3	5	88	19	
40-160/0.55R	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
40-160/0.55	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
40-200/1.1R	1.1	1.5	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
40-200/1.1	1.1	1.5	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
40-200/1.5	1.5	2	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
50-125/0.55R	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
50-125/0.55	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
50-160/1.1R	1.1	1.5	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
50-160/1.1	1.1	1.5	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
50-200/1.5R	1.5	2	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
50-200/1.5	1.5	2	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
50-200/2.2	2.2	3	100	B35	43	28	63	M18X1.5	M8x8	31.3	8	153	22	
65-125/0.55	0.55	0.75	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
65-125/0.75	0.75	1	80	B5	33	19	43	M16X1.5	M6x6	21.8	6	98	19	
65-125/1.1	1.1	1.5	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
65-160/1.1	1.1	1.5	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
65-160/1.5	1.5	2	90	B5	39	24	53	M16X1.5	M8x8	27.3	8	110	19	
65-160/2.2	2.2	3	100	B35	43	28	63	M16X1.5	M8x8	31.3	8	122	19	
65-200/2.2R	2.2	3	100	B35	43	28	63	M16X1.5	M8x8	31.3	8	122	19	
65-200/2.2	2.2	3	100	B35	43	28	63	M16X1.5	M8x8	31.3	8	122	19	
65-200/3.0	3	4	100	B35	43	28	63	M16X1.5	M8x8	31.3	8	122	19	

FLEXIBLE COUPLING

Pump Type	kW	HP	Motor		Dimensions mm	
			HA	Type	D	H
32-125/0.25	0.25	0.33	71	B3	14	16.3
32-160/0.37R	0.37	0.5	71	B3	14	16.3
32-160/0.37	0.37	0.5	71	B3	14	16.3
32-200/0.55R	0.55	0.75	80	B3	19	21.8
32-200/0.55	0.55	0.75	80	B3	19	21.8
32-200/0.75	0.75	1	80	B3	19	21.8
40-125/0.37R	0.37	0.5	71	B3	14	16.3
40-125/0.37	0.37	0.5	71	B3	14	16.3
40-160/0.55R	0.55	0.75	80	B3	19	21.3
40-160/0.55	0.55	0.75	80	B3	19	21.3
40-200/1.1R	1.1	1.5	90	B3	24	27.3
40-200/1.1	1.1	1.5	90	B3	24	27.3
40-200/1.5	1.5	2	90	B3	24	27.3
50-125/0.55R	0.55	0.75	80	B3	19	21.3
50-125/0.55	0.55	0.75	80	B3	19	21.3
50-160/1.1R	1.1	1.5	90	B3	24	27.3
50-160/1.1	1.1	1.5	90	B3	24	27.3
50-200/1.5R	1.5	2	90	B3	24	27.3
50-200/1.5	1.5	2	90	B3	24	27.3
50-200/2.2	2.2	3	100	B3	28	31.3
65-125/0.55	0.55	0.75	80	B3	19	21.8
65-125/0.75	0.75	1	80	B3	19	21.8
65-125/1.1	1.1	1.5	90	B3	24	27.3
65-160/1.1	1.1	1.5	90	B3	24	27.3
65-160/1.5	1.5	2	90	B3	24	27.3
65-160/2.2	2.2	3	100	B3	28	31.3
65-200/2.2R	2.2	3	100	B3	28	31.3
65-200/2.2	2.2	3	100	B3	28	31.3
65-200/3.0	3	4	100	B3	28	31.3

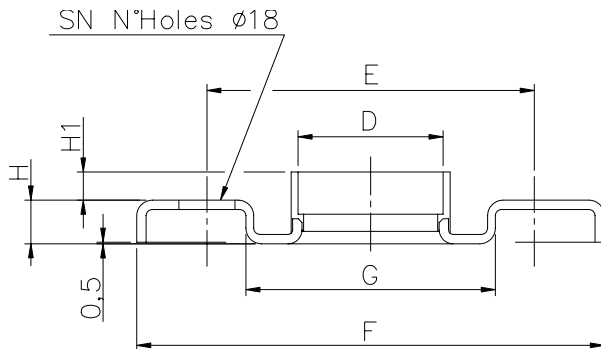
FITTINGS (ON REQUEST 65 version)

COUNTER FLANGE : GALVANIZED STEEL



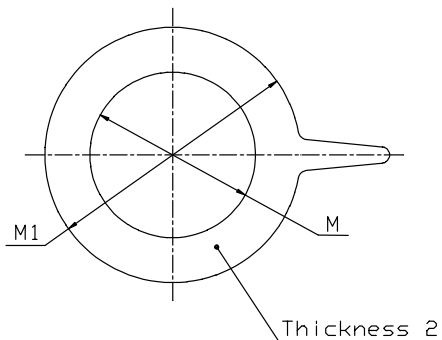
DN	D	E	F	H	H1	L	M	SN	
								Standard	On request
32	G 1 1/4	100	140	15	11.5	67	50	4	-
40	G 1 1/2	110	150	17.5		72	58		
50	G 2	125	165	19	15	89	70		
65	G 2 1/2	145	185	23	14	104	88		
80	G 3	160	200	24	16	117.5	100	8	4

**COUNTER FLANGE: EN 1.4301 (AISI 304)
EN 1.4404 (AISI 316L)**



DN	D	E	F	G	H	H1	SN	
							Standard	On request
32	G 1 1/4	100	140	76	14	15.5	4	-
40	G 1 1/2	110	150	81				
50	G 2	125	165	96	16	18		
65	G 2 1/2	145	185	116	24	24		
80	G3	160	200	134	18	24	8	4

