
EBARA

CONTENTS

60Hz

Rev. G

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Rev. G

SPECIFICATION

60Hz

Rev. G

Version		3M	3S	3P	3LM	3LS	3LP
Pump sizes	32-125	■	■	■	■	■	■
	32-160	■	■	■	■	■	■
	32-200	■	■	■	■	■	■
	40-125	■	■	■	■	■	■
	40-160	■	■	■	■	■	■
	40-200	■	■	■	■	■	■
	50-125	■	■	■	■	■	■
	50-160	■	■	■	■	■	■
	65-125	■	■	■	■	■	■
	65-160	■	■	■	■	■	■
	65-200	■	■	■	■	■	■
	65-250	-	-	-	-	●	●
	80-160	-	-	-	●	●	●
	80-200	-	-	-	-	●	●
	80-250	-	-	-	-	●	●

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

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

– Not available.

SPECIFICATION 60Hz

Rev. G

PUMP								
Version				3M	3S	3P	3LM	3LS	3LP
Liquid Handled	Type of liquid			Clean water and moderately aggressive fluids					
							Water contains glycol (E option)		
	Temperature [°C]			min. -10 min. -20 (E version) max. +90 max. +110 (H-HS-HW-HSW version) max. +120 (E version) (For version see page 327÷333)			min. -10 min. -20 (E version) max. +110 max. +110 (H-HW-HSW version) max. +120 (E version) (For version see page 327÷333)		
Maximum working pressure [MPa]				1					
Construction	Impeller			Closed centrifugal type for 32, 40, 50 version Reinforced laser welding for 40-200/11 Closed centrifugal three dimensional blades for 65 version and above					
	Shaft seal type			Mechanical seal			Mechanical seal with stationary ring secured against rotation		
	Bearing			Sealed ball bearing					
Pipe Connection	Suction	32-125/160/200		Flange DN50 according DIN 2532 Standard					
		40-125/160/200 50-125/160		Flange DN65 according DIN 2532 Standard					
		65-125/160/200/250		Flange DN80 according DIN 2532 Standard					
		80-160/200/250		Flange DN100 according DIN 2532 Standard					
	Discharge	32-125/160/200		Flange DN32 according DIN 2532 Standard					
		40-125/160/200		Flange DN40 according DIN 2532 Standard					
		50-125/160		Flange DN50 according DIN 2532 Standard					
		65-125/160/200/250		Flange DN65 according DIN 2532 Standard					
		80-160/200/250		Flange DN80 according DIN 2532 Standard					
Material	Casing	32-125/160/200 40-125/160/200 50-125/160 65-125/160/200		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-250 80-160/200/250		/			EN 1.4401 (AISI 316) made by precision casting		
	Impeller	32-125/160/200 40-125/160/200 50-125/160		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-125/160/200		EN 1.4401 (AISI 316) made by precision casting					
		65-250 80-160/200/250		/			EN 1.4401 (AISI 316) made by precision casting		
	Casing cover	32-125/160/200 40-125/160/200 50-125/160 65-125/160/200 80-160		EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-250 80-200/250		/			EN 1.4401 (AISI 316) made by precision casting		
	Mechanical seal	32-125/160/200 40-125/160/200 50-125/160 65-125/160/200		Ceramic/Carbon/NBR			SiC/SiC/FPM (L version)		
		65-250 80-160/200/250		/					
	O-ring			NBR			FPM		
	Shaft	32, 40, 50, 65-125 65-160/116	d=19	EN 1.4301 (AISI 304)			EN 1.4404 (AISI 316L)		
		65-160/156 65-200	d=24						
		65-250		/			EN 1.4462 (Duplex stainless steel)		
		80-160					EN 1.4404 (AISI 316L)		
		80-200 (22 kW)							
		80-200 (30-37 kW)					EN 1.4462 (Duplex stainless steel)		
		80-250	d=29						
	Bracket			Cast iron - Alluminium					
Applicable standard of test				ISO 9906 – Annex A					

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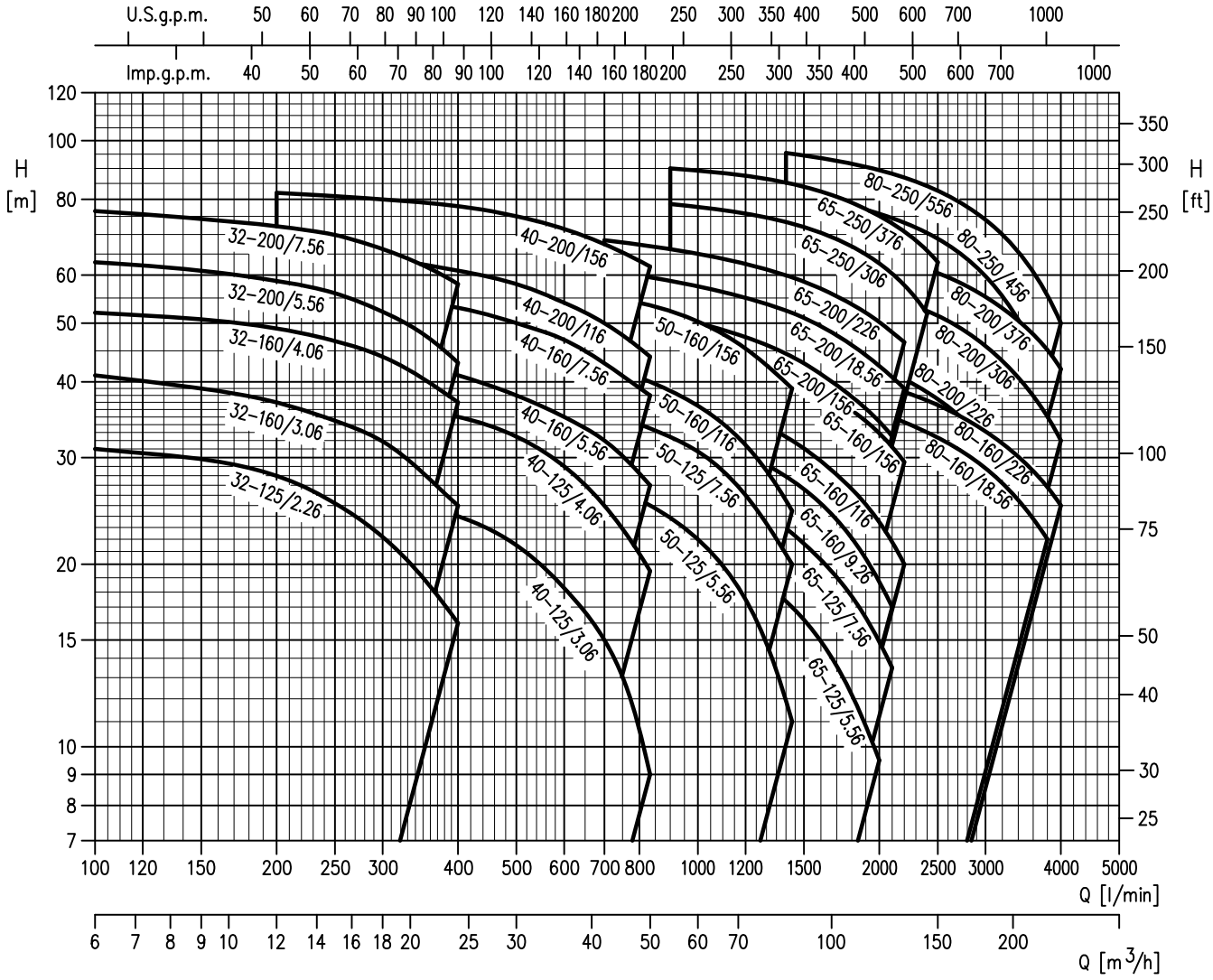
MOTOR				
Type		3(.)M	3(.)S	3(.)P
		Electric - TEFC		
		Three Phase		
Efficiency level		- from 1.1 kW up to 5.5 kW		
		IE3* from 1.1 kW up to 55 kW (*only for 460 V)	IE2 from 1.1 kW up to 55 kW	
No. of Poles		2		
Rotation speed	[min^{-1}]	≈ 3500		
Insulation Class		F	F (class B for temperature rise)	
Protection degree (CEI EN 60034-5)		IP 55		
Power rating	[kW]	2.2 ÷ 22	18.5 ÷ 55	
	[HP]	3.0 ÷ 30	25 ÷ 75	
Frequency	[Hz]	60		
Voltage	[V]	220/380-460 ±10% (IE3* up to 4.0 kW) 380-460/660 ±10% (IE3* 5.5 kW and above)	265/460 ±10% (up to 4.0 kW) 460 ±10% (5.5 kW and above)	
Over load protection		Provided by the user		
Casing material		Aluminium		
Motor support		Cast iron – Alluminium		
Dimensions of cable entry		PG13.5 - PG16 - PG21 - M20x1.5 - M25x1.5	M40x1.5 - M50x1.5 - M63x1.5	
Flange mount (IEC motor)		/	IM B35	

*only for 460 V

SELECTION CHART

60Hz

Rev. G



SELECTION CHART

60Hz

Rev. G

3 SERIE 32-40-50 Version

Pump Type	[kW]	[HP]	l/min	0	100	150	200	250	300	350	400	500	600	700	833	1000	1200	1433
			m³/h	0	6	9	12	15	18	21	24	30	36	42	50	60	72	86
32-125/2.26	2.2	3		32.3	31.4	30.4	28.6	26.1	23.3	20.2	17	-	-	-	-	-	-	-
32-160/3.06	3	4		42.5	41	39.6	37.8	35.4	32.5	29.4	26	-	-	-	-	-	-	-
32-160/4.06	4	5.5		53	51.5	50.5	48.5	46.5	43.5	40	36.6	-	-	-	-	-	-	-
32-200/5.56	5.5	7.5		64.5	62.5	61	59	56	53	48.5	44	-	-	-	-	-	-	-
32-200/7.56	7.5	10		78	76	74.5	72.5	69.5	66	62	57	-	-	-	-	-	-	-
40-125/3.06	3	4		29	-	-	28.2	27.7	27	26.1	24.9	22.3	19.1	15.4	10	-	-	-
40-125/4.06	4	5.5		38	-	-	37.2	36.8	36	35.1	34	31.6	28.6	25.2	20	-	-	-
40-160/5.56	5.5	7.5		45	-	-	44	43.5	42.5	41.5	40	37.2	34	30.7	26.2	-	-	-
40-160/7.56	7.5	10		57	-	-	56	55.5	54.5	53.5	52	49	46	42.5	38	-	-	-
40-200/116	11	15		67.5	-	-	66.5	66	65	63.5	62	58.5	55	51	45	-	-	-
40-200/156	15	20		83	-	-	82	81.5	80.5	79.5	78	75	71.5	67.5	62	-	-	-
50-125/5.56	5.5	7.5		31.8	-	-	-	-	-	-	-	30	29.2	28	26	22.8	18.4	12.6
50-125/7.56	7.5	10		38	-	-	-	-	-	-	-	36.5	35.7	34.6	32.7	29.7	25.3	19.5
50-160/116	11	15		48	-	-	-	-	-	-	-	46	45	43.5	41	37.4	32.4	25.8
50-160/156	15	20		57.5	-	-	-	-	-	-	-	56	55.5	54	52	49	45	39

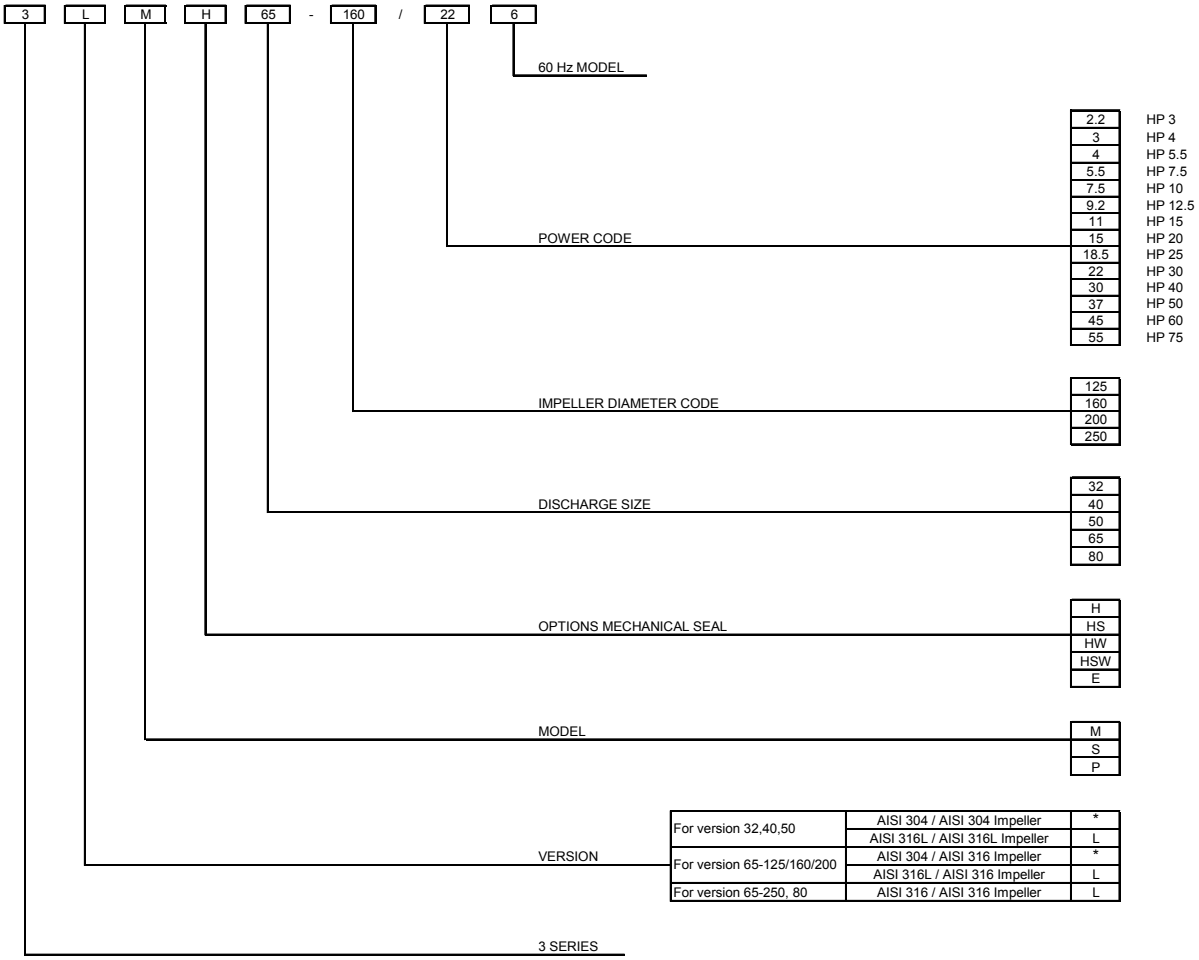
3 SERIE 65-80 Version

Pump Type	[kW]	[HP]	l/min	0	600	700	900	1200	1400	1600	1800	2000	2100	2200	2400	2500	3100	3600	3800	4000
			m³/h	0	36	42	54	72	84	96	108	120	126	132	144	150	186	216	228	240
65-125/5.56	5.5	7.5		27.5	25.7	24.9	22.9	19.6	17.2	14.8	12.2	9.5	-	-	-	-	-	-	-	-
65-125/7.56	7.5	10		33.5	31.5	30.7	28.8	25.5	23	20.4	17.7	14.9	13.5	-	-	-	-	-	-	-
65-160/9.26	9.2	12.5		38	-	35.5	33.6	30.3	27.9	25.2	22.1	18.7	17	-	-	-	-	-	-	-
65-160/116	11	15		43	-	40.5	38.5	35	32.4	29.6	26.6	23.5	21.8	20	-	-	-	-	-	-
65-160/156	15	20		51	-	48.5	47	43.5	41.5	38.7	35.9	32.9	31.3	29.5	-	-	-	-	-	-
65-200/156	15	20		56.5	-	53.5	51.5	47.5	44.5	41	37.8	34.4	32.5	-	-	-	-	-	-	-
65-200/18.56	18.5	25		63.5	-	61	59	55	52.5	49.5	46	42.5	40.5	39	-	-	-	-	-	-
65-200/226	22	30		71	-	68.5	66.5	62.5	60	57	53.5	50	48.5	46.5	-	-	-	-	-	-
65-250/306	30	40		80	-	-	78.5	76	73.5	70.5	67	62.5	60.5	58	52	-	-	-	-	-
65-250/376	37	50		91.5	-	-	90	87.5	85	82.5	79	75	73	71	66	63	-	-	-	-
80-160/18.56	18.5	25		40.5	-	-	-	-	38.8	37.9	36.8	35.6	35	34.3	33	32.4	28.1	23.8	22	-
80-160/226	22	30		44.5	-	-	-	-	42.5	42	41	39.7	39	38.5	37.3	36.6	32.4	28.5	26.9	25
80-200/226	22	30		50.5	-	-	-	-	47	45.5	44	42.5	41.5	40.5	38.5	37.5	30.5	24	-	-
80-200/306	30	40		63	-	-	-	-	60	59	57.5	56	55	54	52.5	51.5	44.5	37.9	35.1	32
80-200/376	37	50		71	-	-	-	-	68.5	67.5	66	64.5	64	63	61.5	60.5	54	48	45	42
80-250/456	45	60		85	-	-	-	-	82	80	78	75.5	74.5	73	70.5	69	57.5	45.5	40	-
80-250/556	55	75		97.5	-	-	-	-	95.5	93.5	91.5	89.5	88	87	84	82.5	72	61	55.5	50

TYPE KEY AND CURVE SPECIFICATIONS 60Hz

Rev. G

TYPE KEY:



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 60 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:

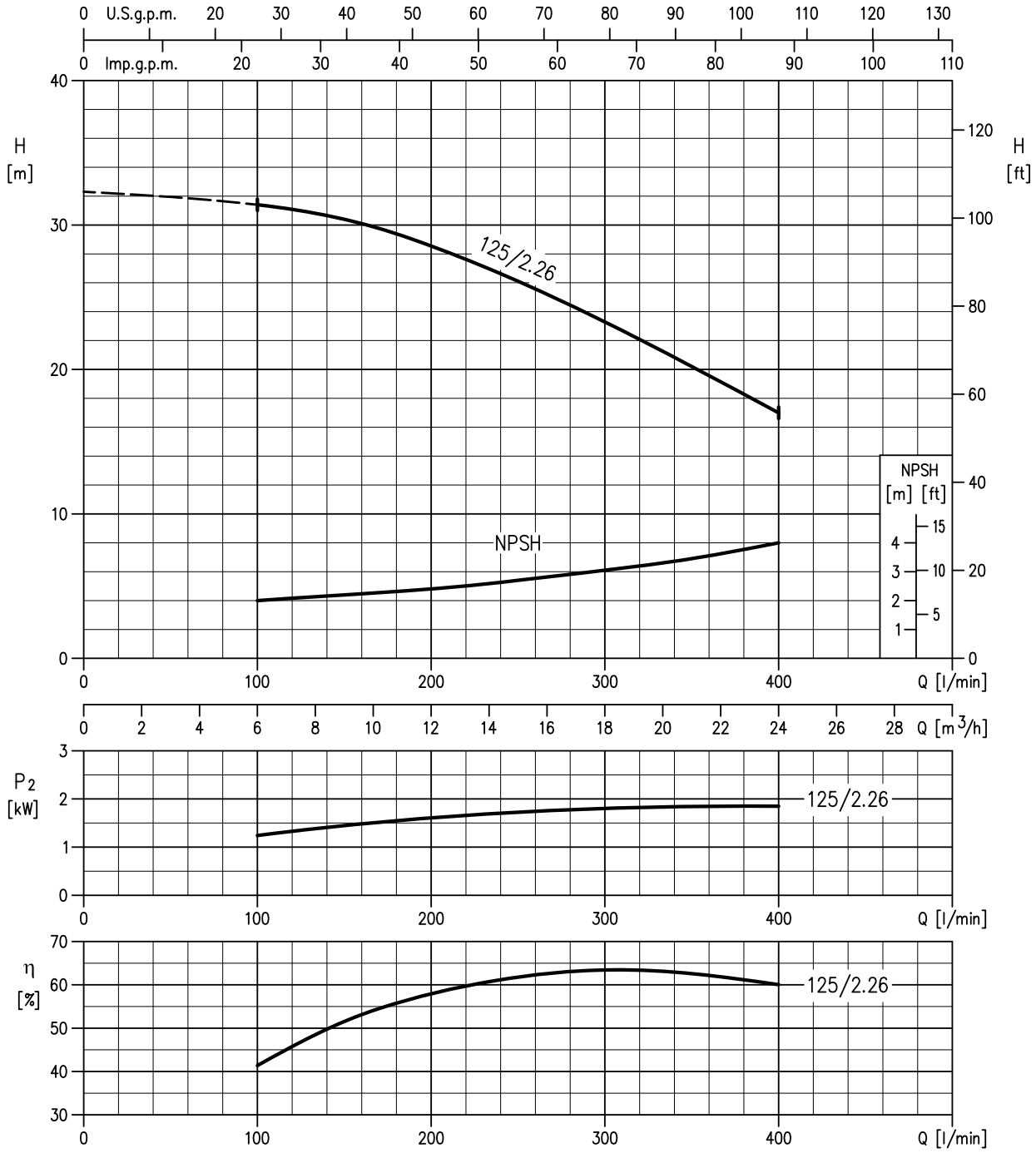
Q	=	volume flow rate
H	=	total head
P_2	=	pump power input (shaft power)
η	=	pump efficiency
NPSH	=	net positive suction head required by the pump

PERFORMANCE CURVE

60Hz

Rev. G

32-125/2.26 (2.2 kW) – Impeller diameter = 133 mm



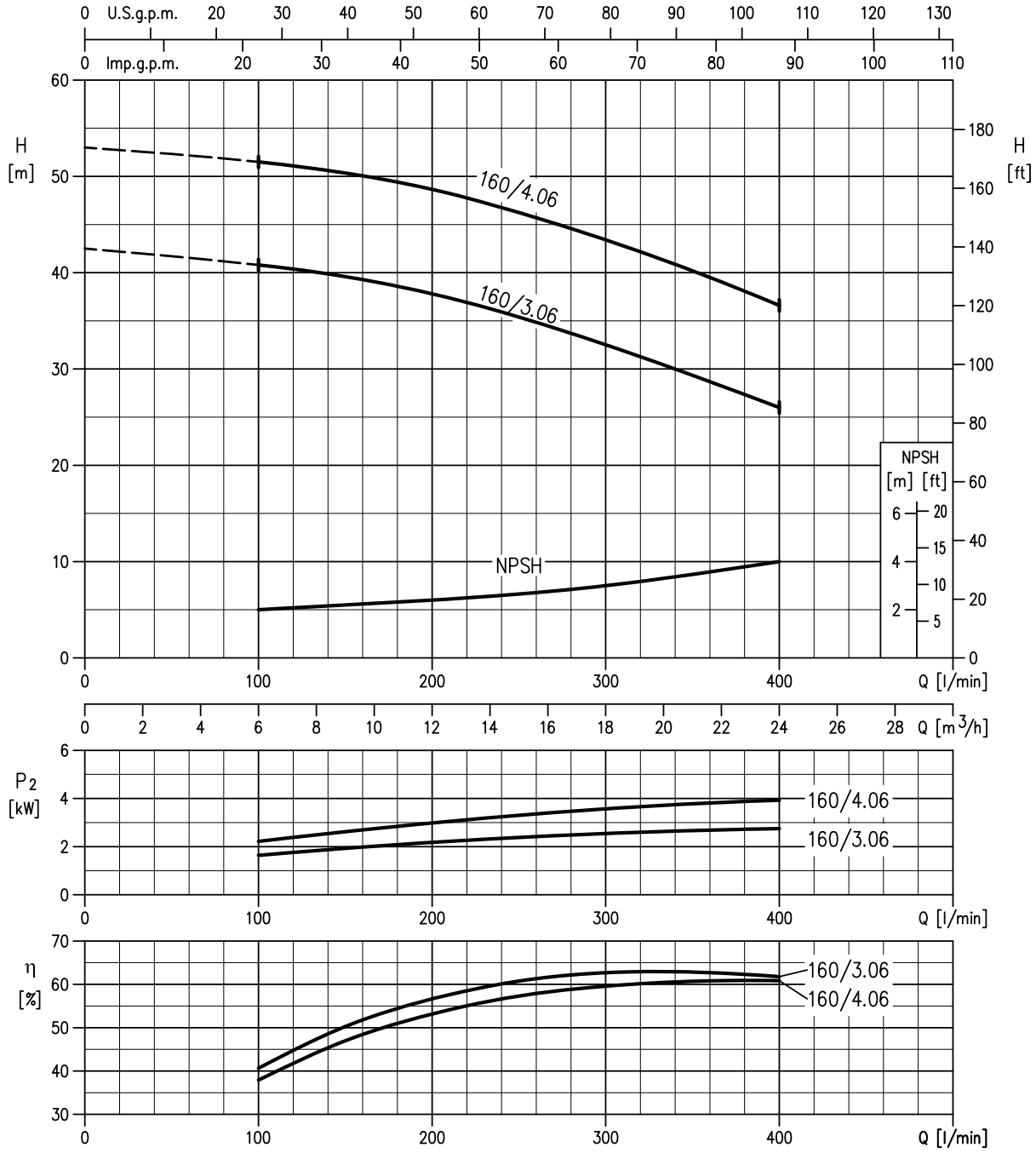
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

32-160/3.06 (3 kW) – Impeller diameter = 151 mm
32-160/4.06 (4 kW) – Impeller diameter = 166 mm



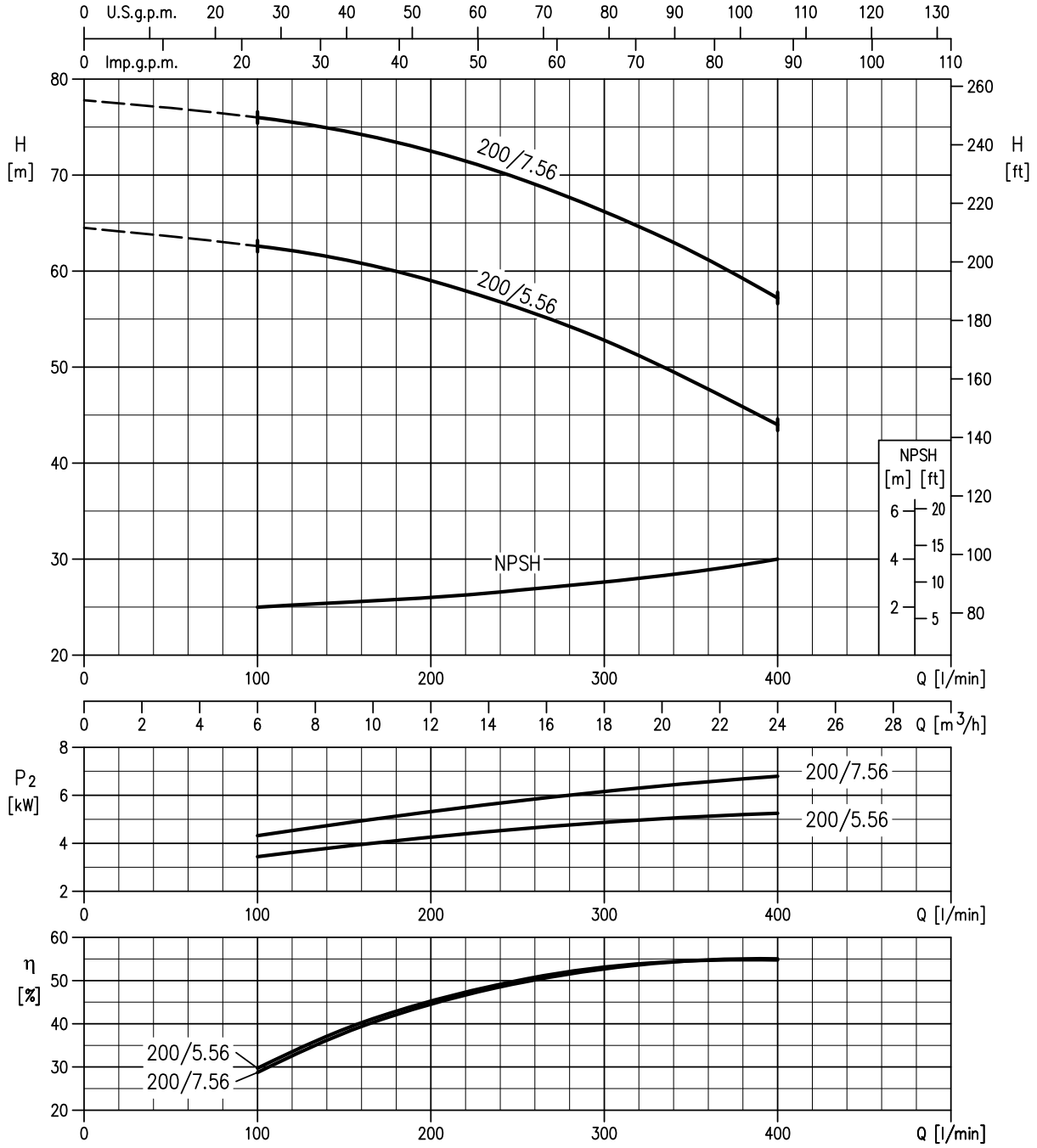
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

32-200/5.56 (5.5 kW) – Impeller diameter = 186 mm
32-200/7.56 (7.5 kW) – Impeller diameter = 200 mm



