EBARA

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50Hz

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3D SERIES 4 Poles

SPECIFICATION

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PUMP			
Liquid Handled	Type of liquid		Clean water
	Working temperature	[°C]	-5 all +90 standard version +110 H, HS, HW, HSW version +120 E version
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
	Shaft seal type		Mechanical seal
	Bearing		Bearing with contact seal
Pipe Connection	Suction		Flange DN 50, 65 according to EN 1092-2 Flange DN 80 according to UNI 2236-67 (4 holes)
	Discharge		Flange DN 32, 40, 50, 65 according to EN 1092-2
Material	Casing		Cast iron EN-GJL-250-EN 1561
	Impeller		EN 1.4301 (AISI 304) - 32, 40, 50 series EN 1.4401 (AISI 316) made by precision casting - 65 series
	Shaft seal		Ceramic/Carbon/NBR (see Optionals on pag. 306)
	Shaft / Coupling		EN 1.4301 (AISI 304) (wet extension)
	Bracket		Aluminium/Cast iron
Accessory	Counterflange		DN 32, 40, 50, 65, 80 (see pag. 311)
Applicable standard of test			ISO 9906 - Annex A

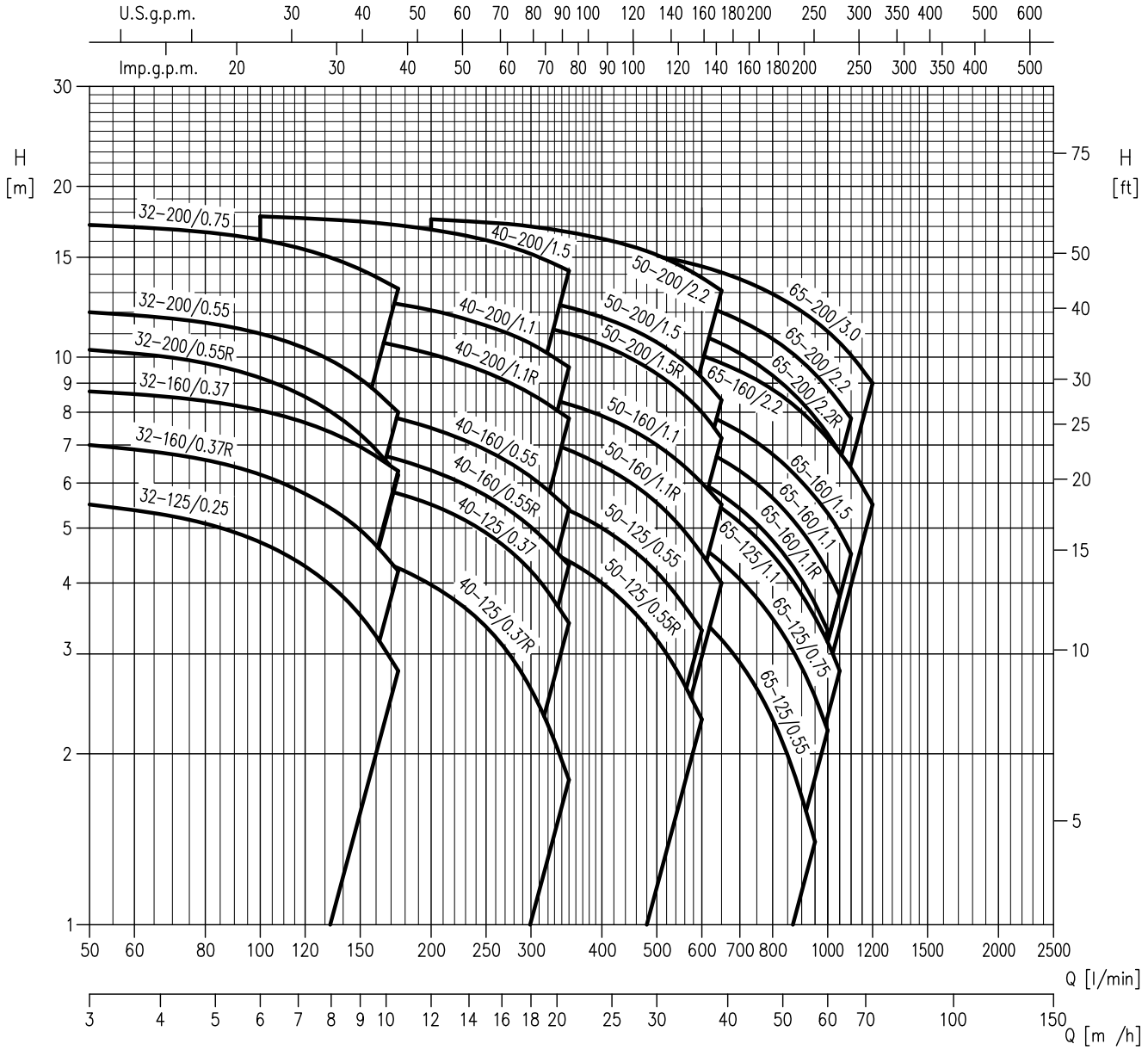
MOTOR				
Type		3D4	3DS4	3DP4
		Electric - TEFC		
		Three Phase		
Efficiency (Reg. 640/2009)		- from 0.25 kW up to 0.55 kW IE2 from 0.75 kW to 3 kW		
		-	IE3 from 0.75 kW to 3 kW	
No. of Poles		4		
Rotation speed	[min^{-1}]	≈1400		
Insulation Class		F (class B for temperature rise)		
Protection degree		IP 55		
Power rating	[kW]	0.25 ÷ 3		
	[HP]	0.33 ÷ 4		
Frequency	[Hz]	50		
Voltage	[V]	230/400 ±10%	230/400 ±10%	
Over load protection		Provided by the user		
Casing material		Aluminium		
Motor support		Cast Iron - Aluminium		
Dimensions of cable entry		PG11, PG13.5, PG16	M10x15, M20x1.5, M25x1.5	
Flange mount (IEC motor)		/	IM B5 (up to 1.5 kW) IM B35 (2.2 kW and above)	IM B3

3D SERIES 4 Poles

SELECTION CHART

50Hz

Rev. B



SELECTION CHART

50Hz

Rev. B

3D4 SERIES 32 SIZE

Pump type	kW	HP	l/min 0	50	100	150	175
			m³/h 0	3	6	9	10.5
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

3D4 SERIES 40 SIZE

Pump type	kW	HP	l/min 0	100	150	175	200	250	300	350
			m³/h 0	6	9	10.5	12	15	18	21
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

3D4 SERIES 50 SIZE

Pump type	kW	HP	l/min 0	200	250	300	350	400	500	600	650
			m³/h 0	12	15	18	21	24	30	36	39
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

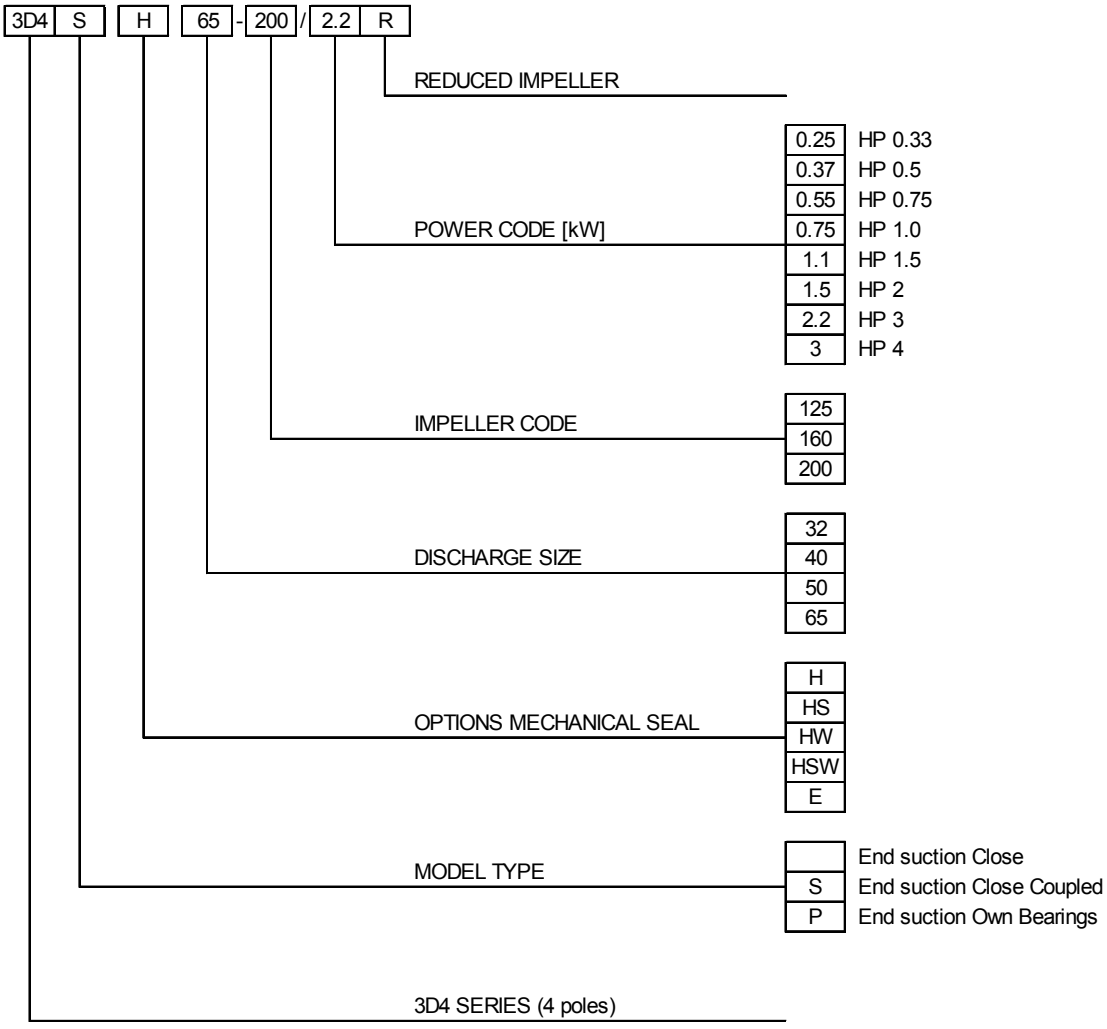
3D4 SERIES 65 SIZE

Pump type	kW	HP	l/min 0	300	350	500	600	800	950	1000	1050	1100	1200
			m³/h 0	18	21	30	36	48	57	60	63	66	72
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

TYPE KEY AND CURVE SPECIFICATIONS 50Hz

Rev. B

TYPE KEY



CURVE SPECIFICATIONS 50Hz

Rev. B

PERFORMANCE CURVE SPECIFICATIONS

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 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

CURVE SPECIFICATIONS 50Hz

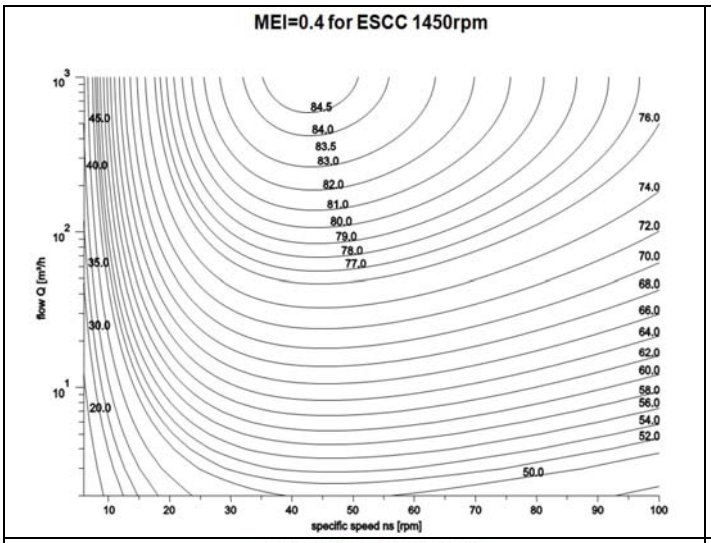
Rev. B

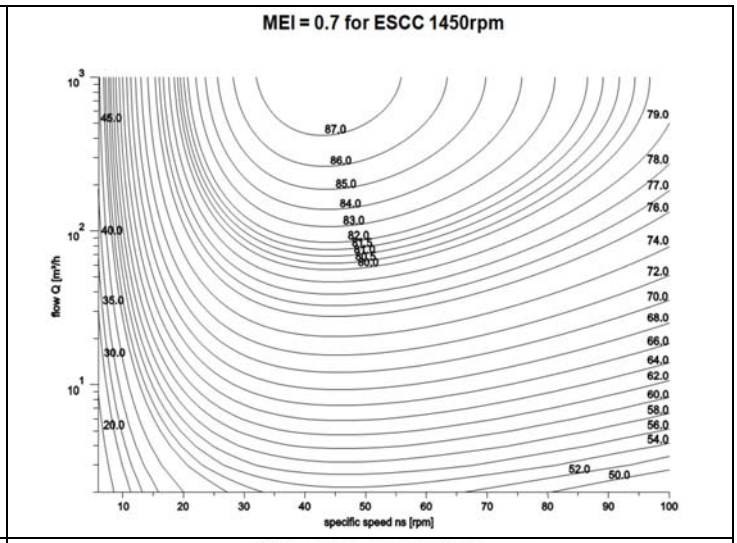
MEI INDEX SPECIFICATION

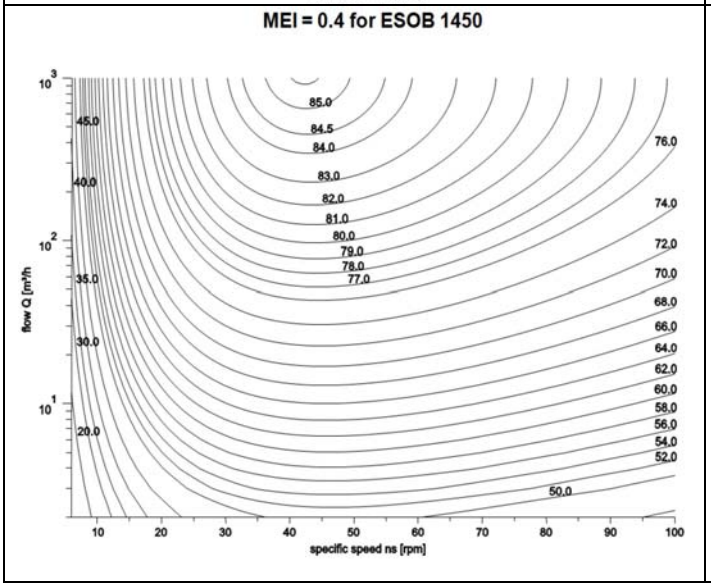
The minimun efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

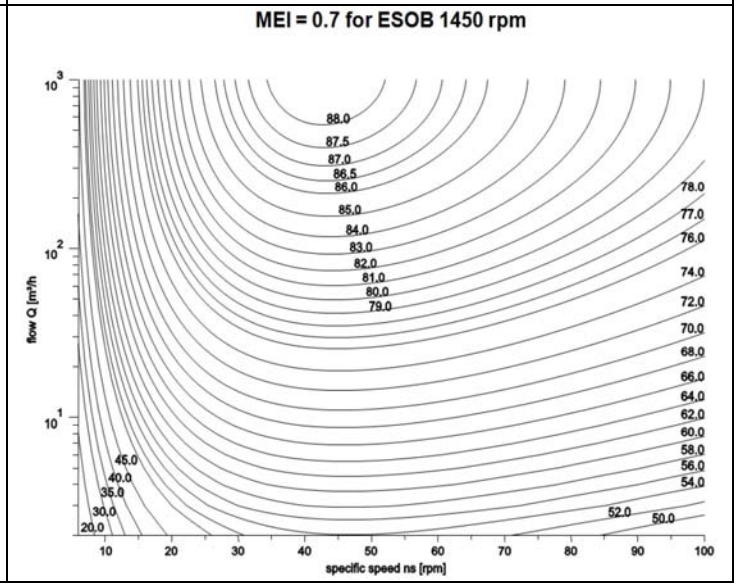
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point,leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

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.