**GASKET : EPDM version for standard
FPM version for hot water maximum 110°C**

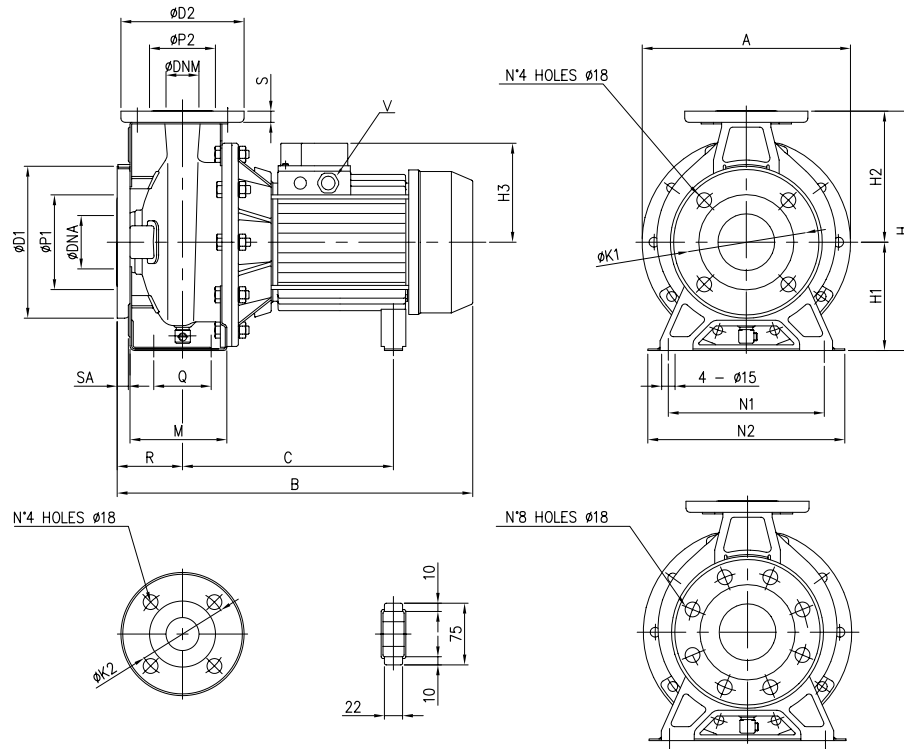


DN	M	M1
32	38	82
40	50	93
50	60	107
65	80	125
80	90	140

Material: EPDM version for standard
FPM version for hot water maximum 110 °C

DIMENSIONS 3BM4-3M4-3LM4

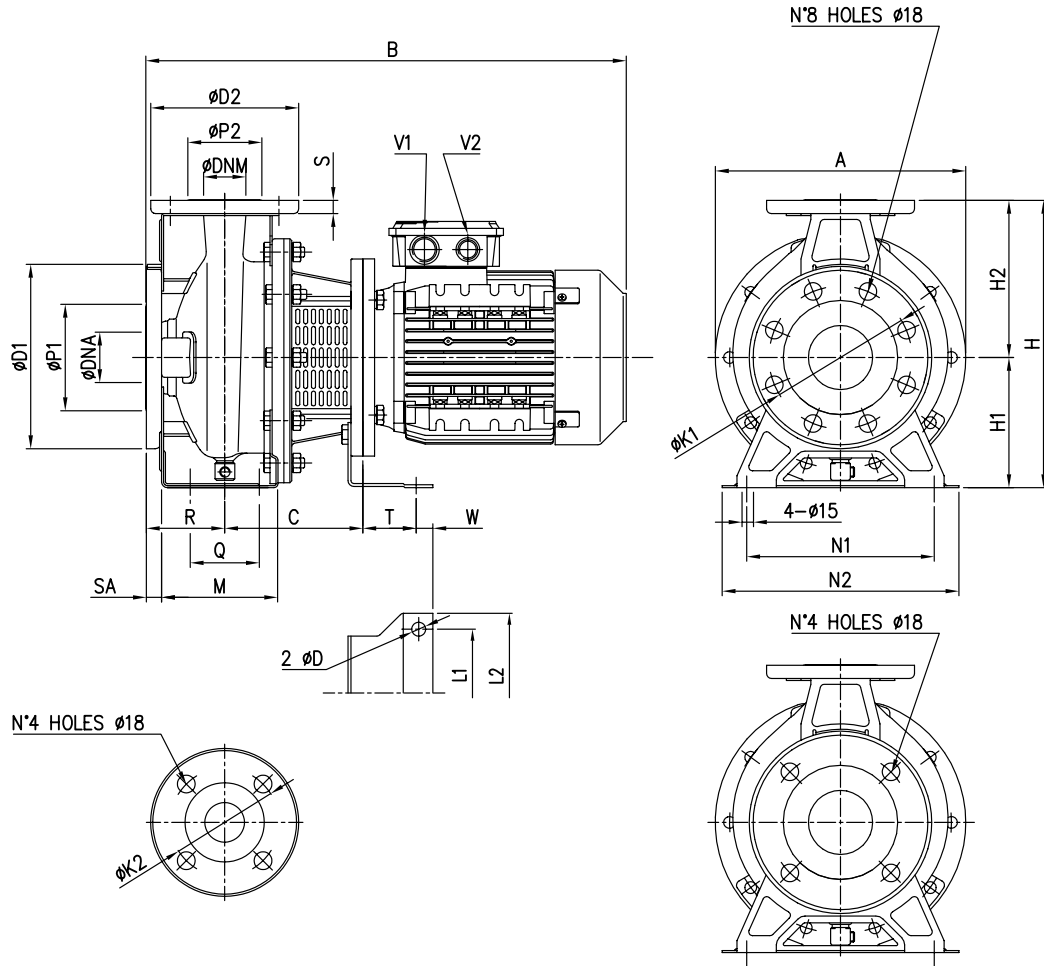
50 Hz



Pump type	Dimensions [mm]																				No. Holes				
	A	B	C	H	H1	H2	H3	M	N1	N2	Q	R	V	S	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	SA	ØDNA	ØDNM	standard	On request
32-125/0.25	213	375	205	252	112	140	104	114	140	190	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-160/0.37R	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-160/0.37	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-200/0.55R	294	395	223	340	160	180	117	119	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-200/0.55	294	395	223	340	160	180	117	119	190	240	70	80	PG11	14	165	125	96	140	100	76	16	50	32	4	-
32-200/0.75	294	408	232	340	160	180	122	119	190	240	70	80	PG13.5	14	165	125	96	140	100	76	16	50	32	4	-
40-125/0.37R	213	375	205	252	112	140	104	114	160	210	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-125/0.37	213	375	205	252	112	140	104	114	160	210	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-160/0.55R	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-160/0.55	254	395	222	292	132	160	117	118	190	240	70	80	PG11	14	185	145	116	150	110	81	16	65	40	4	-
40-200/1.1R	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-
40-200/1.1	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-