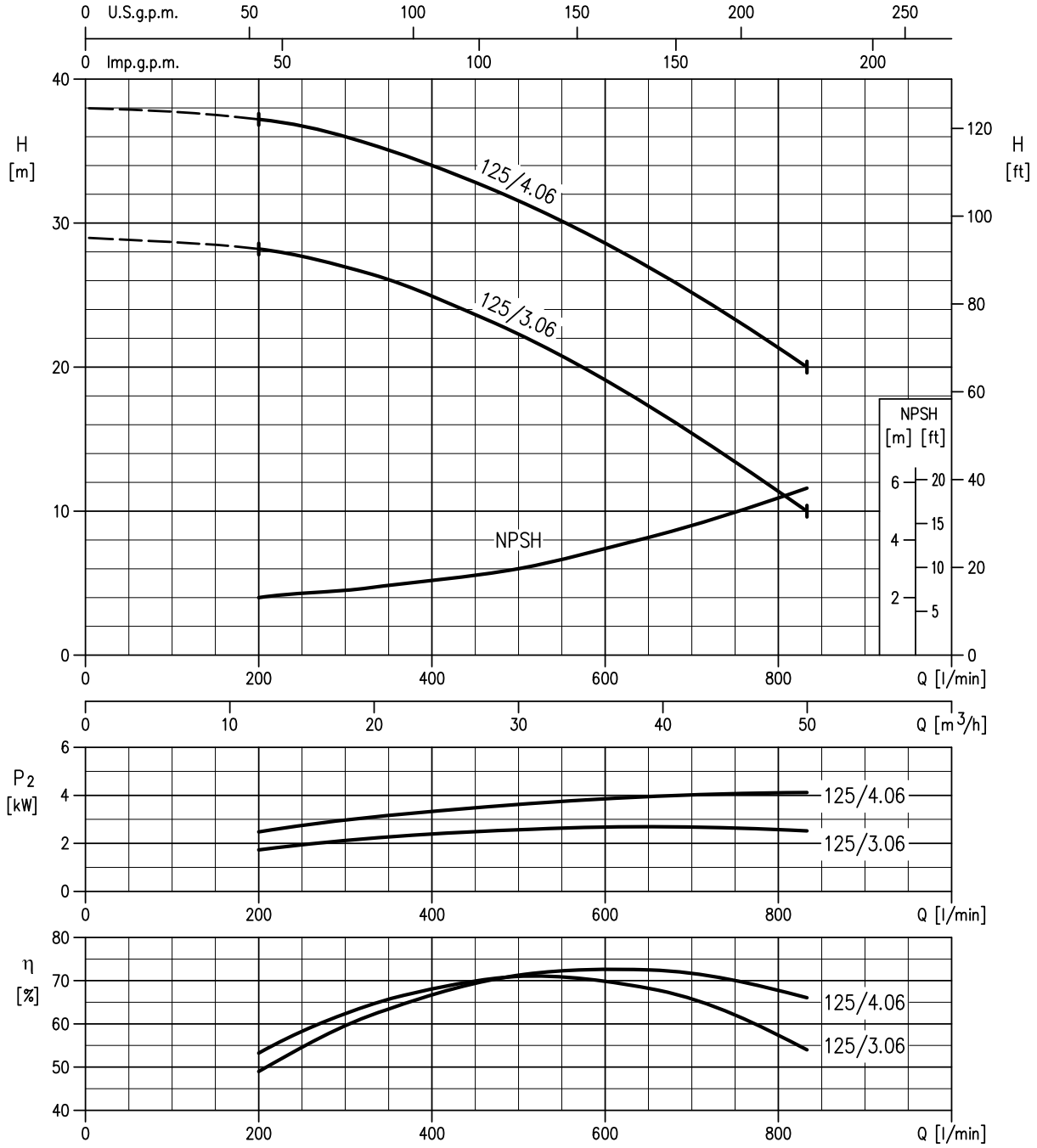
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

40-125/3.06 (3 kW) – Impeller diameter = 125 mm
40-125/4.06 (4 kW) – Impeller diameter = 140 mm



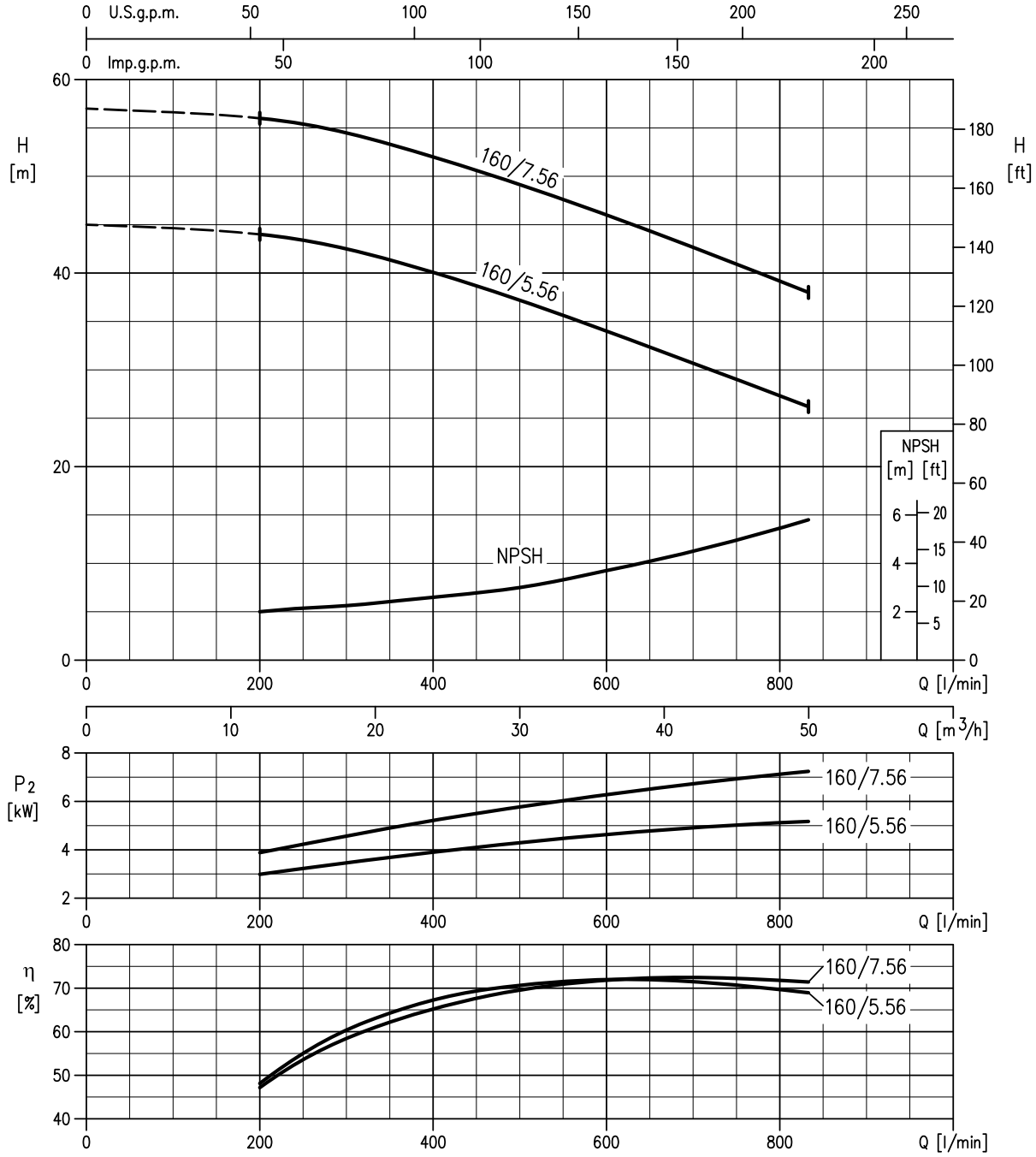
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

40-160/5.56 (5.5 kW) – Impeller diameter = 151 mm
40-160/7.56 (7.5 kW) – Impeller diameter = 166 mm



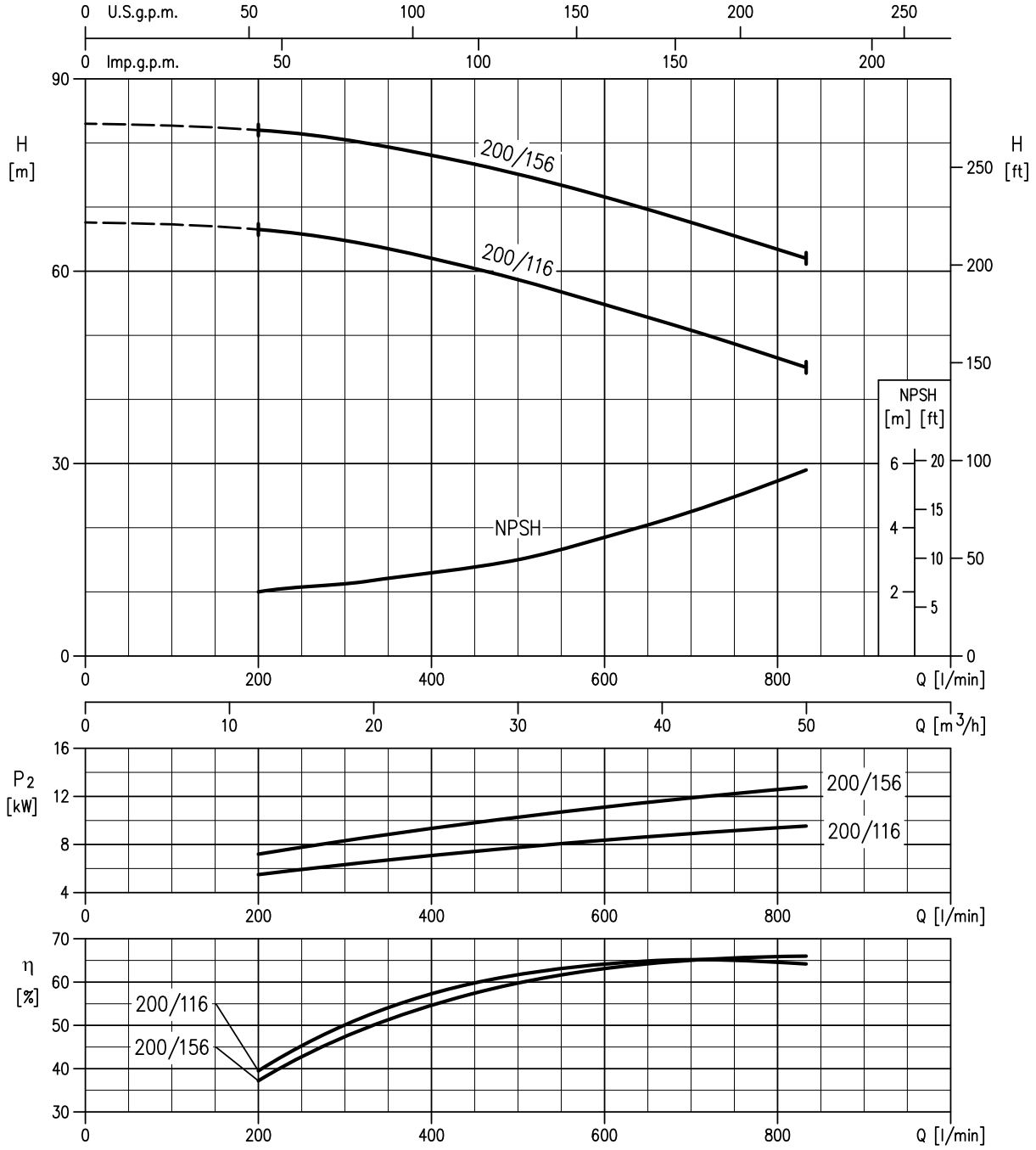
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

40-200/116 (11 kW) – Impeller diameter = 183 mm
40-200/156 (15 kW) – Impeller diameter = 200 mm



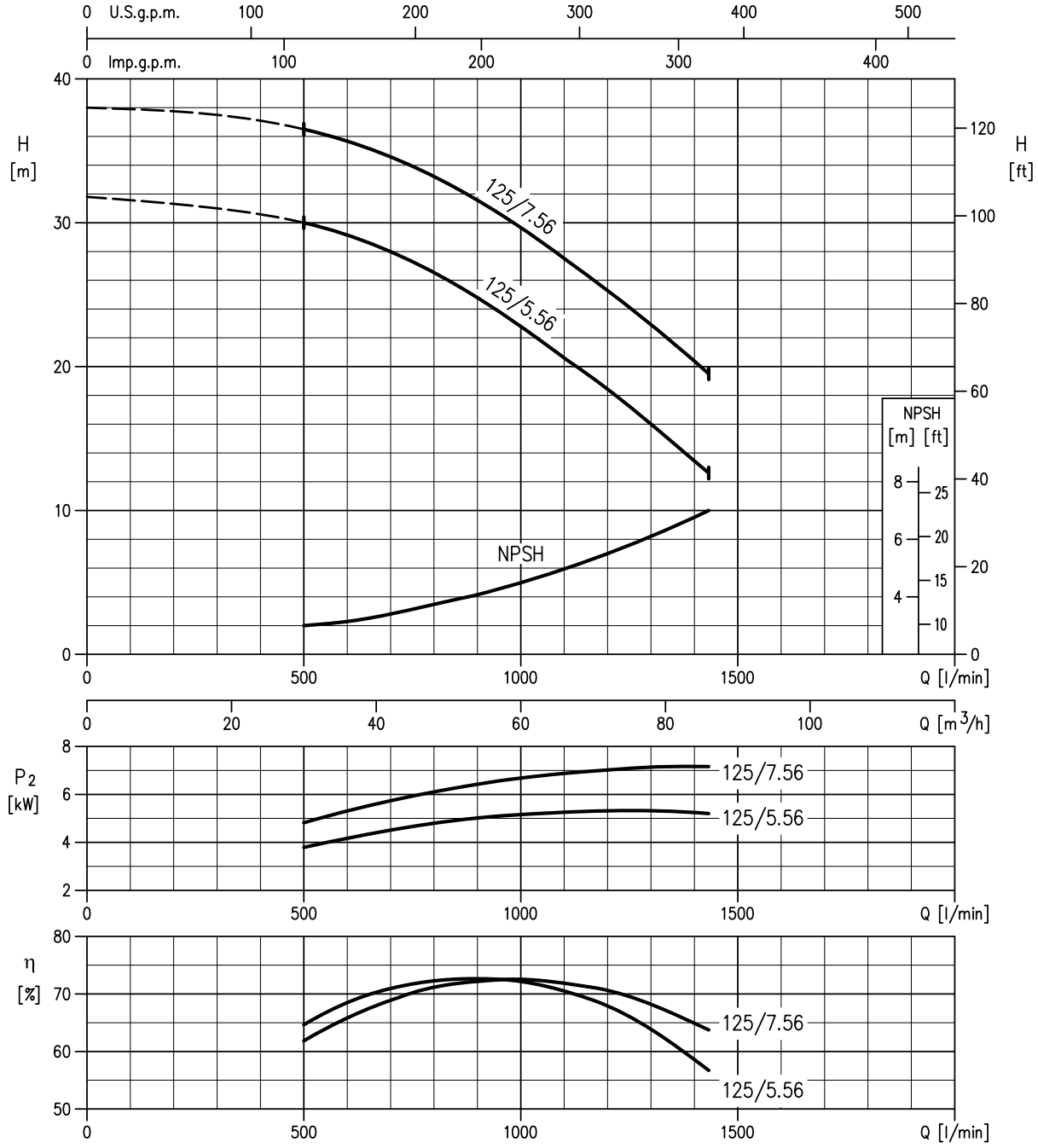
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

50-125/5.56 (5.5 kW) – Impeller diameter = 131 mm
50-125/7.56 (7.5 kW) – Impeller diameter = 140 mm



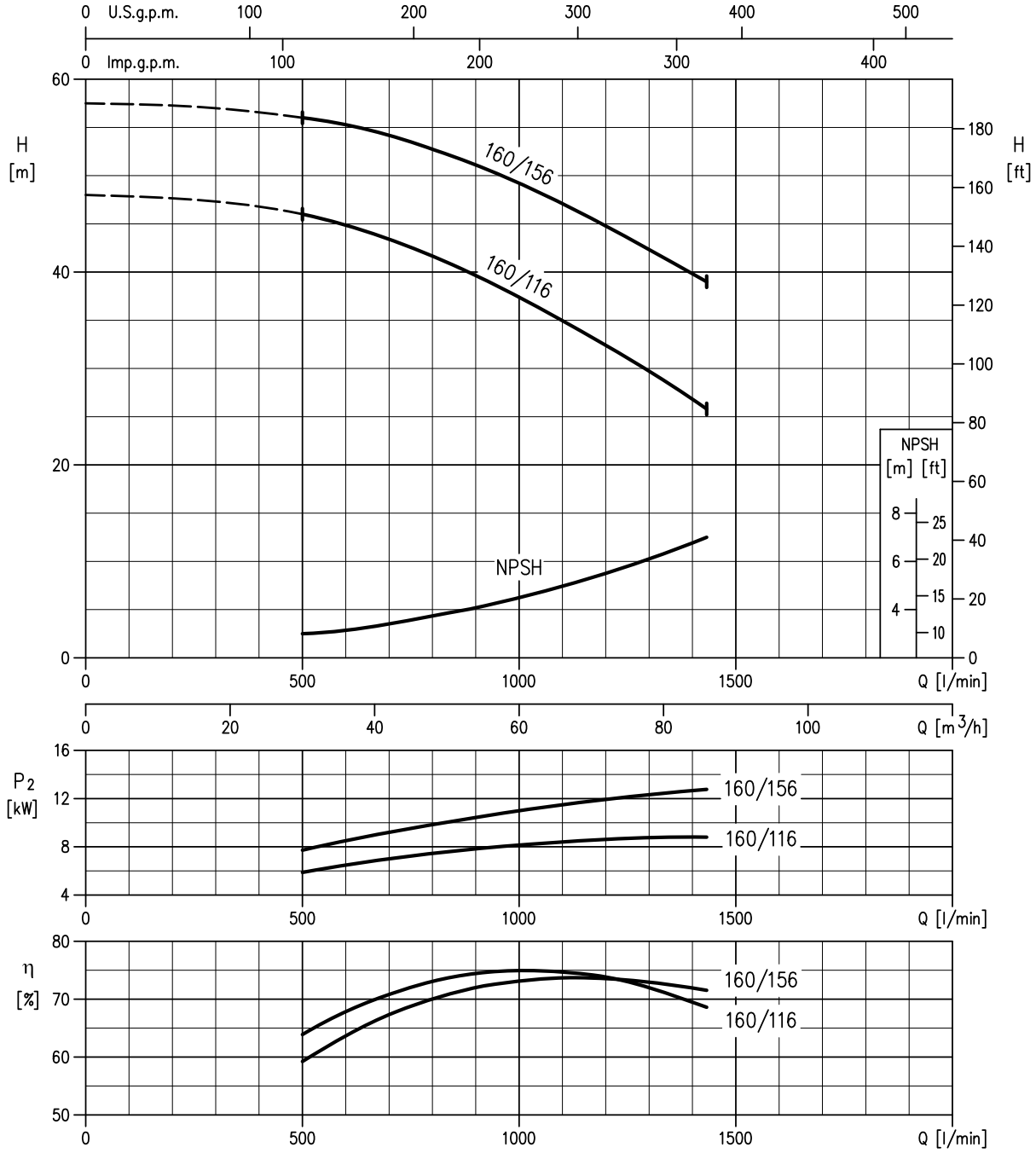
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

50-160/116 (11 kW) – Impeller diameter = 154 mm
50-160/156 (15 kW) – Impeller diameter = 166 mm



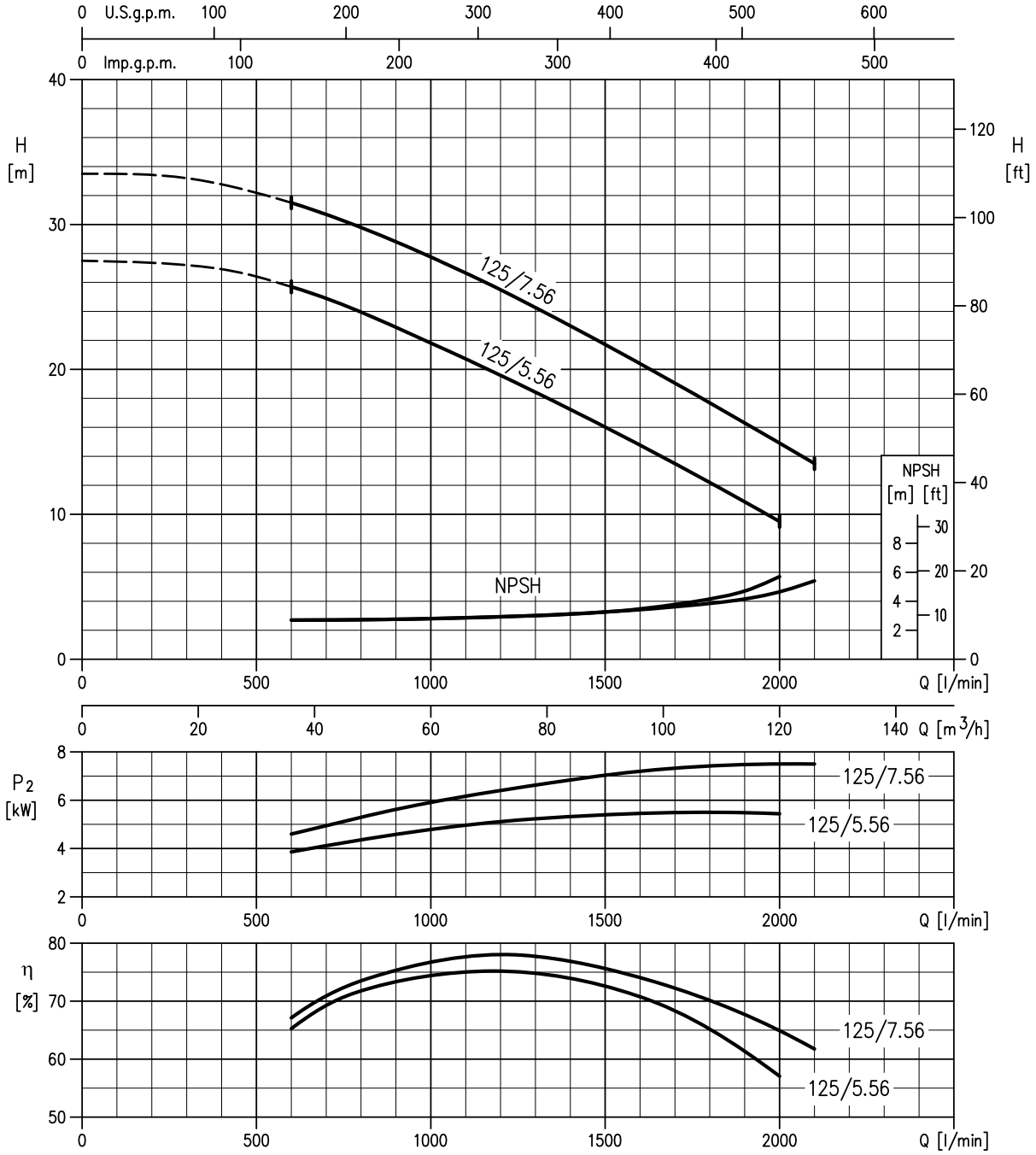
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

65-125/5.56 (5.5 kW) – Impeller diameter = 121 mm
65-125/7.56 (7.5 kW) – Impeller diameter = 132 mm



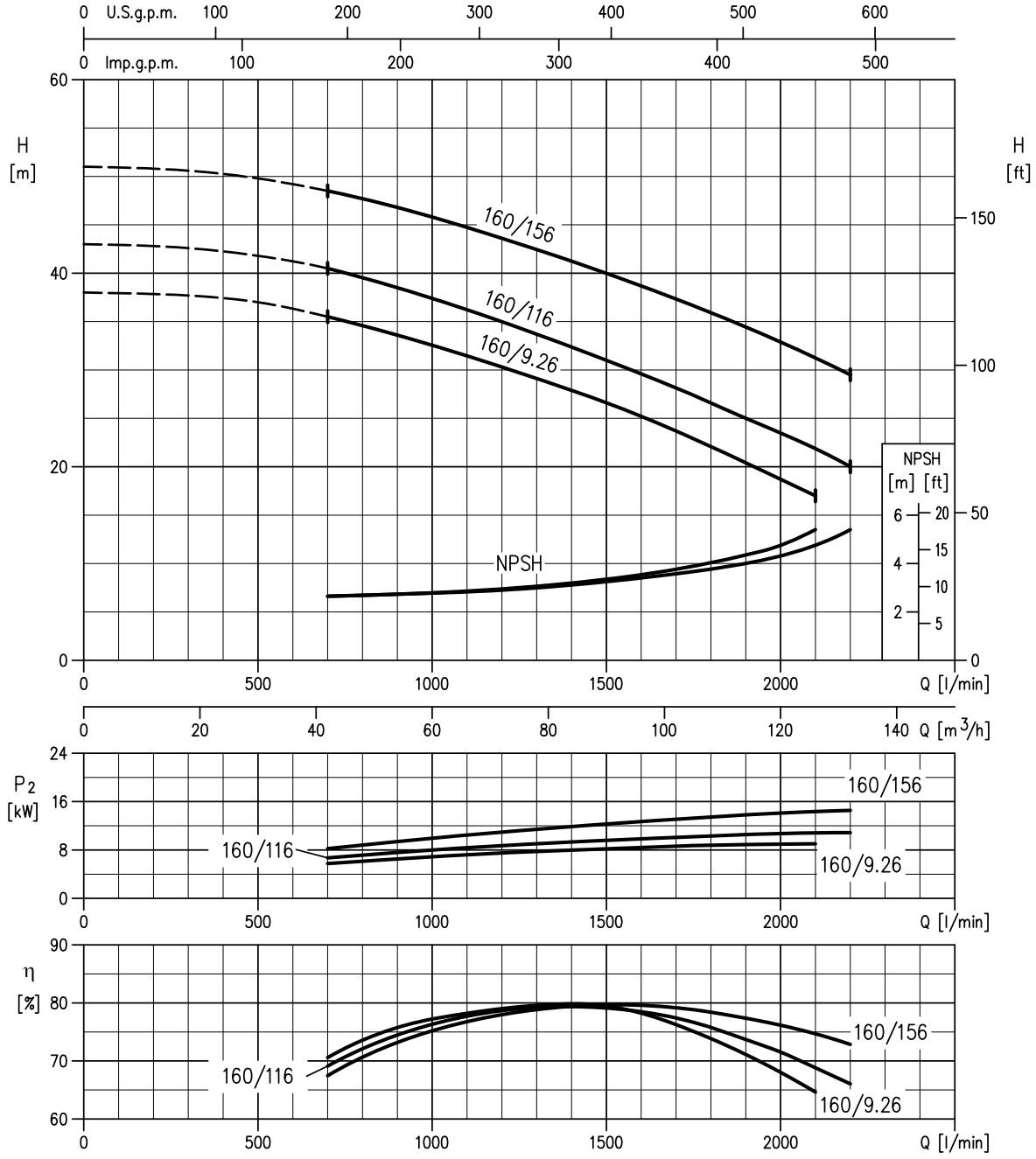
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

65-160/9.26 (9.2 kW) – Impeller diameter = 139 mm
65-160/116 (11 kW) – Impeller diameter = 146 mm
65-160/156 (15 kW) – Impeller diameter = 157 mm



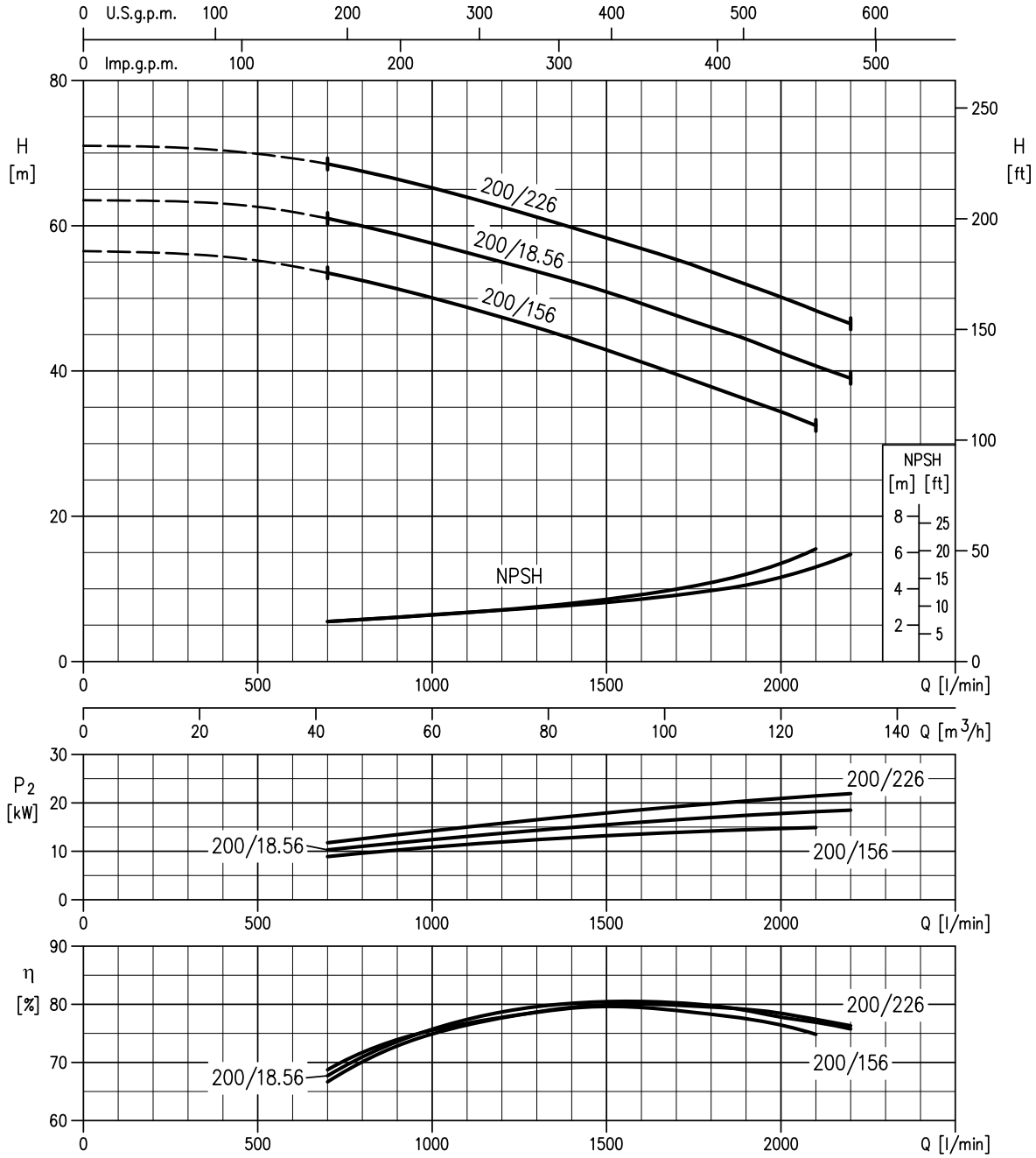
Rotation speed ≈3480min^{-1}
Test standard: ISO 9906 – Annex A