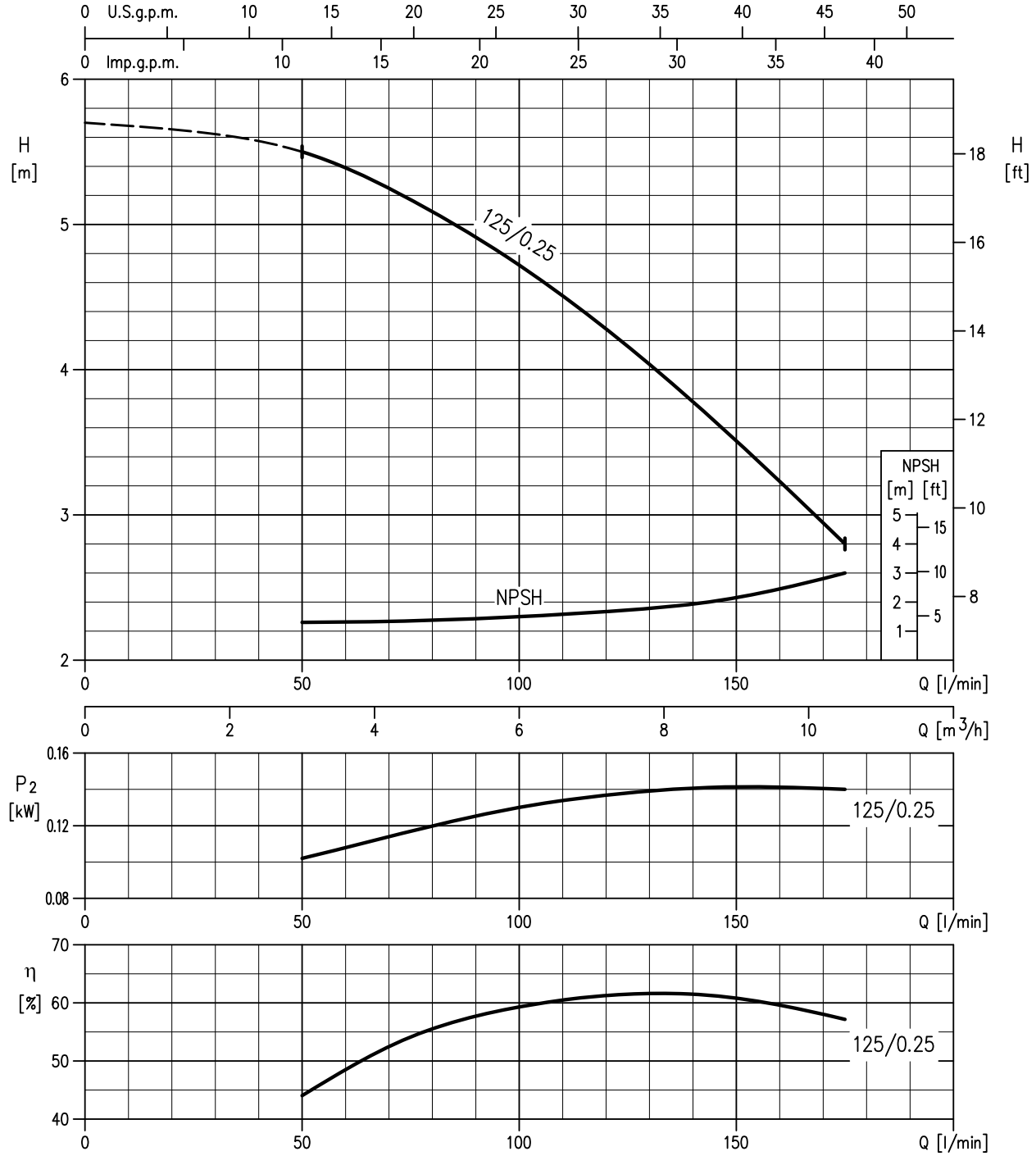


PERFORMANCE CURVE

50Hz

Rev. B

32-125/0.25 (0.25 kW) MEI > 0.50 – impeller diameter = 133 mm



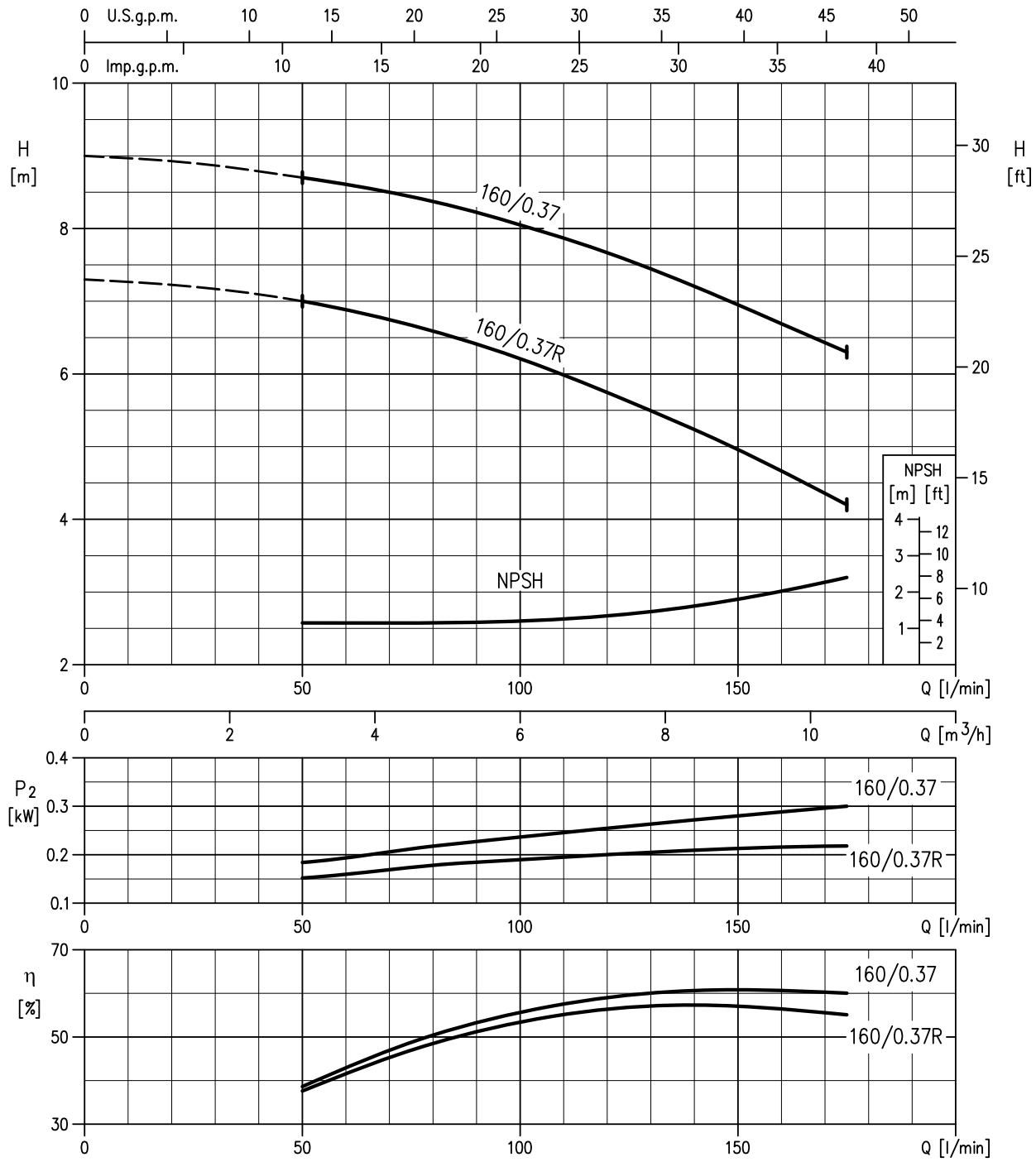
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

32-160/0.37R (0.37kW) MEI > 0.70 – impeller diameter = 151 mm
32-160/0.37 (0.37kW) MEI > 0.70 – impeller diameter = 166 mm



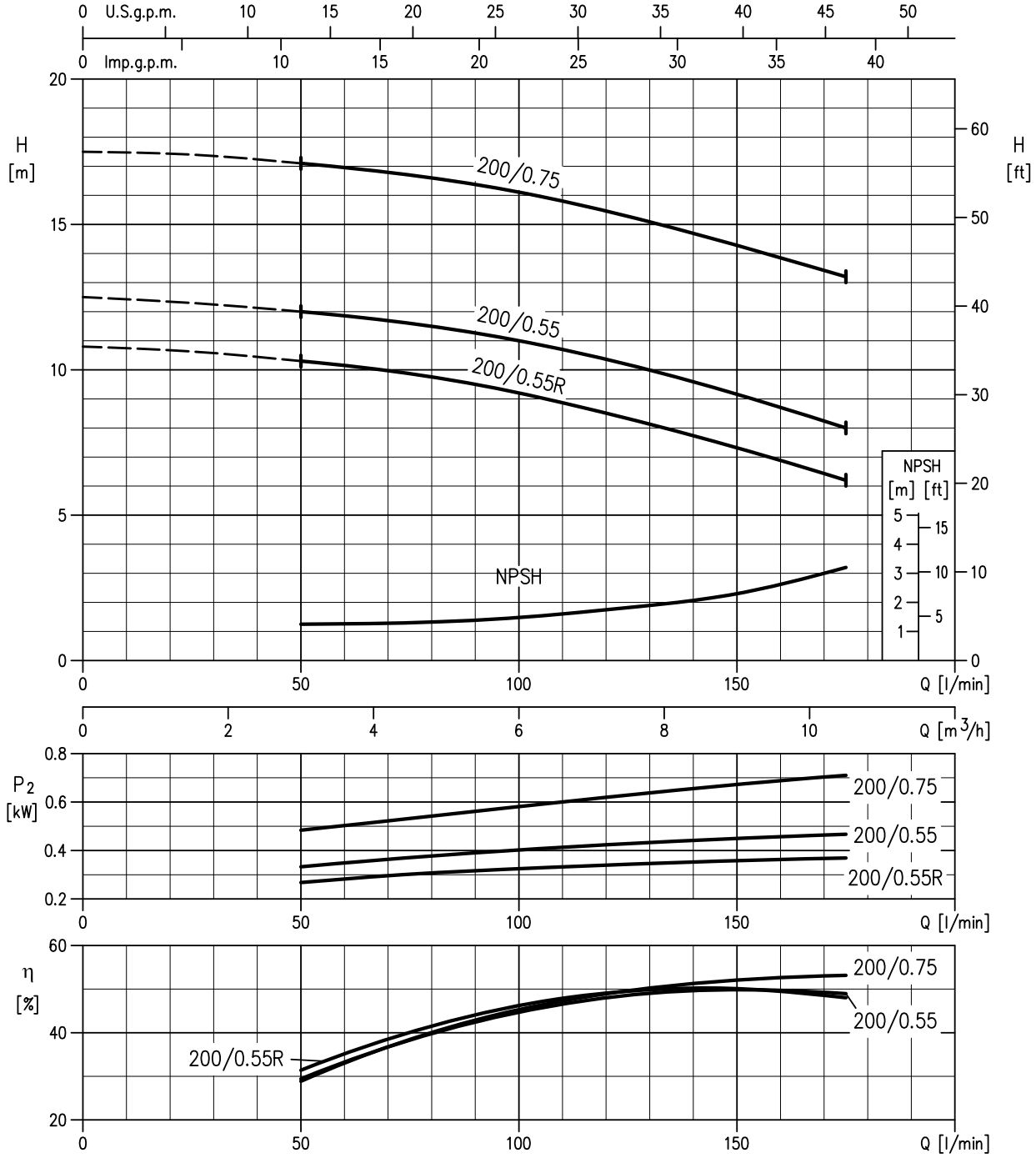
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

32-200/0.55R (0.55 kW) MEI > 0.70 – impeller diameter = 186 mm
32-200/0.5 (0.55kW) MEI > 0.70 – impeller diameter = 200 mm
32-200/0.75 (0.55kW) MEI > 0.70 – impeller diameter = 224 mm



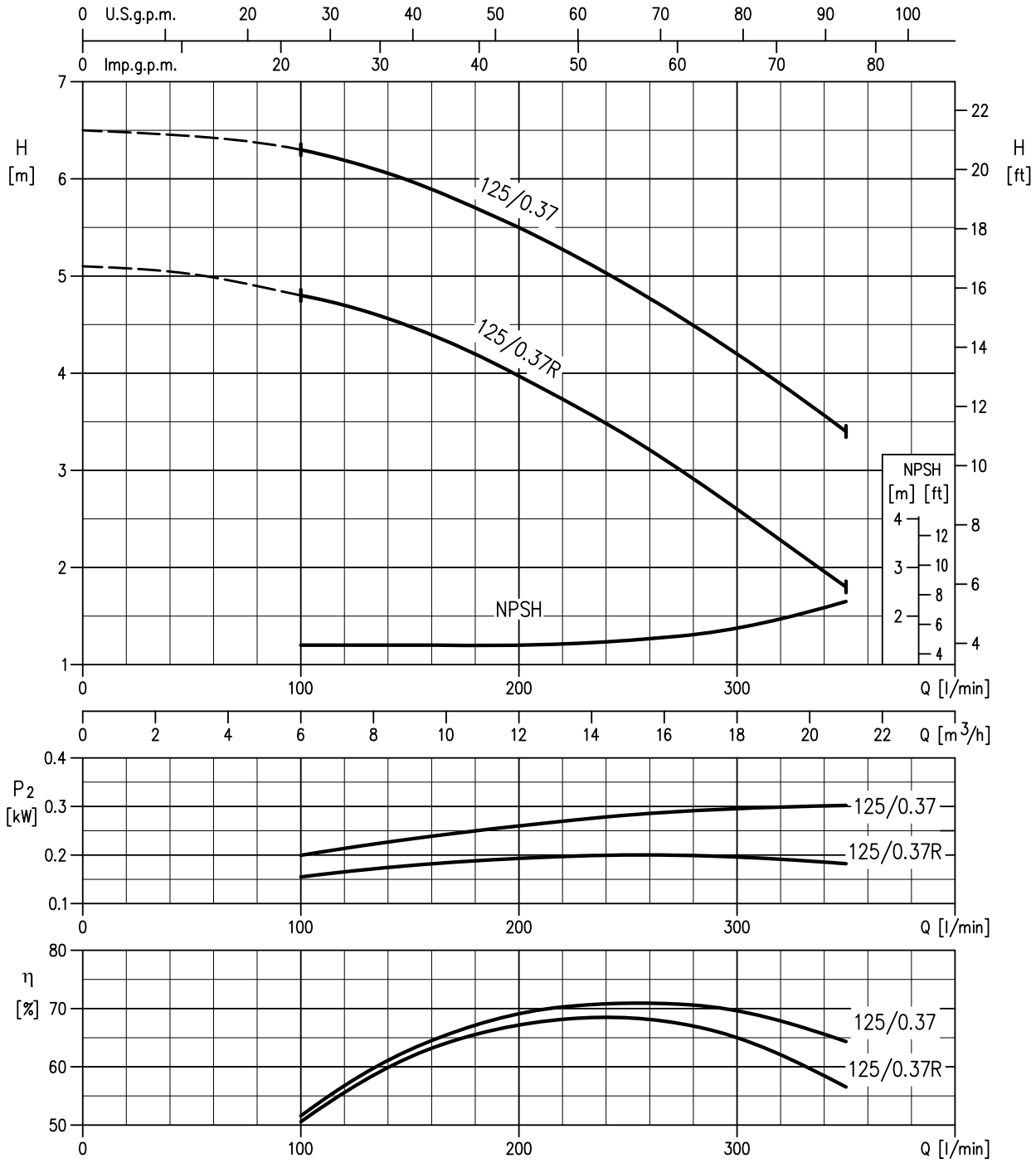
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

40-125/0.37R (0.37 kW) MEI > 0.70 – impeller diameter = 125 mm
40-125/0.37 (0.37 kW) MEI > 0.70 – impeller diameter = 140 mm



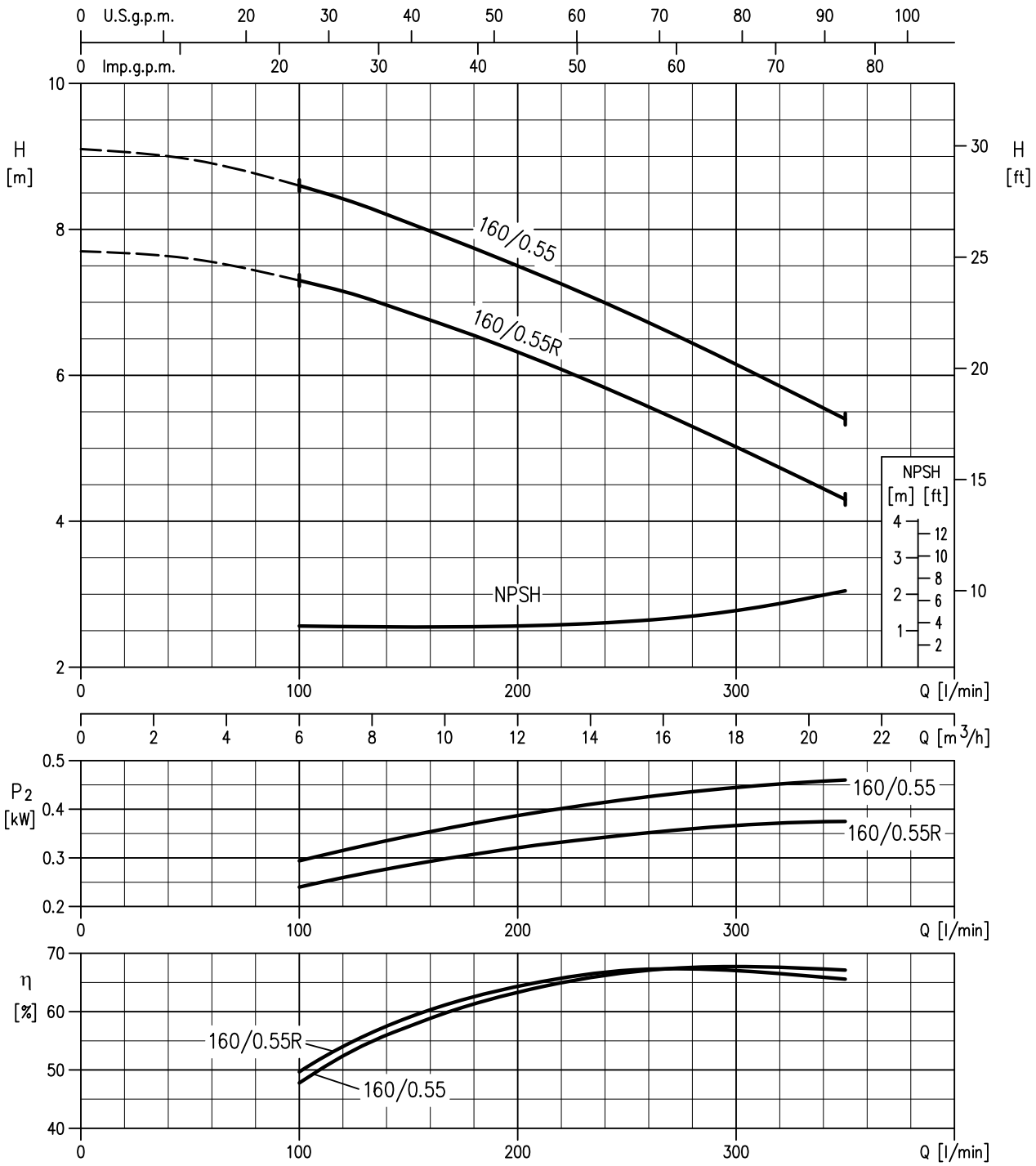
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

40-160/0.55R (0.55 kW) MEI > 0.40 – impeller diameter = 151 mm
40-160/0.55 (0.55 kW) MEI > 0.40 – impeller diameter = 166 mm