40-200/1.5	294	428	232	340	160	180	122	139	212	265	70	100	PG13.5	14	185	145	116	150	110	81	16	65	40	4	-
50-125/0.55R	254	415	222	292	132	160	117	138	190	240	70	100	PG11	16	185	145	116	165	125	96	16	65	50	4	-
50-125/0.55	254	415	222	292	132	160	117	138	190	240	70	100	PG11	16	185	145	116	165	125	96	16	65	50	4	-
50-160/1.1R	296	428	232	340	160	180	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-160/1.1	296	428	232	340	160	180	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-200/1.5R	296	428	232	360	160	200	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-200/1.5	296	428	232	360	160	200	122	139	212	265	70	100	PG13.5	16	185	145	116	165	125	96	16	65	50	4	-
50-200/2.2	296	478	256	360	160	200	134	139	212	265	70	100	PG16	16	185	145	116	165	125	96	16	65	50	4	-
65-125/0.55	254	415	219	340	160	180	117	150	212	280	95	100	PG11	16	200	160	134	185	145	115	18	80	65	8	4
65-125/0.75	254	427	230	340	160	180	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-125/1.1	254	427	230	340	160	180	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-160/1.1	296	427	230	360	160	200	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-160/1.5	296	427	230	360	160	200	124	150	212	280	95	100	PG13.5	16	200	160	134	185	145	115	18	80	65	8	4
65-160/2.2	296	483	253	360	160	200	139	150	212	280	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4
65-200/2.2R	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4
65-200/2.2	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4
65-200/3.0	296	483	253	405	180	225	139	150	250	320	95	100	PG16	16	200	160	134	185	145	115	18	80	65	8	4