PERFORMANCE CURVE

60Hz

Rev. G

65-200/156 (15 kW) – impeller diameter = 165 mm
65-200/18.56 (18.5 kW) – impeller diameter = 175 mm
65-200/226 (22 kW) – impeller diameter = 184 mm



Rotation speed ≈3520 min-1
Test standard : ISO 9906 Annex A

PERFORMANCE CURVE

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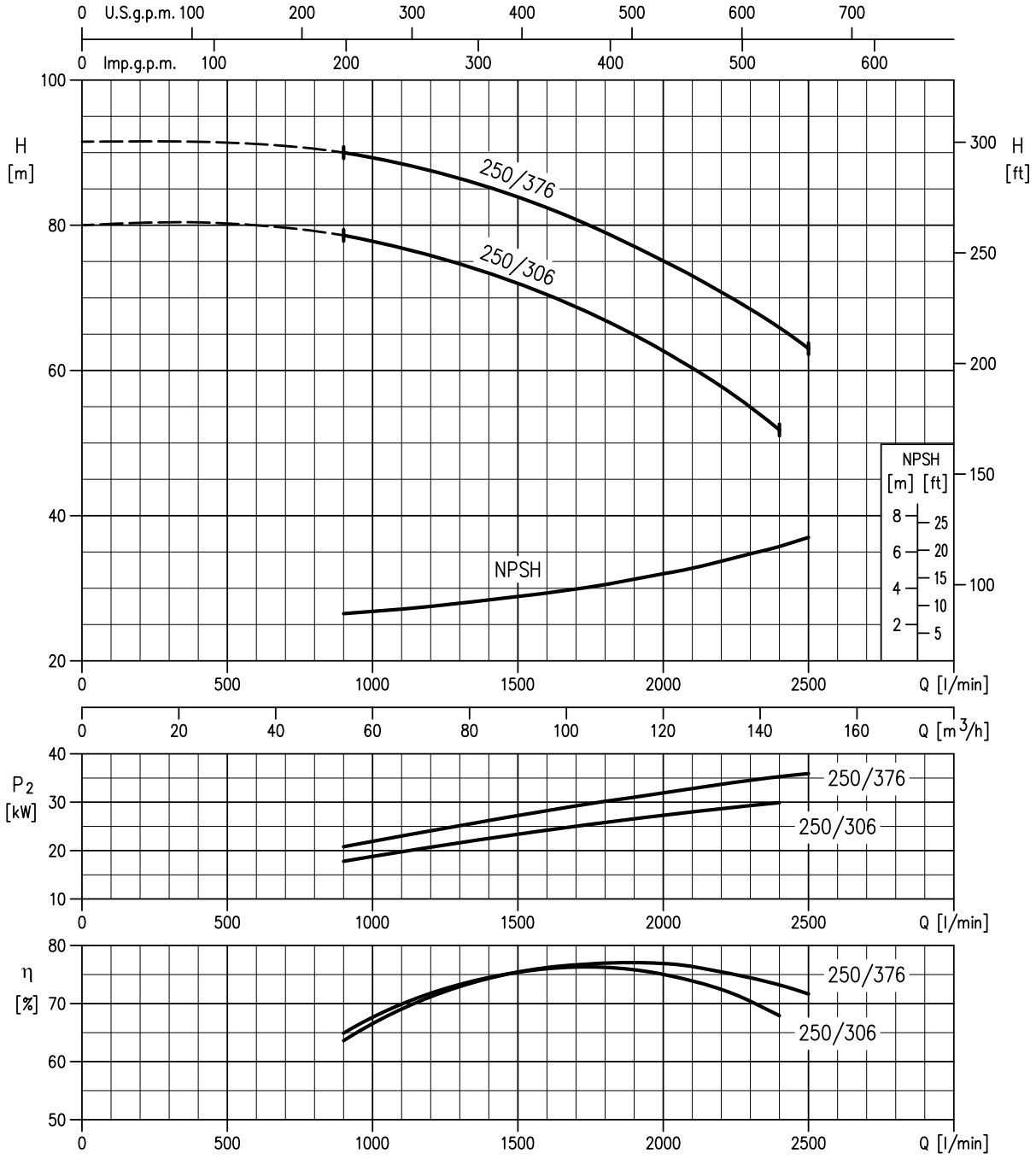
65-250/306 (30 kW) – Impeller diameter = 203 mm
65-250/376 (37 kW) – Impeller diameter = 216 mm



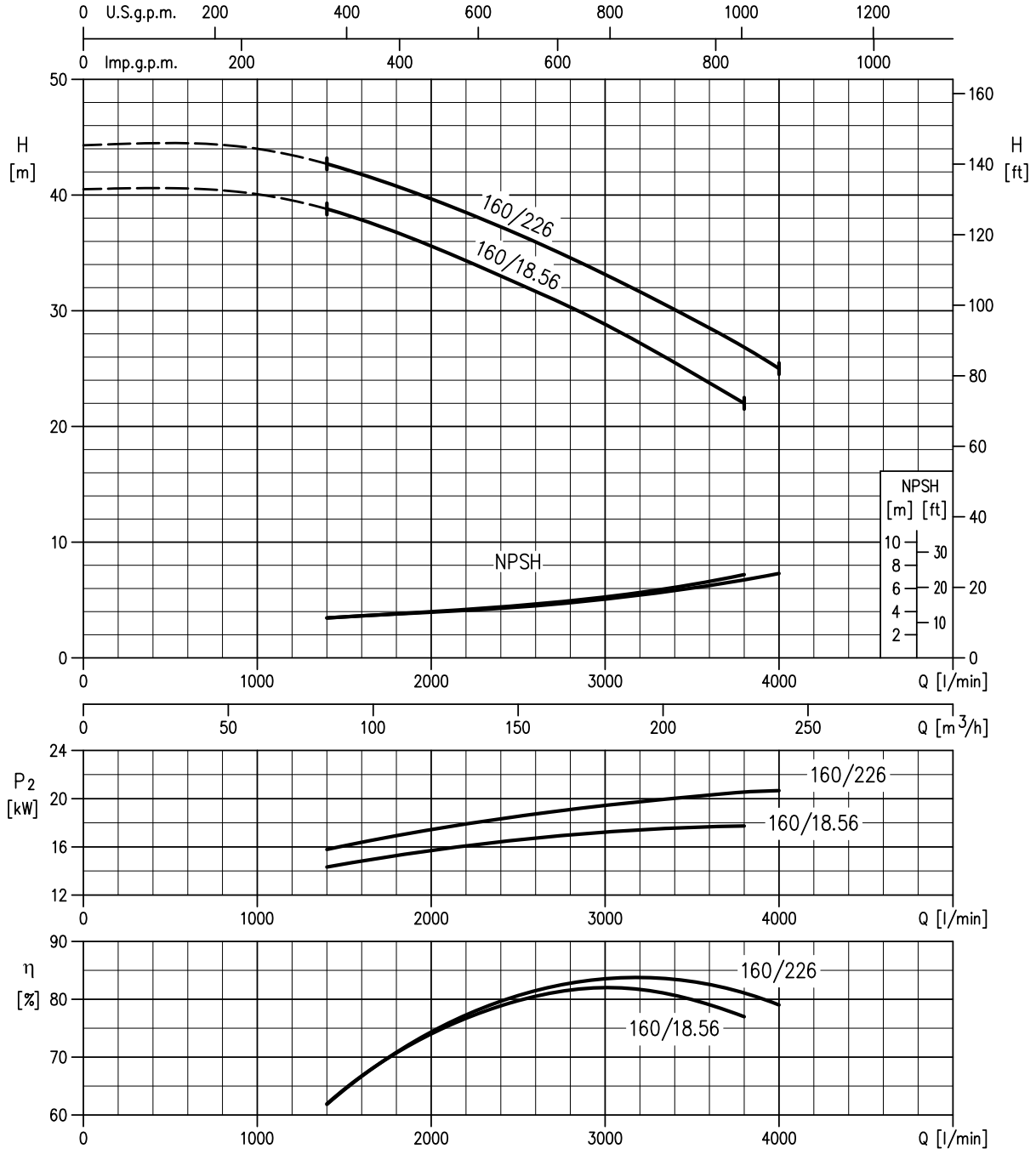
Rotation speed ≈3520 min-1
Test standard : ISO 9906 Annex A

PERFORMANCE CURVE

60Hz

Rev. G

80-160/18.56 (18.5 kW) – Impeller diameter = 151 mm
80-160/226 (22 kW) – Impeller diameter = 157 mm



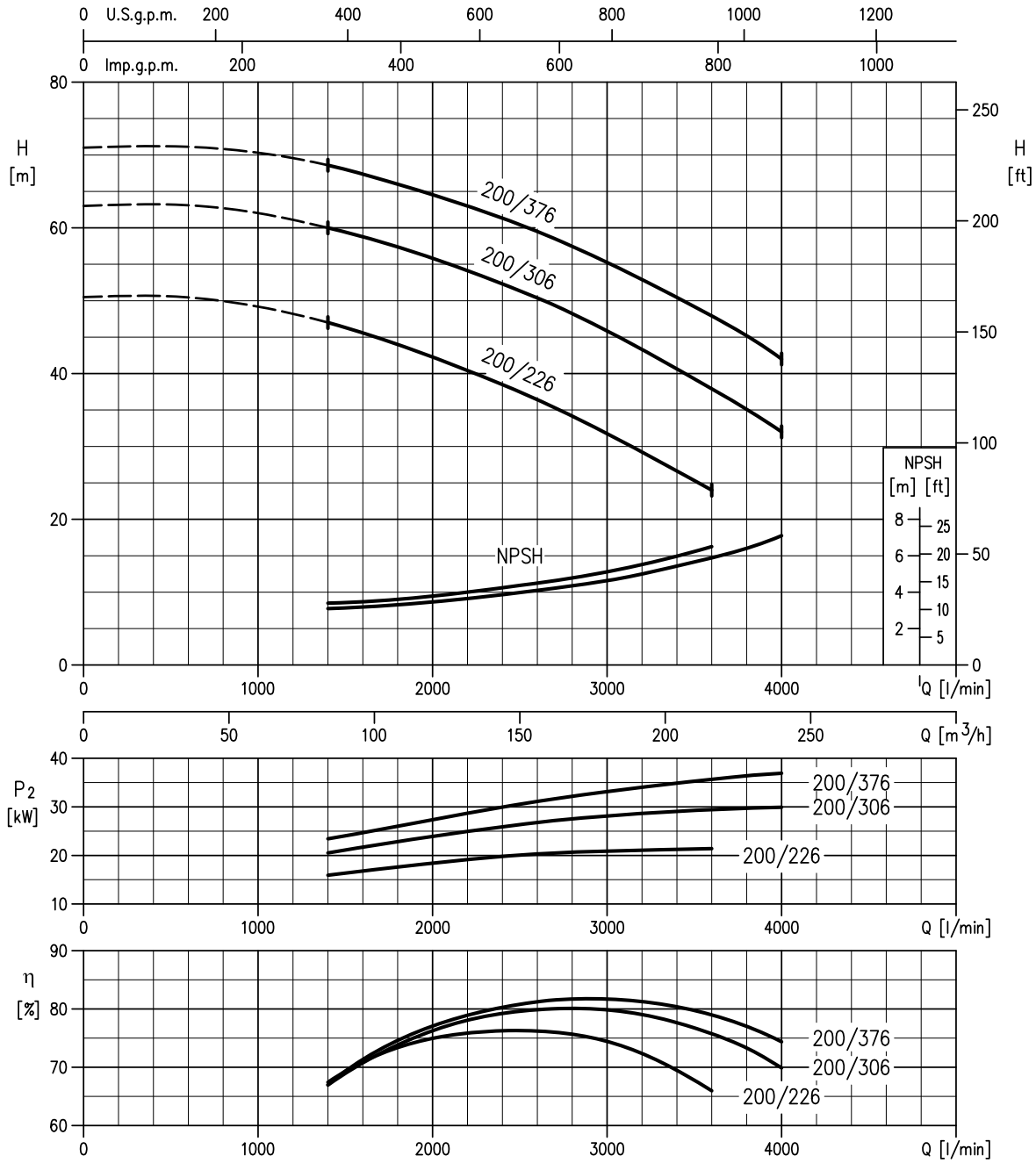
Rotation speed ≈3520 min-1
Test standard : ISO 9906 Annex A

PERFORMANCE CURVE

60Hz

Rev. G

80-200/226 (22 kW) – Impeller diameter = 168 mm
80-200/306 (30 kW) – Impeller diameter = 185 mm
80-200/376 (37 kW) – Impeller diameter = 194 mm



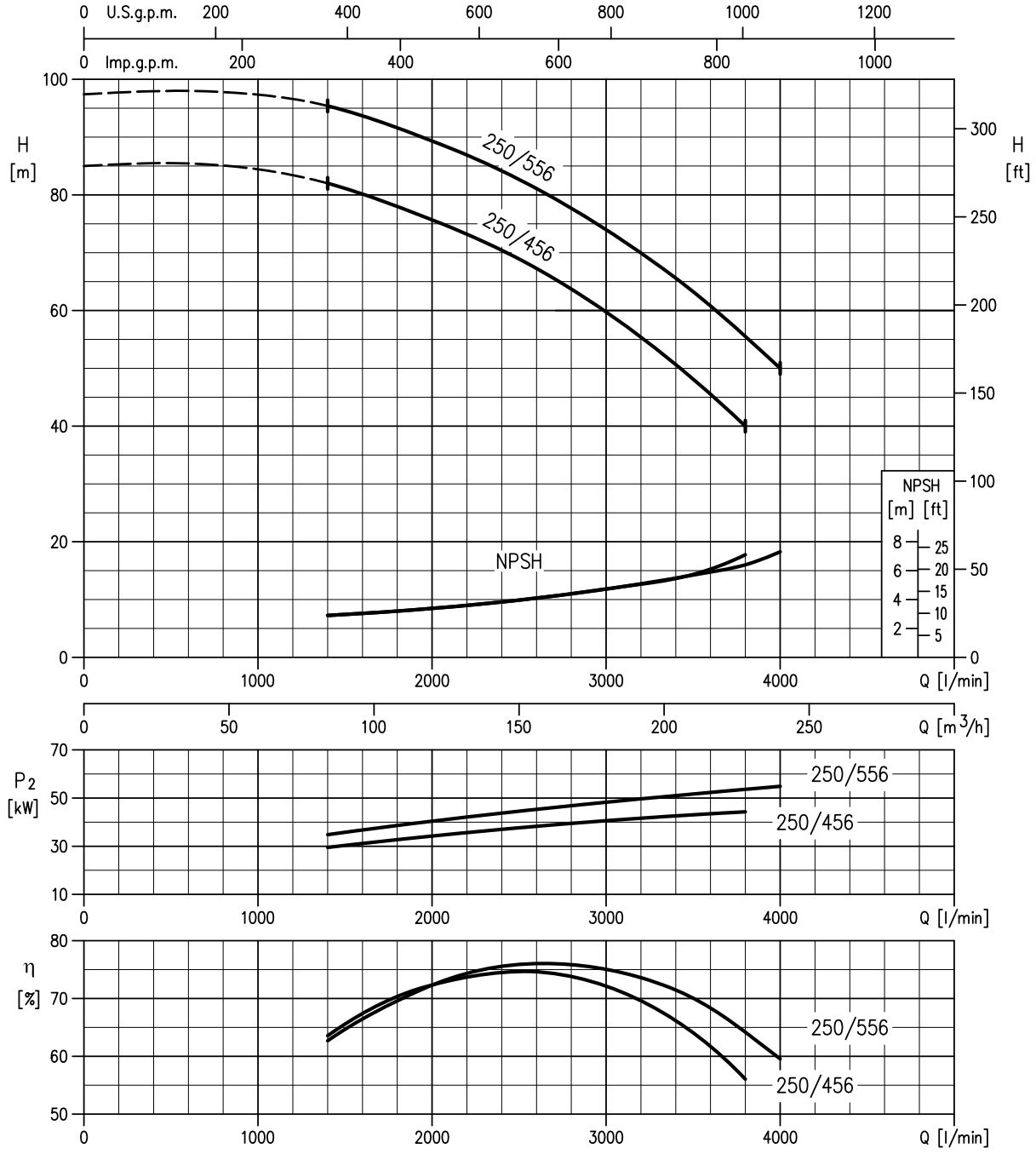
Rotation speed ≈3520 min-1
Test standard : ISO 9906 Annex A

PERFORMANCE CURVE

60Hz

Rev. G

80-250/456 (45 kW) – Impeller diameter = 206 mm
80-250/556 (55 kW) – Impeller diameter = 218 mm



Rotation speed ≈3520 min-1
Test standard : ISO 9906 Annex A

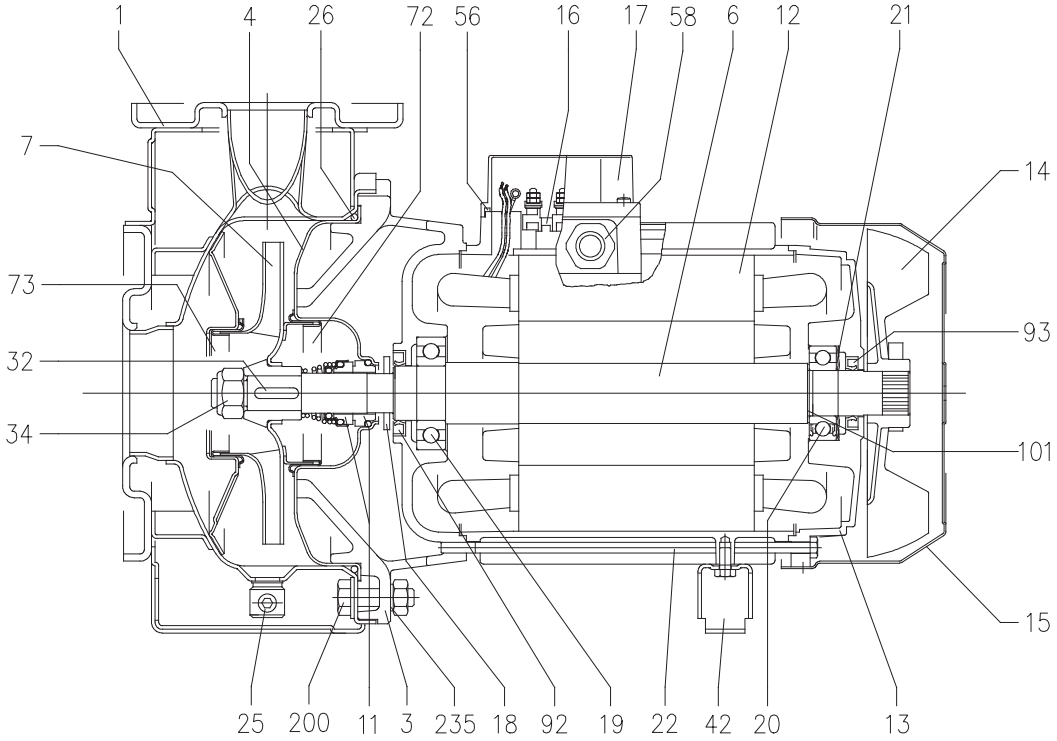
CONSTRUCTION

60Hz

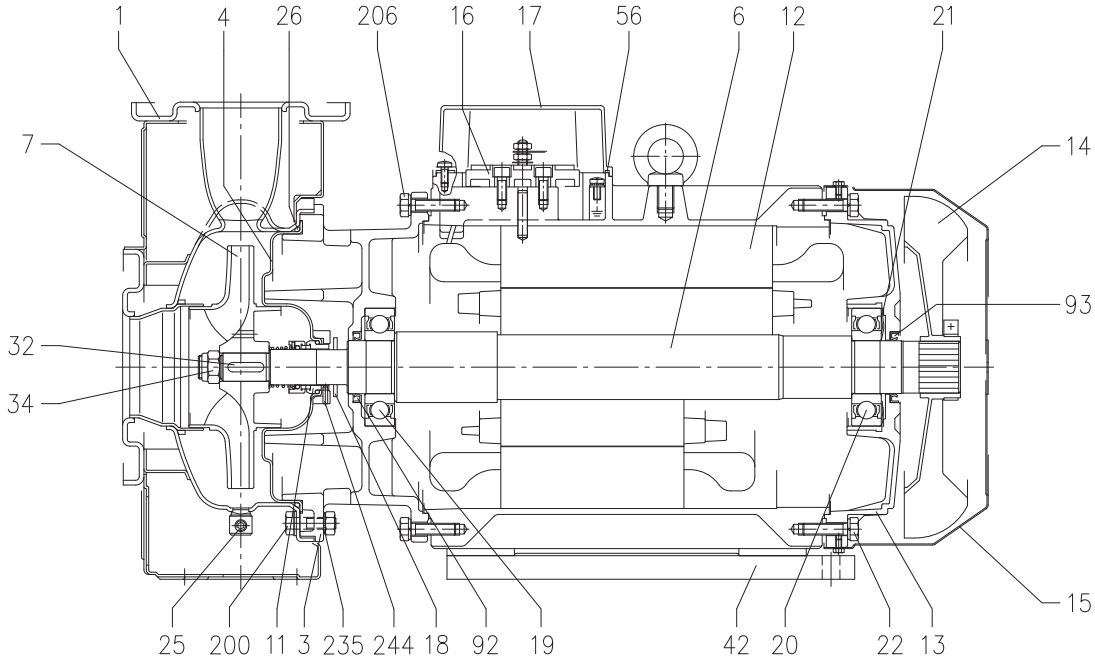
Rev. G

SECTIONAL VIEW DRAWING 3(.)M 32, 40, 50, 65

UP TO 11 kW



15 kW AND ABOVE



CONSTRUCTION

60Hz

Rev. G

SECTIONAL VIEW TABLE 3(.)M 32, 40, 50

N°	PART NAME		MATERIAL 3M	MATERIAL 3LM	DIMENSIONS	STANDARD	Q.TY
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		[3]				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Shaft with rotor-Part in contact with liquid		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 [5]		Carbon / Ceramic / NBR	SiC/SiC/FPM	see p.310-311		1
012	Motor frame with stator		-				1
013	Motor cover		Aluminium				1
014	Fan		PA				1
015	Fan cover		Fe P04 Zincate				1
016	Terminal		-				1
017	Terminal box cover		Aluminium (three phase version)				1
018	Splash ring		NBR	-	40x21.5x3	EBARA DRAWING	[6]
019	Bearing		-		See table p. 309		1
020	Bearing		-		See table p. 309		1
021	Adjusting ring		Steel C70				1
022	Tie rod	For 2.2 - 3 kW	Fe 42 Zincate		M5	EBARA DRAWING	4
		For 4 - 5.5 - 7.5 kW			M6		
		For 9.2 - 11 - 15 kW			M8		
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [4]	FPM	158.11x5.34	OR 6625	1
		40-160, 50-125			183.52x5.34	OR 6720	
		32-160, 32-200, 50-160, 50-200			227.96x5.34	OR 6895	
032	Key		EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
034	Impeller nut		A.270 EN ISO 35062		M16x1.5	UNI 7474	1
042	Foot		Aluminium / Zincate steel			EBARA DRAWING	1
056	Box gasket		NBR				1
058	Fasting nut		-				1
072	Casing ring [1]		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
092	Lip seal	For 2.2 - 3 kW	-	-	25x40x7	DIN 3760 without spring	1
		For 4 - 5.5 - 7.5 kW			30x47X7		
		For 9.2 - 11 - 15 kW			40x55x7		
093	Lip seal	For 2.2 - 3 kW	-	-	25x40x7	DIN 3760 without spring	1
		For 4 - 5.5 - 7.5 kW			30x47X7		
		For 9.2 - 11 - 15 kW			40x55x7		
101	Snap ring (only for 9.2 - 11 - 15 kW)		Carbon tool steels TC 80		Ø 40	UNI 7435	1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		32-160, 32-200 40-160, 40-200, 50-125, 50-160			M 10x35	UNI 5739	[2]
235	Washer	32-125, 40-125	EN 1.4301(AISI 304)		8.4x17	UNI 6592	[2]
		32-160, 32-200 40-160, 40-200, 50-125, 50-160			10.5x21		

Counterflange kit on request see p. 329-330

[1] For version 32-200/5.56, 32-200/7.56, 40-200/5.5, 40-200/116, 40-200/156 50-160/116, 50-160/156

[2] Quantity =10 for 32-160, 40-160, 50-125
Quantity =12 for 32-200, 40-200, 50-160, 50-200

[3] Material: Aluminium EN 1706 AC 46000 D for version, 40-200/116, 40-200/156, 50-160/116, 50-160/156, 50-200/9.26, 50-200/116
Cast iron EN-GJL-200-EN 1561 for other versions.