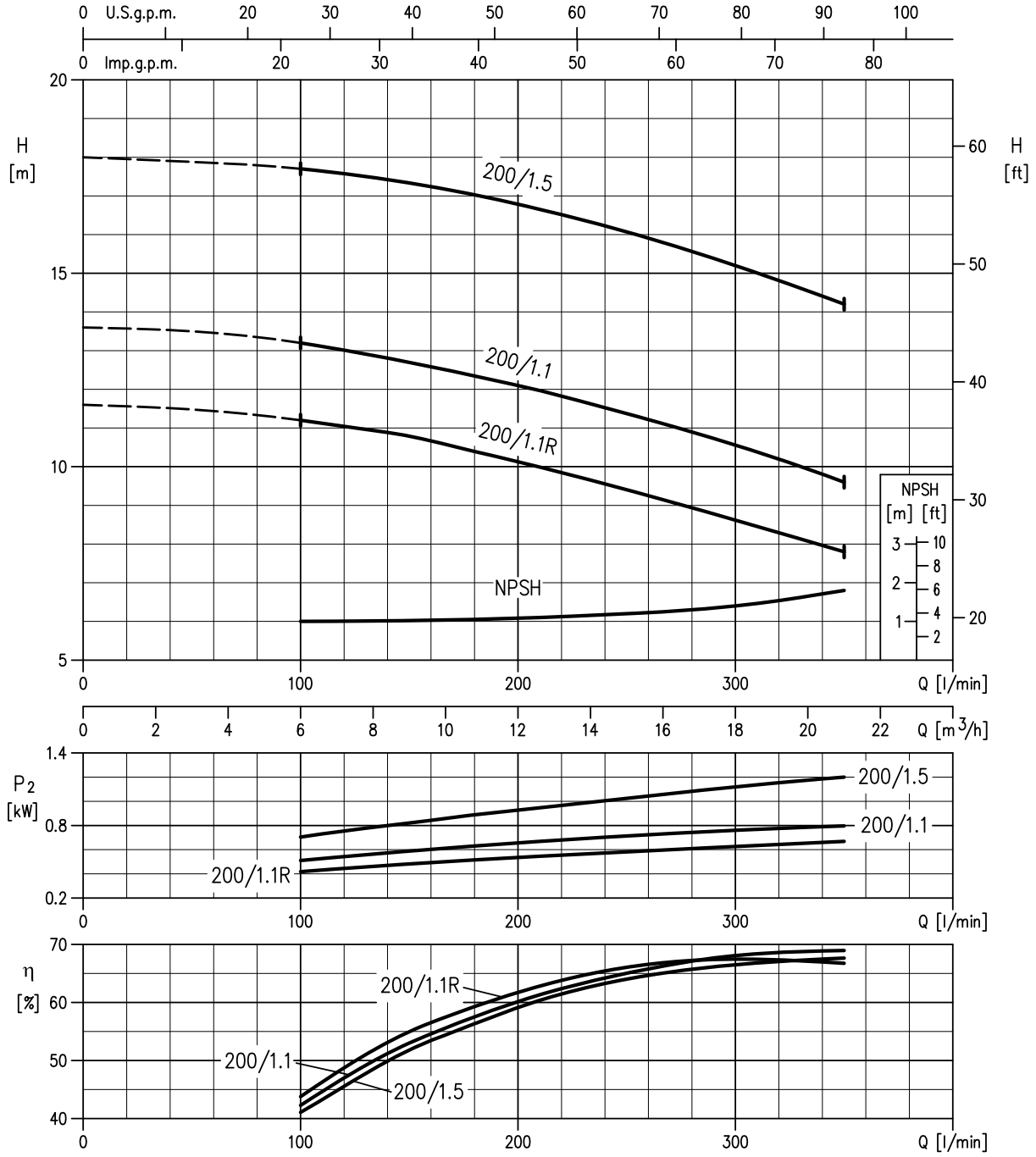
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

40-200/1.1R (1.1 kW) MEI > 0.70 – impeller diameter = 183 mm
40-200/1.1 (1.1 kW) MEI > 0.70 – impeller diameter = 200 mm
40-200/1.5 (1.5 kW) MEI > 0.70 – impeller diameter = 224 mm



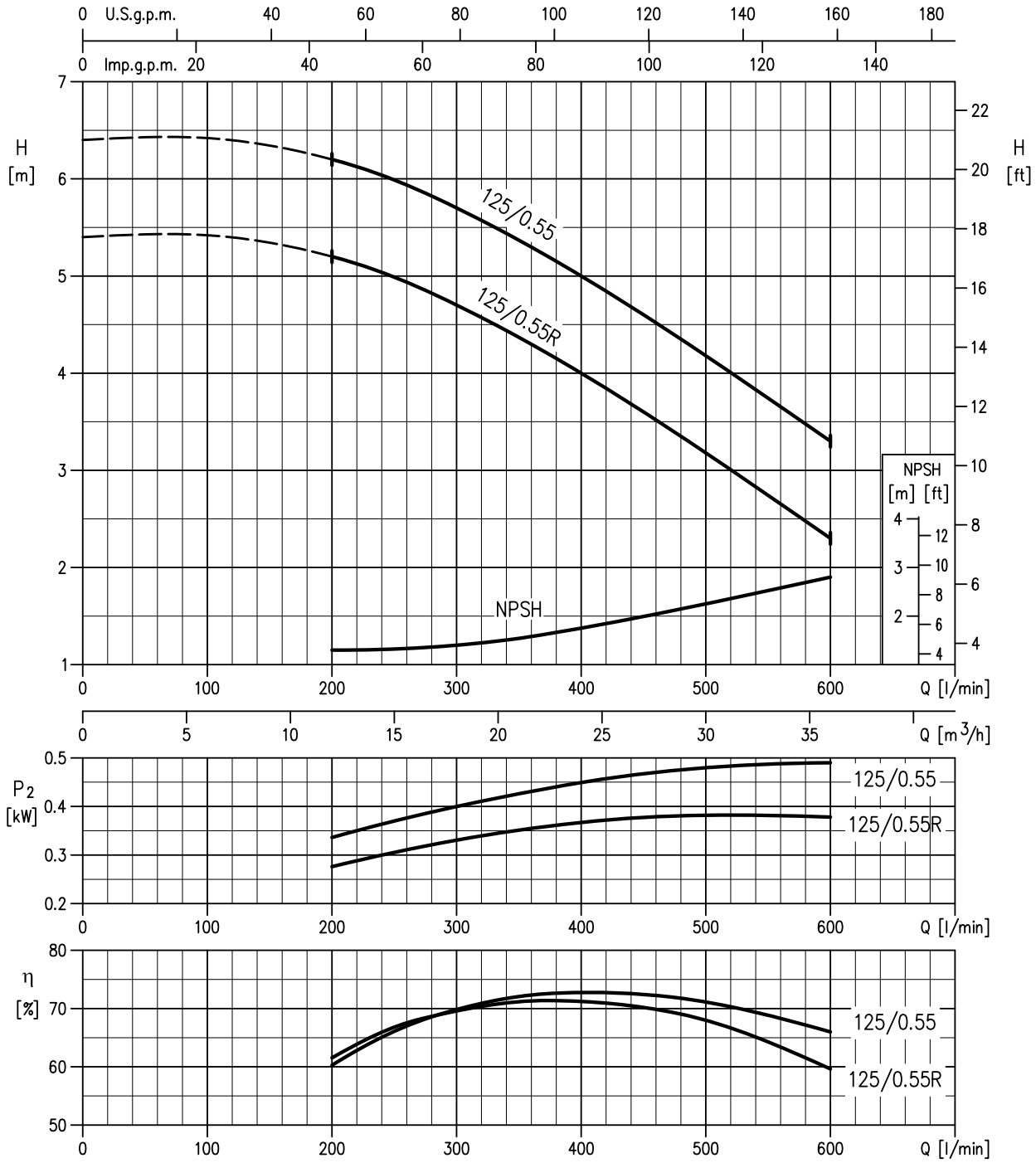
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

50-125/0.55R (0.55 kW) MEI > 0.40 – impeller diameter = 131 mm
50-125/0.55 (0.55 kW) MEI > 0.40 – impeller diameter = 140 mm



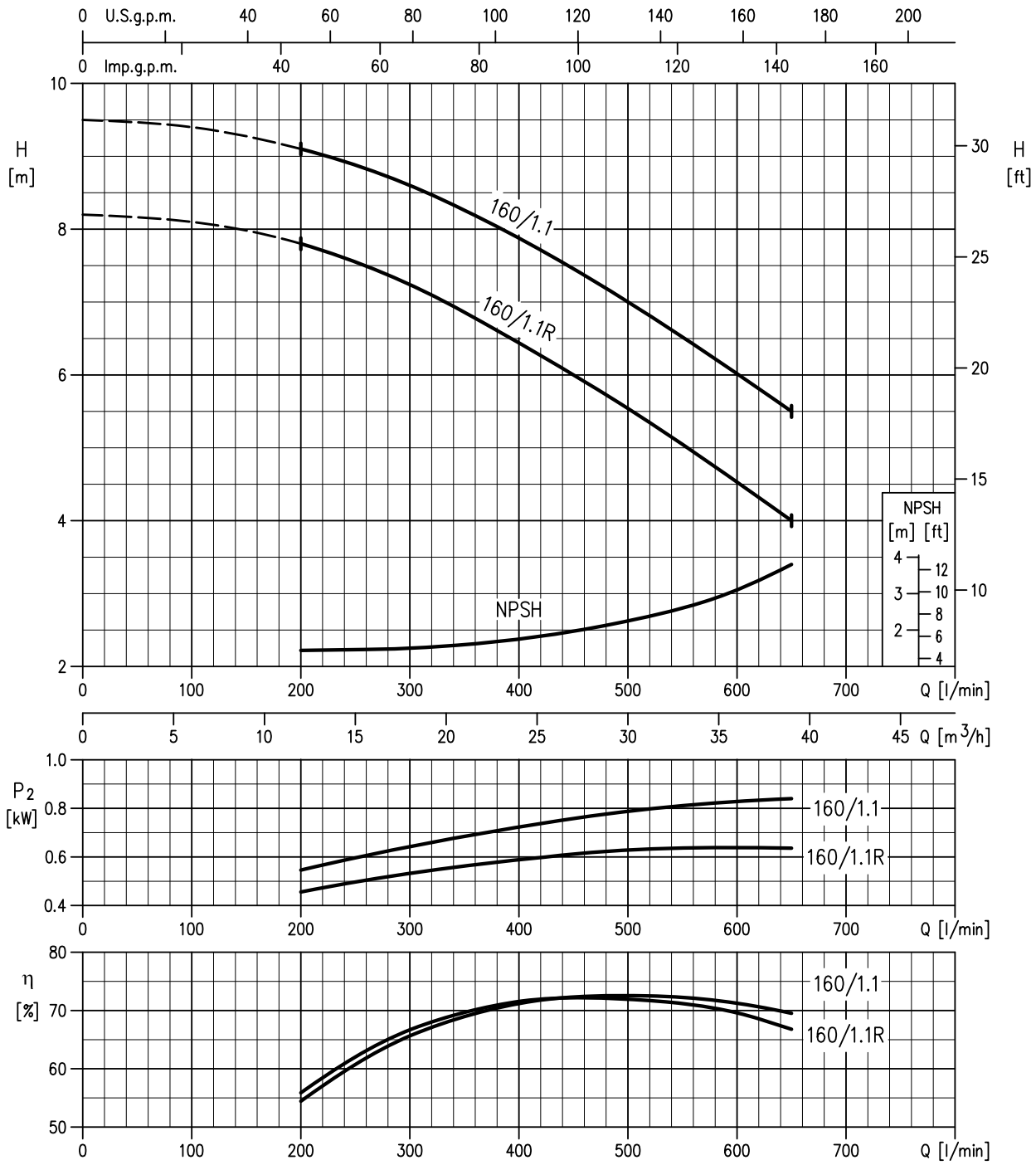
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

50-160/1.1R (1.1 kW) MEI > 0.40 – impeller diameter = 154 mm
50-160/1.1 (1.1 kW) MEI > 0.40 – impeller diameter = 166 mm



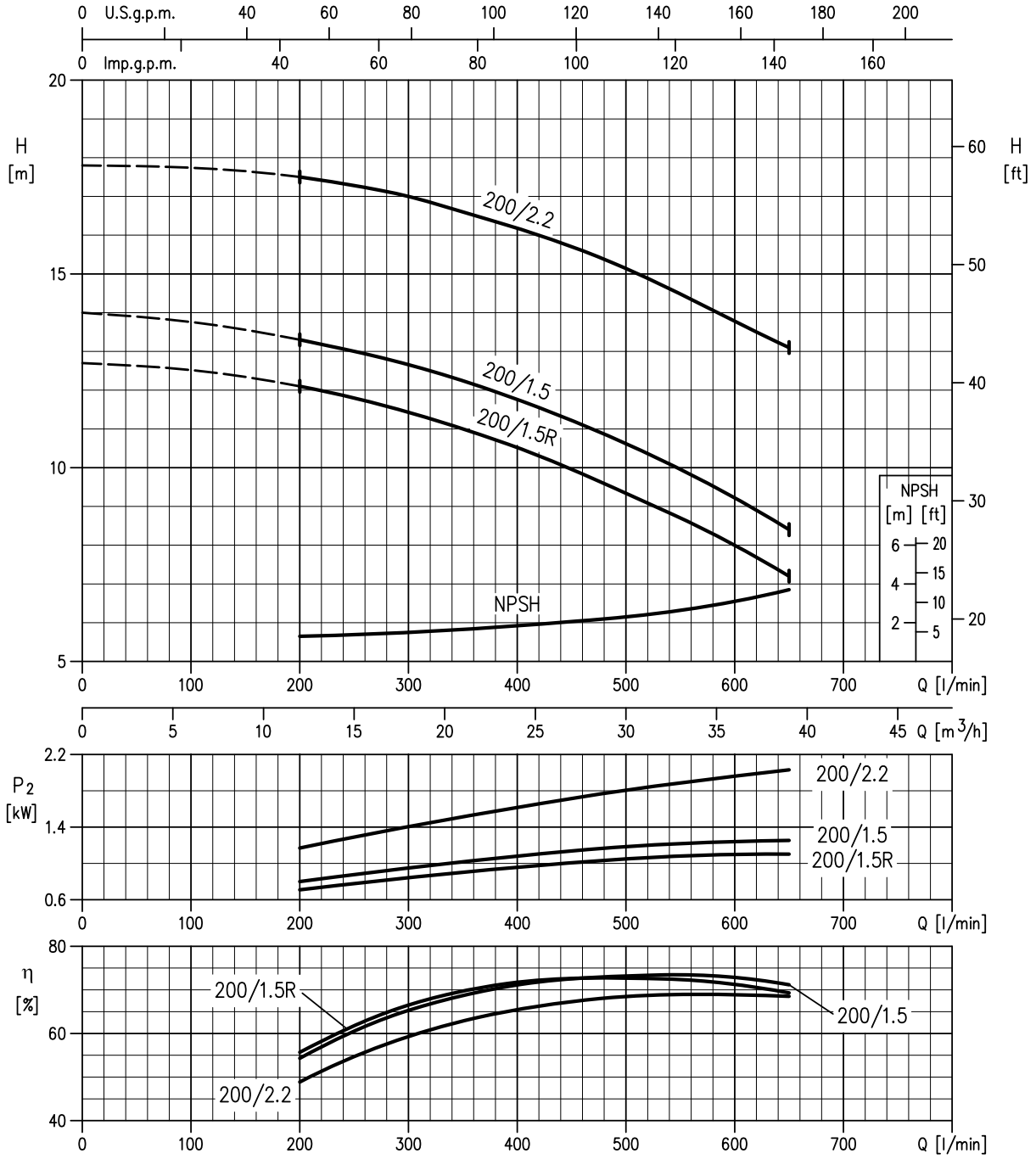
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

50-200/1.5R (1.5 kW) MEI > 0.60 – impeller diameter = 191 mm
50-200/1.5 (1.5 kW) MEI > 0.60 – impeller diameter = 200 mm
50-200/2.2 (2.2 kW) MEI > 0.60 – impeller diameter = 224 mm



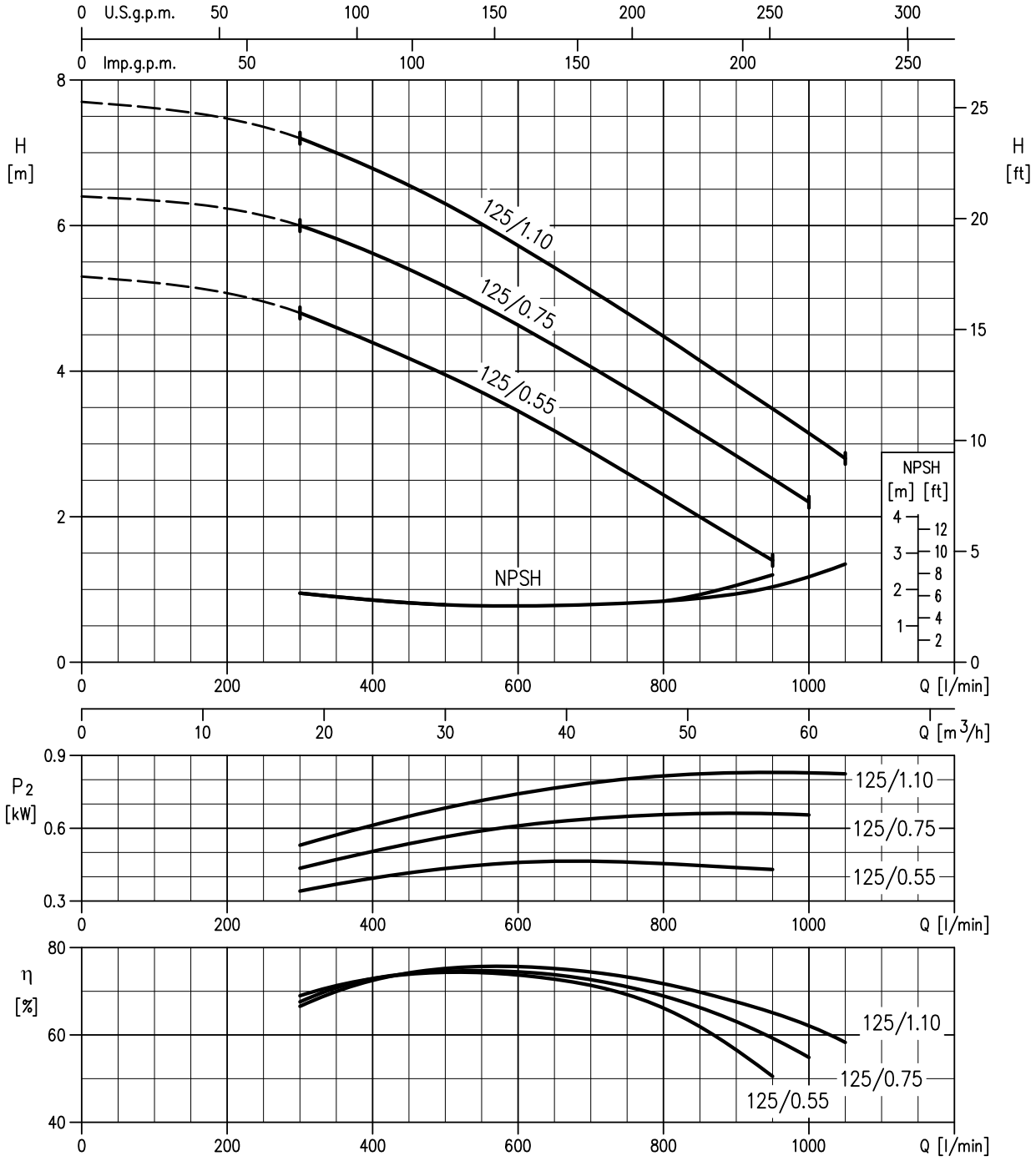
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