DIMENSIONS **3BS4-3S4-3LS4**

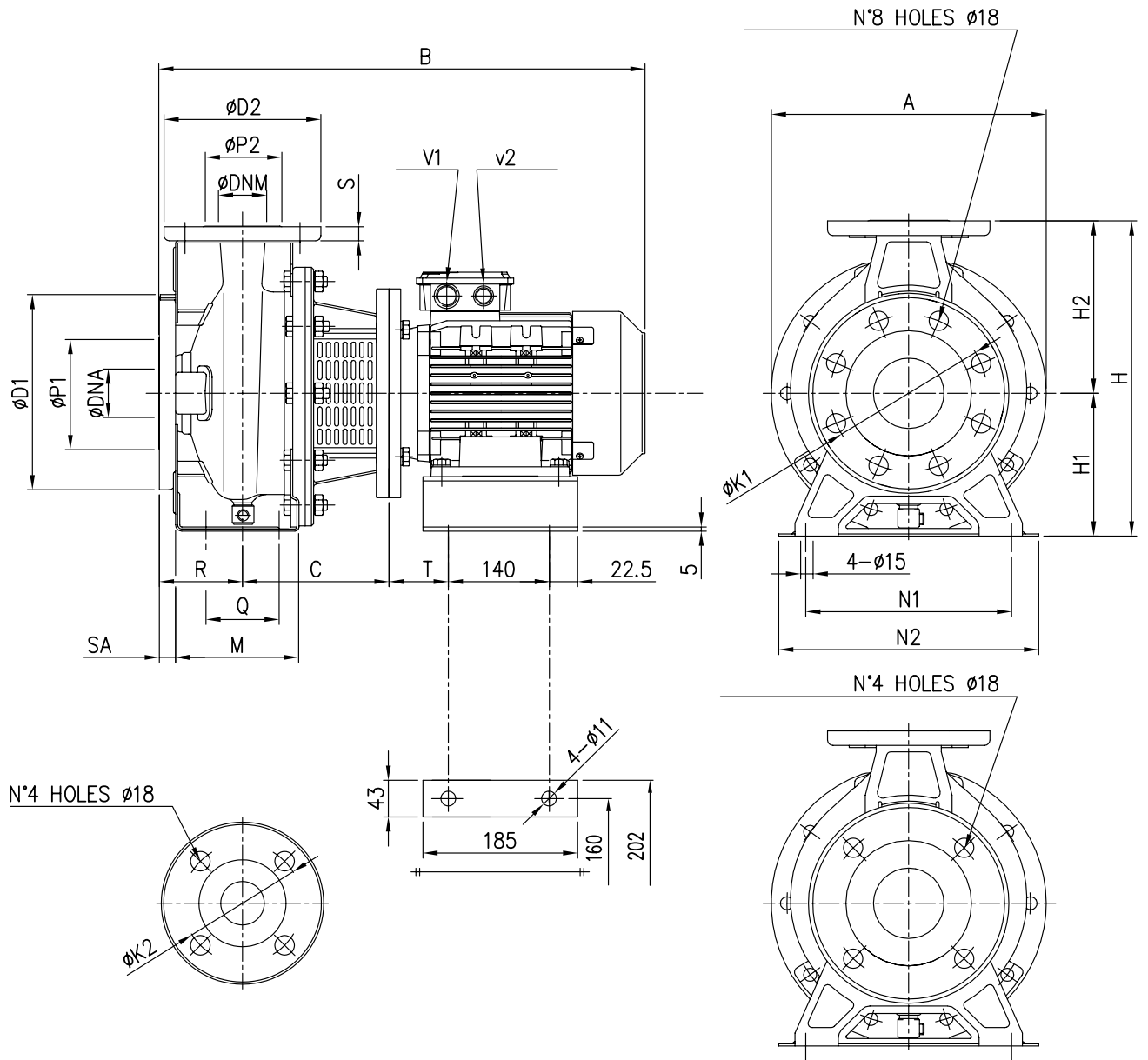
50 Hz



Pump type	Dimensions [mm]																							No. Holes						
	A	B	C	D	H	H1	H2	L1	L2	M	N1	N2	Q	R	S	T	W	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	SA	ØDNA	ØDNM	V1	V2	standard	On request
32-125/0.25	213	401	108	8	252	112	140	112	140	114	140	190	70	80	14	45	15	165	125	96	140	100	76	16	50	32	PG11	PG13.5	4	-
32-160/0.37R	254	401	108	8	292	132	160	112	140	118	190	240	70	80	14	45	15	165	125	96	140	100	76	16	50	32	PG11	PG13.5	4	-
32-160/0.37	254	401	108	8	292	132	160	112	140	118	190	240	70	80	14	45	15	165	125	96	140	100	76	16	50	32	PG11	PG13.5	4	-
32-200/0.55R	296	435	118	10	340	160	180	140	168	119	190	240	70	80	14	56	15	165	125	96	140	100	76	16	50	32	PG13.5	PG16	4	-
32-200/0.55	296	435	118	10	340	160	180	140	168	119	190	240	70	80	14	56	15	165	125	96	140	100	76	16	50	32	PG13.5	PG16	4	-
32-200/0.75	296	435	118	10	340	160	180	140	168	119	190	240	70	80	14	56	15	165	125	96	140	100	76	16	50	32	PG13.5	PG16	4	-
40-125/0.37R	213	401	118	8	252	112	140	112	140	114	160	210	70	80	14	45	15	185	145	116	150	110	81	16	65	40	PG11	PG13.5	4	-
40-125/0.37	213	401	118	8	252	112	140	112	140	114	160	210	70	80	14	45	15	185	145	116	150	110	81	16	65	40	PG11	PG13.5	4	-
40-160/0.55R	254	435	118	10	292	132	160	140	168	118	190	240	70	80	14	56	15	185	145	116	150	110	81	16	65	40	PG13.5	PG16	4	-
40-160/0.55	254	435	118	10	292	132	160	140	168	118	190	240	70	80	14	56	15	185	145	116	150	110	81	16	65	40	PG13.5	PG16	4	-
40-200/1.1R	294	487	130	10	340	160	180	140	168	139	212	265	70	100	14	56	15	185	145	116	150	110	81	16	65	40	PG13.5	PG16	4	-
40-200/1.1	294	487	130	10	340	160	180	140	168	139	212	265	70	100	14	56	15	185	145	116	150	110	81	16	65	40	PG13.5	PG16	4	-
40-200/1.5	294	512	130	10	340	160	180	140	168	139	212	265	70	100	14	56	15	185	145	116	150	110	81	16	65	40	PG13.5	PG16	4	-
50-125/0.55R	254	452	118	10	292	132	160	140	168	138	190	240	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13.5	PG16	4	-
50-125/0.55	254	452	118	10	292	132	160	140	168	138	190	240	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13.5	PG16	4	-
50-160/1.1R	296	487	130	10	340	160	180	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13.5	PG16	4	-
50-160/1.1	296	487	130	10	340	160	180	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13.5	PG16	4	-
50-200/1.5R	296	512	130	10	360	160	200	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13.5	PG16	4	-
50-200/1.5	296	512	130	10	360	160	200	140	168	139	212	265	70	100	16	56	15	185	145	116	165	125	96	16	65	50	PG13.5	PG16	4	-
65-125/0.55	254	450	118	10	292	132	160	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-125/0.75	254	450	118	10	340	160	180	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-125/1.1	254	497	130	10	340	160	180	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-160/1.1	296	497	130	10	360	160	200	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-160/1.5	296	497	130	10	360	160	200	140	168	150	212	280	90	100	16	56	15	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4