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

[5] Special version: see page 321 and following

[6] Quantity =1, not for L version

CONSTRUCTION

60Hz

Rev. G

SECTIONAL VIEW TABLE 3(.)M 65

N°	PART NAME		MATERIAL 3M	MATERIAL 3LM	DIMENSIONS	STANDARD	Q.TY
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		[6]				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 316L) Part in contact with liquid			1
007	Impeller		EN 1.4401 (AISI 316)				1
011	Mechanical seal [8]		Carbon / Ceramic / NBR	SiC / SiC / FPM	See p.321÷326		1
012	Motor frame with stator		-				1
013	Motor cover		Aluminium				1
014	Fan		PA				1
015	Fan cover		Fe P04 Zincate				1
016	Terminal		-				1
017	Terminal box cover		Aluminium				1
018	Splash ring	Up to 11 kW	NBR	/	40x21.5x3	EPE DRAWING	[1]
		15 kW and above			50x29.5x3		
019	Bearing		-		See table p.319		1
020	Bearing		-		See table p.319		1
021	Adjusting ring		Steel C70				1
022	Tie rod	Up to 11 kW	Fe 42 Zincate			EPE DRAWING	4
	Screw	15 kW and above	Zn. Steel 8.8 strenght class ISO 898/1			UNI 5739	
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	65-125	NBR [7]	FPM	183.52x5.34	OR 6720	1
		65-160, 65-200			227.96x5.34	OR 6895	
032	Key	Up to 11 kW	EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
		15 kW and above			8x7x30		
034	Impeller nut	Up to 11 kW	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		15 kW and above			M20x1.5		
042	Foot		Aluminium / Zincate steel			EPE DRAWING	[2]
056	Box gasket		NBR				1
058	Fasting nut		-				[3]
092	Lip seal	Up to 7.5 kW	-		30x47X7	DIN 3760 without spring	1
		From 9.2 kW to 11 kW			40x55x7		
		From 15 kW to 22 kW			45x60x7		
093	Lip seal	For 4 kW	-		25x40x7	DIN 3760 without spring	1
		From 5.5 kW to 7.5 kW			30x47X7		
		From 9.2 kW to 11 kW			40x55x7		
		From 15 kW to 22 kW			45x60x7		
101	Snap ring (only 9.2 and 11kW)		Carbon tool steels TC 80		Ø 40	UNI 7435	1
200	Screw		Stainless steel A2-70 class ISO 3506/1		M 10x35	UNI 5739	[4]
206	Screw for bracket [5]		Zincate steel 8.8 strenght class ISO 898/1		M 10x40	UNI 5739	4
244	Pin [9]			EN 1.4301 (AISI 304)	4x15		1
235	Washer		EN 1.4301(AISI 304)		10.5x21	UNI 6592	12

Counterflange kit on request see p. 329-330

[1] Quantity =1, not for L version

[2] Quantity =0 for version 65-160/156
Quantity =1 for version 65-125/5.56, 65-125/7.56, 65-160/9.26, 65-160/116,
Quantity =2 for version 65-200/156, 65-200/18.56, 65-200/226

[3] Quantity =1 Up to 11 kW
Quantity =2 from 15 kW to 22 kW

[4] Quantity =10 for 65-125
Quantity =12 for 65-160 and 65-200

[5] For 15 kW and above

[6] Material: Aluminium EN 1706 AC 46000 D for version 65-160/9.26, 65-160/116.
Cast iron EN-GJL-200-EN 1561 for other versions

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

[8] Special version: see page 321 and following

[9] Only for 65-160/156 and 65-200

CONSTRUCTION

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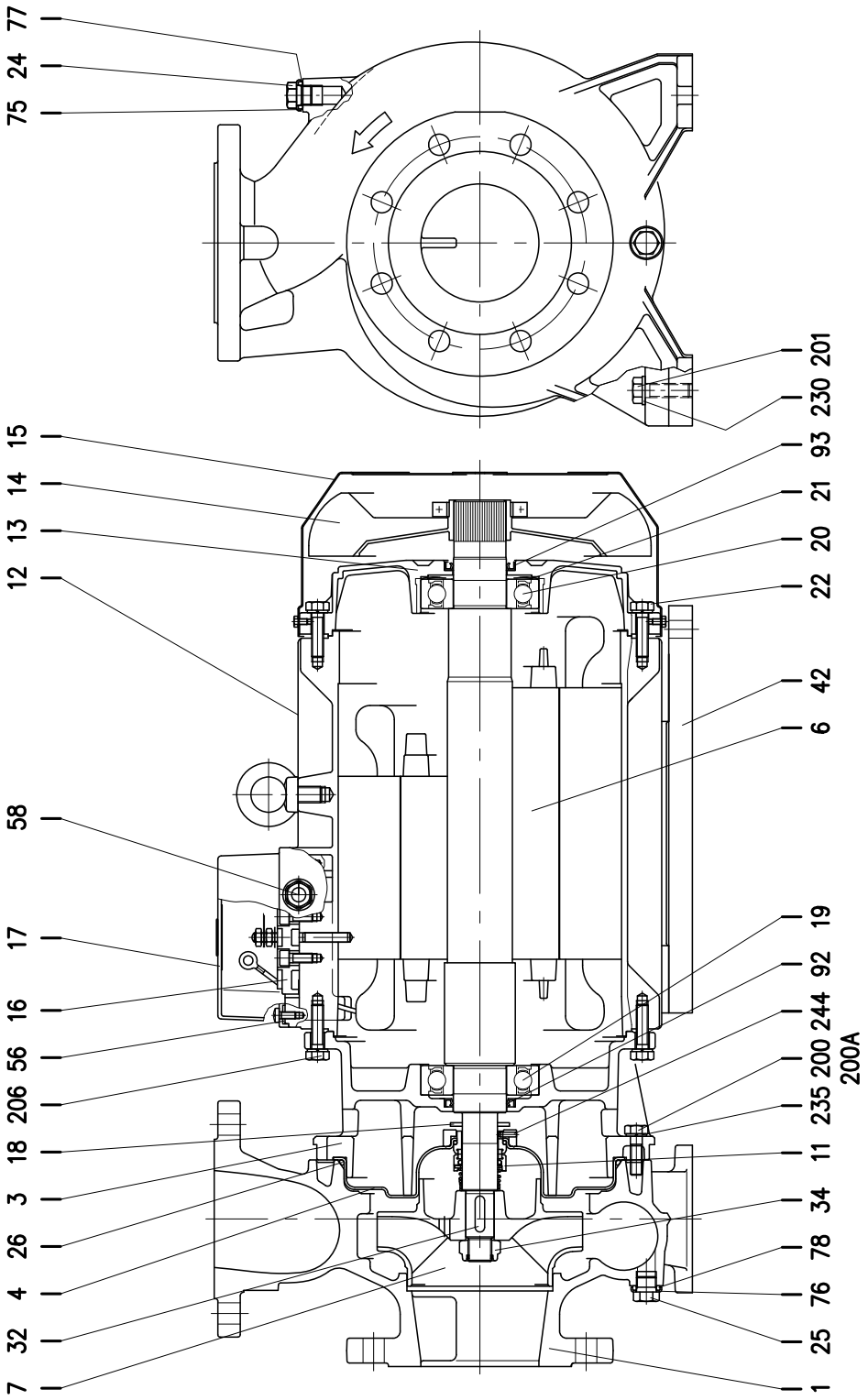
Rev. G

SECTIONAL VIEW DRAWING 3LM 80-160



CONSTRUCTION

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Rev. G

SECTIONAL VIEW TABLE 3LM 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4404 (AISI 316L)			1
006	Shaft with rotor	EN 1.4404(AISI 316L) -Part in contact with liquid			1
007	Impeller	EN 1.4401 (AISI 316)			1
011	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷326		1
012	Motor frame with stator	-			1
013	Motor cover	Aluminium			1
014	Fan	PA			1
015	Fan cover	Fe P04 Zincate			1
016	Terminal	-			1
017	Terminal box cover	Aluminium			1
018	Splash ring	NBR	50x29.5x3	EPE DRAWING	1
019	Bearing	-	See table p. 319		1
020	Bearing	-	See table p. 319		1
021	Adjusting ring	Steel C70			1
022	Screw	Zn. Steel 8.8 strenght class ISO 898/1		UNI 5739	4
024	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G 3/8	EPE DRAWING	1
026	"O" ring	FPM	227.96x5.34	OR 6895	1
032	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
042	Foot	Aluminium		EPE DRAWING	2
056	Box gasket	NBR			1
058	Fasting nut	-			2
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [2]			1
078	O-ring (plug)				1
092	Lip seal	-	45x60x7	DIN 3760 without spring	1
093	Lip seal	-	45x60x7	DIN 3760 without spring	1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
201	Screw	Zincate steel 8.8 strenght class ISO 898/1	M 12x40	UNI 5739	4
206	Screw for bracket	Zincate steel 8.8 strenght class ISO 898/1	M 10x40	UNI 5739	4
230	Washer	Zincate steel	13x24x2.5	UNI 6592	4
235	Washer	EN 1.4301(AISI 304)	10.5	UNI 6592	12
244	Pin [1]	EN 1.4301(AISI 304)	4x15		1

Counterflange kit on request, see p. 329-330

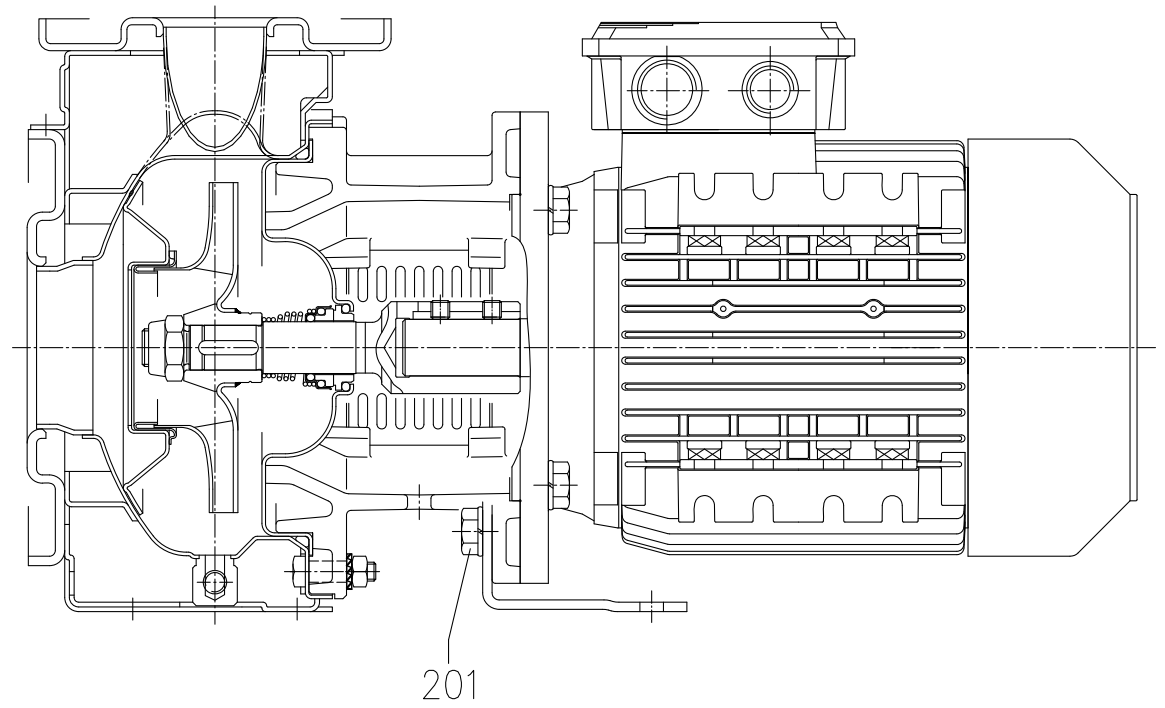
[1] Not for H, HW, HSW, E version
[2] EPDM for E version
[3] Special version: see page 321 and following

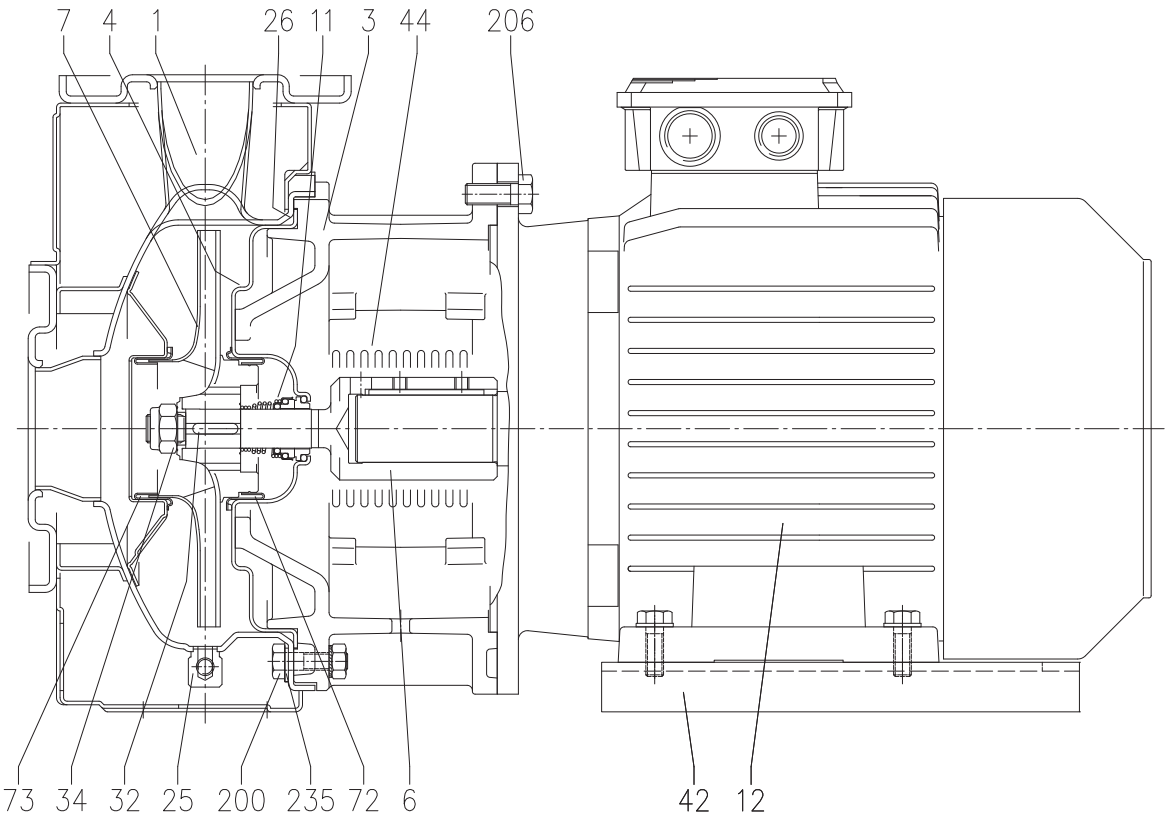
CONSTRUCTION

60Hz

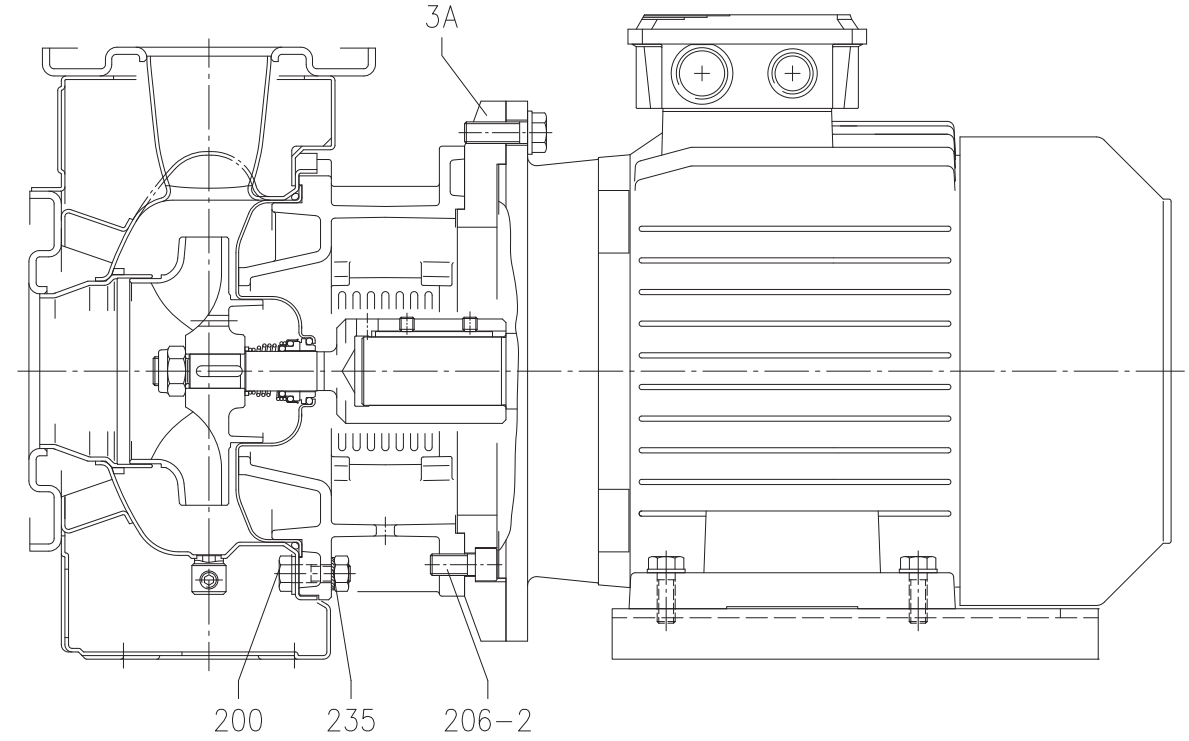
Rev. G

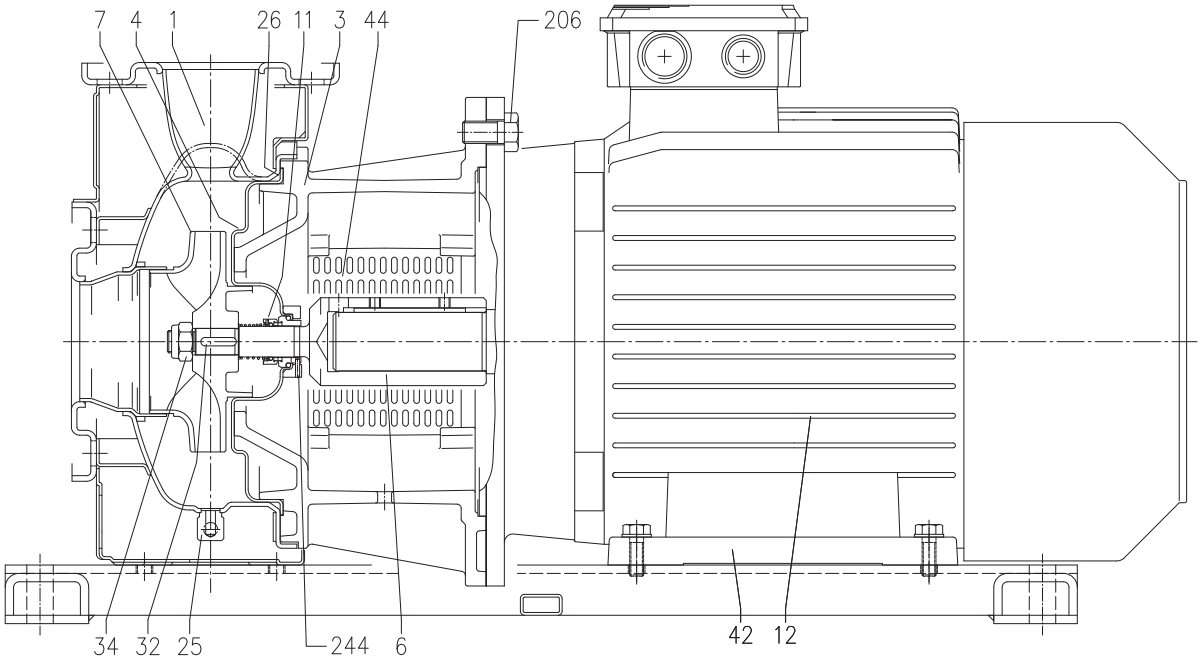
SECTIONAL VIEW DRAWING 3(.)S 32, 40, 50





SECTIONAL VIEW DRAWING 3(.)S 65-125/160/200





CONSTRUCTION

60Hz

Rev. G

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

N°	PART NAME		MATERIAL 3S	MATERIAL 3LS	DIMENSIONS	STANDARD	Q.TY
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
003A	Adapter ring [1]		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	See table p. 326		1
007	Impeller		EN 1.4301 (AISI 304) / EN 1.4401 (AISI 316) [9]	EN 1.4404 (AISI 316L)			1
011	Mechanical seal [7]		Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321-326		1
012	Motor		-				1
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [8]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key	Up to 11 kW	EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
		15 kW and above			8x7x30		
034	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		15 kW and above			M20x1.5		
042	Foot		Aluminium / Zinc-coated steel				[2]
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 (not for 65 version)		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
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[4]
201	Screw		Zn. Steel 8.8 strenght class ISO 898/1		M 10x16	UNI 5739	[5]
206	Screw for bracket		Zn. Steel 8.8 strenght class ISO 898/1		M 10x40	UNI 5739	4
206-2	Screw adapter ring [1]		Zn. Steel 8.8 strenght class ISO 898/1			UNI 5931	4
235	Washer	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8.4x17	UNI 6592	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10.5x21	UNI 6592	[4]
244	Pin [6]		-	EN 1.4301 (AISI 304)		UNI 5931	4

Counterflange kit on request see p. 328-329

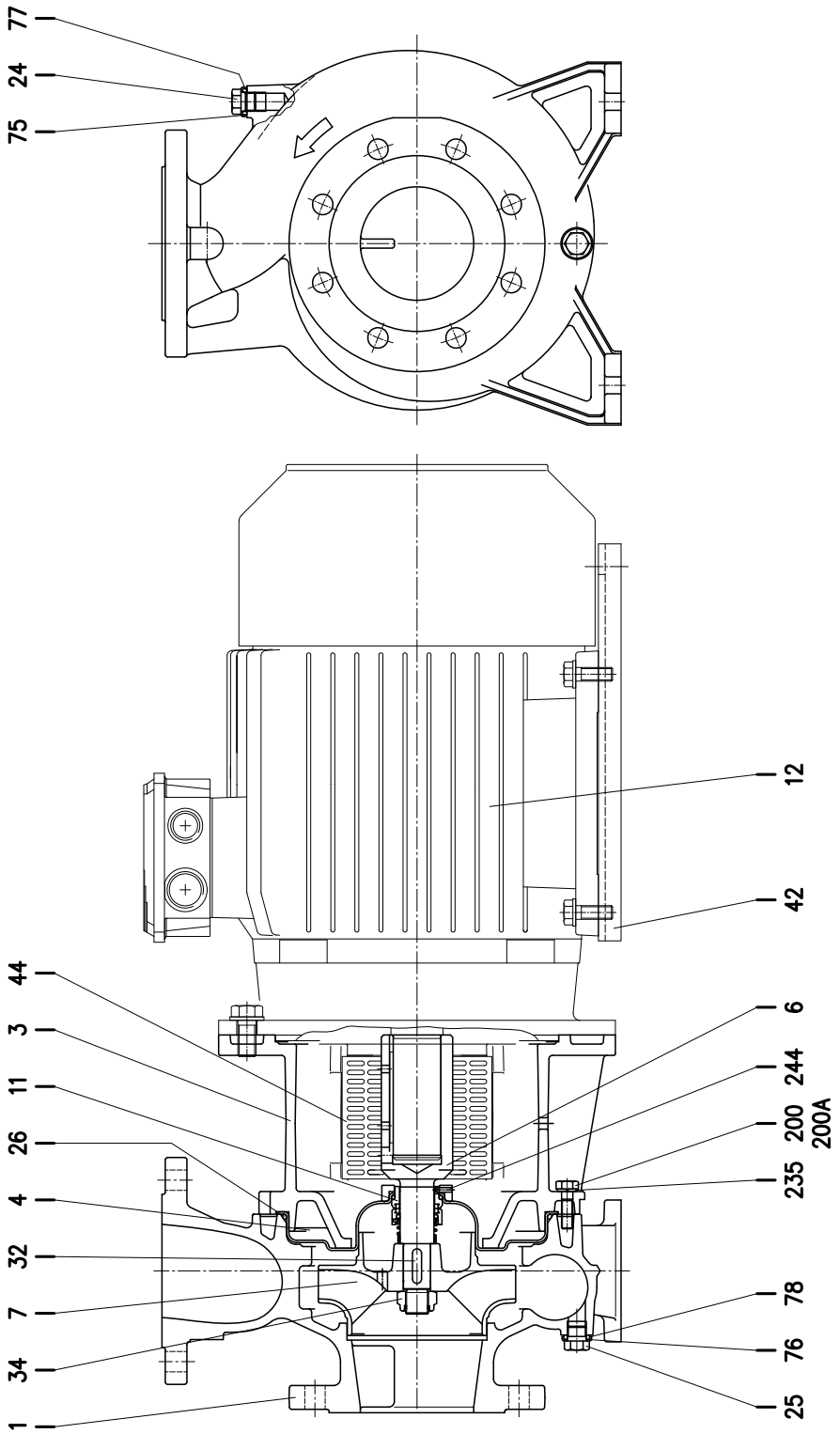
[1] Only for version 65-125/5.56 and 65-125/7.56
[2] Quantity =0 for version 65-200/226
Quantity =1 for version for 32, 40, 50, 65-125/5.56, 65-125/7.56, 65-160/116, 65-160/156, 65-200/156, 65-200/18.56
Quantity =2 for version for 65-160/9.26
[3] Only for version 32-200, 40-200, 50-160
[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125
Quantity =12 for 32-200, 40-200, 50-160, 65-160, 65-200
[5] Only for version 32-125, 32-160, 40-125
[6] Only for 65-160/156, 65-200
[7] Special version: see page 321 and following
[8] FPM for H, HS, HW, HSW version
EPDM for E version
[9] Only for version 65-125/160/200

CONSTRUCTION

60Hz

Rev. G

SECTIONAL VIEW DRAWING 3LS 80-160



CONSTRUCTION 60Hz

Rev. G

SECTIONAL VIEW TABLE 3LS 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI 316)			1
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4404 (AISI 316L)			1
006	Coupling	EN 1.4404 (AISI 316L)	See table p. 327		1
007	Impeller	EN 1.4401 (AISI 316)			1
011	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷326		1
012	Motor	-			1
024	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
026	"O" ring	FPM [2]	227.96x5.34	OR 6895	1
032	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
034	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
042	Foot	Aluminium		EPE DRAWING	2
044	Protection	EN 1.4301 (AISI 304)		EPE DRAWING	2
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [2]			1
078	O-ring (plug)				1
200	Screw	Stainless steel A2-70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
235	Washer	EN 1.4301(AISI 304)	10.5x21	UNI 6592	12
244	Pin [1]	EN 1.4301(AISI 304)	4x15		1

Counterflange kit on request see p. 329-330

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

CONSTRUCTION

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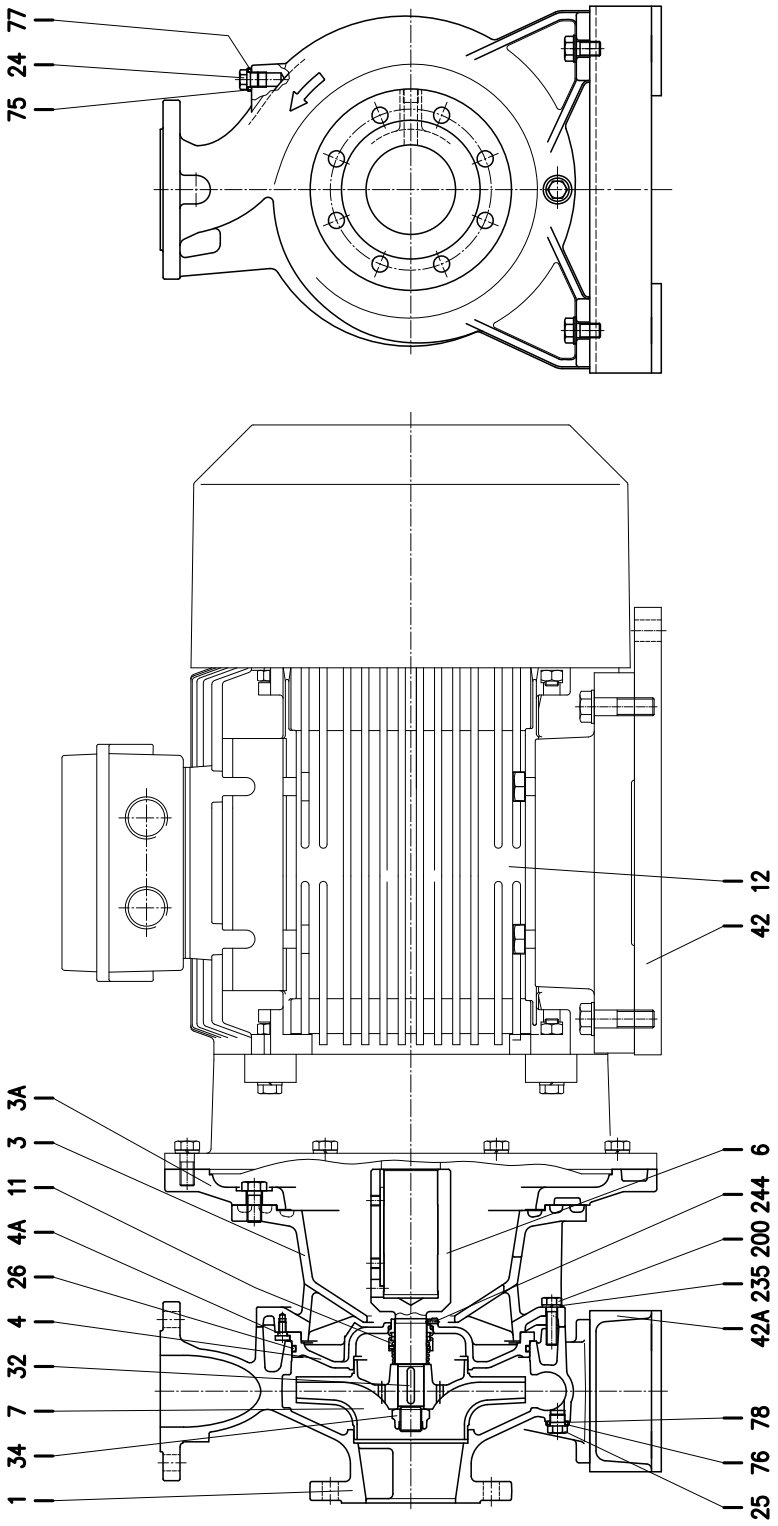
Rev. G

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



CONSTRUCTION 60Hz

Rev. G

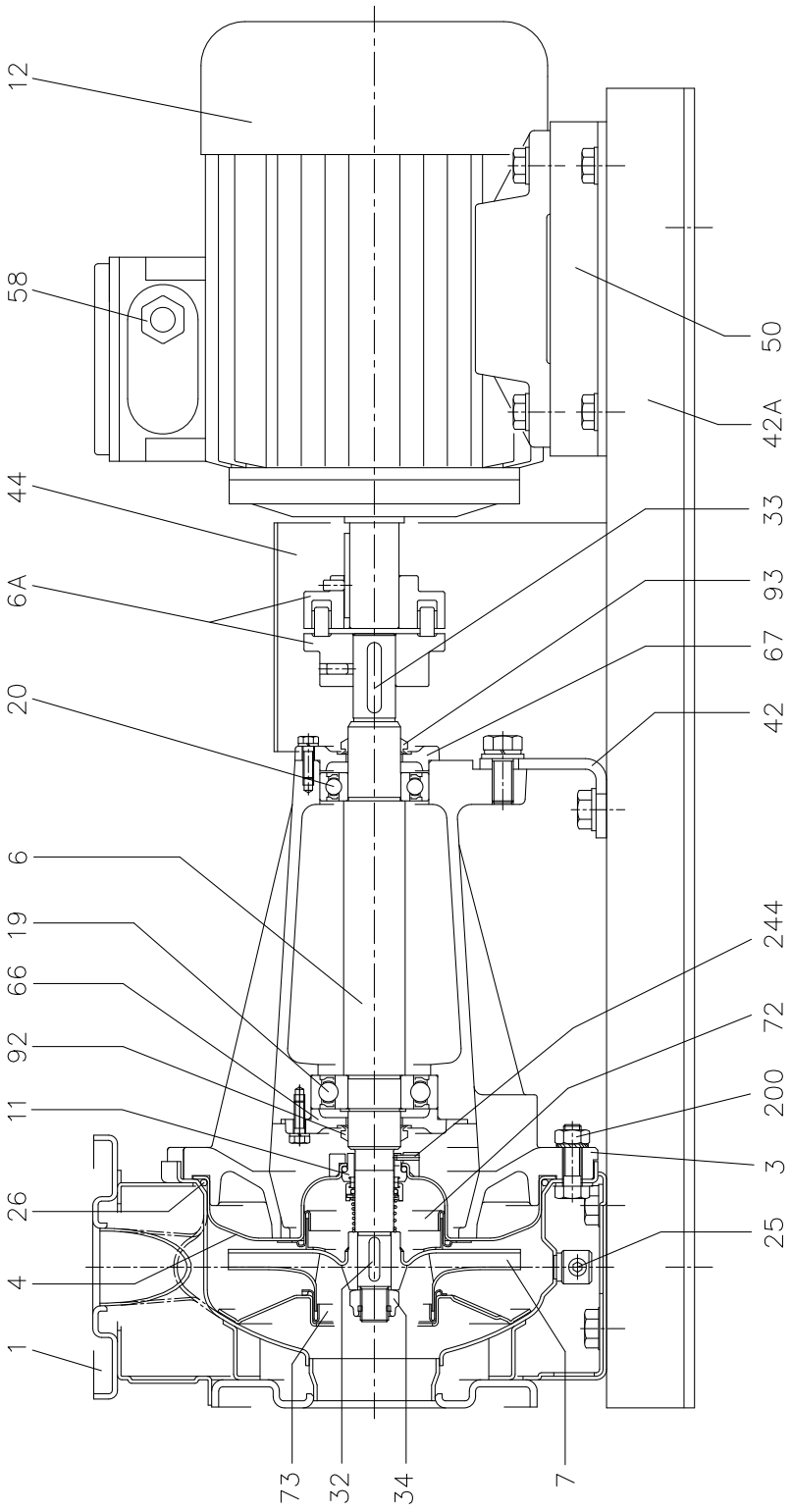
SECTIONAL VIEW TABLE 3LS 65-250, 80-200/250