65-125/0.55 (0.55 kW) MEI > 0.50 – impeller diameter = 128 mm
65-125/0.75 (0.75 kW) MEI > 0.50 – impeller diameter = 138 mm
65-125/1.1 (1.1 kW) MEI > 0.50 – impeller diameter = 149 mm



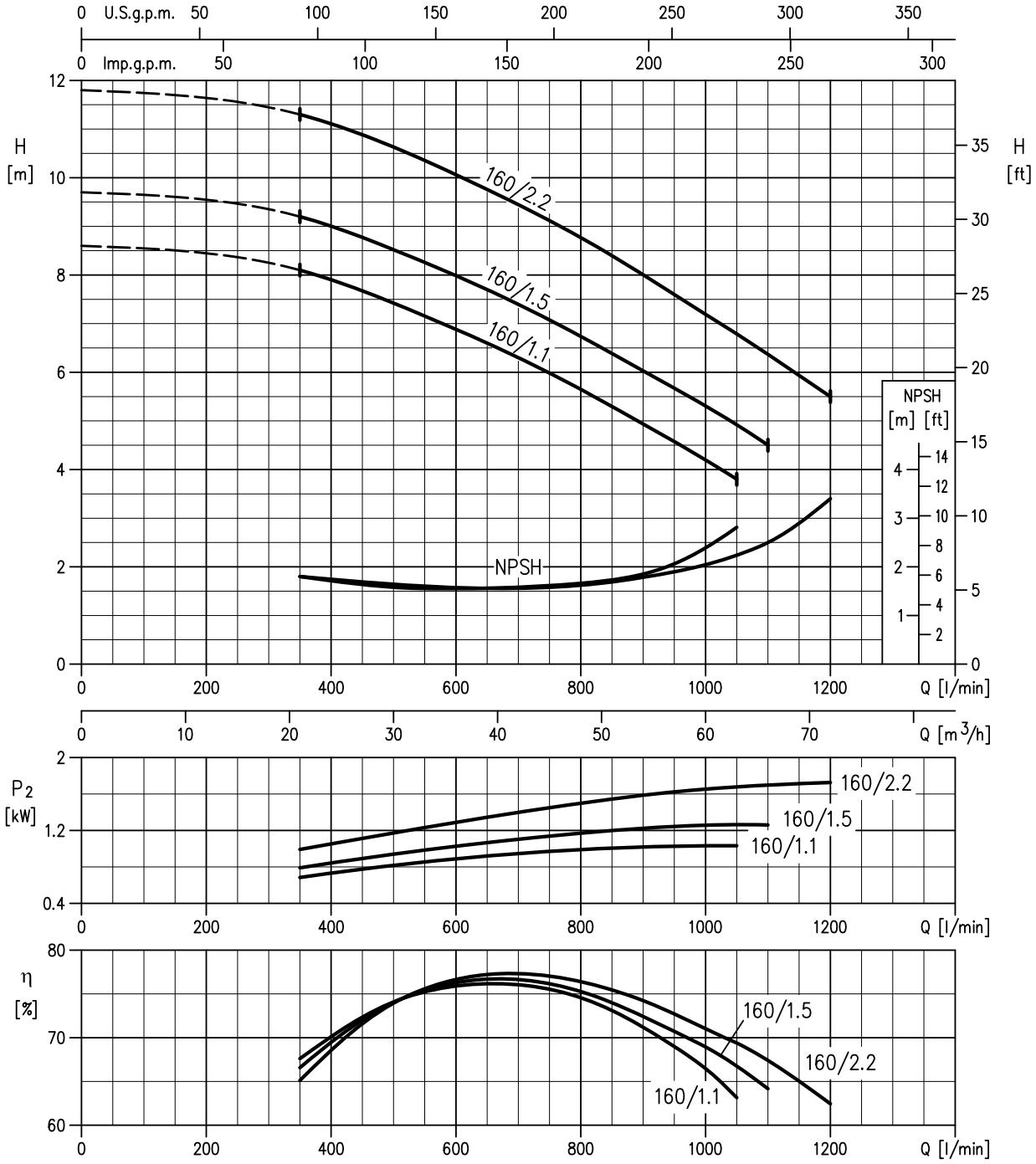
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

65-160/1.1 (1.1 kW) MEI > 0.70 – impeller diameter = 161 mm
65-160/1.5 (1.5 kW) MEI > 0.70 – impeller diameter = 168 mm
65-160/2.2 (2.2 kW) MEI > 0.70 – impeller diameter = 178 mm



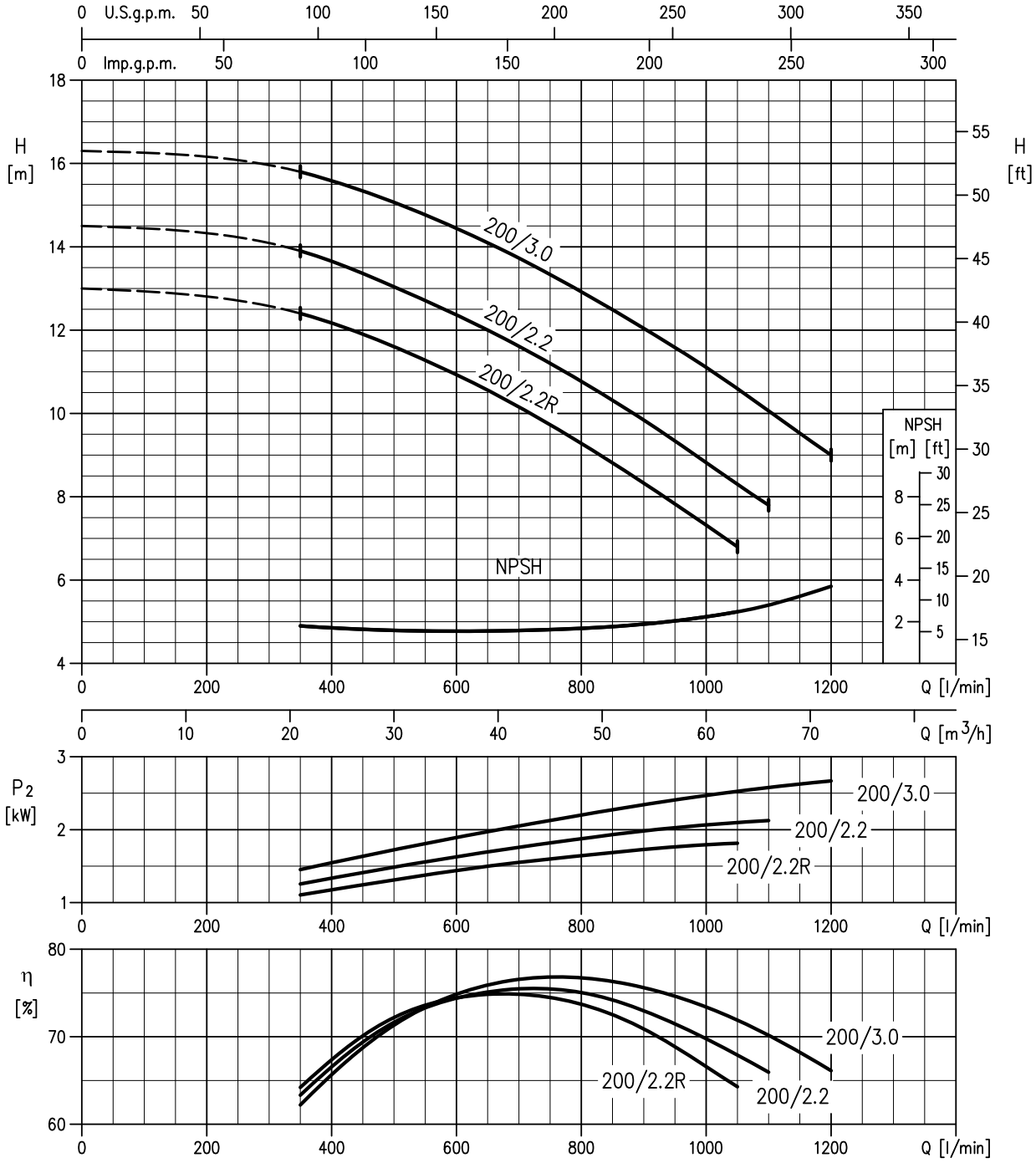
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

50Hz

Rev. B

65-200/2.2R (2.2 kW) MEI > 0.70 – impeller diameter = 190 mm
65-200/2.2 (2.2 kW) MEI > 0.70 – impeller diameter = 201 mm
65-200/3.0 (3.0 kW) MEI > 0.70 – impeller diameter = 212 mm



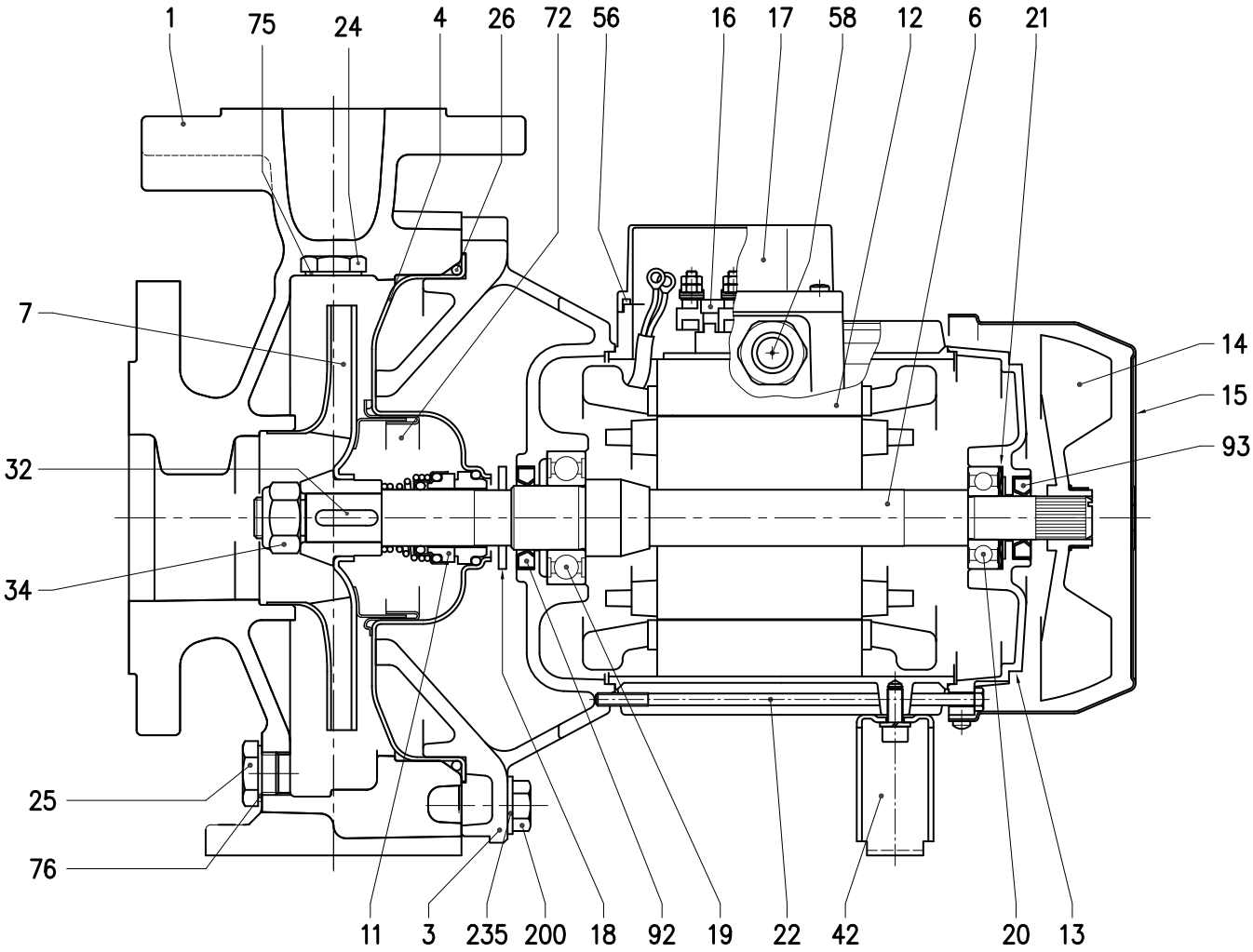
Rotation speed ≈ 1400 min^{-1}
Test standard: ISO 9906 – Annex A

CONSTRUCTION

50Hz

Rev. B

3D4 SECTIONAL VIEW DRAWING



CONSTRUCTION

50Hz

Rev. B

3D4 SECTIONAL VIEW TABLE

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing		Cast iron EN-GJL-250-EN 1561			1
003	Motor bracket		[1]			1
004	Casing cover		EN 1.4301 (AISI 304)			1
006	Shaft with rotor - Wet extension		EN 1.4301 (AISI 304)			1
007	Impeller		[2]			1
011	Mechanical seal		[3]	[3]		1
012	Motor frame with stator		-			1
013	Motor cover		Aluminium			1
014	Fan		PA			1
015	Fan cover		Fe P04 Galvanized			1
016	Terminal		-			1
017	Terminal box cover		Aluminium (three phase version)			1
018	Splash ring		NBR	40x21.5x2	EBARA DRAWING	1
019	Bearing		-	See table p. 307		1
020	Bearing		-	See table p. 307		1
021	Adjusting ring		Steel C70			1
022	Tie rod		Fe 42 Galvanized	M5	EBARA DRAWING	4
24	Priming plug		Brass	G 3/8" L=8		1
25	Draing plug		Brass	G 3/8" L=8		1
026	"O" ring	32-125, 40-125	NBR [4]	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125		183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200		227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)	A 6x6x25	UNI 6604	1
034	Impeller nut	Other models	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474	1
		50-200/2.2		M18x1.5		
042	Foot		Aluminium / Galvanized steel		EBARA DRAWING	1
056	Box gasket		NBR			1
058	Cable gland		-			1
072	Casing ring [5]		EN 1.4301 (AISI 304)			1
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer		Aluminum			1
092	Lip seal	Up to 1.5 kW	-	25x40x7	DIN 3760 without spring	1
		From 2.2 to 3 kW		30x47X7		
093	Lip seal	For 0.25 kW	-	15x30x5	DIN 3760 without spring	1
		For 0.37 kW and 0.55 kW		17x32x7		
		From 0.75 kW to 3 kW		25x40x7		
200	Screw	32-125 40-125	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30	UNI 5739	8
		32-160 40-160 50-125 65-125		M 10x35		10
		32-200, 40-200 50-160, 50-200 65-160, 65-200				12
235	Washer	32-125 40-125	Galvanized Steel	8.4x17	UNI 6592	8
		32-160 40-160 50-125 65-125		10.5x21		10
		32-200, 40-200 50-160, 50-200 65-160, 65-200				12

Counterflange kit on request see p. 311

[1] 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;

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

[3] For special version and dimensions see pag. 306

[4] FPM for H, HS, HW, HSW version;
EPDM for E version

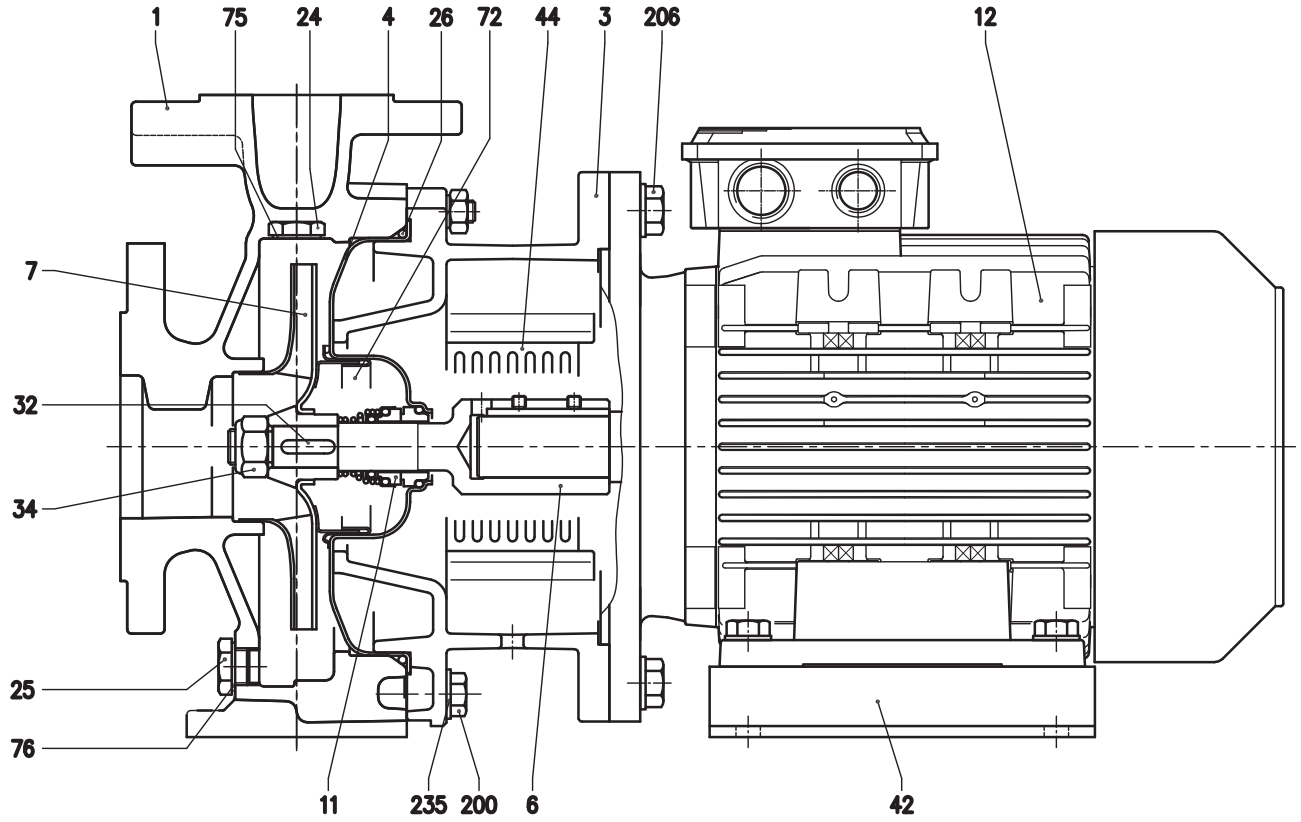
[5] Only for: 32-200, 40-200, 50-160, 50-200