DIMENSIONS **3BS4-3S4-3LS4**

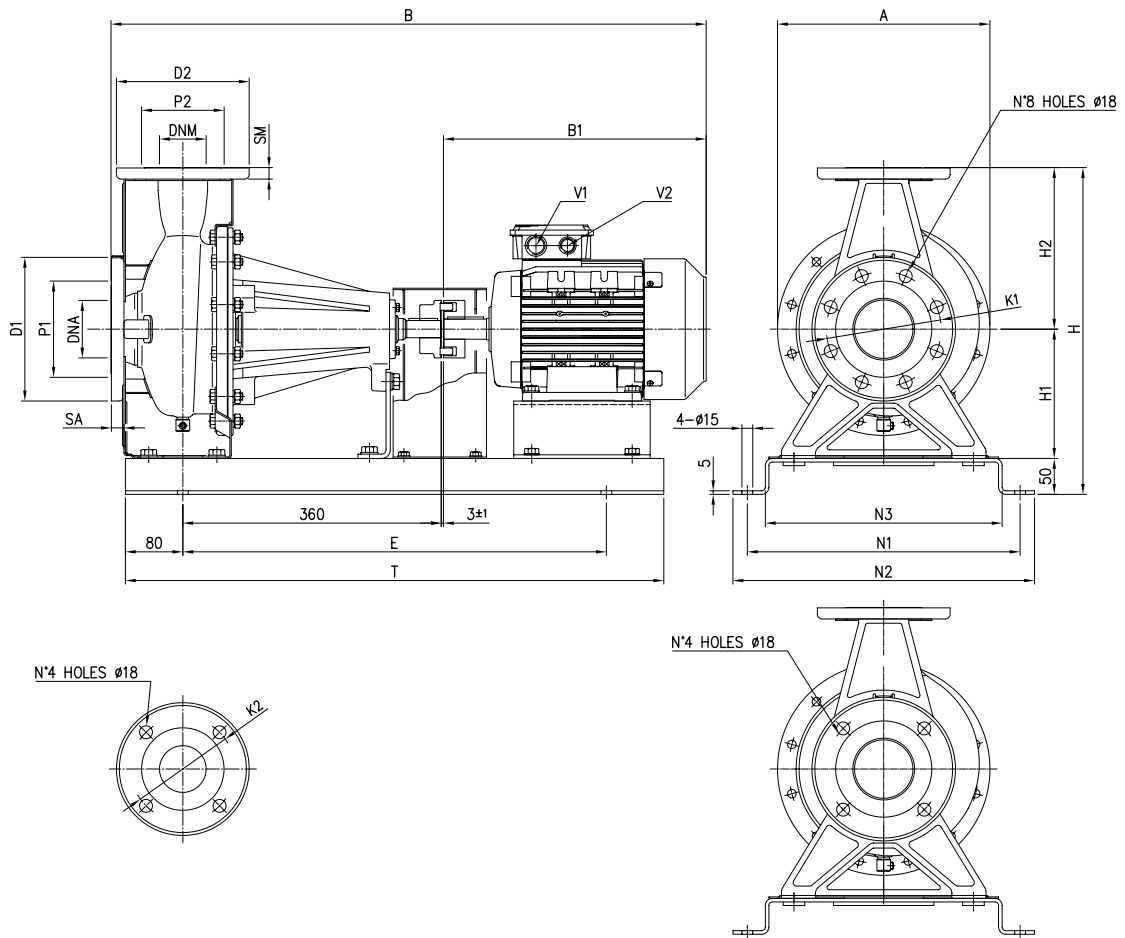
50 Hz



Pump type	Dimensions [mm]																				No. Holes					
	A	B	C	H	H1	H2	M	N1	N2	Q	R	S	T	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	SA	ØDNA	ØDNM	V1	V2	standard	On request
	50-200/2.2	296	555	142	360	160	200	115	212	265	70	100	16	70	185	145	116	165	125	96	16	65	50	PG16	PG13.5	4
65-160/2.2	296	548	142	360	160	200	145	212	280	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-200/2.2R	296	548	142	405	180	225	145	250	320	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-200/2.2	296	548	142	405	180	225	145	250	320	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4
65-200/3.0	296	548	142	405	180	225	145	250	320	95	100	16	63	200	160	134	185	145	115	18	80	65	PG16	PG13.5	8	4

DIMENSIONS 3BP4-3P4-3LP4

50 Hz

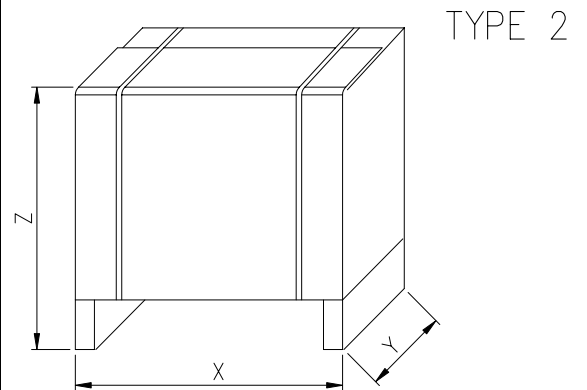
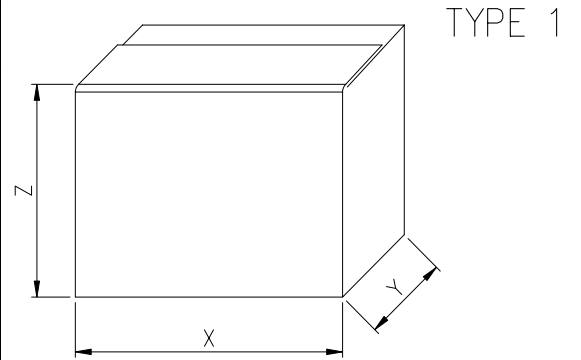