N°	PART NAME			MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing			EN 1.4401 (AISI 316)			1
003	Motor bracket			Cast iron EN-GJL-200-EN 1561			1
003A	Adapter ring			Cast iron EN-GJL-200-EN 1561			[1]
004	Casing cover			EN 1.4401 (AISI 316)			1
004A	Screw for casing cover			EN 1.4301(AISI 304)			2
006	Coupling	65-250	d=24 mm	EN 1.4404 (AISI 316L) for 22 kW	See table p. 326		1
				EN 1.4462 (Duplex stainless steel) for 30-37 kW			1
		80-200	d=24 mm	EN 1.4404 (AISI 316L) for 22 kW			1
				EN 1.4462 (Duplex stainless steel) for 30-37 kW			1
		80-250	d=29 mm	EN 1.4462 (Duplex stainless steel)			1
007	Impeller			EN 1.4401 (AISI 316)			1
011	Mechanical seal [6]			SiC/SiC/FPM	See p. 321-326		1
012	Motor			-			1
024	Plug			EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
025	Plug			EN 1.4404 (AISI 316L)	G3/8	EPE DRAWING	1
026	"O" ring			FPM [5]	253.36x5.34	OR 6995	1
032	Key	65-250	d=24 mm	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
		80-200					1
		80-250	d=29 mm		8x7x40		1
034	impeller nut	65-250	d=24 mm	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
		80-200					1
		85-250	d=29 mm		M24x2		1
042	Foot for motor			Aluminium		EPE DRAWING	[2]
042A	Foot for pump			Aluminium/zincate steel (only for 80-250/55)			[3]
075	Washer (plug)			EN 1.4404 (AISI 316L)			1
076	Washer (plug)						1
077	O-ring (plug)			FPM [5]			1
078	O-ring (plug)						1
200	Screw			Stainless steel A2-70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer			C70	13	UNI 1751	10
244	Pin [4]			EN 1.4301(AISI 304)	4x12		1

Counterflange kit on request, see table p. 329-330

[1] Only for 65-250/376 , 80-200/376 , 80-250/456 and 80-250/556
[2] Quantity =2 for only 80-250/556
[3] Quantity =2 for 80-200/306, 80-200/376, 80-250/456
Quantity =1 for 80-250/556
[4] Not for H, HW, HSW, E version
[5] EPDM for E version
[6] Special version: see page 321 and following

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



CONSTRUCTION 60Hz

Rev. G

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

N°	PART NAME		MATERIAL 3P	MATERIAL 3LP	DIMENSIONS	STANDARD	Q.TY
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 - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006A	Flexible coupling		Cast iron EN-GJL-250-EN 1561		See table pag. 328		1
007	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
			EN 1.4401 (AISI 316) [6]				
011	Mechanical seal [5]		Carbon/Ceramic/NBR	SiC/SiC/FPM	See p. 321÷326		1
012	Motor		-				1
019	Bearing		-		See table p. 320		1
020	Bearing		-		See table p. 320		1
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [4]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200, 50-160, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key	Up to 11 kW	EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
		15 kW and above			8x7x30		
033	Key		C 40		8x7x40	UNI 6604	1
034	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		15 kW and above			M20x1.5		
042	Pump support		Fe 37 Zincate			EBARA DRAWING	1
42A	Base		Fe 37 Zincate				1
044	Protection		Fe 37 Zincate				1
050	Foot		Aluminium / Zincate steel				1
058	Fasting 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
072	Casing ring [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
092	"V" ring		-		VS - 0030		1
093	"V" ring		-		VS - 0030		1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[2]
244	Pin [3]		/	EN 1.4301 (AISI 304)	4x15		1

Counterflange kit on request see p. 329-330

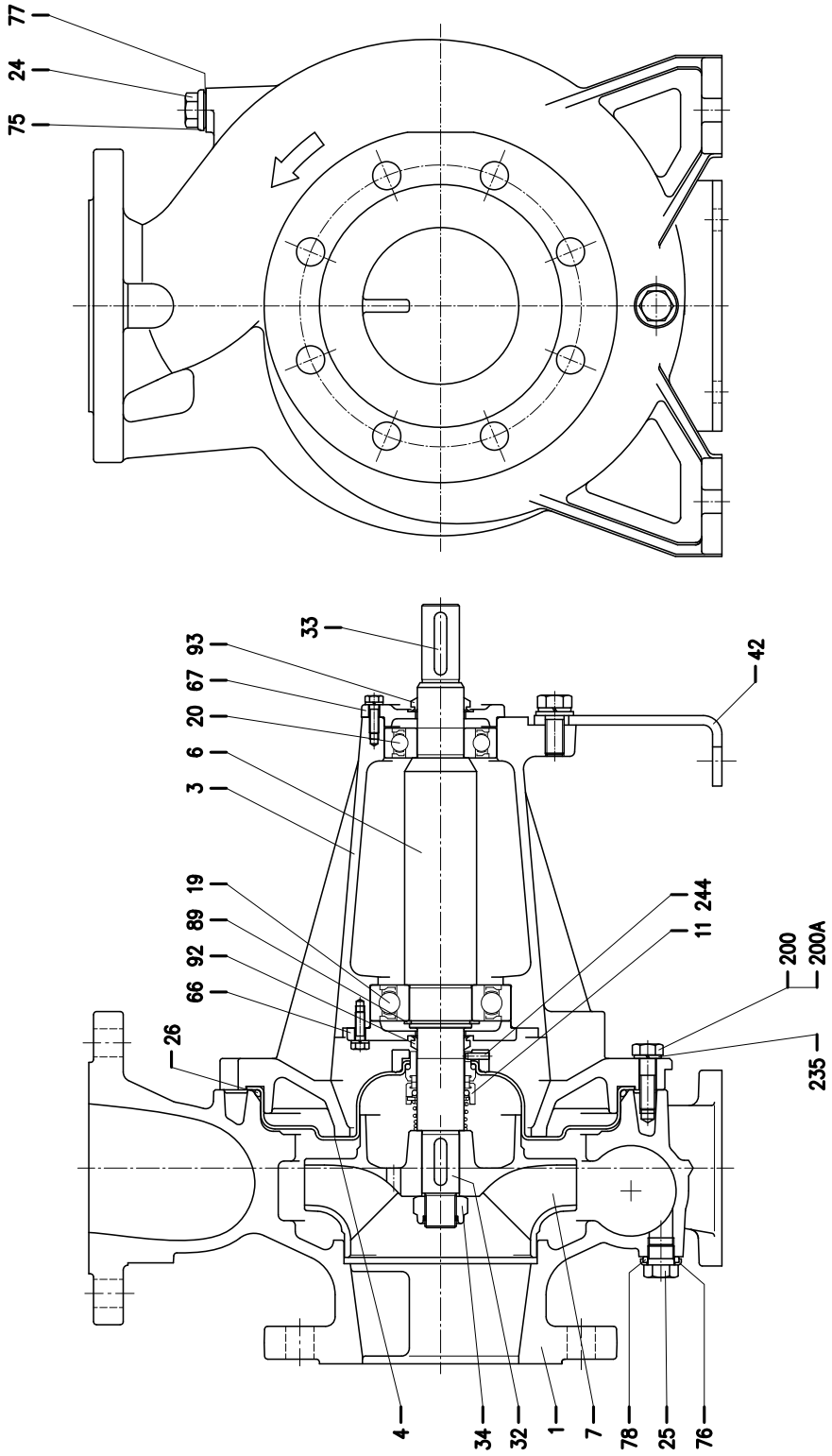
[1] For version: 32-200/5.56, 40-200/116, 50-200/116, 50-200/156
[2] Quantity =10 for 32-160, 40-160, 50-125, 65-125
Quantity =12 for 32-200, 40-200, 50-160, 65-160, 65-200
[3] Only for 65-160/156 and 65-200
[4] FPM for H, HS, HW, HSW version
EPDM for E version
[5] Special version: see page 321 and following
[6] Only for 65-125/160/200

CONSTRUCTION

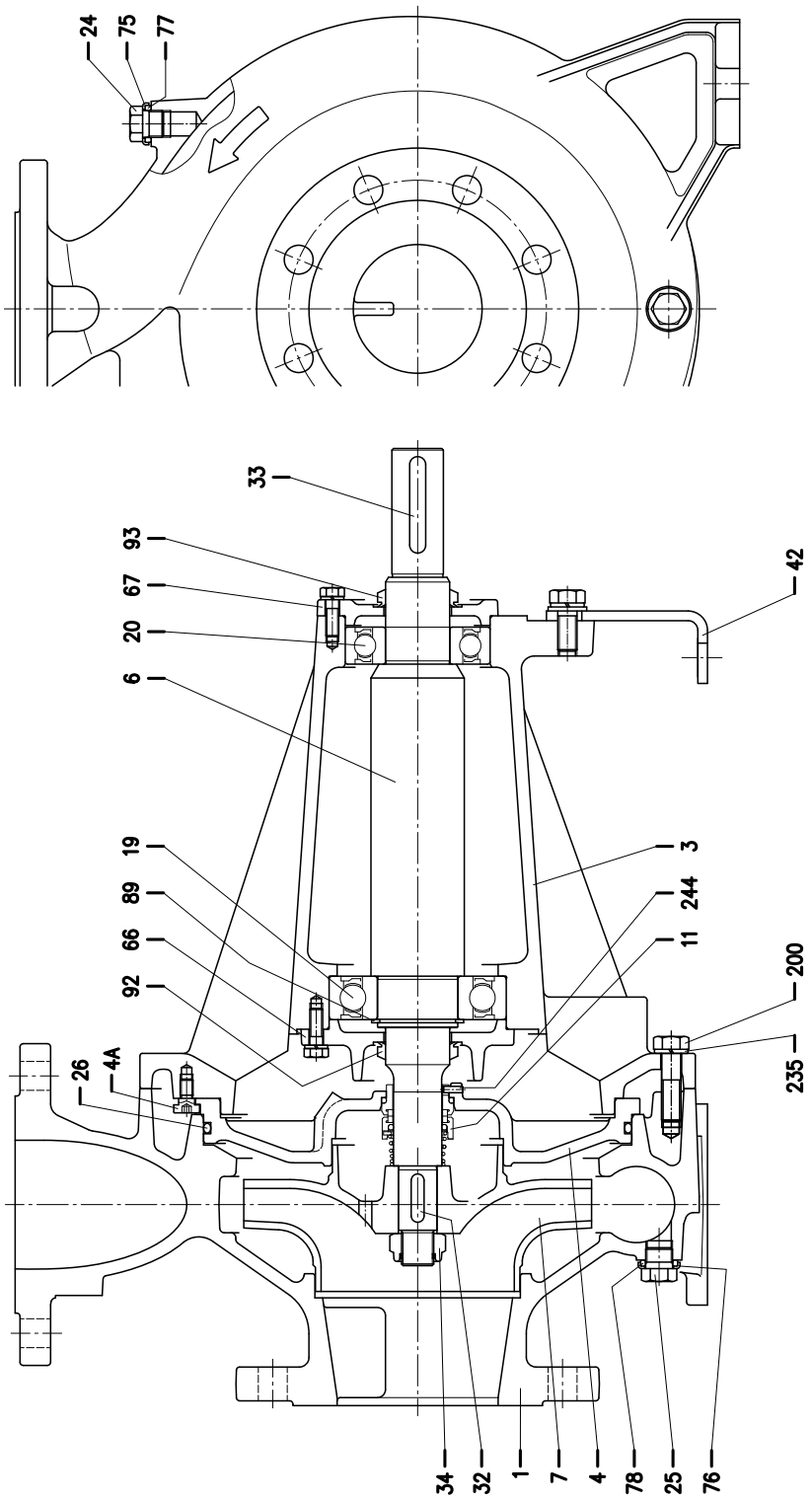
60Hz

Rev. G

SECTIONAL VIEW DRAWING 3LP 80-160



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

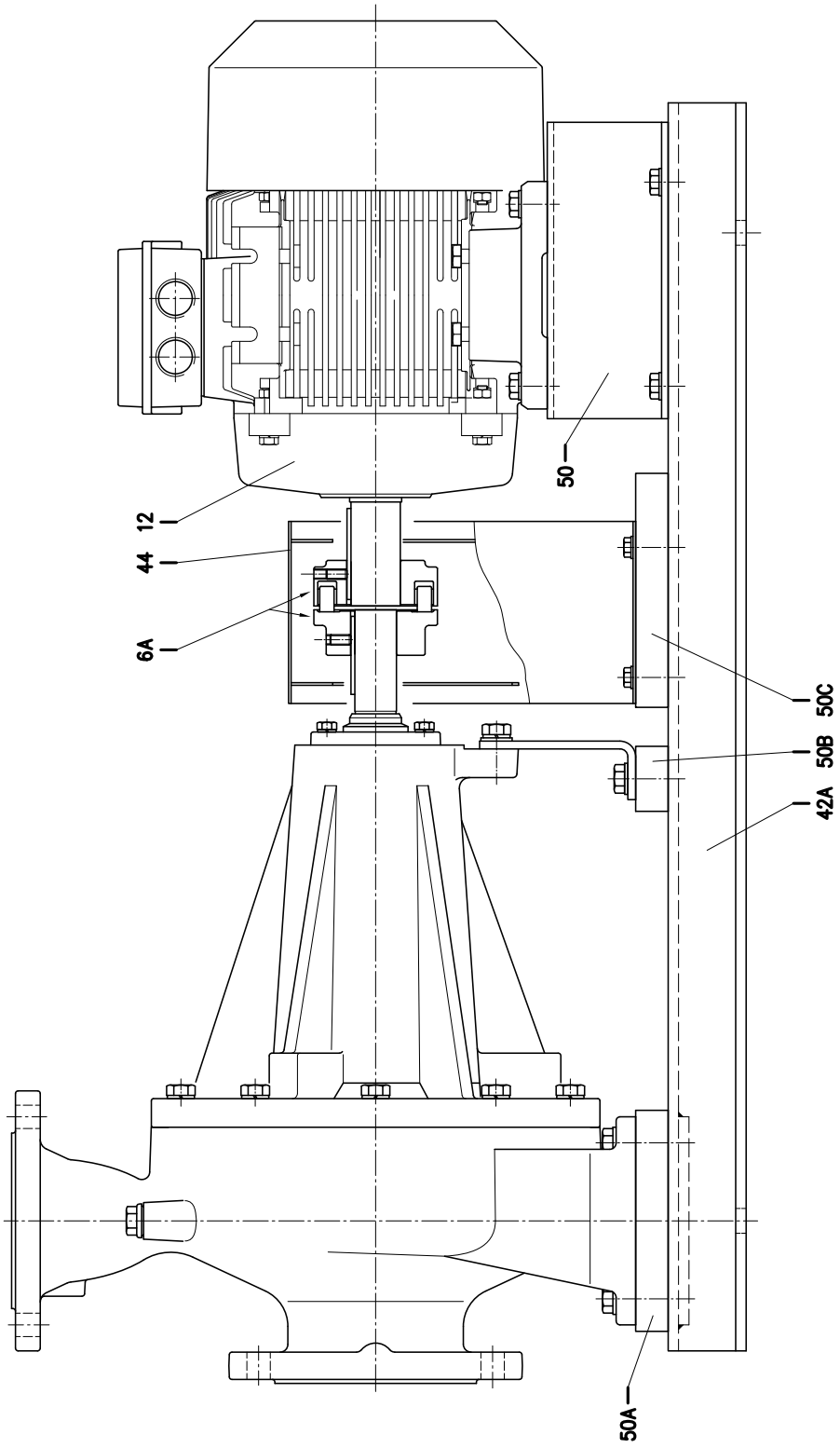


CONSTRUCTION

60Hz

Rev. G

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



CONSTRUCTION 60Hz

Rev. G

SECTIONAL VIEW TABLE 3LP 80-160

N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing	EN 1.4401 (AISI316)			1
003	Support	Cast iron EN-GJL-200-EN 1561			1
004	Casing cover	EN 1.4404 (AISI316L)			1
006	Shaft	EN 1.4404 (AISI316L) - Wet extension			1
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	See table p. 328		1
007	Impeller	EN 1.4401 (AISI316)			1
011	Mechanical seal [3]	SiC/SiC/FPM	See p. 321÷326		1
012	Motor	-			1
019	Bearing	-	See table p. 320		1
020	Bearing	-	See table p. 320		1
024	Plug	EN 1.4404 (AISI316L)	G3/8	EPE DRAWING	1
025	Plug	EN 1.4404 (AISI316L)	G3/8	EPE DRAWING	1
026	"O" ring	FPM [2]	227.96x5.34	OR 6895	1
032	Key	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1
033	Key	C 40	8x7x40		1
034	Impeller nut	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1
042	Pump support	Zincate steel		EPE DRAWING	1
042A	Base	Zincate steel		EPE DRAWING	1
044	Protection	Zincate steel		EPE DRAWING	1
050	Foot	Aluminium		EPE DRAWING	2
050A	Spacer for pump	/			/
050B	Spacer for pump	/			/
050C	spacer for protection	/			/
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
075	Washer (plug)	EN 1.4404 (AISI 316L)			1
076	Washer (plug)				1
077	O-ring (plug)	FPM [2]			1
078	O-ring (plug)				1
089	Snap ring	Carbon tool steels TC 80	Ø 40	UNI 7435	1
092	"V" ring	-	VS-0030		1
093	"V" ring				1
200	Screw	Stainless steel A2 70 class ISO 3506/1	M 10x35	UNI 5739	10
200A	Screw		M 10x30		2
235	Washer	EN 1.4301(AISI 304)	10.5	UNI 8842	12
244	Pin [1]	EN 1.4301(AISI 304)	4x15	UNI 6873	1

Counterflange kit on request, see table p. 329-330

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

For drawing see p.314

CONSTRUCTION 60Hz

Rev. G

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

N°	PART NAME		MATERIAL	DIMENSIONS	STANDARD	Q.TY
001	Casing		EN 1.4401 (AISI316)			1
003	Support		Cast iron EN-GJL-200-EN 1561			1
004	Casing cover		EN 1.4401 (AISI316)			1
004A	Screw for casing cover		EN 1.4301 (AISI 304)			2
006	Shaft		EN 1.4462 (Duplex stainless steel) - Wet extension			1
006A	Flexible coupling		Cast iron EN-GJL-250-EN 1561	See table p. 327		1
007	Impeller		EN 1.4401 (AISI316)			1
011	Mechanical seal [5]		SiC/SiC/FPM	See p. 321-326		1
012	Motor		-			1
019	Bearing		-	See table p. 320		1
020	Bearing		-	See table p. 320		1
024	Plug		EN 1.4404 (AISI316L)	G3/8		1
025	Plug		EN 1.4404 (AISI316L)	G3/8		1
026	"O" ring		FPM [4]	253.36x5.34	OR 6995	1
032	Key	65-250 80-200 d=24 mm	EN 1.4401 (AISI 316)	8x7x30	UNI 6604	1 1
		80-250 d=29 mm		8x7x40		1
033	Key		C 40	10x8x60	UNI 6604	1
034	impeller nut	65-250 80-200 d=24 mm	EN 1.4404 (AISI 316L)	M20x1.5	UNI 7474	1 1
		80-250 d=29 mm		M24x2		1
042	Pump support		Zincate steel			1
042A	Base		Zincate steel			1
044	Protection		Zincate steel			1
050	Foot		Aluminium			0
050A	Spacer		Aluminium			[1]
050B	Spacer		Aluminium			[2]
050C	Spacer for protection		Aluminium			[3]
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
075	Washer (plug)		EN 1.4404 (AISI 316L)			1
076	Washer (plug)					1
077	O-ring (plug)		FPM [4]			1
078	O-ring (plug)					1
089	Snap ring		Carbon tool steels TC 80	Ø 50	UNI 7435	1
092	"V" ring		-	VS-0040		1
093	"V" ring					1
200	Screw		Stainless steel A2 70 class ISO 3506/1	M 12x45	UNI 5739	10
235	Washer		EN 1.4301 (AISI 304)	13	UNI 8842	10
244	Pin [3]		EN 1.4301 (AISI 304)	4x12	UNI 6873	1

Counterflange kit on request, see table p. 329-330

[1] Quantity =0 for 65-250, 80-200/226 and 80-250/556
Quantity =2 for 80-200/306, 80-200/376 and 80-250/456
[2] Quantity =0 for 65-250, 80-200/226 and 80-250/556
Quantity =2 for 80-200/306, 80-200/376 and 80-250/456
[3] Not for H, HW, HSW, E version.
[4] EPDM for E version
[5] Special version: see page 321 and following

For drawing see p.315-316

BEARINGS 3(.)M

Pump type	Ball Bearing			
	Pump side	(*) Pump side	Fan side	(*) Fan side
3(.)M 32-125/2.26	6205-2RSH	6205-ZZ C3	6205-2RSH	6205-ZZ C3
3(.)M 32-160/3.06				
3(.)M 32-160/4.06	6206-2RSH	6206-ZZ C3		
3(.)M 32-200/5.56	6306-2RS1	6306-ZZ C3	6206-2RS1	6206-ZZ C3
3(.)M 32-200/7.56				
3(.)M 40-125/3.06	6205-2RSH	6205-ZZ C3	6205-2RSH	6205-ZZ C3
3(.)M 40-125/4.06	6206-2RS1	6206-ZZ C3		
3(.)M 40-160/5.56	6306-2RS1	6306-ZZ C3	6206-2RS1	6206-ZZ C3
3(.)M 40-160/7.56				
3(.)M 40-200/116	6308-ZZ	6308-ZZ C3	6208-ZZ	6208-ZZ C3
3(.)M 40-200/156	6309-ZZ	6309-ZZ C3	6309-ZZ	6309-ZZ C3
3(.)M 50-125/5.56	6306-2RS1	6306-ZZ C3	6206-2RS1	6206-ZZ C3
3(.)M 50-125/7.56				
3(.)M 50-160/116	6308-ZZ	6308-ZZ C3	6208-ZZ	6208-ZZ C3
3(.)M 50-160/156	6309-ZZ	6309-ZZ C3	6309-ZZ	6309-ZZ C3
3(.)M 65-125/5.56	6306-2RS1	6306-ZZ C3	6206-2RS1	6206-ZZ C3
3(.)M 65-125/7.56				
3(.)M 65-160/9.26	6308-ZZ	6308-ZZ C3	6208-ZZ	6208-ZZ C3
3(.)M 65-160/116				
3(.)M 65-160/156	6309-ZZ	6309-ZZ C3	6309-ZZ	6309-ZZ C3
3(.)M 65-200/156				
3(.)M 65-200/18.56				
3(.)M 65-200/226				
3LM 80-160/18.5	6309-ZZ	6309-ZZ C3	6309-ZZ	6309-ZZ C3
3LM 80-160/226				

(*) Only for IE3 Motors

CONSTRUCTION

60Hz

Rev. G

BEARINGS 3(.)S-3(.)P

Pump type	Ball bearing	
	Pump side	Fan side
3(.)S 32-125/2.26	6205-2Z C3	6205-2Z C3
3(.)S 32-160/3.06	6206-2Z C3	6206-2Z C3
3(.)S 32-160/4.06	6306-2Z C3	6306-2Z C3
3(.)S 32-200/5.56	6208-2Z C3	6208-2Z C3
3(.)S 32-200/7.56		
3(.)S 40-125/3.06	6206-2Z C3	6206-2Z C3
3(.)S 40-125/4.06	6306-2Z C3	6306-2Z C3
3(.)S 40-160/5.56	6208-2Z C3	6208-2Z C3
3(.)S 40-160/7.56		
3(.)S 40-200/116	6309-2Z C3	6309-2Z C3
3(.)S 40-200/156		
3(.)S 50-125/5.56	6208-2Z C3	6208-2Z C3
3(.)S 50-125/7.56		
3(.)S 50-160/116	6309-2Z C3	6309-2Z C3
3(.)S 50-160/156		
3(.)S 65-125/5.56	6208-2Z C3	6208-2Z C3
3(.)S 65-125/7.56		
3(.)S 65-160/9.26		
3(.)S 65-160/116	6309-2Z C3	6309-2Z C3
3(.)S 65-160/156		
3(.)S 65-200/156		
3(.)S 65-200/18.56		
3(.)S 65-200/226	6311 C3	6311 C3
3LS 65-250/306	6312 C3	6312 C3
3LS 65-250/376		
3LS 80-160/18.56	6309-2Z C3	6309-2Z C3
3LS 80-160/226	6311 C3	6311 C3
3LS 80-200/226		
3LS 80-200/306	6312 C3	6312 C3
3LS 80-200/376		
3LS 80-250/456	6313 C3	6313 C3
3LS 80-250/556	6314 C3	6314 C3 1)

Pump type	Ball bearing			
	Pump		Motor	
	Pump side	Motor side	Pump side	Fan side
3(.)P 32-125/2.26	6306-2RS1	6206-2RS1	6205-2Z C3	6205-2Z C3
3(.)P 32-160/3.06			6206-2Z C3	6206-2Z C3
3(.)P 32-160/4.06			6306-2Z C3	6306-2Z C3
3(.)P 32-200/5.56			6208-2Z C3	6208-2Z C3
3(.)P 32-200/7.56				
3(.)P 40-125/3.06	6306-2RS1	6206-2RS1	6206-2Z C3	6206-2Z C3
3(.)P 40-125/4.06			6306-2Z C3	6306-2Z C3
3(.)P 40-160/5.56			6208-2Z C3	6208-2Z C3
3(.)P 40-160/7.56				
3(.)P 40-200/116			6309-2Z C3	6309-2Z C3
3(.)P 40-200/156				
3(.)P 50-125/5.56			6208-2Z C3	6208-2Z C3
3(.)P 50-125/7.56				
3(.)P 50-160/116	6308-2RS1	6306-2RS1	6309-2Z C3	6309-2Z C3
3(.)P 50-160/156				
3(.)P 65-125/5.56			6208-2Z C3	6208-2Z C3
3(.)P 65-125/7.56				
3(.)P 65-160/9.26	6308-2RS1	6306-2RS1		
3(.)P 65-160/116			6309-2Z C3	6309-2Z C3
3(.)P 65-160/156				
3(.)P 65-200/156				
3(.)P 65-200/18.56				
3(.)P 65-200/226			6311 C3	6311 C3
3LP 65-250/306	6310-2RS1	6308-2RS1	6312 C3	6312 C3
3LP 65-250/376				
3LP 80-160/18.56			6309-2Z C3	6309-2Z C3
3LP 80-160/226			6311 C3	6311 C3
3LP 80-200/226	6310-2RS1 C3	6308-2RS1 C3		
3LP 80-200/306			6312 C3	6312 C3
3LP 80-200/376				
3LP 80-250/456			6313 C3	6313 C3
3LP 80-250/556			6314 C3	6314 C3 1)

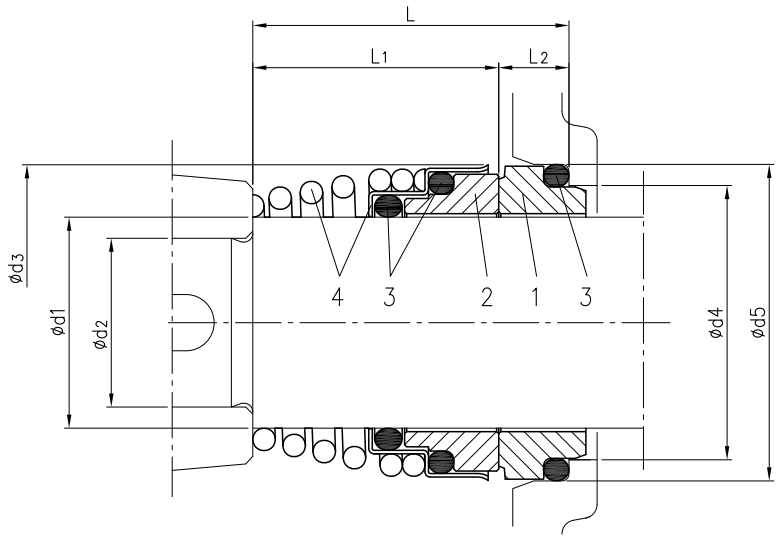
1) Motor available with lubrificator for regular re-greasing of bearing.