CONSTRUCTION

50Hz

Rev. B

3DS4 SECTIONAL VIEW DRAWING



CONSTRUCTION

50Hz

Rev. B

3DS4 SECTIONAL VIEW TABLE

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing		Cast iron EN-GJL-200-EN 1561			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561			1
004	Casing cover		EN 1.4301 (AISI 304)			1
006	Coupling - Wet extensions		EN 1.4301 (AISI 304)	See table p. 309		1
007	Impeller		[1]			1
011	Mechanical seal		[2]	[2]		1
012	Motor		-			1
024	Priming plug		Brass	G 3/8" L=8		1
025	Draing plug		Brass	G 3/8" L=8		1
026	"O" ring	32-12540-125	NBR [3]	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125		183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200		227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
034	Impeller nut	Other models	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474	1
		50-200/2.2		M18x1.5		
042	Foot		Galvanized Steel			1
044	Protection		EN 1.4301 (AISI 304)		EBARA DRAWING	1
072	Casing ring [4]		EN 1.4301 (AISI 304)			1
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer		Aluminum			1
200	Screw	32-125 40-125	Galvanized Steel 8.8 strenght class ISO 898-1	M8x30	UNI 5739	8
		32-160 40-160 50-125 65-125		M10x35		10
		32-200, 40-200 50-160, 50-200 65-160, 65-200				12
206	Screw for bracket	up to 0.37 kW	Galvanized Steel 8.8 strenght class ISO 898-1	M8x20	UNI 5739	4
		from 0.55 kW to 1.5 kW		M10x25		
		for 2.2 kW and 3 kW		M12x30		
235	Washer	32-125 40-125	Galvanized Steel	8.4x17	UNI 6592	8
		32-160 40-160 50-125 65-125		10.5x21		10
		32-200, 40-200 50-160, 50-200 65-160, 65-200				12

Counterflange kit on request see p. 311

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

[2] See pag. 306

[3] FPM for H, HS, HW, HSW version;
EPDM for E version

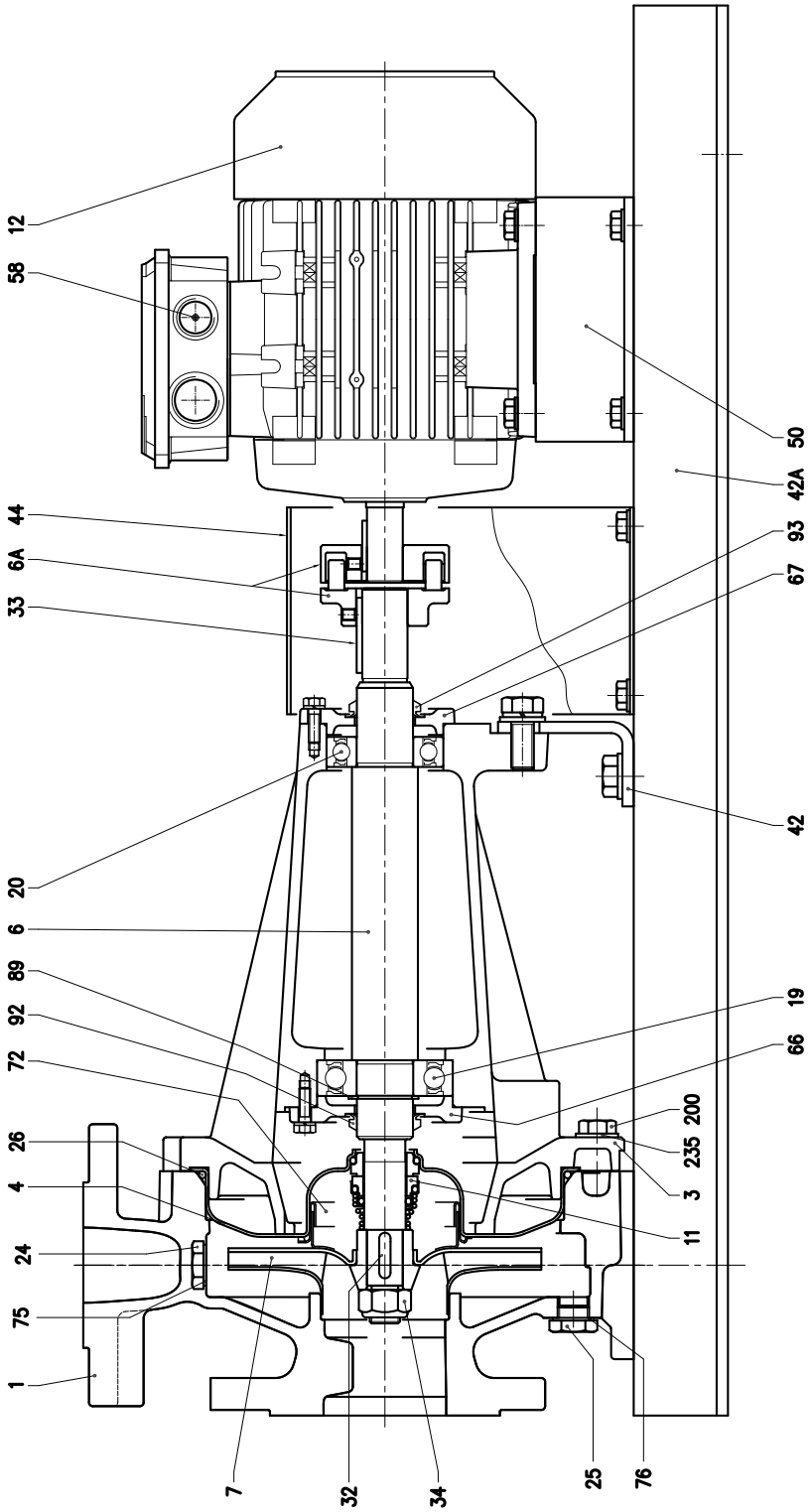
[4] Only for: 32-200, 40-200, 50-160, 50-200

CONSTRUCTION

50Hz

Rev. B

3DP4 SECTIONAL VIEW DRAWING



CONSTRUCTION

50Hz

Rev. B

3DP4 SECTIONAL VIEW TABLE

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing		Cast iron EN-GJL-200-EN 1561			1
003	Support		Cast iron EN-GJL-200-EN 1561			1
004	Casing cover		EN 1.4301 (AISI 304)			1
006	Shaft - Wet extension		EN 1.4301 (AISI 304)			1
006A	Flexible coupling		Cast iron EN-GJL-250-EN 1561	See table p. 310		1
007	Impeller		[1]			1
011	Mechanical seal		[2]	[2]		1
012	Motor		-			1
019	Bearing		-	See table p. 308		1
020	Bearing		-	See table p. 308		1
024	Priming plug		Brass	G 3/8" L=8	DIN 906	1
025	Draing plug		Brass	G 3/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [3]	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125		183.52x5.34	OR 6720	
		32-200, 40-200, 50-160, 50-200, 65-160, 65-200		227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)	6x6x25	UNI 6604	1
033	Key		C 40	8x7x40	UNI 6604	1
034	Impeller nut	Other models	EN 1.4301 (AISI 304)	M16x1.5	UNI 7474	1
		50-200/2.2		M18x1.5		
042	Pump support		Fe 37 Galvanized		EBARA DRAWING	1
042A	Base		Fe 37 Galvanized			1
044	Protection		Fe 37 Galvanized			1
050	Foot		Aluminium / Galvanized steel			1
058	Cable gland		-			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
072	Casing ring [4]		EN 1.4301 (AISI 304)			1
075	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
076	Washer		Aluminum	22x17x1.5	EBARA DRAWING	1
089	Snap ring	32-125, 32-160 40-125 50-125	Carbon tool steel TC 80	Ø30	UNI 7435	1
		Other models		Ø40		
092	"V" ring		-	VS - 0030		1
093	"V" ring		-	VS - 0030		1
200	Screw	32-125 40-125	Gv. Steel 8.8 strenght class ISO 898-1	M 8x30	UNI 5739	8
		32-160 40-160 50-125 65-125		M 10x35		10
		32-200, 40-200 50-160, 50-200 65-160, 65-200				12
235	Washer	32-125 40-125	Galvanized Steel	8.4x17	UNI 6592	8
		32-160 40-160 50-125 65-125		10.5x21		10
		32-200, 40-200 50-160, 50-200 65-160, 65-200				12

Counterflange kit on request see p. 311

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

[2] See pag. 306

[3] FPM for H, HS, HW, HSW version; EPDM for E version

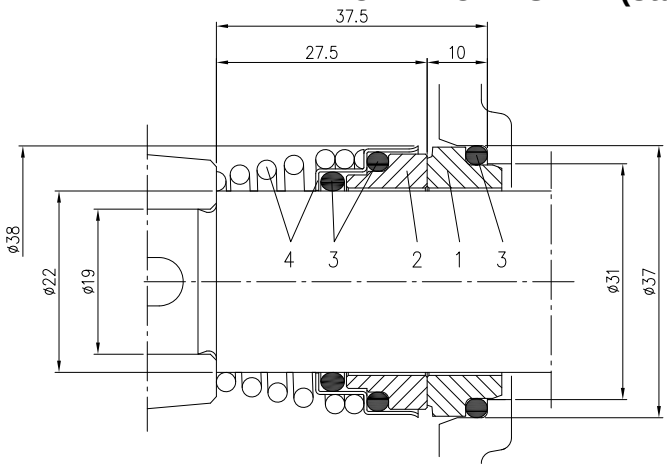
[4] Only for: 32-200, 40-200, 50-160, 50-200

CONSTRUCTION

50Hz

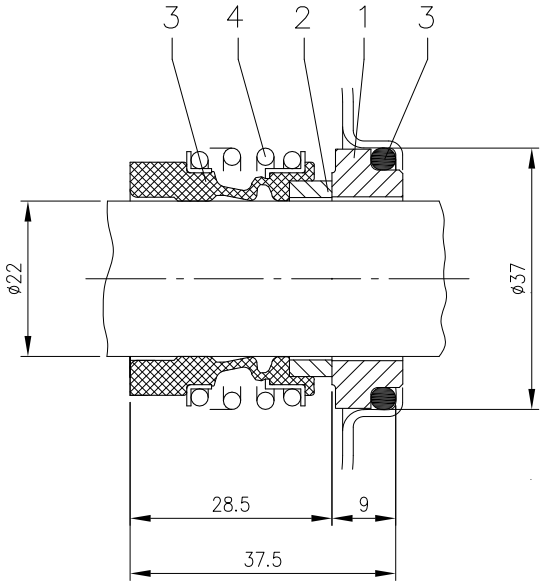
Rev. B

MECHANICAL SEAL (standard, H, and E version)



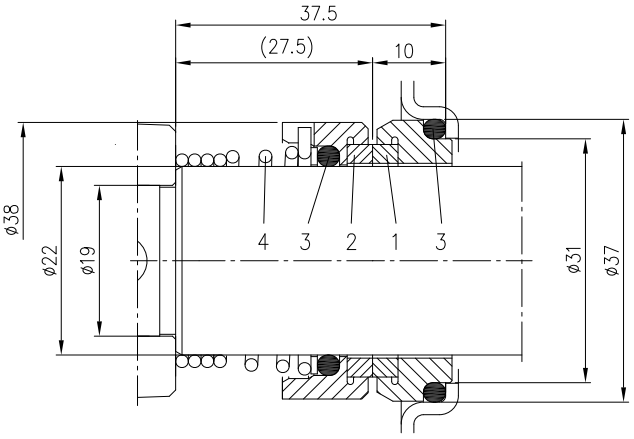
Version	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
H	Carbon	Ceramic	FPM	EN 1.4401 (AISI 316)
E	Carbon	Ceramic	EPDM	EN 1.4401 (AISI 316)

MECHANICAL SEAL (HS version)



Version	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HS	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

MECHANICAL SEAL (HW and HSW version)



Version	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HW	Tungsten Carbide	Tungsten Carbide	FPM	EN 1.4401 (AISI 316)
HSW	Tungsten Carbide	SiC	FPM	EN 1.4401 (AISI 316)

CONSTRUCTION

50Hz

Rev. B

3D4 – 3DS4 BEARINGS

3D4		
Pump type	Ball bearing	
	Pump side	Fan side
3D4 32-125/0.25	6205-2RSH C3	6202-2RSH
3D4 32-160/0.37R		6203-2RSH
3D4 32-160/0.37		
3D4 32-200/0.55R		
3D4 32-200/0.55		
3D4 32-200/0.75		6205-2RSH C3
3D4 40-125/0.37R	6205-2RSH C3	6202-2RSH
3D4 40-125/0.37		
3D4 40-160/0.55R		6203-2RSH
3D4 40-160/0.55		
3D4 40-200/1.1R		6205-2RSH C3
3D4 40-200/1.1		
3D4 40-200/1.5		
3D4 50-125/0.55R	6205-2RSH C3	6203-2RSH
3D4 50-125/0.55		
3D4 50-160/1.1R		6205-2RSH C3
3D4 50-160/1.1		
3D4 50-200/1.5R		
3D4 50-200/1.5		
3D4 50-200/2.2		
3D4 65-125/0.55	6205-2RSH C3	6203-2RSH
3D4 65-125/0.75		6205-2RSH C3
3D4 65-125/1.1		
3D4 65-160/1.1		
3D4 65-160/1.5		
3D4 65-160/2.2	3606-2RS1 C3	
3D4 65-200/2.2R		
3D4 65-200/2.2		
3D4 65-200/3.0		

3DS4		
Pump type	Ball bearing	
	Pump side	Fan side
3DS4 32-125/0.25	6203-2Z	6203-2Z
3DS4 32-160/0.37R		
3DS4 32-160/0.37		
3DS4 32-200/0.55R	6204-2Z C3	6204-2Z C3
3DS4 32-200/0.55		
3DS4 32-200/0.75		
3DS4 40-125/0.37R	6203-2Z	6203-2Z
3DS4 40-125/0.37		
3DS4 40-160/0.55R	6204-2Z C3	6204-2Z C3
3DS4 40-160/0.55		
3DS4 40-200/1.1R	6205-2Z C3	6205-2Z C3
3DS4 40-200/1.1		
3DS4 40-200/1.5		
3DS4 50-125/0.55R	6204-2Z C3	6204-2Z C3
3DS4 50-125/0.55		
3DS4 50-160/1.1R	6205-2Z C3	6205-2Z C3
3DS4 50-160/1.1		
3DS4 50-200/1.5R		
3DS4 50-200/1.5		
3DS4 50-200/2.2	6206-2Z C3	6206-2Z C3
3DS4 65-125/0.55	6204-2Z C3	6204-2Z C3
3DS4 65-125/0.75		
3DS4 65-125/1.1	6205-2Z C3	6205-2Z C3
3DS4 65-160/1.1		
3DS4 65-160/1.5		
3DS4 65-160/2.2	6206-2Z C3	6206-2Z C3
3DS4 65-200/2.2R		
3DS4 65-200/2.2		
3DS4 65-200/3.0		

CONSTRUCTION

50Hz

Rev. B

3DP4 BEARINGS

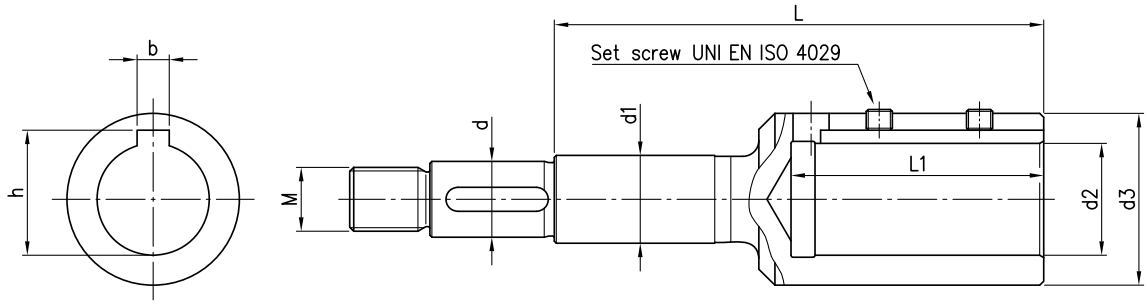
3DP4					
Pump type		Ball bearing			
		Pump		Motor	
		Pump side	Motor side	Pump side	Fan side
3DP4	32-125/0.25	6306-2RS1 C3	6206-2RS1 C3	6203-2Z	6203-2Z
3DP4	32-160/0.37R				
3DP4	32-160/0.37				
3DP4	32-200/0.55R	6308-2RS1 C3	6306-2RS1 C3	6204-2Z C3	6204-2Z C3
3DP4	32-200/0.55				
3DP4	32-200/0.75				
3DP4	40-125/0.37R	6306-2RS1 C3	6206-2RS1 C3	6203-2Z	6203-2Z
3DP4	40-125/0.37				
3DP4	40-160/0.55R			6204-2Z C3	6204-2Z C3
3DP4	40-160/0.55				
3DP4	40-200/1.1R	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3DP4	40-200/1.1				
3DP4	40-200/1.5				
3DP4	50-125/0.55R	6306-2RS1 C3	6206-2RS1 C3	6204-2Z C3	6204-2Z C3
3DP4	50-125/0.55				
3DP4	50-160/1.1R	6308-2RS1 C3	6306-2RS1 C3	6205-2Z C3	6205-2Z C3
3DP4	50-160/1.1				
3DP4	50-200/1.5R				
3DP4	50-200/1.5				
3DP4	50-200/2.2			6206-2Z C3	6206-2Z C3
3DP4	65-125/0.55	6306-2RS1 C3	6206-2RS1 C3	6204-2Z C3	6204-2Z C3
3DP4	65-125/0.75				
3DP4	65-125/1.1			6205-2Z C3	6205-2Z C3
3DP4	65-160/1.1	6308-2RS1 C3	6306-2RS1 C3		
3DP4	65-160/1.5				
3DP4	65-160/2.2			6206-2Z C3	6206-2Z C3
3DP4	65-200/2.2R				
3DP4	65-200/2.2				
3DP4	65-200/3				