Pump type	Dimensions [mm]																				No. Holes				
	A	B	E	H	H1	H2	N1	N2	N3	B1	T	SA	SM	V1	V2	ØD1	ØK1	ØP1	ØD2	ØK2	ØP2	ØDNA	ØDNM	standard	On request
32-125/0.25	213	683	550	302	112	140	300	340	250	240	710	16	14	PG11	PG13.5	165	125	95	140	100	75	50	32	4	-
32-160/0.37R	254	683	510	342	132	160	350	390	300	240	670	16	14	PG11	PG13.5	165	125	95	140	100	75	50	32	4	-
32-160/0.37	254	683	510	342	132	160	350	390	300	240	670	16	14	PG11	PG13.5	165	125	95	140	100	75	50	32	4	-
32-200/0.55R	296	717	510	390	160	180	350	390	300	274	670	16	14	PG13.5	PG16	165	125	95	140	100	75	50	32	4	-
32-200/0.55	296	717	510	390	160	180	350	390	300	274	670	16	14	PG13.5	PG16	165	125	95	140	100	75	50	32	4	-
32-200/0.75	296	717	510	390	160	180	350	390	300	274	670	16	14	PG13.5	PG16	165	125	95	140	100	75	50	32	4	-
40-125/0.37R	213	683	550	302	112	140	300	340	250	240	710	16	14	PG11	PG13.5	185	145	115	150	110	80	65	40	4	-
40-125/0.37	213	683	550	302	112	140	300	340	250	240	710	16	14	PG11	PG13.5	185	145	115	150	110	80	65	40	4	-
40-160/0.55R	254	717	510	342	132	160	350	390	300	274	670	16	14	PG13.5	PG16	185	145	115	150	110	80	65	40	4	-
40-160/0.55	254	717	510	342	132	160	350	390	300	274	670	16	14	PG13.5	PG16	185	145	115	150	110	80	65	40	4	-
40-200/1.1R	296	795	590	390	160	180	350	390	300	332	750	16	14	PG13.5	PG16	185	145	115	150	110	80	65	40	4	-
40-200/1.1	296	795	590	390	160	180	350	390	300	332	750	16	14	PG13.5	PG16	185	145	115	150	110	80	65	40	4	-
40-200/1.5	296	795	590	390	160	180	350	390	300	332	750	16	14	PG13.5	PG16	185	145	115	150	110	80	65	40	4	-
50-125/0.55R	254	737	510	342	132	160	350	390	300	274	670	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
50-125/0.55	254	737	510	342	132	160	350	390	300	274	670	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
50-160/1.1R	296	795	590	390	160	180	350	390	300	332	750	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
50-160/1.1	296	795	590	390	160	180	350	390	300	332	750	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
50-200/1.5R	296	795	590	410	160	200	350	390	300	332	750	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
50-200/1.5	296	795	590	410	160	200	350	390	300	332	750	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
50-200/2.2	296	863	590	410	160	200	350	390	300	400	750	16	16	PG13.5	PG16	185	145	115	165	125	95	65	50	4	-
65-125/0.55	254	735	510	390	160	180	350	390	300	272	670	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-125/0.75	254	735	510	390	160	180	350	390	300	272	670	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-125/1.1	254	780	590	390	160	180	350	390	300	317	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-160/1.1	296	780	590	410	160	200	350	390	300	317	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-160/1.5	296	780	590	410	160	200	350	390	300	317	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-160/2.2	296	829	590	410	160	200	350	390	300	366	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-200/2.2R	296	829	590	455	180	225	380	420	330	366	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-200/2.2	296	829	590	455	180	225	380	420	330	366	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4
65-200/3.0	296	829	590	455	180	225	380	420	330	366	750	18	16	PG16	PG13.5	200	160	134	185	145	115	80	65	8	4

PACKING AND WEIGHT **3(.)M4**

50 Hz

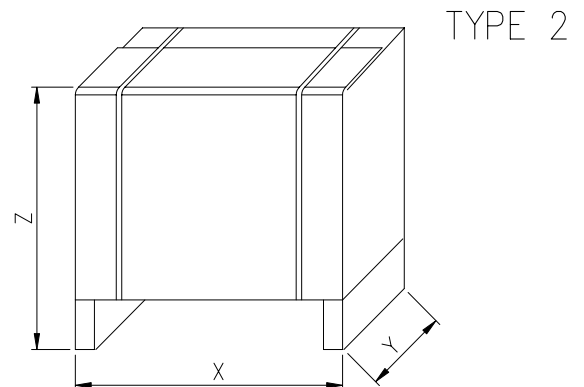
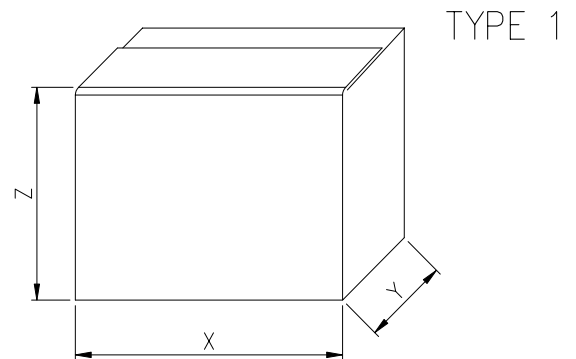
Pump Type	PUMPS WITH MOTOR				PACK TYPE
	PACKING [mm]			WEIGHT [Kg]	
	X	Y	Z		
32-125/0.25	440	280	240	15	1
32-160/0.37R	420	310	270	20	
32-160/0.37	420	310	270	20	
32-200/0.55R	490	370	320	25	
32-200/0.55	490	370	320	25	
32-200/0.75	490	370	320	29.3	
40-125/0.37R	440	280	240	15	
40-125/0.37	440	280	240	15	
40-160/0.55R	420	310	270	20	
40-160/0.55	420	310	270	20	
40-200/1.1R	490	270	320	30	
40-200/1.1	490	270	320	30	
40-200/1.5	490	270	320	32.2	
50-125/0.55R	420	310	270	20	
50-125/0.55	420	310	270	20	
50-160/1.1R	490	370	320	30	
50-160/1.1	490	370	320	30	
50-200/1.5R	490	370	320	30	
50-200/1.5	490	370	320	30	
50-200/2.2	490	370	320	31.8	
65-125/0.55	500	330	390	24.9	
65-125/0.75	500	330	390	29.8	
65-125/1.1	500	330	390	30.1	
65-160/1.1	500	330	390	32.8	
65-160/1.5	500	330	390	34.6	
65-160/2.2	500	330	390	39.8	
65-200/2.2R	580	390	560	46.5	
65-200/2.2	580	390	560	46.7	
65-200/3.0	580	390	560	51.3	