CONSTRUCTION

60Hz

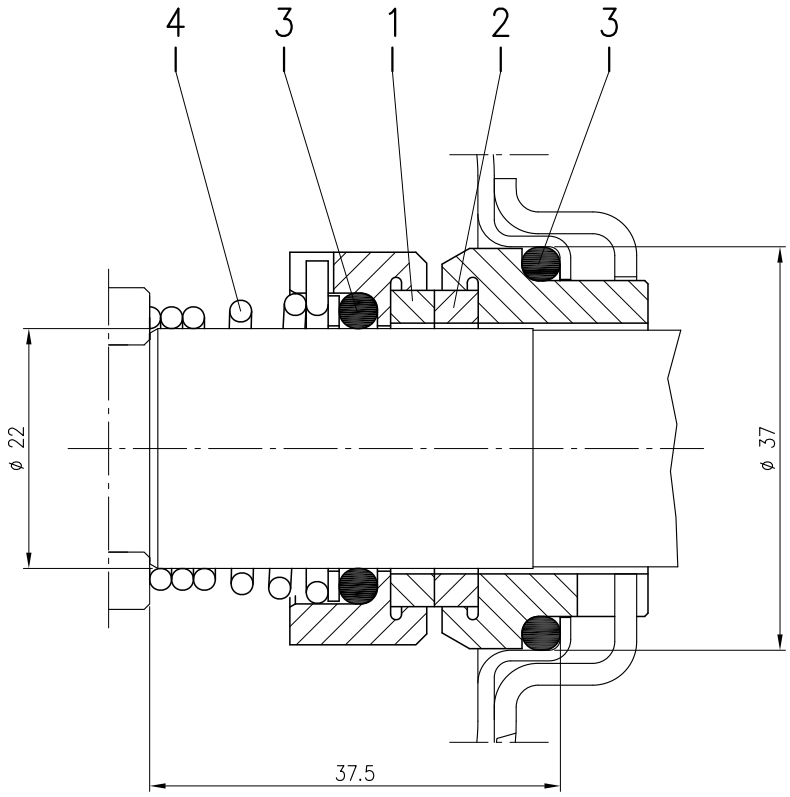
Rev. G

MECHANICAL SEAL (standard, H and E version)



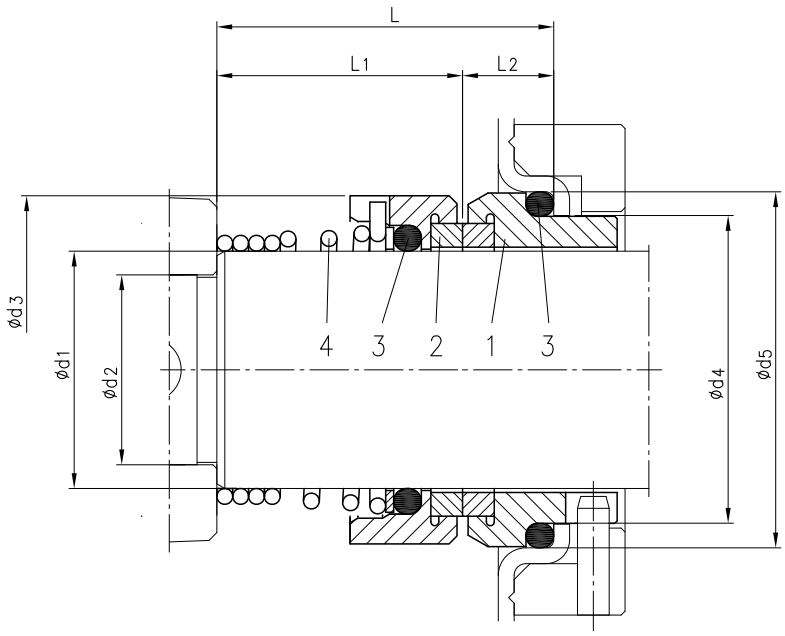
Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
Standard	32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	65-160/156 65-200	30	24	46	39	45	42.5	32.5	10				
H	32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	FPM	EN 1.4401 (AISI 316)
	65-160/156 65-200 65-250 80-160/200	30	24	46	39	45	42.5	32.5	10				
	80-250	35	29	50	44	50	42.5	32.5	10				
E	32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	22	19	38	31	37	37.5	27.5	10	Carbon	SiC	EPDM	EN 1.4401 (AISI 316)
	65-160/156 65-200 65-250 80-160/200	30	24	46	39	45	42.5	32.5	10				
	80-250	35	29	50	44	50	42.5	32.5	10				

MECHANICAL SEAL (L version ø22)



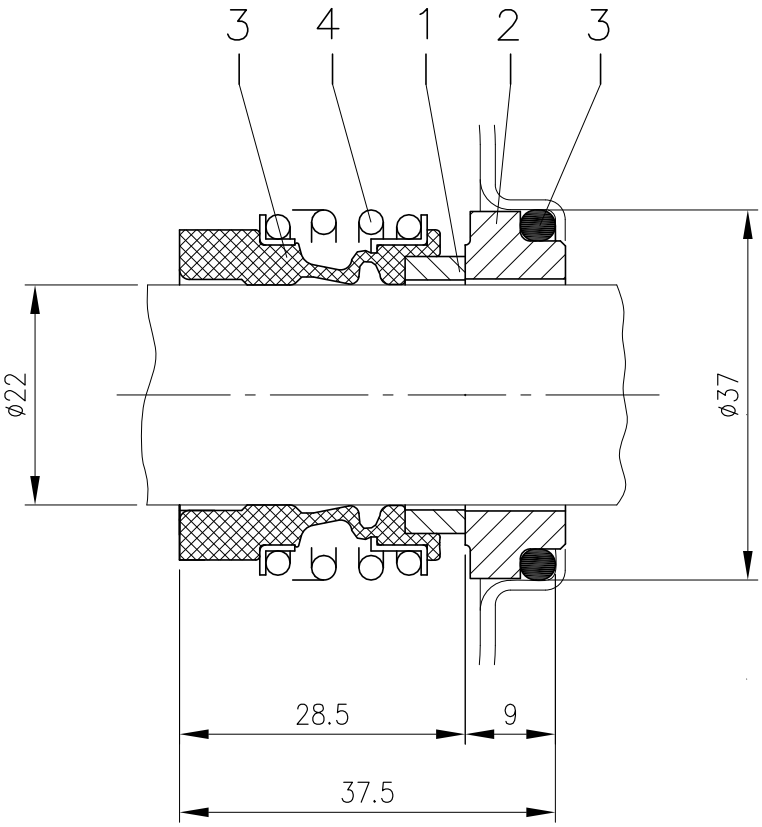
Pump type	Material			
	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

MECHANICAL SEAL (L version ø30-35)



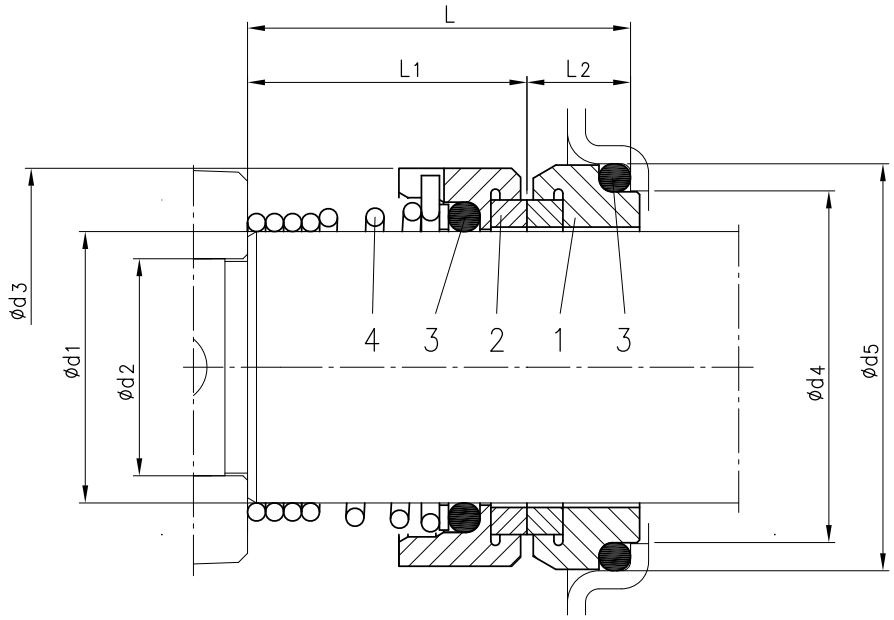
Pump type	Dimensions								Material			
	d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
65-160/156 65-200 65-250 80-160/200	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)
80-250	35	29	49	44	50	42.5	31	11.5				

MECHANICAL SEAL (HS version ø22)



Pump type	Material			
	1	2	3	4
	Stationary seal ring	Rotary seal ring	Rubber	Frame + spring
32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

MECHANICAL SEAL (HS version ø30)



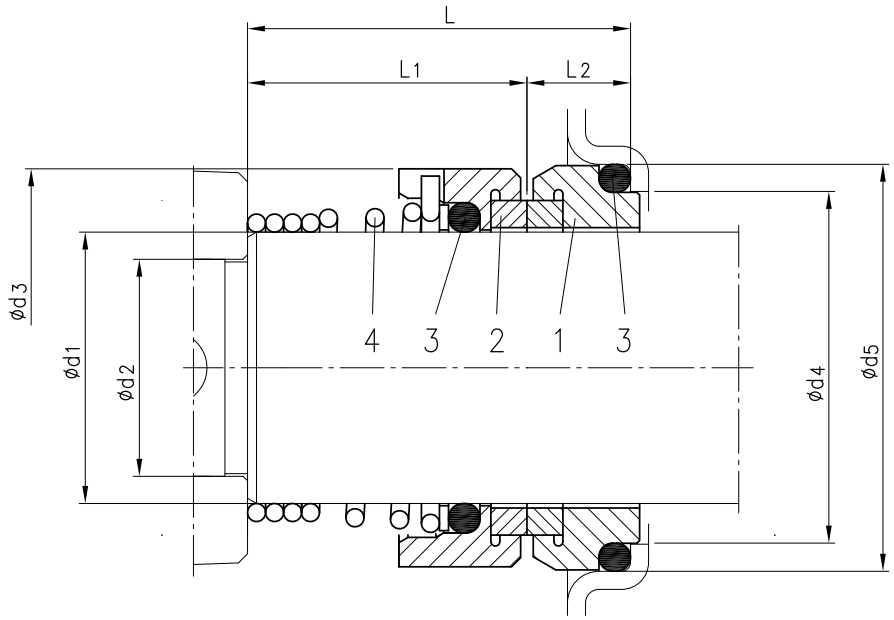
Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HS	65-160/15 65-200	30	24	44	39	45	42.5	31	11.5	SiC	SiC	FPM	EN 1.4571 (AISI 316Ti)

CONSTRUCTION

60Hz

Rev. G

MECHANICAL SEAL (HW and HSW version)



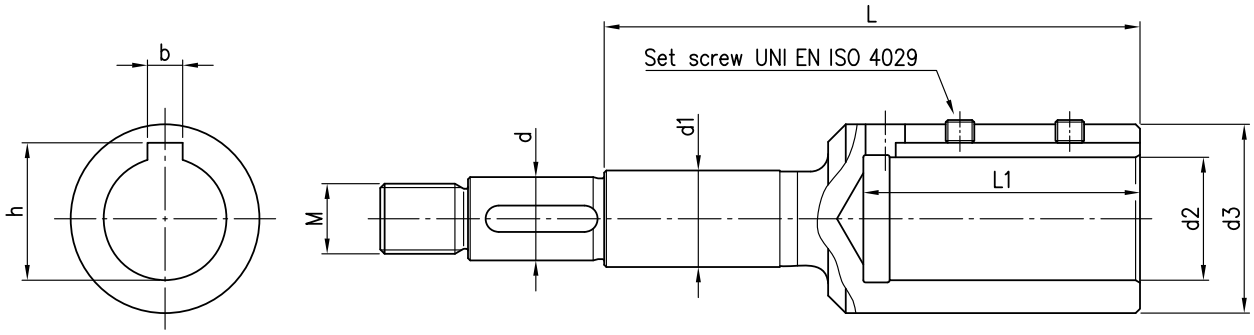
Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + spring
HW	32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	22	19	38	31	37	37.5	27.5	10	Carbon	Carbon	FPM	EN 1.4401 (AISI 316)
	65-160/156 65-200 65-250 80-160/200	30	24	46	39	45	42.5	32.5	10				
	80-250	35	29	50	44	50	42.5	32.5	10				
HSW	32-125/160/200 40-125/160/200 50-125/160 65-125 65-160/7.56 65-160/9.26 65-160/116	22	19	38	31	37	37.5	27.5	10	Carbon	SiC	FPM	EN 1.4401 (AISI 316)
	65-160/156 65-200 65-250 80-160/200	30	24	46	39	45	42.5	32.5	10				
	80-250	35	29	50	44	50	42.5	32.5	10				

CONSTRUCTION

60Hz

Rev. G

COUPLING 3(.)S



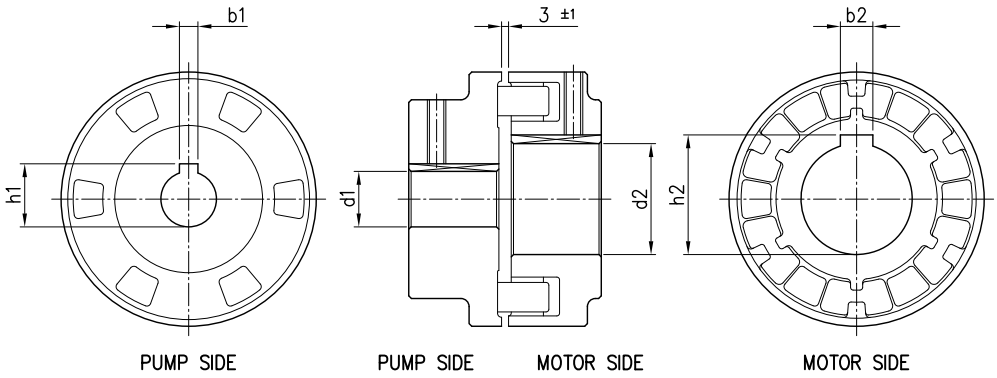
Pump type	Power		Motor	Dimensions mm									
	[kW]	[HP]	Size	d	d1	d2	d3	M	L	L1	b	h	Set screw
32-125/2.26	2.2	3	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
32-160/3.06	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
32-160/4.06	4	5.5	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
32-200/5.56	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
32-200/7.56	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-125/3.06	3	4	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
40-125/4.06	4	5.5	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
40-160/5.56	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-160/7.56	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-200/116	11	15	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
40-200/156	15	20	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
50-125/5.56	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-125/7.56	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-160/116	11	15	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
50-160/156	15	20	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
65-125/5.56	5.5	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-125/7.56	7.5	10	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/9.26	9.2	12.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/116	11	15	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
65-160/156	15	20	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/156	15	20	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/18.56	18.5	25	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/226	22	30	180	24	30	48	72	M20x1.5	184	114	14	51.8	M10x10
65-250/306	30	40	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
65-250/376	37	50	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
80-160/18.56	18.5	25	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
80-160/226	22	30	180	24	30	48	72	M20x1.5	184	114	14	51.8	M10x10
80-200/226	22	30	180	24	30	48	72	M20x1.5	184	114	14	51.8	M10x10
80-200/306	30	40	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
80-200/376	37	50	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
80-250/456	45	60	225	29	35	55	85	M24x2	206	114	16	59.3	M12x12
80-250/556	55	75	250	29	35	60	89	M24x2	218	144	18	64.4	M12x12

CONSTRUCTION

60Hz

Rev. G

FLEXIBLE COUPLING 3(.)P



Pump type	Power		Motor	Dimensions mm					
	[KW]	[HP]	Size	d1	b1	h1	d2	b2	h2
32-125/2.26	2.2	3	90	24	8	27.3	24	8	27.3
32-160/3.06	3	4	100	24	8	27.3	28	8	31.3
32-160/4.06	4	5.5	112	24	8	27.3	28	8	31.3
32-200/5.56	5.5	7.5	132	24	8	27.3	38	10	41.3
32-200/7.56	7.5	10	132	24	8	27.3	38	10	41.3
40-125/3.06	3	4	100	24	8	27.3	28	8	31.3
40-125/4.06	4	5.5	112	24	8	27.3	28	8	31.3
40-160/5.56	5.5	7.5	132	24	8	27.3	38	10	41.3
40-160/7.56	7.5	10	132	24	8	27.3	38	10	41.3
40-200/116	11	15	160	24	8	27.3	42	12	45.3
40-200/156	15	20	160	24	8	27.3	42	12	45.3
50-125/5.56	5.5	7.5	132	24	8	27.3	38	10	41.3
50-125/7.56	7.5	10	132	24	8	27.3	38	10	41.3
50-160/116	11	15	160	24	8	27.3	42	12	45.3
50-160/156	15	20	160	24	8	27.3	42	12	45.3
65-125/5.56	5.5	7.5	132	24	8	27.3	38	10	41.3
65-125/7.56	7.5	10	132	24	8	27.3	38	10	41.3
65-160/9.26	9.2	12.5	132	24	8	27.3	38	10	41.3
65-160/116	11	15	160	24	8	27.3	42	12	45.3
65-160/156	15	20	160	24	8	27.3	42	12	45.3
65-200/156	15	20	160	24	8	27.3	42	12	45.3
65-200/18.56	18.5	25	160	24	8	27.3	42	12	45.3
65-200/226	22	30	180	24	8	27.3	48	14	51.8
65-250/306	30	40	200	32	10	35.3	55	16	59.3
65-250/376	37	50	200	32	10	35.3	55	16	59.3
80-160/18.56	18.5	25	160	24	8	27.3	42	12	45.3
80-160/226	22	30	180	24	8	27.3	48	14	51.8
80-200/226	22	30	180	32	10	35.3	48	14	51.8
80-200/306	30	40	200	32	10	35.3	55	16	59.3
80-200/376	37	50	200	32	10	35.3	55	16	59.3
80-250/456	45	60	225	32	10	35.3	55	16	59.3
80-250/556	55	75	250	32	10	35.3	60	18	64.4

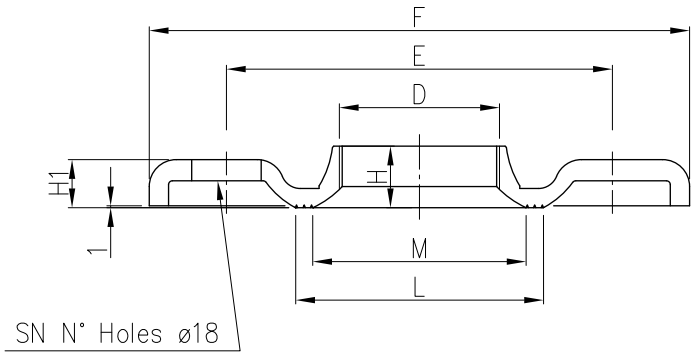
CONSTRUCTION

60Hz

Rev. G

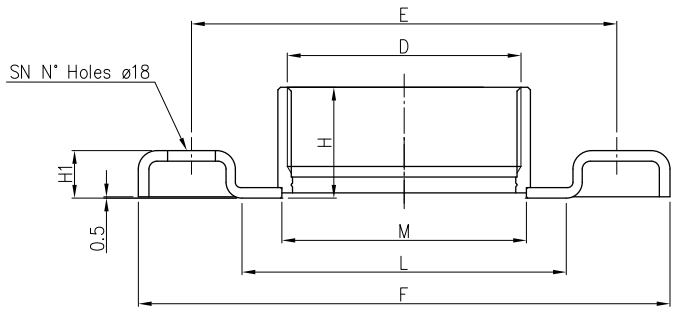
FITTINGS

COUNTERFLANGE ZINCKED STEEL



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

COUNTERFLANGE EN 1.4404 (AISI 316L)



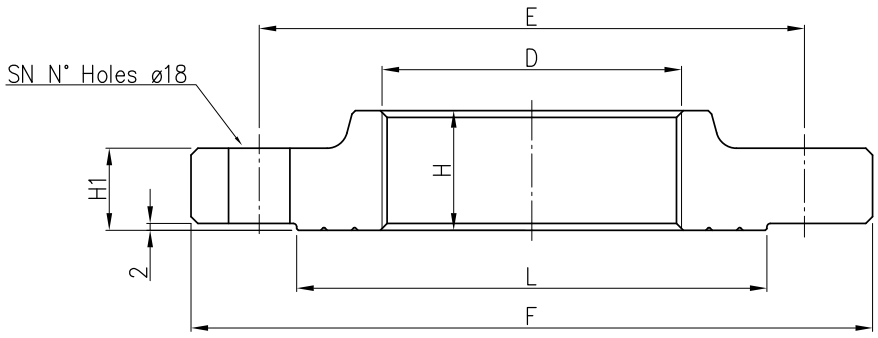
Counterflange									Screw	
DN	D	E	F	H	H1	L	M	SN	DIMENSIONS	MATERIAL
32	G 1 1/4	100	140	29.5	14	66	44	4	M16x55	A2-70 class ISO 3506-1
40	G 1 1/2	110	150	29.5	14	71	50.5			
50	G 2	125	165	34	16	83	63			
65	G 2 1/2	145	185	40	16	103	80			
80	G3	160	200	42	18	122	92	8	M16x60	

CONSTRUCTION

60Hz

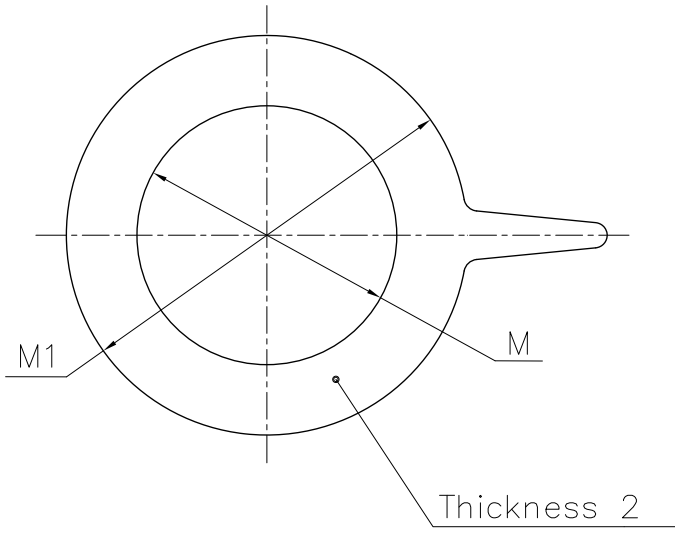
Rev. G

COUNTERFLANGE EN 1.4404 (AISI 316L) DN100



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

GASKET



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

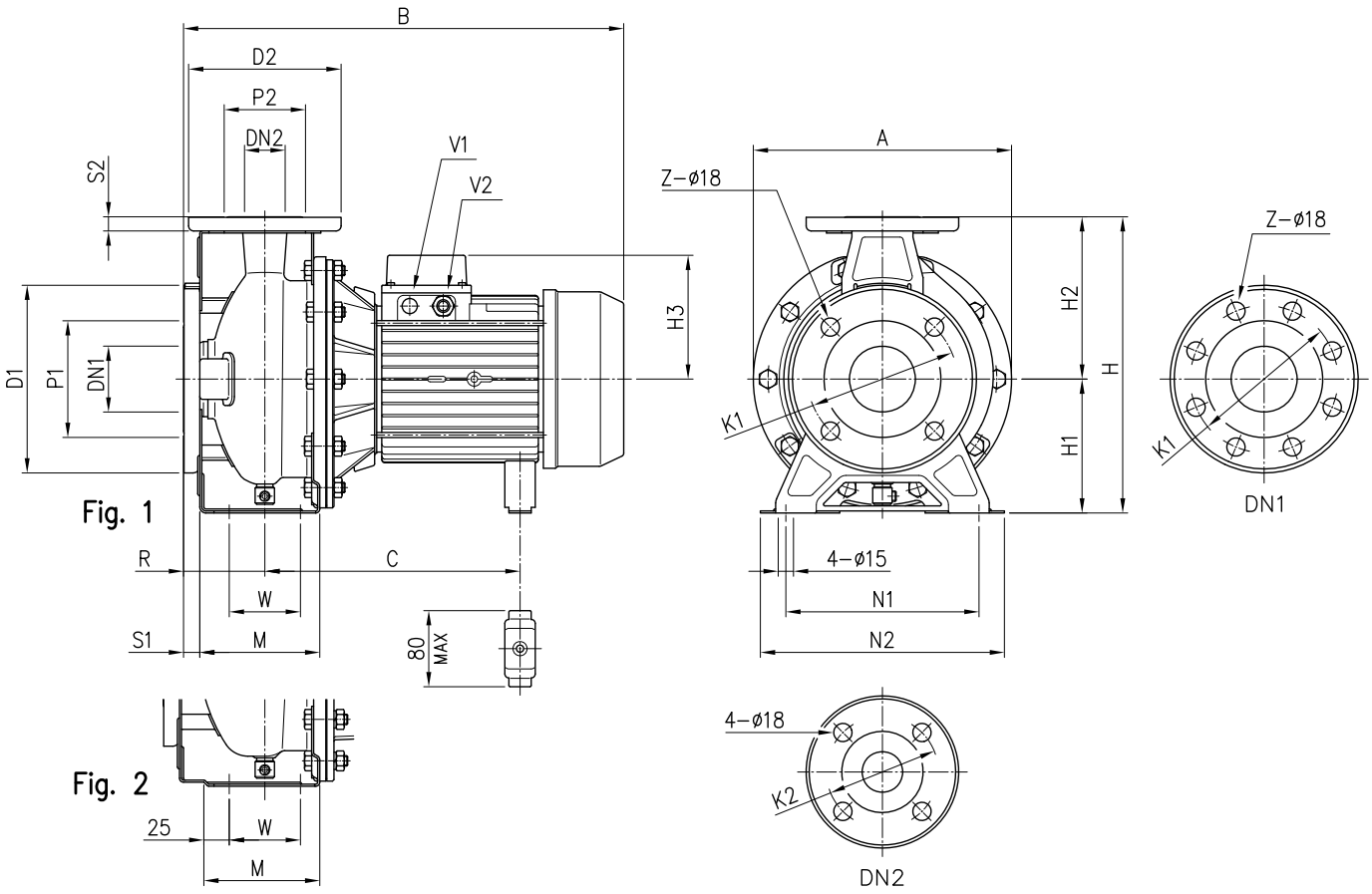
Material : EPDM for standard version
FPM for L version

DIMENSIONS AND WEIGHT

60Hz

Rev. G

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



Pump type	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	H3 (*)	R	W	M	N1	N2	A	B	B (*)	C	C (*)	V1	V2	V2 (*)	Weight [kgf]	Weight [kgf] (*)
32-125/2.26	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	124	119	80	70	114	140	190	213	432	431	244÷255	232	-	PG 13.5	M20x1.5	23	24
32-160/3.06	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	124	119	80	70	118	190	240	254	471	471	244÷255	244÷255	-	PG 13.5	M20x1.5	26.2	26.2
32-160/4.06	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	141	141	80	70	118	190	240	254	494	494	253	253	-	PG 16	M20x1.5	34.5	34.5
32-200/5.56	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	150	150	80	70	119	190	240	296	519	519	275	275	PG13.5	PG 16	M25x1.5	48.5	48.5
32-200/7.56	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	-	150	80	70	119	190	240	296	-	539	-	275	-	-	PG16	-	54.2
40-125/3.06	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	124	119	80	70	114	160	210	213	471	471	244÷255	244÷255	-	PG 13.5	M20x1.5	23	23
40-125/4.06	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	141	141	80	70	114	160	210	213	494	494	253	253	-	PG 16	M20x1.5	36.6	36.6
40-160/5.56	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	150	150	80	70	118	190	240	254	519	519	275	275	PG13.5	PG 16	M25x1.5	42.3	42.3
40-160/7.56	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	-	150	80	70	118	190	240	254	-	539	-	275	-	-	PG 16	-	56.4
40-200/116	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	-	178	100	70	115	212	265	296	-	595	-	359	-	-	PG 21	-	66.8
50-125/5.56	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	150	150	100	70	114	190	240	254	539	539	275	275	PG13.5	PG 16	M25x1.5	43.9	43.9
50-125/7.56	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	-	150	100	70	114	190	240	254	-	559	-	275	-	-	PG 16	-	56.7
50-160/116	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	-	178	100	70	115	212	265	296	-	595	-	359	-	-	PG 21	-	67.8
65-125/5.56	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	150	150	100	95	140	212	280	254	539	539	275	275	PG13.5	PG 16	M25x1.5	52	52
65-125/7.56	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	-	150	100	95	140	212	280	254	-	559	-	275	-	-	PG 16	-	59.2
65-160/9.26	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	-	178	100	95	140	212	280	296	-	595	-	359	-	-	PG 21	-	55.9
65-160/116	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	-	178	100	95	140	212	280	296	-	595	-	359	-	-	PG 21	-	69.8