CONSTRUCTION

50Hz

Rev. B

3DS4 COUPLING



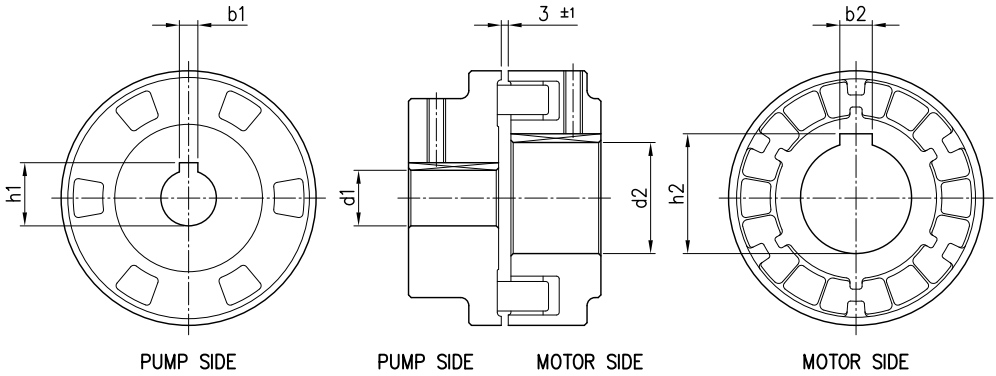
Pump type	[kW]	[HP]	Motor Size	Dimensions [mm]									
				d	d1	d2	d3	M	L	L1	b	h	Set screw
32-125/0.25	0.25	0.33	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37R	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37	0.37	0.5	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-200/0.55R	0.55	0.75	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

CONSTRUCTION

50Hz

Rev. B

3DP4 FLEXIBLE COUPLING



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

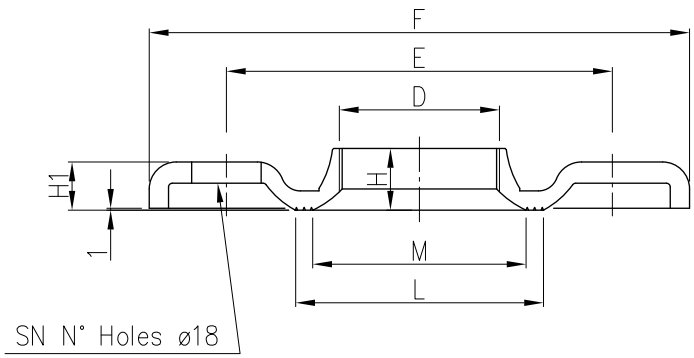
CONSTRUCTION

50Hz

Rev. B

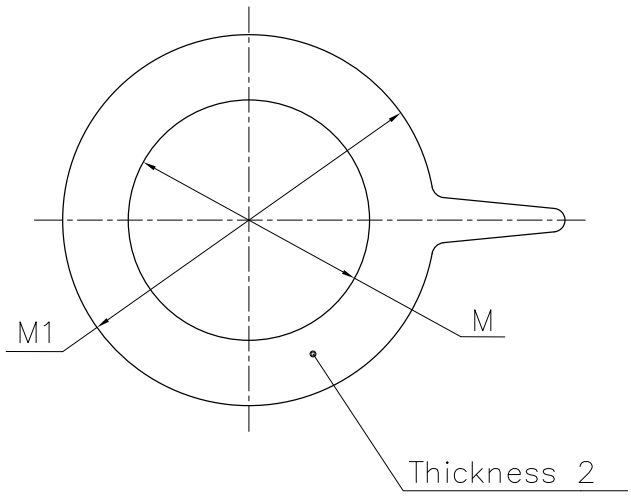
FITTINGS

COUNTERFLANGES GALVANIZED STEEL



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

GASKETS



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

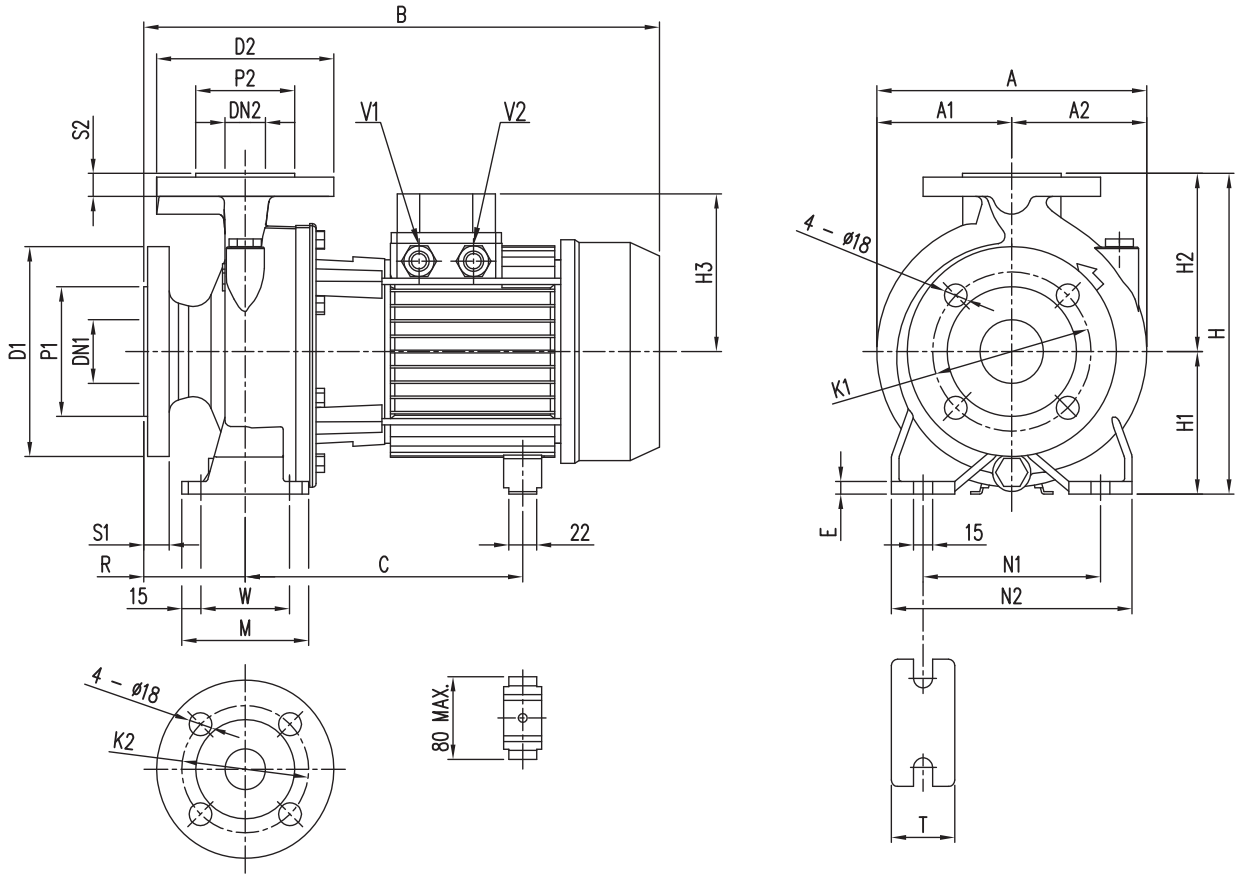
Material: EPDM for standard version
FPM for hot water version

DIMENSIONS AND WEIGHT

50Hz

Rev. B

PUMP 3D4



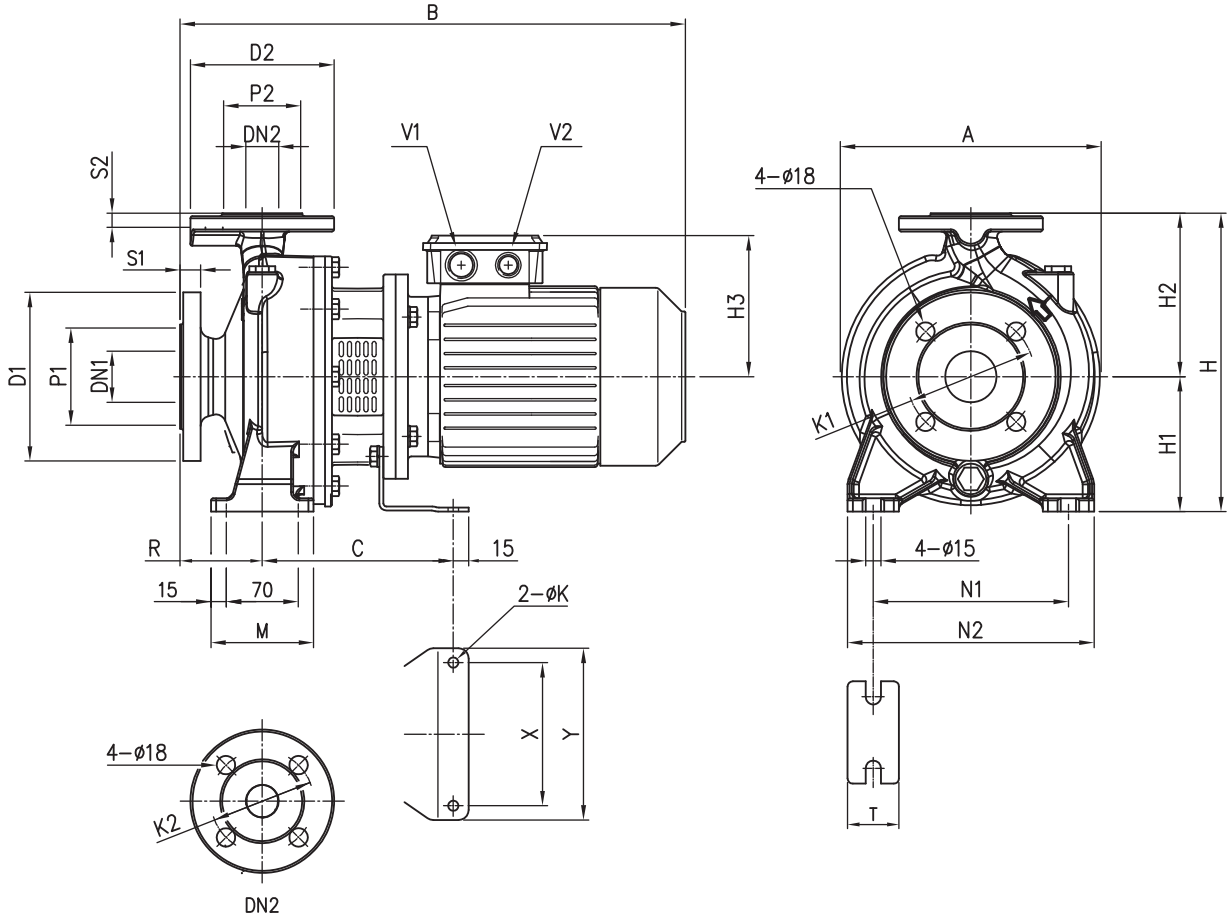
Pump type	Dimensions [mm]																											Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	W	M	N1	N2	T	E	A	A1	A2	B	C	V2	
32-125/0.25	50	102	125	165	20	32	78	100	140	18	252	112	140	102	80	70	100	140	190	50	10	213	106.5	106.5	371	205	PG 11	23.9
32-160/0.37R	50	102	125	165	20	32	78	100	140	18	292	132	160	119	80	70	100	190	240	50	10	254	127	127	393	219	PG 11	31.1
32-160/0.37	50	102	125	165	20	32	78	100	140	18	292	132	160	119	80	70	100	190	240	50	10	254	127	127	393	219	PG 11	31.3
32-200/0.55R	50	102	125	165	20	32	78	100	140	18	340	160	180	119	80	70	100	190	240	50	10	296	148	148	393	219	PG 11	35.9
32-200/0.55	50	102	125	165	20	32	78	100	140	18	340	160	180	119	80	70	100	190	240	50	10	296	148	148	393	219	PG 11	35.9
32-200/0.75	50	102	125	165	20	32	78	100	140	18	340	160	180	124	80	70	100	190	240	50	10	296	148	148	432	244÷255	PG 13.5	39.5
40-125/0.37R	65	122	145	185	20	40	88	110	150	18	252	112	140	102	80	70	100	160	210	50	10	213	108	112	371	205	PG 11	24.7
40-125/0.37	65	122	145	185	20	40	88	110	150	18	252	112	140	102	80	70	100	160	210	50	10	213	108	112	371	205	PG 11	24.8
40-160/0.55R	65	122	145	185	20	40	88	110	150	18	292	132	160	119	80	70	100	190	240	50	12	254	127	127	393	219	PG 11	32.3
40-160/0.55	65	122	145	185	20	40	88	110	150	18	292	132	160	119	80	70	100	190	240	50	12	254	127	127	393	219	PG 11	32.7
40-200/1.1R	65	122	145	185	20	40	88	110	150	18	340	160	180	124	100	70	100	212	265	50	12	296	148	148	452	244÷255	PG 13.5	41.2
40-200/1.1	65	122	145	185	20	40	88	110	150	18	340	160	180	124	100	70	100	212	265	50	12	296	148	148	452	244÷255	PG 13.5	41.3
40-200/1.5	65	122	145	185	20	40	88	110	150	18	340	160	180	124	100	70	100	212	265	50	12	296	148	148	491	244÷255	PG 13.5	43.0
50-125/0.55R	65	122	145	185	20	50	102	125	165	20	292	132	160	119	100	70	100	190	240	50	10	254	127	127	413	219	PG 11	32.7
50-125/0.55	65	122	145	185	20	50	102	125	165	20	292	132	160	119	100	70	100	190	240	50	10	254	127	127	413	219	PG 11	32.8
50-160/1.1R	65	122	145	185	20	50	102	125	165	20	340	160	180	124	100	70	100	212	265	50	10	296	148	148	452	244÷255	PG 13.5	42.2
50-160/1.1	65	122	145	185	20	50	102	125	165	20	340	160	180	124	100	70	100	212	265	50	10	296	148	148	452	244÷255	PG 13.5	42.3
50-200/1.5R	65	122	145	185	20	50	102	125	165	20	360	160	200	124	100	70	100	212	265	50	10	296	148	148	491	244÷255	PG 13.5	43.4
50-200/1.5	65	122	145	185	20	50	102	125	165	20	360	160	200	124	100	70	100	212	265	50	10	296	148	148	491	244÷255	PG 13.5	44.5
50-200/2.2	65	122	145	185	20	50	102	125	165	20	360	160	200	141	100	70	100	212	265	50	10	296	148	148	474	253	PG 16	42.9
65-125/0.55	80	138	160	200	22	65	122	145	185	20	340	160	180	119	100	95	125	212	280	65	12	263	127	136	413	219	PG 11	37.2
65-125/0.75	80	138	160	200	22	65	122	145	185	20	340	160	180	124	100	95	125	212	280	65	12	263	127	136	452	244÷255	PG 13.5	35.3
65-125/1.1	80	138	160	200	22	65	122	145	185	20	340	160	180	124	100	95	125	212	280	65	12	263	127	136	452	244÷255	PG 13.5	35.3
65-160/1.1	80	138	160	200	22	65	122	145	185	20	360	160	200	124	100	95	125	212	280	65	12	296	148	148	452	244÷255	PG 13.5	44.6
65-160/1.5	80	138	160	200	22	65	122	145	185	20	360	160	200	124	100	95	125	212	280	65	12	296	148	148	491	244÷255	PG 13.5	46.1
65-160/2.2	80	138	160	200	22	65	122	145	185	20	360	160	200	141	100	95	125	212	280	65	12	296	148	148	474	253	PG 16	48.1
65-200/2.2R	80	138	160	200	22	65	122	145	185	20	405	180	225	141	100	95	125	250	320	65	12	312	154.5	157.5	474	253	PG 16	46.5
65-200/2.2	80	138	160	200	22	65	122	145	185	20	405	180	225	141	100	95	125	250	320	65	12	312	154.5	157.5	474	253	PG 16	46.5
65-200/3	80	138	160	200	22	65	122	145	185	20	405	180	225	141	100	95	125	250	320	65	12	312	154.5	157.5	514	253	PG 16	54.5