PACKING AND WEIGHT 3(.)S4

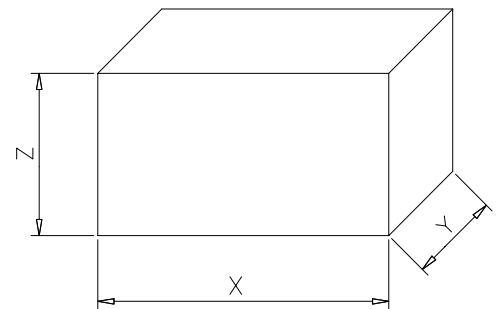
50 Hz

Pump Type	PUMPS WITH MOTOR			WEIGHT [Kg]	PACK TYPE
	PACKING [mm]				
	X	Y	Z		
32-125/0.25	440	280	240	15.5	1
32-160/0.37R	420	310	270	20.7	1
32-160/0.37	420	310	270	20.7	1
32-200/0.55R	670	380	320	28.9	1
32-200/0.55	670	380	320	28.9	1
32-200/0.75	670	380	320	30.1	1
40-125/0.37R	420	310	270	17.6	1
40-125/0.37	420	310	270	17.6	1
40-160/0.55R	480	320	270	23.2	1
40-160/0.55	480	320	270	23.2	1
40-200/1.1R	670	380	320	33.3	1
40-200/1.1	670	380	320	33.3	1
40-200/1.5	670	380	320	35.5	1
50-125/0.55R	490	370	320	23.5	1
50-125/0.55	490	370	320	23.5	1
50-160/1.1R	670	380	320	34	1
50-160/1.1	670	380	320	34	1
50-200/1.5R	670	380	320	30	1
50-200/1.5	670	380	320	30	1
50-200/2.2	670	380	320	63.7	1
65-125/0.55	580	350	410	30.8	2
65-125/0.75	580	350	410	32	2
65-125/1.1	580	350	410	36	2
65-160/1.1	580	350	410	40.1	2
65-160/1.5	580	350	410	41.2	2
65-160/2.2	580	390	560	51.7	2
65-200/2.2R	580	390	560	52.8	2
65-200/2.2	580	390	560	53	2
65-200/3.0	580	390	560	56.2	2



Pump Type	PUMPS WITH MOTOR				
	PACKING [mm]			WEIGHT [Kg]	PACK TYPE
	X	Y	Z		
32-125/0.25	730	360	320	37	1
32-160/0.37R	730	410	360	41	
32-160/0.37	730	410	360	41	
32-200/0.55R	760	410	410	53.5	
32-200/0.55	760	410	410	53.5	
32-200/0.75	970	410	410	54.5	
40-125/0.37R	730	360	320	46.5	
40-125/0.37	730	360	320	46.5	
40-160/0.55R	760	410	360	44.5	
40-160/0.55	760	410	360	44.5	
40-200/1.1R	840	410	410	61.5	
40-200/1.1	840	410	410	61.5	
40-200/1.5	840	410	410	64	
50-125/0.55R	780	410	360	45	
50-125/0.55	780	410	360	45	
50-160/1.1R	840	410	410	52.5	
50-160/1.1	840	410	410	52.5	
50-200/1.5R	840	410	430	64	
50-200/1.5	840	410	430	64	
50-200/2.2	910	410	430	70	
65-125/0.55	735	390	390	48.6	
65-125/0.75	735	390	390	49.8	
65-125/1.1	780	390	390	56.2	
65-160/1.1	780	390	410	62.6	
65-160/1.5	780	390	410	63.7	
65-160/2.2	829	390	410	71.5	
65-200/2.2R	829	420	455	74.1	
65-200/2.2	829	420	455	74.2	
65-200/3.0	829	420	455	77.5	

TYPE 1



NOTE: 3P pumps have no packing

TECHNICAL DATA 3(.)M4

50 Hz

Pump Type Three Phase 50 Hz	kW	HP	Motor		Input [kW] Three phase	Full load current		Locked rotor current	
			Size	Type		in [A]		Three phase	
						230 V	400 V	230 V	400 V
32-125/0.25	0.25	0.33	71	B5	0.29	1.4	0.8	7.3	4.2
32-160/0.37R	0.37	0.5	71	B5	0.34	1.4	0.8	10.6	6.1
32-160/0.37	0.37	0.5	71	B5	0.42	1.6	0.9	10.6	6.1
32-200/0.55R	0.55	0.75	80	B5	0.53	1.9	1.1	10.6	6.1
32-200/0.55	0.55	0.75	80	B5	0.65	2.1	1.2	10.6	6.1
32-200/0.75	0.75	1	80	B5	1.00	3.1	1.8	17.7	10.2
40-125/0.37R	0.37	0.5	71	B5	0.31	1.5	0.9	7.3	4.2
40-125/0.37	0.37	0.5	71	B5	0.40	1.6	0.9	7.3	4.2
40-160/0.55R	0.55	0.75	80	B5	0.56	1.9	1.1	10.6	6.1
40-160/0.55	0.55	0.75	80	B5	0.70	2.1	1.2	10.6	6.1
40-200/1.1R	1.1	1.5	90	B5	0.92	3.5	2	17.7	10.2
40-200/1.1	1.1	1.5	90	B5	1.15	3.8	2.2	17.7	10.2
40-200/1.5	1.5	2	90	B5	2.00	6.4	3.7	36.5	21.1
50-125/0.55R	0.55	0.75	80	B5	0.51	1.7	1	10.6	6.1
50-125/0.55	0.55	0.75	80	B5	0.65	2.1	1.2	10.6	6.1
50-160/1.1R	1.1	1.5	90	B5	0.89	3.5	2	17.7	10.2
50-160/1.1	1.1	1.5	90	B5	1.10	3.8	2.2	17.7	10.2
50-200/1.5R	1.5	2	90	B5	1.60	5.2	3	36.5	21.1
50-200/1.5	1.5	2	90	B5	1.70	5.5	3.2	36.5	21.1
50-200/2.2	2.2	3	100	B35	2.70	8.7	5	47.9	27.7
65-125/0.55	0.55	0.75	80	B5	0.63	2.08	1.20	7.49	4.32
65-125/0.75	0.75	1.0	90	B5	0.90	3.20	1.85	14.10	8.14
65-125/1.1	1.1	1.5	90	B5	1.17	3.70	2.14	19.28	11.13
65-160/1.1	1.1	1.5	90	B5	1.37	4.12	2.38	21.44	12.38
65-160/1.5	1.5	2.0	90	B5	1.64	5.33	3.08	30.41	17.56
65-160/2.2	2.2	3.0	100	B35	2.06	7.01	4.05	37.17	21.46
65-200/2.2R	2.2	3.0	100	B35	2.15	7.22	4.17	38.28	22.1
65-200/2.2	2.2	3.0	100	B35	2.59	8.24	4.76	43.70	25.23
65-200/3	3.0	4.0	100	B35	3.18	10.39	6.0	47.80	27.6