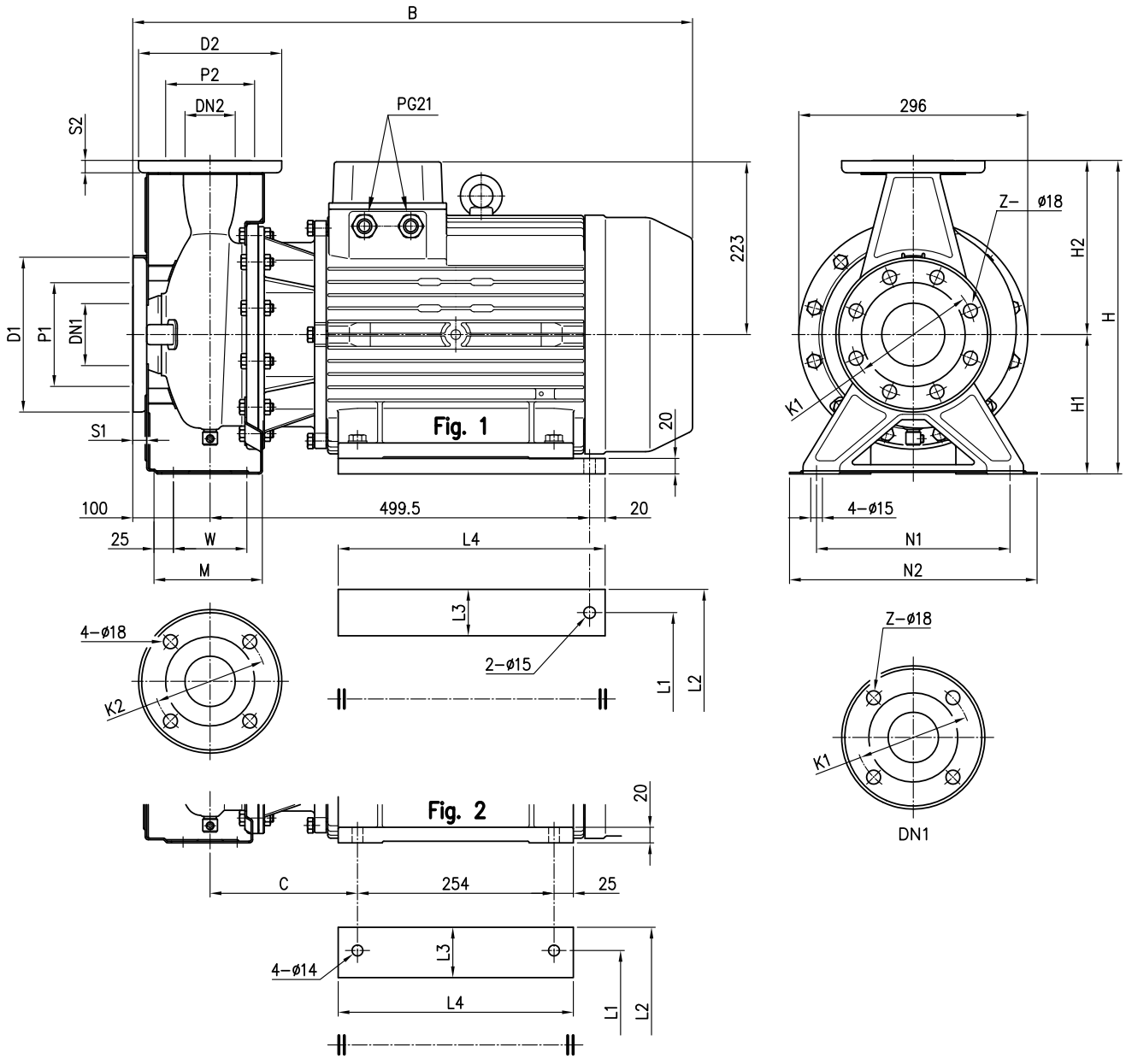
[1] Standard [2] On request (*) Only for IE3 motors

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3(.)M 40-200, 50-160, 65-160/200



Pump type	Dimensions [mm]																										Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	W	M	N1	N2	B	C	L1	L2	L3	L4	
40-200/156	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	70	115	212	265	723	190,5	254	318	64	304	106.1
50-160/156	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	70	115	212	265	723	190,5	254	318	64	304	82.6
65-160/156	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	95	140	212	280	732	199.5	254	318	64	304	106.1
65-200/156	80	134	160	200	18	8	4	65	115	145	185	16	1	405	180	225	95	140	250	320	732	-	254	314	60	345	109.1
65-200/18.56	80	134	160	200	18	8	4	65	115	145	185	16	1	405	180	225	95	140	250	320	732	-	254	314	60	345	126.3
65-200/226	80	134	160	200	18	8	4	65	115	145	185	16	1	405	180	225	95	140	250	320	732	-	254	314	60	345	134.1

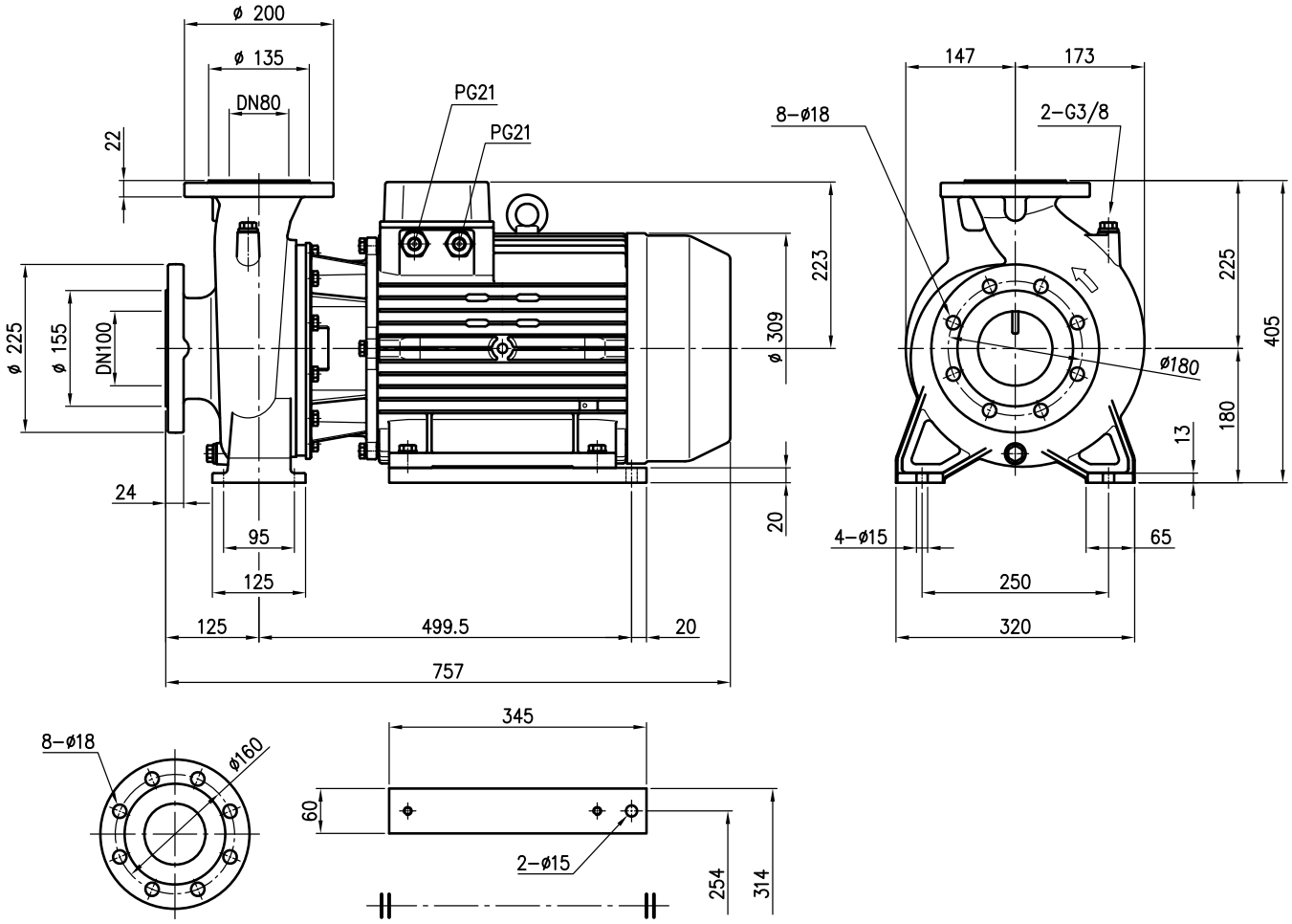
[1] Standard [2] On request

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3LM 80-160



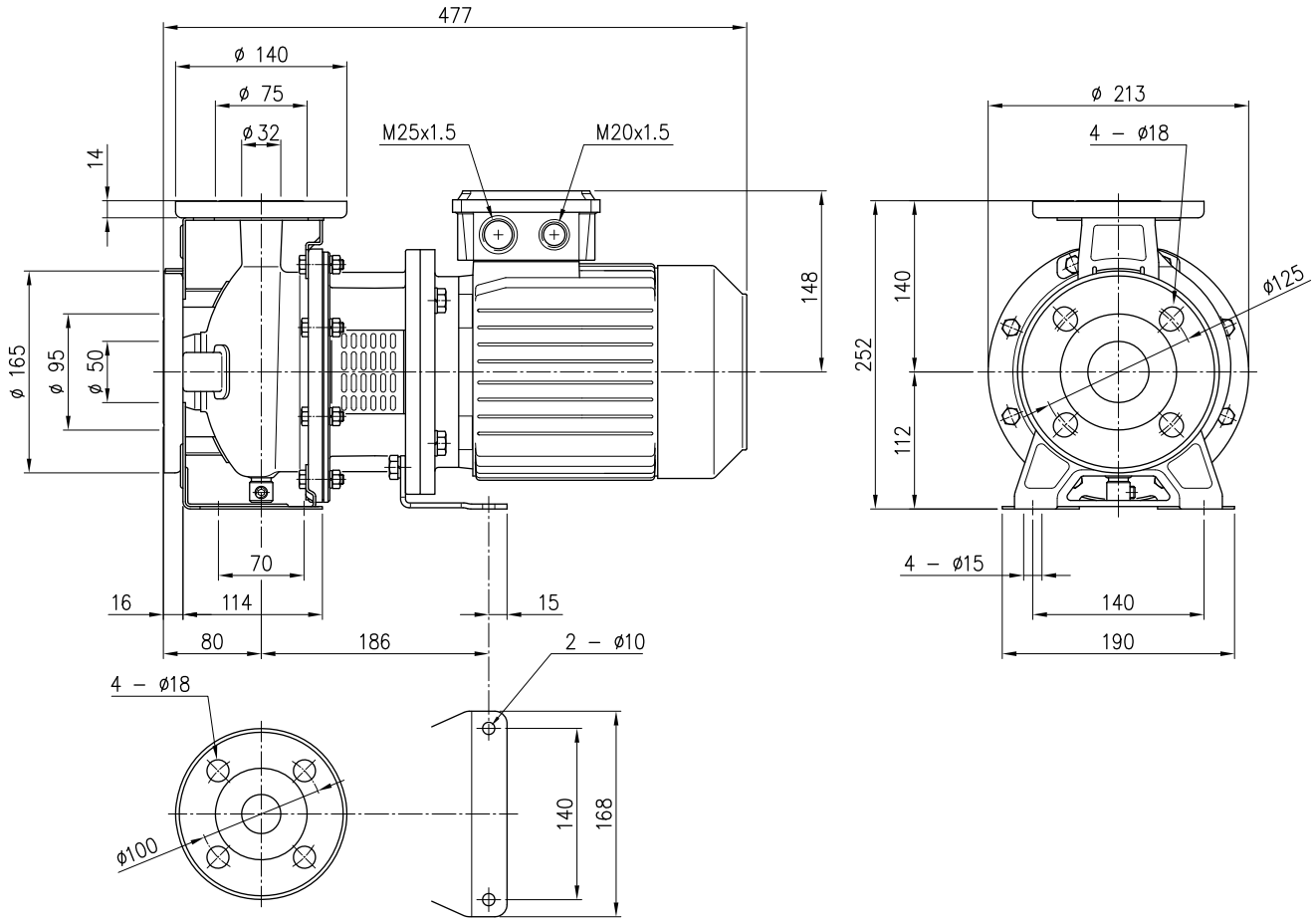
Pumps weight: 80-160/18.56: 145.3 kgf
80-160/226: 158.1 kgf

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3(.)S 32-125/2.26



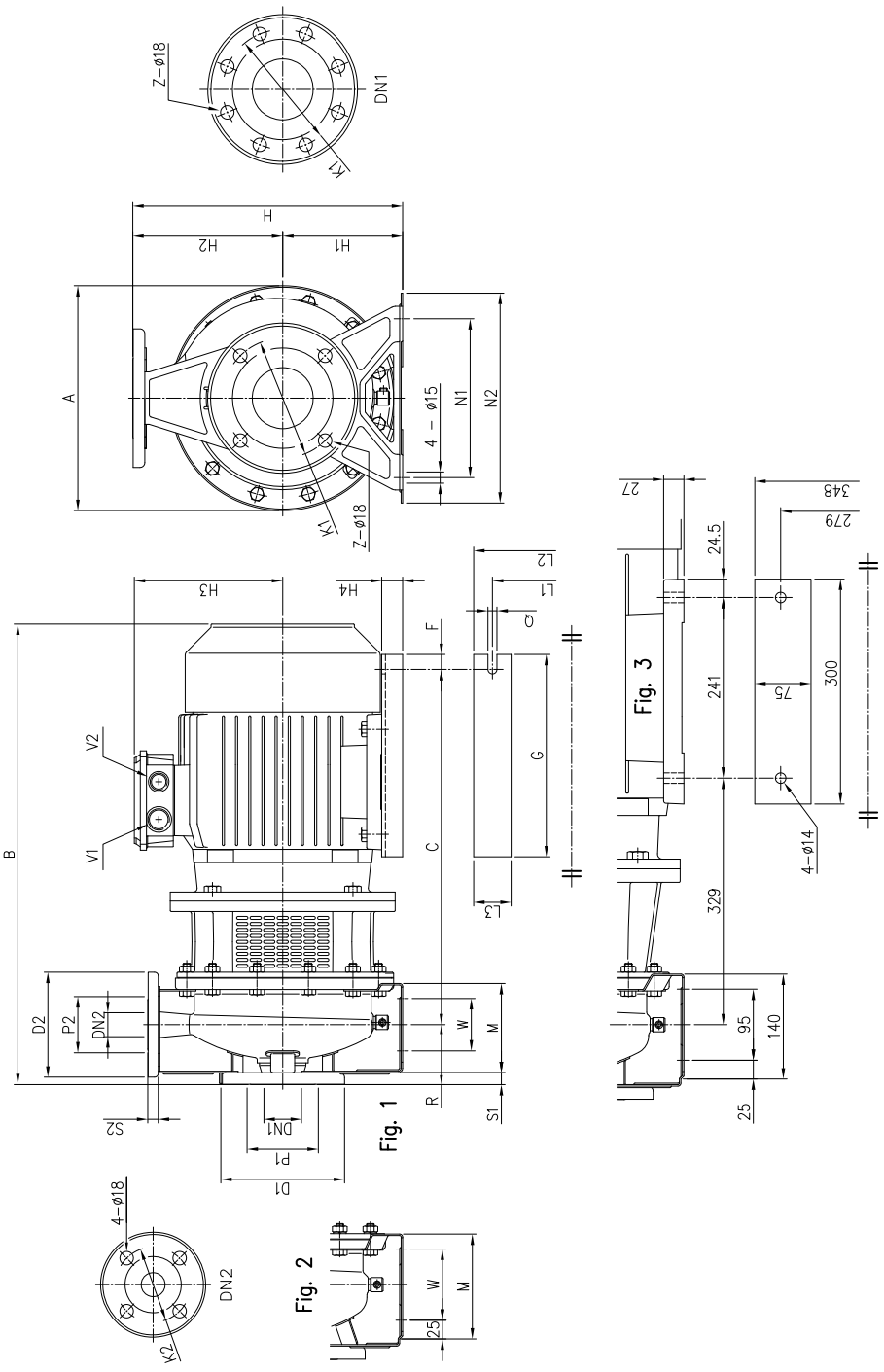
Pump weight: 31.4 kgf

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3(.)S 32, 65-125/160/200



Pump type	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	H4	R	W	M	N1	N2	A	B	C	F	G	Q	L1	L2	L3	V1	V2	Weight [kgf]
32-160/3.06	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	155	32	80	70	118	190	240	254	528	388	15	220	12	160	200	40	M25x1.5	M20x1.5	38.4
32-160/4.06	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	171	20	80	70	118	190	240	254	550	395	15	220	12	190	240	50	M25x1.5	M20x1.5	40
32-200/5.56	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	198	28	80	70	119	190	240	300	607	479	15	270	12	216	266	50	M32x1.5	M32x1.5	71.8
32-200/7.56	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	198	28	80	70	119	190	240	300	607	479	15	270	12	216	266	50	M32x1.5	M32x1.5	87
65-125/5.56	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	198	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	60
65-125/7.56	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	198	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	79.4
65-160/9.26	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	198	28	100	95	140	212	280	300	667	479	15	270	12	216	266	50	M32x1.5	M32x1.5	88
65-200/156	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	238	20	100	95	140	250	320	350	806	621	20	350	14	254	314	60	M40x1.5	M40x1.5	138
65-200/18.56	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	238	20	100	95	140	250	320	350	850	621	20	350	14	254	314	60	M40x1.5	M40x1.5	137.2
65-200/226	80	134	160	200	18	8	4	65	115	145	185	16	3	405	180	225	268	-	100	-	-	250	320	360	885	-	-	-	-	-	-	-	M32x1.5	M32x1.5	175

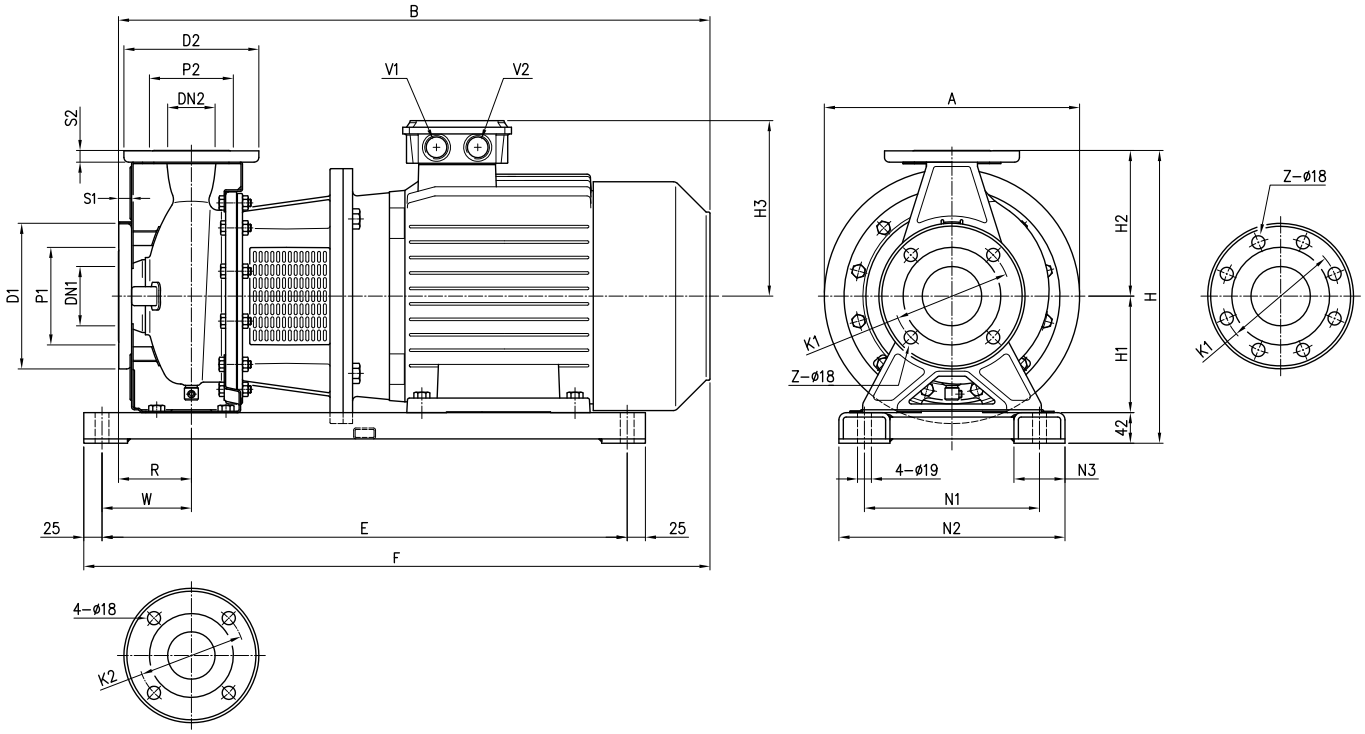
[1] Standard [2] On request

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3(.)S 40, 50, 65-160



Pump type	Dimensions [mm]																											Weight [kgf]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	W	N1	N2	N3	A	B	E	F	V1	V2	
40-125/3.06	65	115	145	185	16	4	-	40	80	110	150	14	294	112	140	155	80	90	180	240	60	250	528	500	563	M25x1.5	M20x1.5	34.5
40-125/4.06	65	115	145	185	16	4	-	40	80	110	150	14	294	112	140	171	80	90	180	240	60	250	550	500	585	M25x1.5	M20x1.5	44.6
40-160/5.56	65	115	145	185	16	4	-	40	80	110	150	14	334	132	160	198	80	110	210	270	60	300	607	600	662	M32x1.5	M32x1.5	71.2
40-160/7.56	65	115	145	185	16	4	-	40	80	110	150	14	334	132	160	198	80	110	210	270	60	300	607	600	662	M32x1.5	M32x1.5	81
40-200/116	65	115	145	185	16	4	-	40	80	110	150	14	382	160	180	238	100	110	240	310	70	350	796	720	831	M40x1.5	M40x1.5	117.8
40-200/156	65	115	145	185	16	4	-	40	80	110	150	14	382	160	180	238	100	110	240	310	70	350	796	720	831	M40x1.5	M40x1.5	147.9
50-125/5.56	65	115	145	185	16	4	-	50	95	125	165	16	334	132	160	198	100	110	210	270	60	300	627	600	662	M32x1.5	M32x1.5	62.8
50-125/7.56	65	115	145	185	16	4	-	50	95	125	165	16	334	132	160	198	100	110	210	270	60	300	627	600	662	M32x1.5	M32x1.5	90
50-160/116	65	115	145	185	16	4	-	50	95	125	165	16	382	160	180	238	100	110	240	310	70	350	796	720	831	M40x1.5	M40x1.5	85.8
50-160/156	65	115	145	185	16	4	-	50	95	125	165	16	382	160	180	238	100	110	240	310	70	350	796	720	831	M40x1.5	M40x1.5	119.9
65-160/116	80	134	160	200	18	8	4	65	115	145	185	16	402	160	200	238	100	122.5	240	310	70	350	796	720	844	M40x1.5	M40x1.5	86.8
65-160/156	80	134	160	200	18	8	4	65	115	145	185	16	402	160	200	238	100	122.5	240	310	70	350	806	720	854	M40x1.5	M40x1.5	120.9