DIMENSIONS AND WEIGHT

50Hz

Rev. B

PUMP 3DS4 32, 40, 50, 65



Pump type	Dimensions [mm]																												Weight [kgf]	
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	W	M	N1	N2	T	A	B	C	X	Y	K	V1	V2		(*)
32-125/0.25	50	102	125	165	20	32	78	100	140	18	252	112	140	114	80	70	100	140	190	50	213	404	153	112	140	8	M20x1.5	M16x1.5	24.3	-
32-160/0.37R	50	102	125	165	20	32	78	100	140	18	292	132	160	114	80	70	100	190	240	50	254	404	153	112	140	8	M20x1.5	M16x1.5	29.9	-
32-160/0.37	50	102	125	165	20	32	78	100	140	18	292	132	160	114	80	70	100	190	240	50	254	404	153	112	140	8	M20x1.5	M16x1.5	30.1	-
32-200/0.55R	50	102	125	165	20	32	78	100	140	18	340	160	180	139	80	70	100	190	240	50	296	430	174	140	168	10	M25x1.5	M20x1.5	39.4	-
32-200/0.55	50	102	125	165	20	32	78	100	140	18	340	160	180	139	80	70	100	190	240	50	296	430	174	140	168	10	M25x1.5	M20x1.5	44.4	-
32-200/0.75	50	102	125	165	20	32	78	100	140	18	340	160	180	139	80	70	100	190	240	50	296	430	174	140	168	10	M25x1.5	M20x1.5	40.9	40.9
40-125/0.37R	65	122	145	185	20	40	88	110	150	18	252	112	140	114	80	70	100	160	210	50	220	404	153	112	140	8	M20x1.5	M16x1.5	25.3	-
40-125/0.37	65	122	145	185	20	40	88	110	150	18	252	112	140	114	80	70	100	160	210	50	220	404	153	112	140	8	M20x1.5	M16x1.5	25.3	-
40-160/0.55R	65	122	145	185	20	40	88	110	150	18	292	132	160	139	80	70	100	190	240	50	254	430	174	140	168	10	M25x1.5	M20x1.5	35.6	-
40-160/0.55	65	122	145	185	20	40	88	110	150	18	292	132	160	139	80	70	100	190	240	50	254	430	174	140	168	10	M25x1.5	M20x1.5	35.6	-
40-200/1.1R	65	122	145	185	20	40	88	110	150	18	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47	49.2
40-200/1.1	65	122	145	185	20	40	88	110	150	18	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47	49.2
40-200/1.5	65	122	145	185	20	40	88	110	150	18	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	48.2	50.8
50-125/0.55R	65	122	145	185	20	50	102	125	165	20	292	132	160	139	100	70	100	190	240	50	254	450	174	140	168	10	M25x1.5	M20x1.5	36	-
50-125/0.55	65	122	145	185	20	50	102	125	165	20	292	132	160	139	100	70	100	190	240	50	254	450	174	140	168	10	M25x1.5	M20x1.5	36	-
50-160/1.1R	65	122	145	185	20	50	102	125	165	20	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47.6	49.8
50-160/1.1	65	122	145	185	20	50	102	125	165	20	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47.6	49.8
50-200/1.5R	65	122	145	185	20	50	102	125	165	20	360	160	200	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	50	52.6
50-200/1.5	65	122	145	185	20	50	102	125	165	20	360	160	200	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	50	52.6
65-125/0.55	80	138	160	200	22	65	122	145	185	20	340	160	180	139	100	95	125	212	280	65	263	450	174	140	168	10	M25x1.5	M20x1.5	36.8	-
65-125/0.75	80	138	160	200	22	65	122	145	185	20	340	160	180	139	100	95	125	212	280	65	263	450	174	140	168	10	M25x1.5	M20x1.5	45.3	45.3
65-125/1.1	80	138	160	200	22	65	122	145	185	20	340	160	180	148	100	95	125	212	280	65	263	497	186	140	168	10	M25x1.5	M20x1.5	45.3	47.5
65-160/1.1	80	138	160	200	22	65	122	145	185	20	360	160	200	148	100	95	125	212	280	65	296	497	186	140	168	10	M25x1.5	M20x1.5	47.1	49.3
65-160/1.5	80	138	160	200	22	65	122	145	185	20	360	160	200	148	100	95	125	212	280	65	296	497	186	140	168	10	M25x1.5	M20x1.5	59.1	61.7

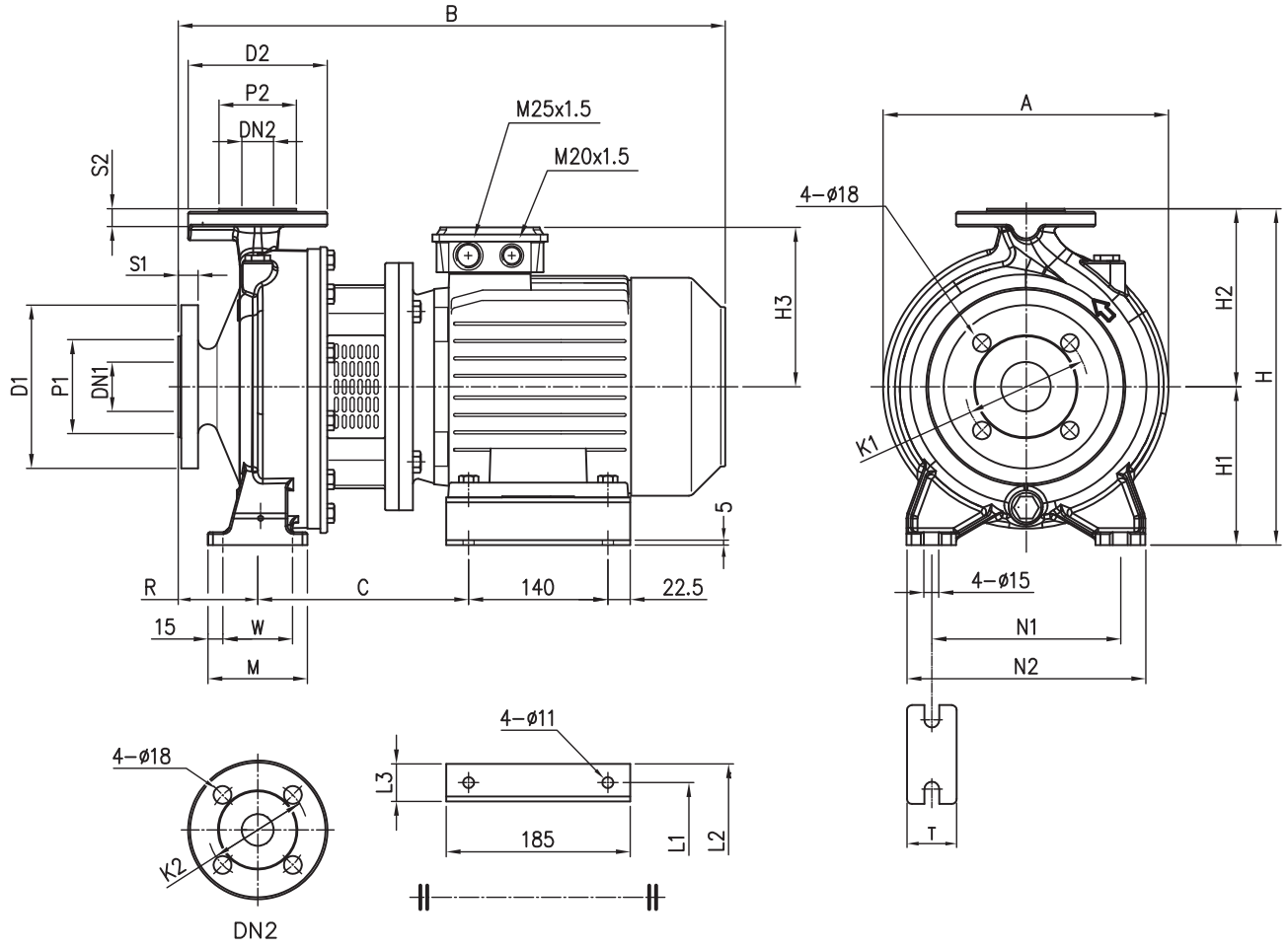
(*) Only for IE3 Motors

DIMENSIONS AND WEIGHT

50Hz

Rev. B

PUMP 3DS4 50,65



Pump type	Dimensions [mm]																				Weight [kgf]	
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	R	W	M	A	N1	N2	T		(*)
50-200/2.2	65	122	145	185	20	50	102	125	165	20	360	160	200	100	70	100	296	212	265	50	55.9	56.3
65-160/2.2	80	138	160	200	22	65	122	145	185	20	360	160	200	100	95	125	296	212	280	65	62.1	62.5
65-200/2.2R	80	138	160	200	22	65	122	145	185	20	405	180	225	100	95	125	312	250	320	65	59	59.4
65-200/2.2	80	138	160	200	22	65	122	145	185	20	405	180	225	100	95	125	312	250	320	65	59.5	59.9
65-200/3	80	138	160	200	22	65	122	145	185	20	405	180	225	100	95	125	312	250	320	65	65	65

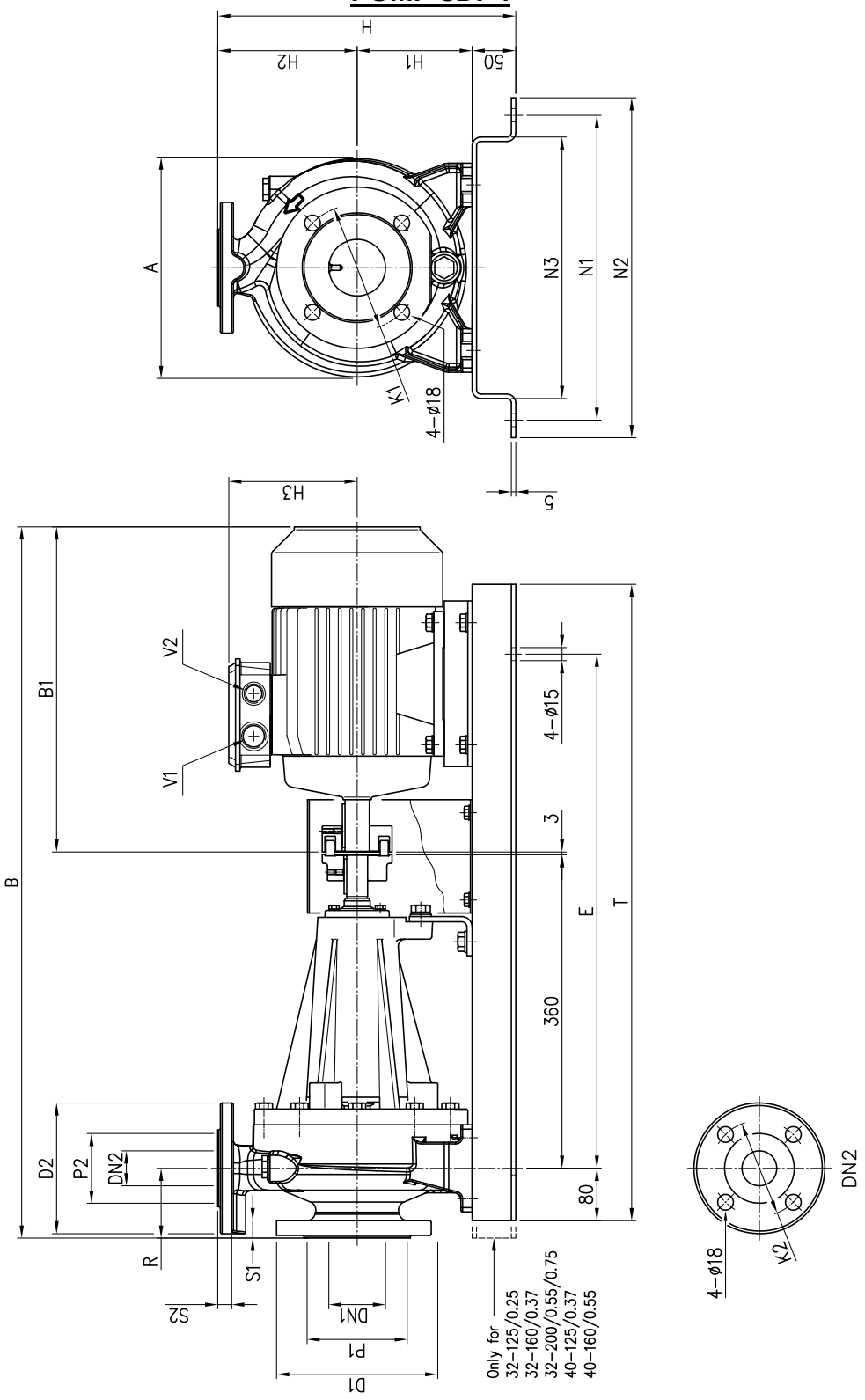
(*) Only for IE3 Motors

DIMENSIONS AND WEIGHT

50Hz

Rev. B

PUMP 3DP4



DIMENSIONS AND WEIGHT

50Hz

Rev. B

Pump type	Dimensions [mm]																								Weight [kgf]	
	Ø DN1	Ø P1	Ø K1	Ø D1	Ø S1	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	A	B	B1	E	N1	N2	N3	T	V1	V2	
32-125/0.25	50	102	125	165	20	32	78	100	140	18	302	112	140	114	80	213	689	246	550	300	340	250	710	M20X1.5	M16X1.5	45.9	-
32-160/0.37R	50	102	125	165	20	32	78	100	140	18	342	132	160	114	80	254	689	246	510	350	390	300	670	M20X1.5	M16X1.5	52.4	-
32-160/0.37	50	102	125	165	20	32	78	100	140	18	342	132	160	114	80	254	689	246	510	350	390	300	670	M20X1.5	M16X1.5	52.4	-
32-200/0.55R	50	102	125	165	20	32	78	100	140	18	390	160	180	139	80	296	715	272	510	350	390	300	670	M25X1.5	M20X1.5	64.9	-
32-200/0.55	50	102	125	165	20	32	78	100	140	18	390	160	180	139	80	296	715	272	510	350	390	300	670	M25X1.5	M20X1.5	64.9	-
32-200/0.75	50	102	125	165	20	32	78	100	140	18	390	160	180	139	80	296	715	272	510	350	390	300	670	M25X1.5	M20X1.5	65.9	65.9
40-125/0.37R	65	122	145	185	20	40	88	110	150	18	302	112	140	114	80	220	689	246	550	300	340	250	710	M20X1.5	M16X1.5	55.6	-
40-125/0.37	65	122	145	185	20	40	88	110	150	18	302	112	140	114	80	220	689	246	550	300	340	250	710	M20X1.5	M16X1.5	55.6	-
40-160/0.55R	65	122	145	185	20	40	88	110	150	18	342	132	160	139	80	254	715	272	510	350	390	300	670	M25X1.5	M20X1.5	56.6	-
40-160/0.55	65	122	145	185	20	40	88	110	150	18	342	132	160	139	80	254	715	272	510	350	390	300	670	M25X1.5	M20X1.5	56.6	-
40-200/1.1R	65	122	145	185	20	40	88	110	150	18	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	74.2	76.4
40-200/1.1	65	122	145	185	20	40	88	110	150	18	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	74.2	76.4
40-200/1.5	65	122	145	185	20	40	88	110	150	18	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	76.7	79.3
50-125/0.55R	65	122	145	185	20	50	102	125	165	20	342	132	160	139	100	254	735	272	510	350	390	300	670	M25X1.5	M20X1.5	57.3	-
50-125/0.55	65	122	145	185	20	50	102	125	165	20	342	132	160	139	100	254	735	272	510	350	390	300	670	M25X1.5	M20X1.5	57.3	-
50-160/1.1R	65	122	145	185	20	50	102	125	165	20	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	66.1	68.3
50-160/1.1	65	122	145	185	20	50	102	125	165	20	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	66.1	68.3
50-200/1.5R	65	122	145	185	20	50	102	125	165	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	76.9	79.5
50-200/1.5	65	122	145	185	20	50	102	125	165	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	76.9	79.5
50-200/2.2	65	122	145	185	20	50	102	125	165	20	410	160	200	155	100	296	829	366	590	350	390	300	750	M25X1.5	M20X1.5	82.9	83.3
65-125/0.55	80	138	160	200	22	65	122	145	185	20	390	160	180	139	100	263	735	272	510	350	390	300	670	M25X1.5	M20X1.5	63.8	-
65-125/0.75	80	138	160	200	22	65	122	145	185	20	390	160	180	139	100	263	735	272	510	350	390	300	670	M25X1.5	M20X1.5	63.8	63.8
65-125/1.1	80	138	160	200	22	65	122	145	185	20	390	160	180	148	100	263	780	317	590	350	390	300	750	M25X1.5	M20X1.5	71.3	73.5
65-160/1.1	80	138	160	200	22	65	122	145	185	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	78.6	80.8
65-160/1.5	80	138	160	200	22	65	122	145	185	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	79.6	82.2
65-160/2.2	80	138	160	200	22	65	122	145	185	20	410	160	200	155	100	296	829	366	590	350	390	300	750	M25X1.5	M20X1.5	87.6	88
65-200/2.2R	80	138	160	200	22	65	122	145	185	20	455	180	225	155	100	296	829	366	590	380	420	330	750	M25X1.5	M20X1.5	90.5	90.9
65-200/2.2	80	138	160	200	22	65	122	145	185	20	455	180	225	155	100	296	829	366	590	380	420	330	750	M25X1.5	M20X1.5	90.5	90.9
65-200/3	80	138	160	200	22	65	122	145	185	20	455	180	225	155	100	296	829	366	590	380	420	330	750	M25X1.5	M20X1.5	94	94

(*) Only for IE3 Motors

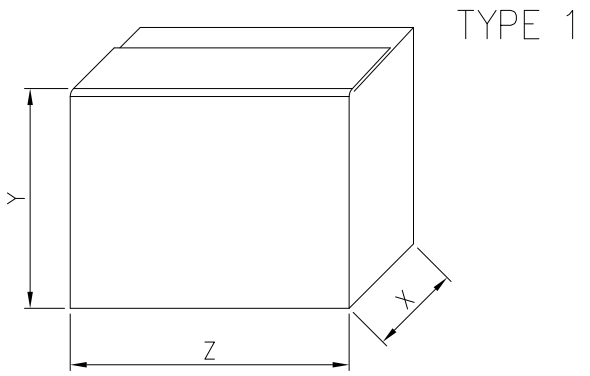
DIMENSIONS AND WEIGHT

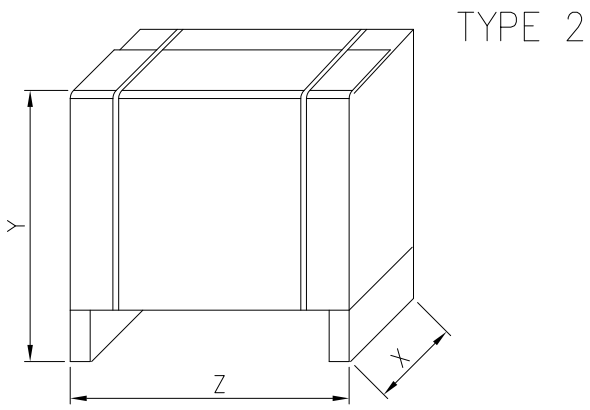
50Hz

Rev. B

3D4 PACKING

Pump type	Packing [mm] Z	X	Y	Weight [kgf]	Pack type
32-125/0.25	450	250	300	27	1
32-160/0.37R	430	280	340	32.9	
32-160/0.37				32.9	
32-200/0.55R	500	330	390	37.8	
32-200/0.55				37.8	
32-200/0.75				42.4	
40-125/0.37R	450	250	300	26	
40-125/0.37				26.1	
40-160/0.55R	430	280	340	35.4	
40-160/0.55				35.8	
40-200/1.1R	500	330	390	44.4	
40-200/1.1				44.5	
40-200/1.5	580	350	416	45.7	2
50-125/0.55R	430	280	340	34.8	1
50-125/0.55				34.9	
50-160/1.1R	500	330	390	45.1	
50-160/1.1				45.2	
50-200/1.5R				45.6	
50-200/1.5				46.7	2
50-200/2.2	580	350	416	45.4	
65-125/0.55	500	330	390	39.6	1
65-125/0.75				37.3	
65-125/1.1				40.3	
65-160/1.1				47.1	
65-160/1.5	580	350	416	50.1	2
65-160/2.2	500	330	390	51.1	1
65-200/2.2R	600	390	533	51.5	2
65-200/2.2				49.5	
65-200/3				62.7	