TECHNICAL DATA 3(.)S4

50 Hz

Pump Type Three Phase 50 Hz	kW	HP	Motor		Input [kW] Three phase	Full load current in [A]		Locked rotor current	
			Size	Type		230 V	400 V	230 V	400 V
32-125/0.25	0.25	0.33	71	B5	0.39	1.2	0.7	3.9	2.2
32-160/0.37R	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
32-160/0.37	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
32-200/0.55R	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
32-200/0.55	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
32-200/0.75	0.75	1	80	B5	1.06	3.8	2	16.8	8.8
40-125/0.37R	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
40-125/0.37	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
40-160/0.55R	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
40-160/0.55	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
40-200/1.1R	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
40-200/1.1	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
40-200/1.5	1.5	2	90L	B5	1.91	6.2	3.5	35.5	20.0
50-125/0.55R	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
50-125/0.55	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
50-160/1.1R	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
50-160/1.1	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
50-200/1.5R	1.5	2	90L	B5	1.91	6.2	3.5	35.5	20.0
50-200/1.5	1.5	2	90L	B5	1.91	6.2	3.5	35.5	20.0
50-200/2.2	2.2	3	100	B35	2.72	9.4	5.1	49.6	27.0
65-125/0.55	0.55	0.75	80	B5	0.79	2.8	1.6	10.0	5.8
65-125/0.75	0.75	1.0	80	B5	1.06	3.8	2.2	16.8	9.7
65-125/1.1	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
65-160/1.1	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
65-160/1.5	1.5	2	90L	B5	1.91	6.2	3.6	35.5	20.5
65-160/2.2	2.2	3.0	100	B35	2.72	9.4	5.4	49.6	28.6
65-200/2.2R	2.2	3.0	100	B35	2.72	9.4	5.4	49.6	28.6
65-200/2.2	2.2	3.0	100	B35	2.72	9.4	5.4	49.6	28.6
65-200/3	3	4.0	100	B35	3.62	11.8	6.8	54.2	31.3

TECHNICAL DATA 3(.)P4

50 Hz

Type pumps Three Phase 50 Hz	kW	HP	Motor		Input [kW] Three phase	Full load current		Locked rotor current	
			Size	Type		in [A]		in [A]	
						230 V	400 V	230 V	400 V
32-125/0.25	0.25	0.33	71	B5	0.39	1.2	0.7	3.9	2.2
32-160/0.37R	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
32-160/0.37	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
32-200/0.55R	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
32-200/0.55	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
32-200/0.75	0.75	1	80	B5	1.06	3.8	2	16.8	8.8
40-125/0.37R	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
40-125/0.37	0.37	0.5	71	B5	0.55	2.0	1.1	6.7	3.6
40-160/0.55R	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
40-160/0.55	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
40-200/1.1R	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
40-200/1.1	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
40-200/1.5	1.5	2	90L	B5	1.91	6.2	3.5	35.5	20.0
50-125/0.55R	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
50-125/0.55	0.55	0.75	80	B5	0.79	2.8	1.7	10.0	6.1
50-160/1.1R	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
50-160/1.1	1.1	1.5	90S	B5	1.44	4.7	2.7	24.3	14.0
50-200/1.5R	1.5	2	90L	B5	1.91	6.2	3.5	35.5	20.0
50-200/1.5	1.5	2	90L	B5	1.91	6.2	3.5	35.5	20.0
50-200/2.2	2.2	3	100	B35	2.72	9.4	5.1	49.6	27.0
65-125/0.55	0.55	0.75	80	B3	0.79	2.8	1.6	10.0	5.8
65-125/0.75	0.75	1.0	80	B3	1.06	3.8	2.2	16.8	9.7
65-125/1.1	1.1	1.5	90S	B3	1.44	4.7	2.7	24.3	14.0
65-160/1.1	1.1	1.5	90S	B3	1.44	4.7	2.7	24.3	14.0
65-160/1.5	1.5	2.0	90L	B3	1.91	6.2	3.6	35.5	20.5
65-160/2.2	2.2	3.0	100	B3	2.72	9.4	5.4	49.6	28.6
65-200/2.2R	2.2	3.0	100	B3	2.72	9.4	5.4	49.6	28.6
65-200/2.2	2.2	3.0	100	B3	2.72	9.4	5.4	49.6	28.6
65-200/3	3	4.0	100	B3	3.62	11.8	6.8	54.2	31.3