DIMENSIONS AND WEIGHT

50Hz

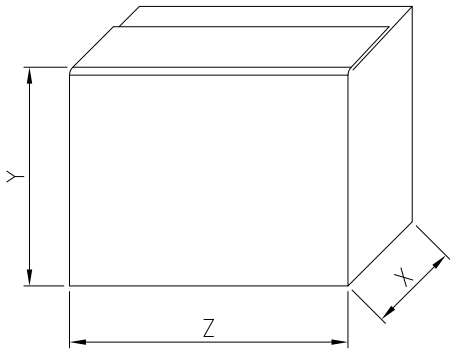
Rev. B

3DS4 PACKING

Pump type	Packing [mm]			Weight [kgf]		Pack type
	Z	X	Y		(*)	
32-125/0.25	450	250	300	26.4	-	1
32-160/0.37R	490	280	340	32.9	-	
32-160/0.37	430	280	330	32.7	-	
32-200/0.55R	500	330	390	41.5	-	
32-200/0.55				45.7	-	
32-200/0.75				43.7	43.7	
40-125/0.37R	450	250	300	27.6	-	
40-125/0.37				27.9	-	
40-160/0.55R	490	280	340	37.7	-	
40-160/0.55				37.7	-	
40-200/1.1R	700	350	498	48.1	50.3	2
40-200/1.1				48.1	50.3	
40-200/1.5				50.3	52.9	
50-125/0.55R	490	280	340	38.2	-	1
50-125/0.55				38.2	-	
50-160/1.1R	700	350	498	52.5	54.7	2
50-160/1.1				48.5	50.7	
50-200/1.5R				51.8	54.4	
50-200/1.5				51.5	54.1	
50-200/2.2				56.9	57.3	
65-125/0.55	580	350	488	39.8	-	
65-125/0.75				48.3	48.3	
65-125/1.1				49	51.2	
65-160/1.1				55.1	57.3	
65-160/1.5				65.2	67.8	
65-160/2.2	600	390	533	66	66.4	
65-200/2.2R				62	62.4	
65-200/2.2				63.5	63.9	
65-200/3				70	70	

(*) Only for IE3 Motors

TYPE 1



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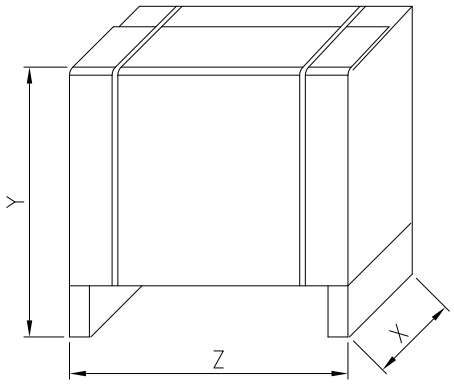


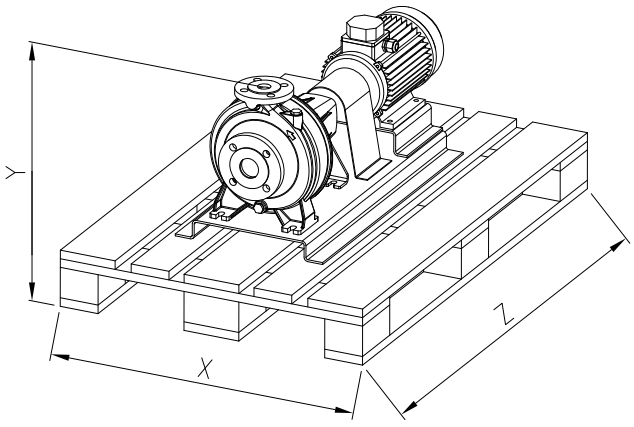
DIMENSIONS AND WEIGHT

50Hz

Rev. B

3DP4 PACKING

Pump type	Packing [mm]			Weight [kgf]	
	Z	X	Y		(*)
32-125/0.25	1200	800	394	59.5	-
32-160/0.37R			434	66.0	-
32-160/0.37				66.0	-
32-200/0.55R			482	78.5	-
32-200/0.55				78.5	-
32-200/0.75				79.5	79.5
40-125/0.37R			394	69.0	-
40-125/0.37				69.0	-
40-160/0.55R			434	70.0	-
40-160/0.55				70.0	-
40-200/1.1R			482	87.7	89.9
40-200/1.1				87.7	89.9
40-200/1.5				90.2	92.8
50-125/0.55R			434	70.8	-
50-125/0.55				70.8	-
50-160/1.1R			482	79.5	81.7
50-160/1.1				79.5	81.7
50-200/1.5R			502	90.5	93.1
50-200/1.5				90.5	93.1
50-200/2.2				96.5	96.9
65-125/0.55			482	77.3	-
65-125/0.75				77.3	77.3
65-125/1.1				84.8	87.0
65-160/1.1			502	92.0	94.2
65-160/1.5				93.0	95.6
65-160/2.2				101.0	101.4
65-200/2.2R			547	104.0	104.4
65-200/2.2				104.0	104.4
65-200/3				107.5	107.5



(*) Only for IE3 Motors

TECHNICAL DATA

50Hz

Rev. B

3D4 MOTOR DATA

Pump type	Power		Efficiency	Input	Efficiency (% load) and power-factor				Full load current		Locked rotor current	
					η %			cos–ϕ	[A]		[A]	
	[kW]	[HP]		[kW]	50%	75%	100%		230 V	400 V	230 V	400 V
3D4 32-125/0.25	0.25	0.33	-	0.55	-	-	-	-	1.9	1.1	7.3	4.2
3D4 32-160/0.37R	0.37	0.5	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 32-160/0.37	0.37	0.5	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 32-200/0.55R	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 32-200/0.55	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 32-200/0.75	0.75	1	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 40-125/0.37R	0.37	0.5	-	0.55	-	-	-	-	1.9	1.1	7.3	4.2
3D4 40-125/0.37	0.37	0.5	-	0.55	-	-	-	-	1.9	1.1	7.3	4.2
3D4 40-160/0.55R	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 40-160/0.55	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 40-200/1.1R	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 40-200/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 40-200/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	45.0	26.0
3D4 50-125/0.55R	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 50-125/0.55	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 50-160/1.1R	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 50-160/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 50-200/1.5R	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	45.0	26.0
3D4 50-200/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	45.0	26.0
3D4 50-200/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	52.0	30.0
3D4 65-125/0.55	0.55	0.75	-	0.80	-	-	-	-	2.6	1.5	9.9	5.7
3D4 65-125/0.75	0.75	1	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 65-125/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 65-160/1.1	1.1	1.5	IE2	1.41	78.4	81.6	81.9	0.76	4.6	2.7	32.0	18.5
3D4 65-160/1.5	1.5	2	IE2	1.88	80.3	83.4	83.8	0.75	6.2	3.6	45.0	26.0
3D4 65-160/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	52.0	30.0
3D4 65-200/2.2R	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	52.0	30.0
3D4 65-200/2.2	2.2	3	IE2	2.70	84.6	86.0	85.6	0.83	8.1	4.7	52.0	30.0
3D4 65-200/3	3	4	IE2	3.54	81.6	86.1	89.0	0.75	11.8	6.8	79.7	46.0

TECHNICAL DATA

50Hz

Rev. B

3DS4-3DP4 MOTOR DATA

Pump type		Motor			Efficiency	Input	Efficiency (% load) and power-factor				Full load current		Locked rotor current	
			Power				η %			cos-ϕ	[A]		[A]	
3DS4	3DP4	Motor Size	[kW]	[HP]		[kW]	50%	75%	100%		230 V	400 V	230 V	400 V
3DS4 32-125/0.25	3DP4 32-125/0.25	71	0.25	0.33	-	0.41	55.0	59.0	64.0	0.66	1.6	0.9	5.0	2.9
3DS4 32-160/0.37R	3DP4 32-160/0.37R		0.37	0.5	-	0.56	60.0	63.0	67.0	0.67	2.1	1.2	6.8	3.9
3DS4 32-160/0.37	3DP4 32-160/0.37		0.37	0.5	-	0.56	60.0	63.0	67.0	0.67	2.1	1.2	8.5	4.9
3DS4 32-200/0.55R	3DP4 32-200/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	9.9	5.7
3DS4 32-200/0.55	3DP4 32-200/0.55		0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	11.6	6.7
3DS4 32-200/0.75	3DP4 32-200/0.75		0.75	1	IE2	0.95	79.2	80.3	80.2	0.76	3.1	1.8	17.1	9.9
3DS4 32-200/0.75	3DP4 32-200/0.75				IE3	0.92	80.7	81.5	82.5	0.74	3.1	1.8	17.3	10.0
3DS4 40-125/0.37R	3DP4 40-125/0.37R	71	0.37	0.5	-	0.56	60.0	63.0	67.0	0.67	2.1	1.2	6.8	3.9
3DS4 40-125/0.37	3DP4 40-125/0.37		0.37	0.5	-	0.56	60.0	63.0	67.0	0.67	2.1	1.2	6.8	3.9
3DS4 40-160/0.55R	3DP4 40-160/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	9.9	5.7
3DS4 40-160/0.55	3DP4 40-160/0.55		0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	9.9	5.7
3DS4 40-200/1.1R	3DP4 40-200/1.1R	90L	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	26.3	15.2
3DS4 40-200/1.1R	3DP4 40-200/1.1R				IE3	1.30	83.3	84.3	84.1	0.75	4.3	2.5	30.7	17.7
3DS4 40-200/1.1	3DP4 40-200/1.1		1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	26.3	15.2
3DS4 40-200/1.1	3DP4 40-200/1.1				IE3	1.30	83.3	84.3	84.1	0.75	4.3	2.5	30.7	17.7
3DS4 40-200/1.5	3DP4 40-200/1.5		1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	37.6	21.7
3DS4 40-200/1.5	3DP4 40-200/1.5				IE3	1.80	84.1	85.2	85.3	0.72	6.2	3.6	41.0	23.7
3DS4 50-125/0.55R	3DP4 50-125/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	9.9	5.7
3DS4 50-125/0.55	3DP4 50-125/0.55		0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	9.9	5.7
3DS4 50-160/1.1R	3DP4 50-160/1.1R	90L	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	26.3	15.2
3DS4 50-160/1.1R	3DP4 50-160/1.1R				IE3	1.30	83.3	84.3	84.1	0.75	4.3	2.5	30.7	17.7
3DS4 50-160/1.1	3DP4 50-160/1.1		1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	26.3	15.2
3DS4 50-160/1.1	3DP4 50-160/1.1				IE3	1.30	83.3	84.3	84.1	0.75	4.3	2.5	30.7	17.7
3DS4 50-200/1.5R	3DP4 50-200/1.5R		1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	37.6	21.7
3DS4 50-200/1.5R	3DP4 50-200/1.5R				IE3	1.80	84.1	85.2	85.3	0.72	6.2	3.6	41.0	23.7
3DS4 50-200/1.5	3DP4 50-200/1.5		1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	37.6	21.7
3DS4 50-200/1.5	3DP4 50-200/1.5				IE3	1.80	84.1	85.2	85.3	0.72	6.2	3.6	41.0	23.7
3DS4 50-200/2.2	3DP4 50-200/2.2	100L	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	53.0	30.6
3DS4 50-200/2.2	3DP4 50-200/2.2				IE3	2.58	83.2	86.2	86.7	0.63	10.2	5.9	73.6	42.5
3DS4 65-125/0.55	3DP4 65-125/0.55	80	0.55	0.75	-	0.80	67.0	69.0	70.0	0.72	2.8	1.6	9.9	5.7
3DS4 65-125/0.75	3DP4 65-125/0.75		0.75	1	IE2	0.95	79.2	80.3	80.2	0.76	3.1	1.8	17.1	9.9
3DS4 65-125/0.75	3DP4 65-125/0.75				IE3	0.92	80.7	81.5	82.5	0.74	3.1	1.8	17.3	10.0
3DS4 65-125/1.1	3DP4 65-125/1.1	90L	1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	26.3	15.2
3DS4 65-125/1.1	3DP4 65-125/1.1				IE3	1.30	83.3	84.3	84.1	0.75	4.3	2.5	30.7	17.7
3DS4 65-160/1.1	3DP4 65-160/1.1		1.1	1.5	IE2	1.33	81.4	82.7	82.5	0.77	4.3	2.5	26.3	15.2
3DS4 65-160/1.1	3DP4 65-160/1.1				IE3	1.30	83.3	84.3	84.1	0.75	4.3	2.5	30.7	17.7
3DS4 65-160/1.5	3DP4 65-160/1.5		1.5	2	IE2	1.81	82.0	83.5	83.0	0.77	5.9	3.4	37.6	21.7
3DS4 65-160/1.5	3DP4 65-160/1.5				IE3	1.80	84.1	85.2	85.3	0.72	6.2	3.6	41.0	23.7
3DS4 65-160/2.2	3DP4 65-160/2.2	100L	2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	53.0	30.6
3DS4 65-160/2.2	3DP4 65-160/2.2				IE3	2.58	83.2	86.2	86.7	0.63	10.2	5.9	73.6	42.5
3DS4 65-200/2.2R	3DP4 65-200/2.2R		2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	53.0	30.6
3DS4 65-200/2.2R	3DP4 65-200/2.2R				IE3	2.58	83.2	86.2	86.7	0.63	10.2	5.9	73.6	42.5
3DS4 65-200/2.2	3DP4 65-200/2.2		2.2	3	IE2	2.61	84.0	85.3	85.1	0.74	8.8	5.1	53.0	30.6
3DS4 65-200/2.2	3DP4 65-200/2.2				IE3	2.58	83.2	86.2	86.7	0.63	10.2	5.9	73.6	42.5
3DS4 65-200/3	3DP4 65-200/3		3	4	IE2	3.47	85.3	86.6	86.4	0.77	11.3	6.5	71.0	41.0
3DS4 65-200/3	3DP4 65-200/3				IE3	3.44	85.1	87.1	87.7	0.73	11.8	6.8	95.4	55.1

3D4 NOISE DATA

Pump type	Power [kW]	Power [HP]	LpA - dB(A) *
3D4 32-125/0.25	0.25	0.33	
3D4 32-160/0.37R	0.37	0.5	
3D4 32-160/0.37	0.37	0.5	
3D4 32-200/0.55R	0.55	0.75	
3D4 32-200/0.55	0.55	0.75	
3D4 32-200/0.75	0.75	1	
3D4 40-125/0.37R	0.37	0.5	
3D4 40-125/0.37	0.37	0.5	
3D4 40-160/0.55R	0.55	0.75	
3D4 40-160/0.55	0.55	0.75	
3D4 40-200/1.1R	1.1	1.5	
3D4 40-200/1.1	1.1	1.5	
3D4 40-200/1.5	1.5	2	
3D4 50-125/0.55R	0.55	0.75	
3D4 50-125/0.55	0.55	0.75	<70
3D4 50-160/1.1R	1.1	1.5	
3D4 50-160/1.1	1.1	1.5	
3D4 50-200/1.5R	1.5	2	
3D4 50-200/1.5	1.5	2	
3D4 50-200/2.2	2.2	3	
3D4 65-125/0.55	0.55	0.75	
3D4 65-125/0.75	0.75	1	
3D4 65-125/1.1	1.1	1.5	
3D4 65-160/1.1	1.1	1.5	
3D4 65-160/1.5	1.5	2	
3D4 65-160/2.2	2.2	3	
3D4 65-200/2.2R	2.2	3	
3D4 65-200/2.2	2.2	3	
3D4 65-200/3	3	4	

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

Sound pressure level of motor pumps with AEG

3DS4-3DP4 NOISE DATA

Pump type		Power		LpA - dB(A) *
3DS4	3DP4	[kW]	[HP]	
3DS4 32-125/0.25	3DP4 32-125/0.25	0.25	0.33	
3DS4 32-160/0.37R	3DP4 32-160/0.37R	0.37	0.5	
3DS4 32-160/0.37	3DP4 32-160/0.37	0.37	0.5	
3DS4 32-200/0.55R	3DP4 32-200/0.55R	0.55	0.75	
3DS4 32-200/0.55	3DP4 32-200/0.55	0.55	0.75	
3DS4 32-200/0.75	3DP4 32-200/0.75	0.75	1	
3DS4 40-125/0.37R	3DP4 40-125/0.37R	0.37	0.5	
3DS4 40-125/0.37	3DP4 40-125/0.37	0.37	0.5	
3DS4 40-160/0.55R	3DP4 40-160/0.55R	0.55	0.75	
3DS4 40-160/0.55	3DP4 40-160/0.55	0.55	0.75	
3DS4 40-200/1.1R	3DP4 40-200/1.1R	1.1	1.5	
3DS4 40-200/1.1	3DP4 40-200/1.1	1.1	1.5	
3DS4 40-200/1.5	3DP4 40-200/1.5	1.5	2	
3DS4 50-125/0.55R	3DP4 50-125/0.55R	0.55	0.75	
3DS4 50-125/0.55	3DP4 50-125/0.55	0.55	0.75	<70
3DS4 50-160/1.1R	3DP4 50-160/1.1R	1.1	1.5	
3DS4 50-160/1.1	3DP4 50-160/1.1	1.1	1.5	
3DS4 50-200/1.5R	3DP4 50-200/1.5R	1.5	2	
3DS4 50-200/1.5	3DP4 50-200/1.5	1.5	2	
3DS4 50-200/2.2	3DP4 50-200/2.2	2.2	3	
3DS4 65-125/0.55	3DP4 65-125/0.55	0.55	0.75	
3DS4 65-125/0.75	3DP4 65-125/0.75	0.75	1	
3DS4 65-125/1.1	3DP4 65-125/1.1	1.1	1.5	
3DS4 65-160/1.1	3DP4 65-160/1.1	1.1	1.5	
3DS4 65-160/1.5	3DP4 65-160/1.5	1.5	2	
3DS4 65-160/2.2	3DP4 65-160/2.2	2.2	3	
3DS4 65-200/2.2R	3DP4 65-200/2.2R	2.2	3	
3DS4 65-200/2.2	3DP4 65-200/2.2	2.2	3	
3DS4 65-200/3	3DP4 65-200/3	3	4	

* Mean value of several measures at 1m distance around the pump.

Tolerance ± 2.5 dB.

Sound pressure level of motor pumps with AEG