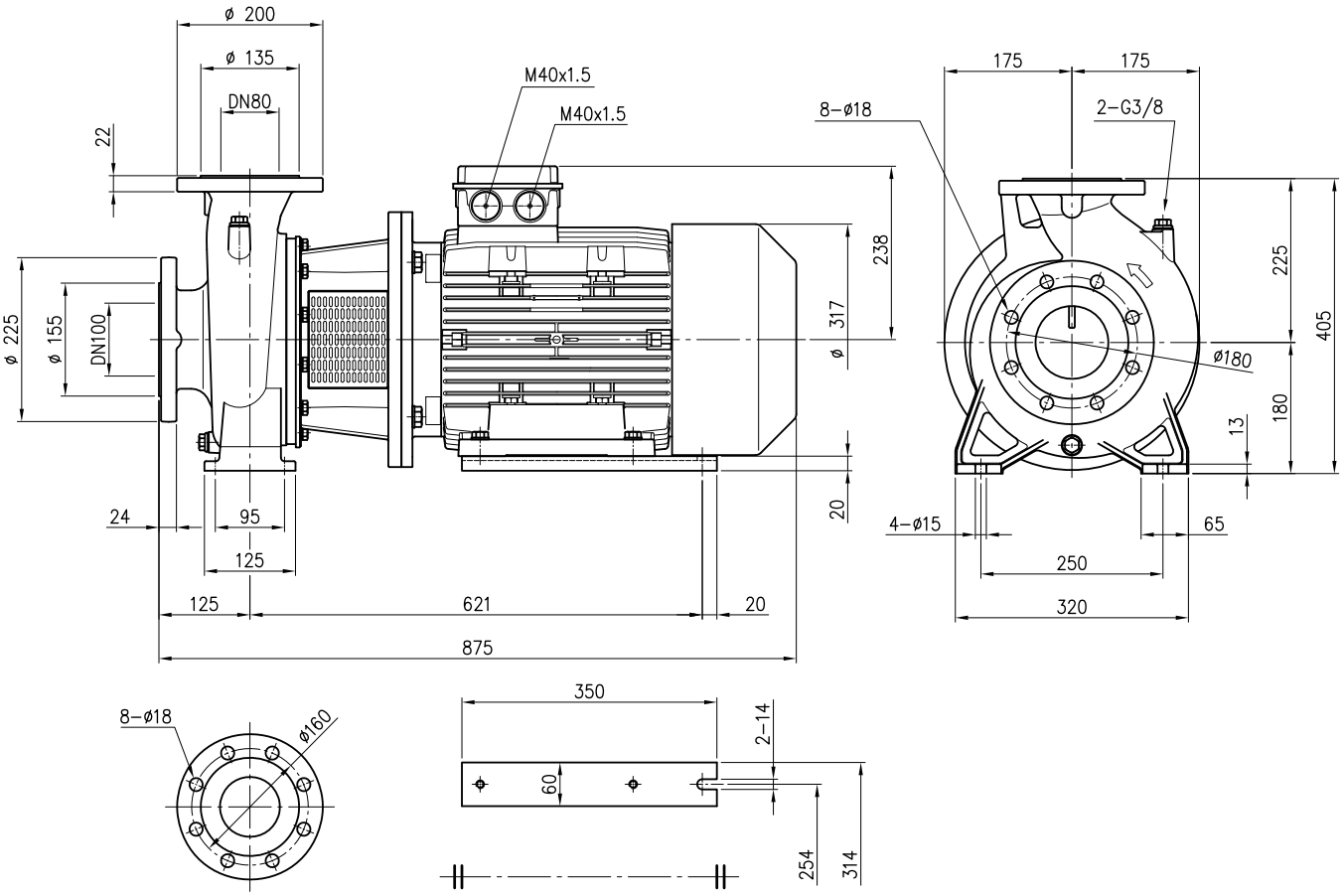
[1] Standard [2] On request

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3LS 80-160/18.56



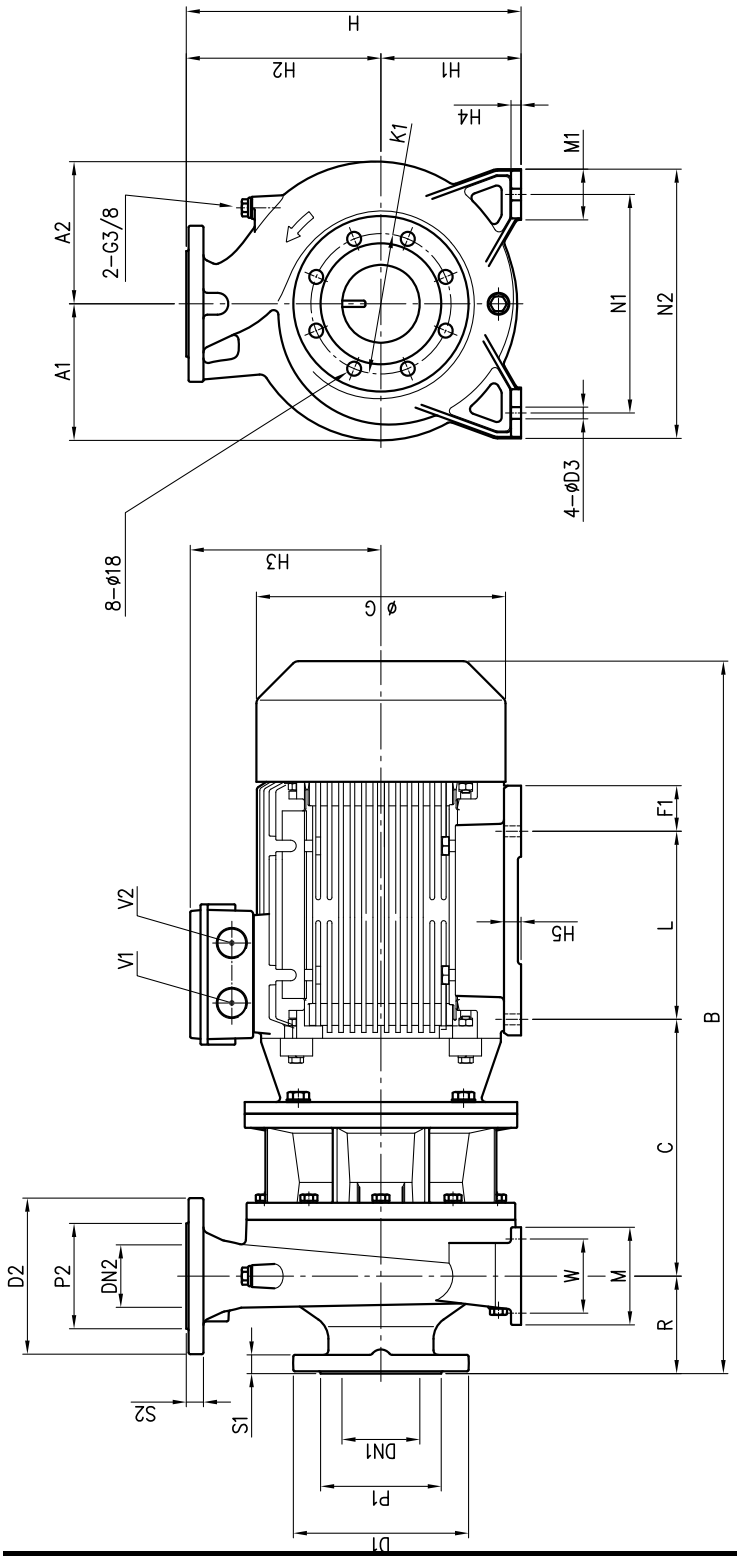
Pump weight: 151.2 kgf

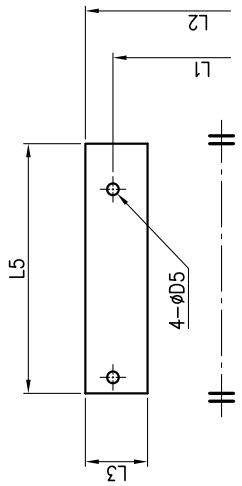
DIMENSIONS AND WEIGHT

60Hz

Rev. G

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





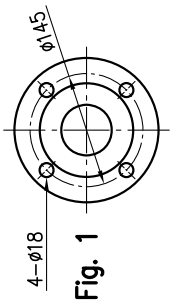


Fig. 1

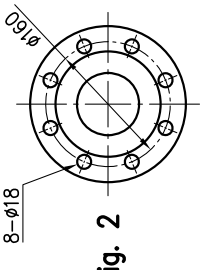


Fig. 2

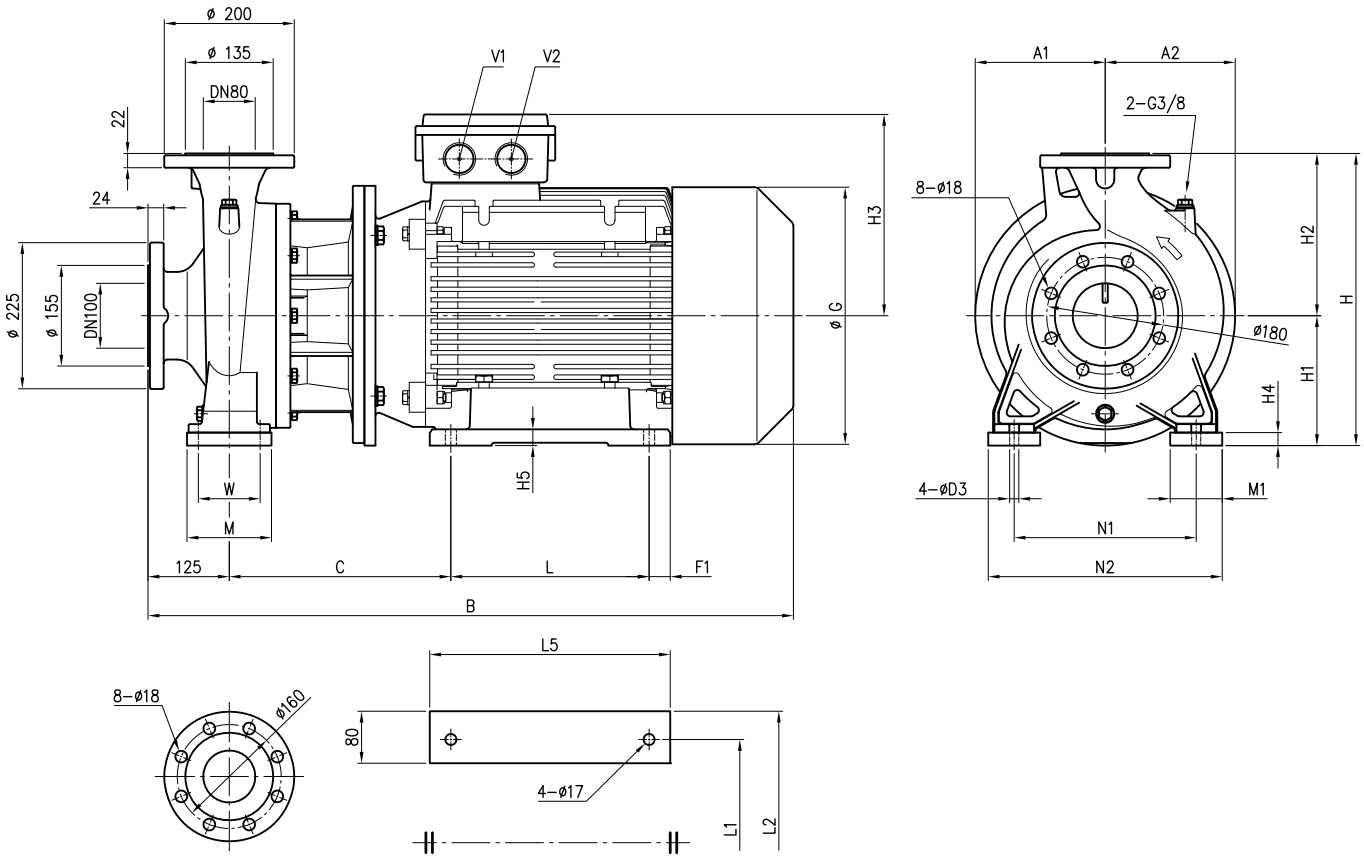
Pump type	Dimensions [mm]																																Weight [kgf]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	W	N1	N2	M	M1	L	L1	L2	L3	L5	A1	A2	B	C	F1	G	D3	D5	V1	V2	
65-250/306	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	300	15	25	100	120	280	360	160	80	305	318	388	80	358	200	200	966	341	21.5	399	19	17	M40x1.5	M40x1.5	303
65-250/376	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	300	15	25	100	120	280	360	160	80	305	318	388	80	358	200	200	966	341	21.5	399	19	17	M40x1.5	M40x1.5	320
80-160/226	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	268	13	27	125	95	250	320	125	65	241	279	348	75	300	175	175	910	329	24.5	360	15	14	M32x1.5	M32x1.5	207
80-200/226	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	268	13	27	125	95	280	345	125	65	241	279	348	75	300	175	182	910	329	24.5	360	15	14	M32x1.5	M32x1.5	207

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3LS 80-200/250



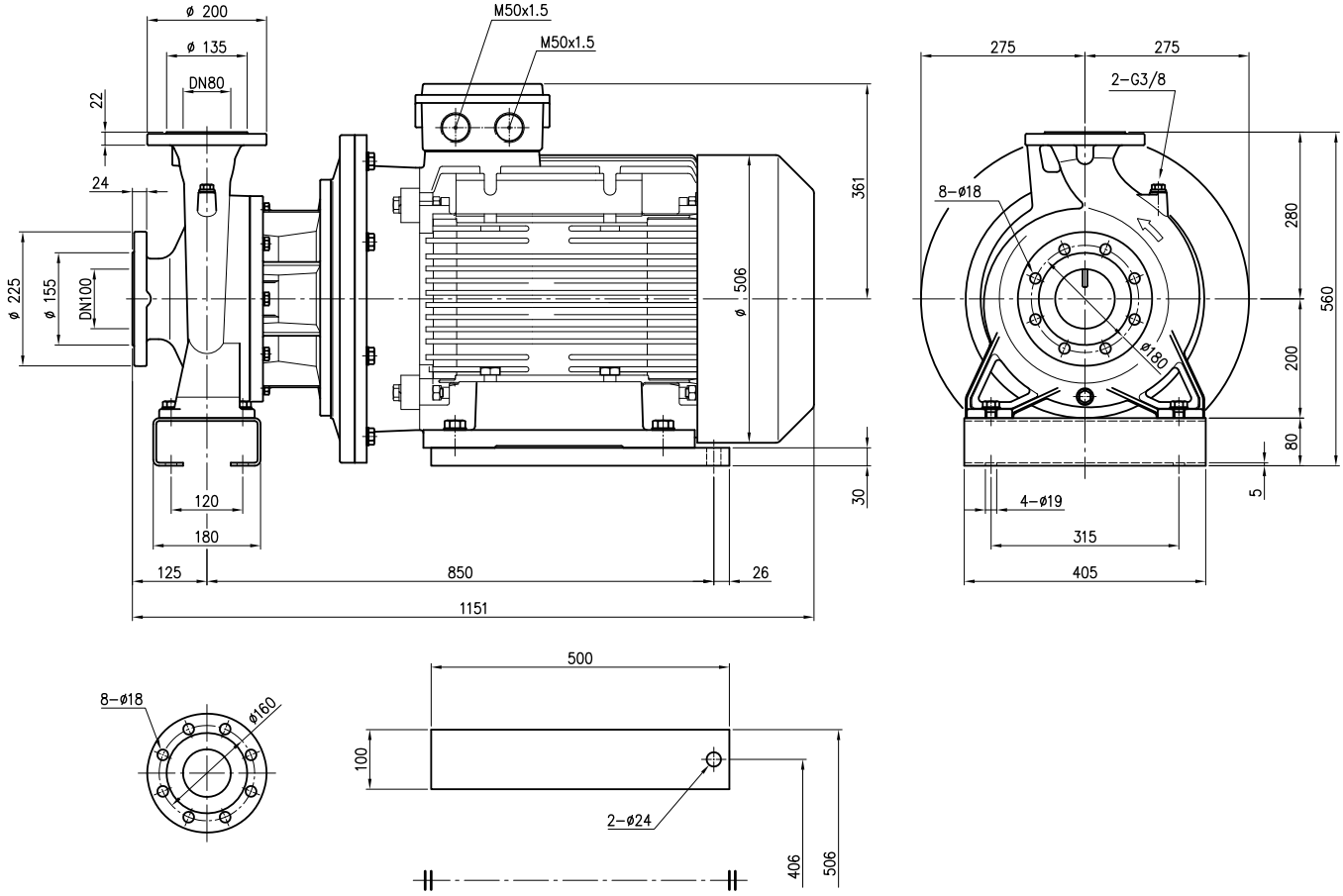
Pump type	Dimensions [mm]																							Weight [kgf]
	H	H1	H2	H3	H4	H5	W	N1	N2	M	M1	L	L1	L2	L5	A1	A2	B	C	F1	G	D3	V1	V2	
80-200/306	450	200	250	300	20	25	95	280	360	130	80	305	318	388	358	200	200	991	341	21.5	399	14	M40x1.5	M40x1.5	306
80-200/376	450	200	250	300	20	25	95	280	360	130	80	305	318	388	358	200	200	991	341	21.5	399	14	M40x1.5	M40x1.5	325
80-250/456	505	225	280	335	25	28	120	315	415	165	100	311	356	436	386	225	225	1060	385	37.5	465	18	M50x1.5	M50x1.5	401

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3LS 80-250/556



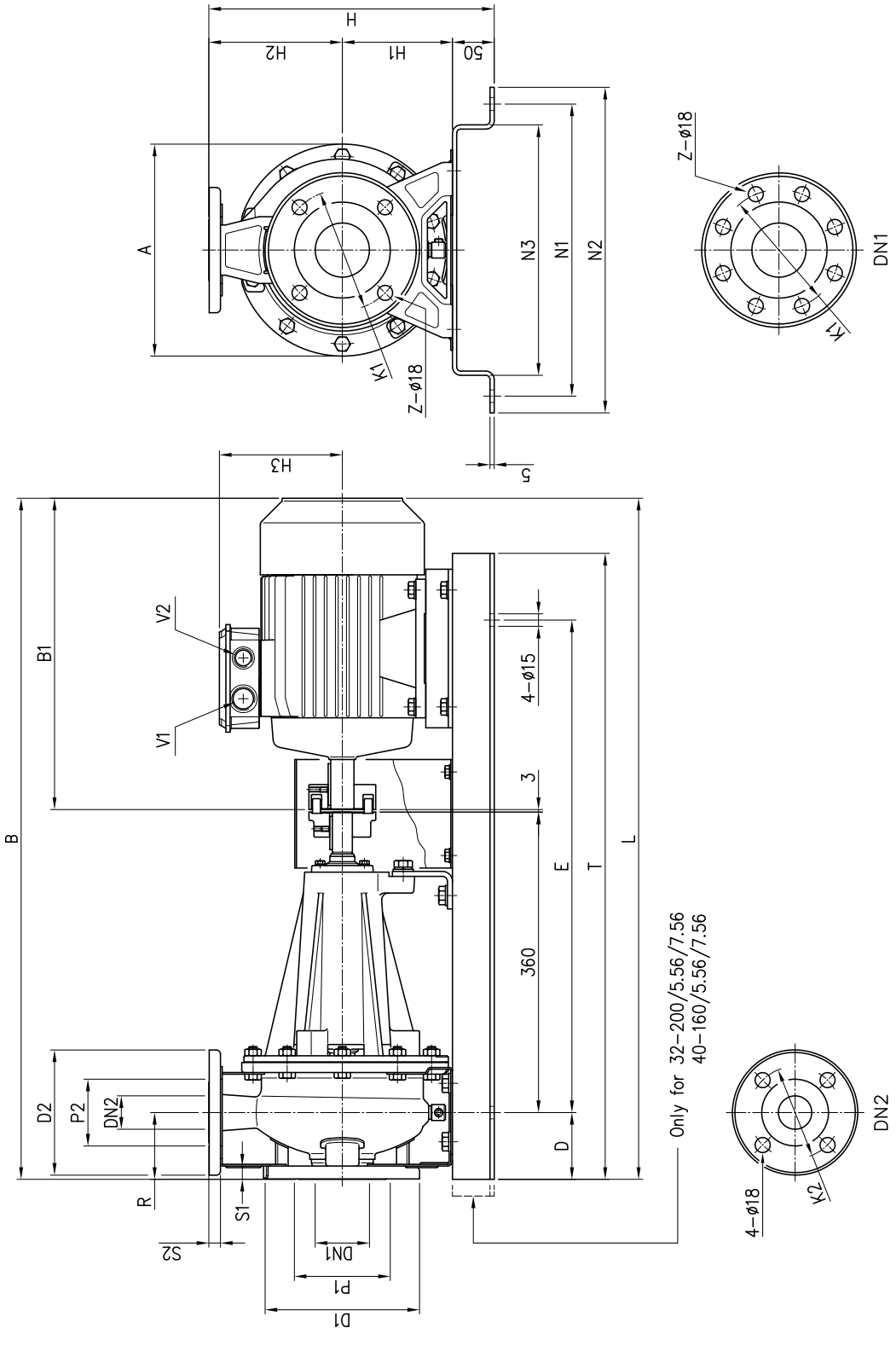
Pump weight : 489 kgf

DIMENSIONS AND WEIGHT

60Hz

Rev. G

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



For dimensions see table pag. 411

DIMENSIONS AND WEIGHT

60Hz

Rev. G

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

Model	Dimensions [mm]																										Weight [kgf]	
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	A	B	B1	D	E	N1	N2	N3	T	L	V1	V2		(*)
32-125/2.26	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	148	80	213	760	317	80	550	300	340	250	710	760	M25x1.5	M20x1.5	52.5	52.5
32-160/3.06	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	155	80	254	809	366	80	590	350	390	300	750	809	M25x1.5	M20x1.5	70.5	70.5
32-160/4.06	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	171	80	254	831	388	80	590	350	390	300	750	831	M25x1.5	M20x1.5	74.1	74.1
32-200/5.56	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	198	80	296	885	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	97	97
32-200/7.56	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	198	80	296	885	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	-	112.2
40-125/3.06	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	155	80	213	809	366	80	590	300	340	250	750	809	M25x1.5	M20x1.5	80	80
40-125/4.06	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	171	80	213	831	388	80	590	300	340	250	750	831	M25x1.5	M20x1.5	66.6	66.6
40-160/5.56	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	198	80	254	885	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	97	97
40-160/7.56	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	198	80	254	885	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	-	105.9
40-200/116	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	127.8
40-200/156	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	134.9
50-125/5.56	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	198	100	254	905	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	98	98
50-125/7.56	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	198	100	254	905	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	-	106.9
50-160/116	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	127.3
50-160/156	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	134.4
65-125/5.56	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	198	100	254	905	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	99	99
65-125/7.56	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	198	100	254	905	442	100	650	350	390	300	850	905	M32x1.5	M32x1.5	-	109.4
65-160/9.26	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	198	100	296	945	482	100	650	350	390	300	850	945	M32x1.5	M32x1.5	-	118
65-160/116	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	124.8
65-160/156	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	129
65-200/156	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	238	100	296	1071	608	100	800	380	420	330	1000	1071	M40x1.5	M40x1.5	-	137
65-200/18.56	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	238	100	296	1115	652	100	800	380	420	330	1000	1115	M40x1.5	M40x1.5	-	135.2
65-200/226	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	268	100	296	1150	687	100	800	410	450	360	1000	1150	M32x1.5	M32x1.5	-	189

[1] Standard [2] On request (*) only for IE3 motors

DIMENSIONS AND WEIGHT

60Hz

Rev. G

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

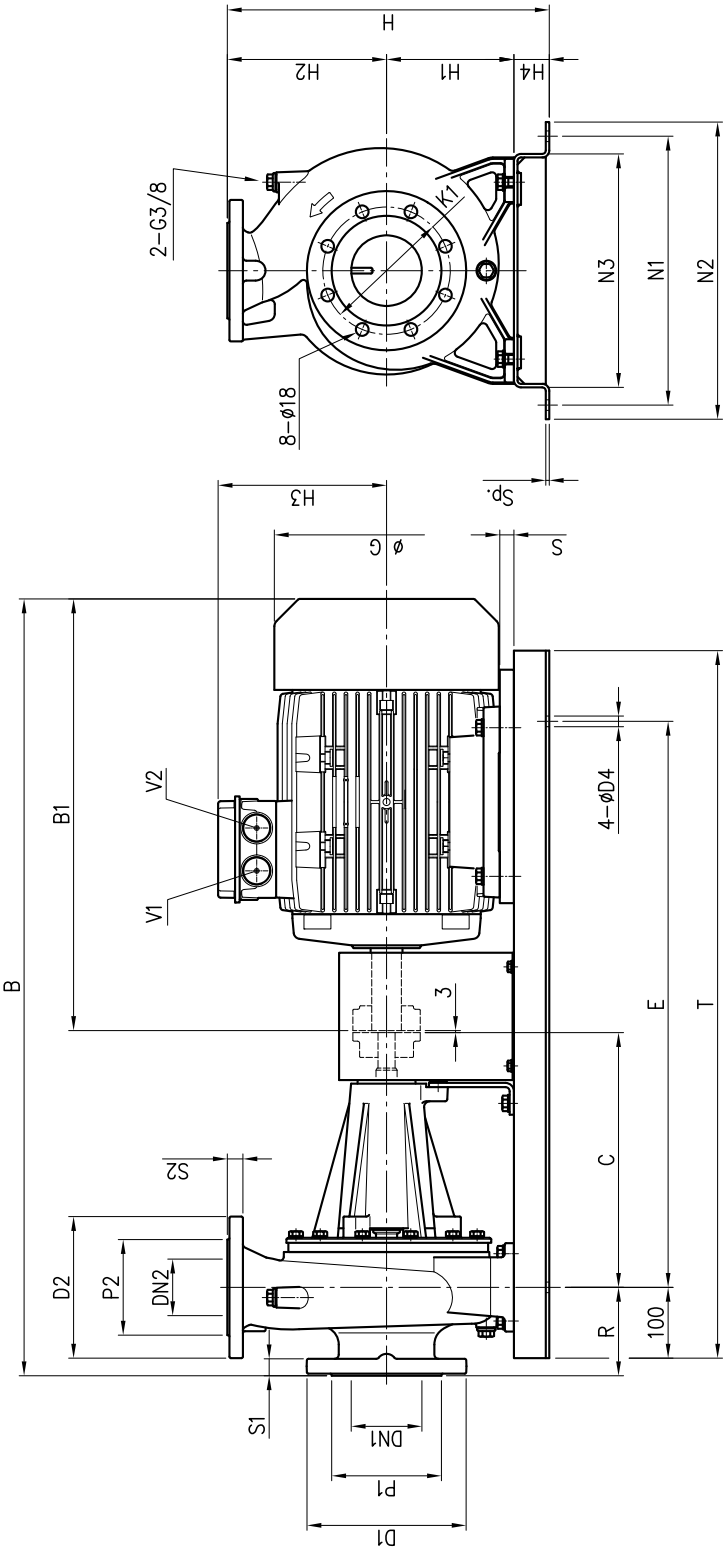


Fig. 1

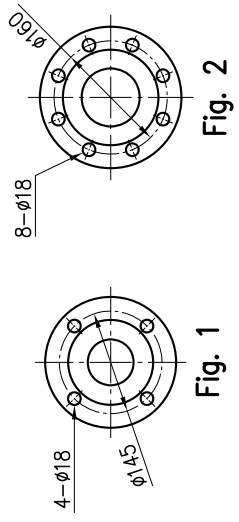


Fig. 2

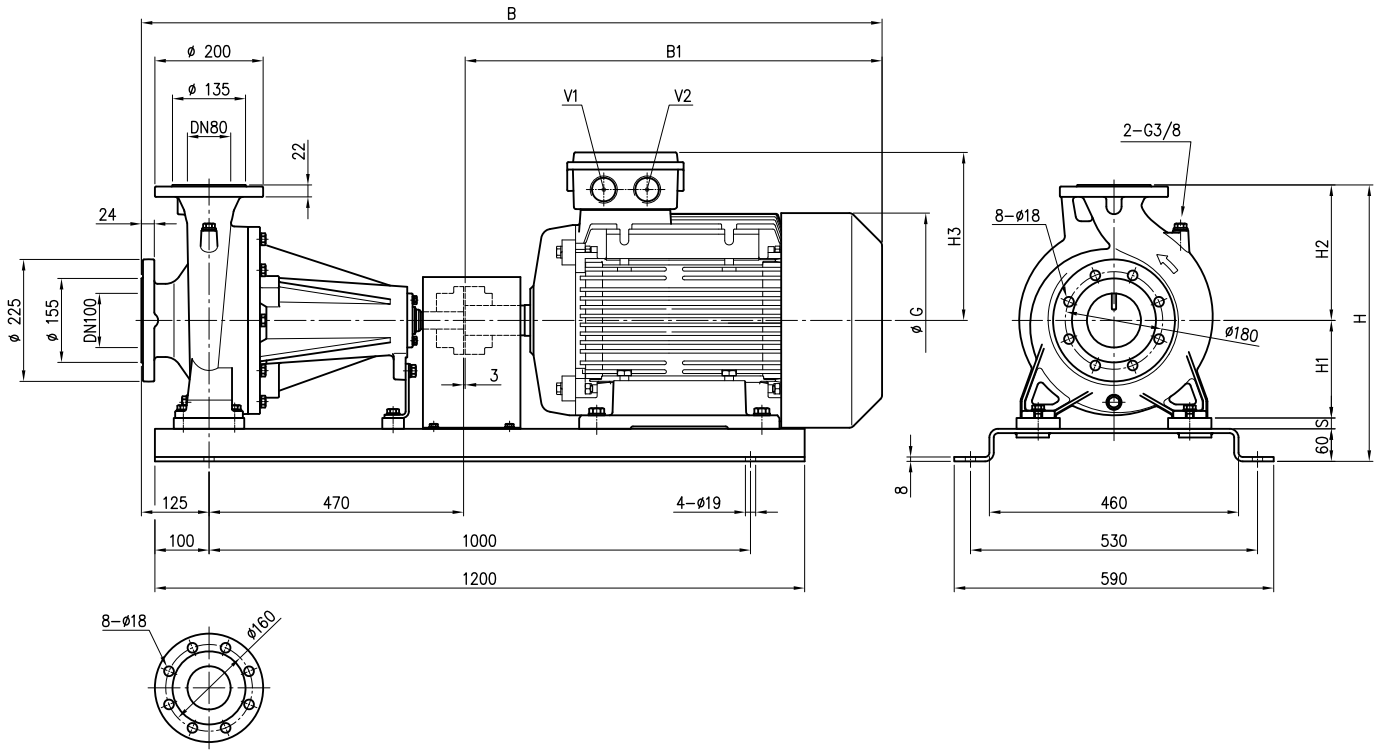
Pump type	Dimensions [mm]																													Weight [kgf]
	DN1	P1	k1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	N1	N2	N3	B	B1	C	G	E	T	S	D4	Sp.	V1	V2	
65-250/306	80	135	160	200	22	65 Fig. 1	120	185	20	510	200	250	300	60	100	530	590	460	1341	768	470	399	1000	1200	-	19	8	M40x1.5	M40x1.5	354
65-250/376	80	135	160	200	22	65 Fig. 1	120	185	20	510	200	250	300	60	100	530	590	460	1341	768	470	399	1000	1200	-	19	8	M40x1.5	M40x1.5	373
80-160/18.56	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1140	652	360	317	800	1000	20	15	5	M40x1.5	M40x1.5	174.7
80-160/226	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	268	50	125	410	450	360	1175	687	360	360	800	1000	-	15	5	M32x1.5	M32x1.5	250
80-200/226	100	155	180	225	24	80 Fig. 2	135	200	22	490	180	250	268	60	125	530	590	460	1285	687	470	360	1000	1200	-	19	8	M32x1.5	M32x1.5	252

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3LP 80-200/250



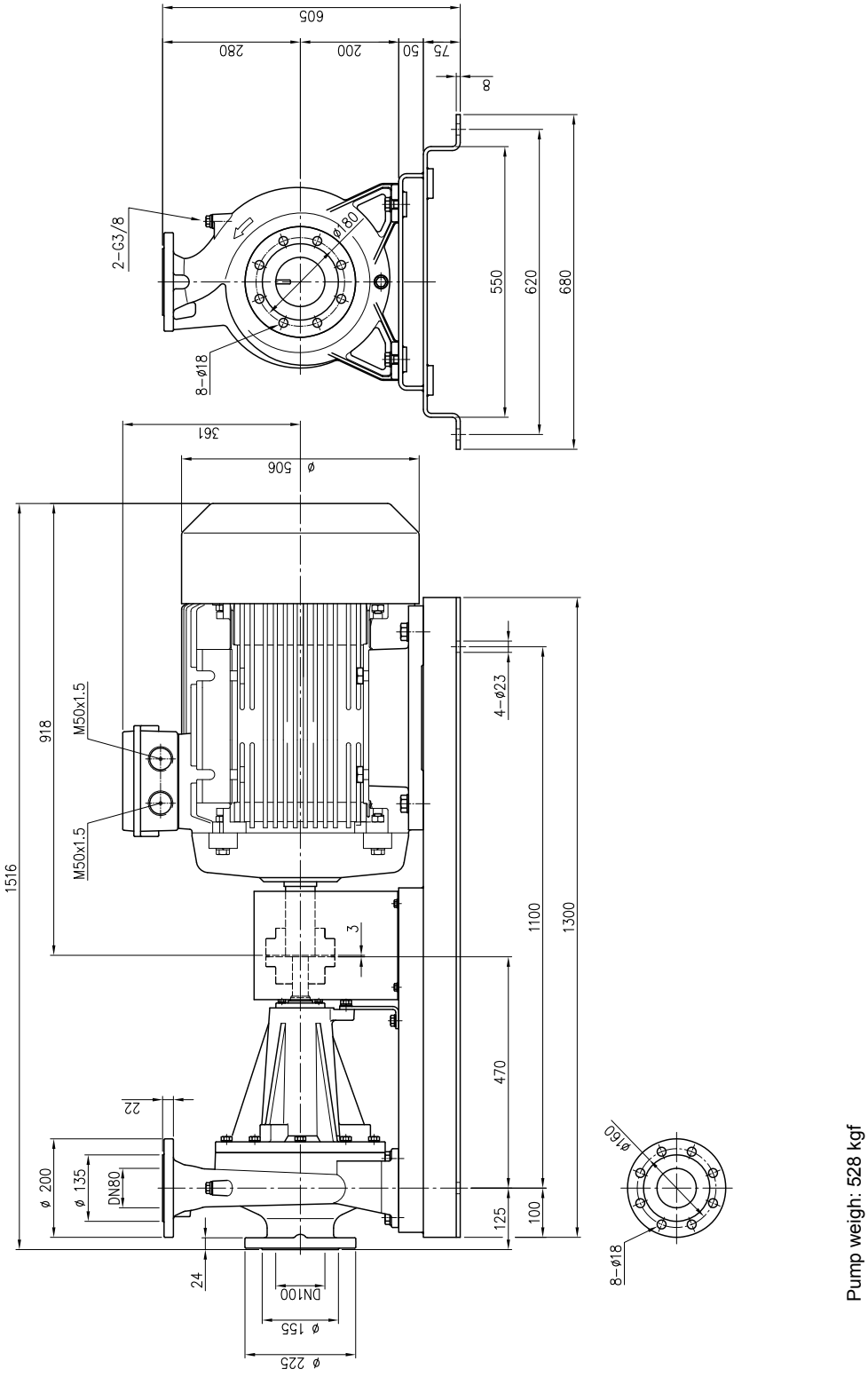
Pump type	H	H1	H2	H3	B	B1	G	S	V1	V2	Weight [kgf]
80-200/306	510	180	250	300	1366	768	399	20	M40x1.5	M40x1.5	356
80-200/376	510	180	250	300	1366	768	399	20	M40x1.5	M40x1.5	365
80-250/456	565	200	280	335	1407	809	465	25	M50x1.5	M50x1.5	440

DIMENSIONS AND WEIGHT

60Hz

Rev. G

PUMP 3LP 80-250/556



Pump weigh: 528 kgf

DIMENSIONS AND WEIGHT

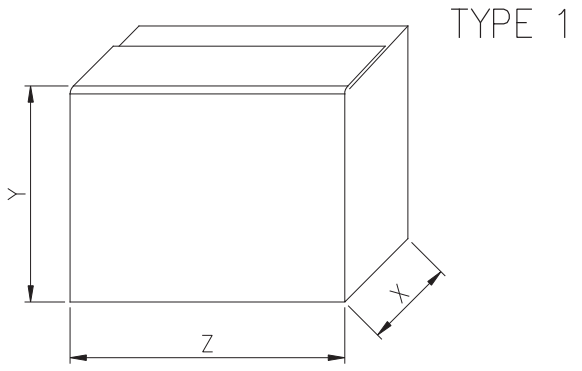
60Hz

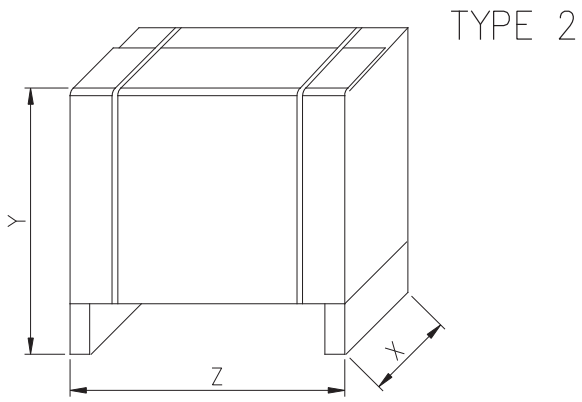
Rev. G

PACKING 3(.)M

Pump type	Packing [mm]				Weight [kgf]		Pack Type
	X	Y	Z	(*)		(*)	
32-125/2.26	280	340	490	490	24.6	25.6	1
32-160/3.06	350	480	550	580	31.6	31.6	2
32-160/4.06					39.5	39.5	
32-200/5.56					50.5	50.5	
32-200/7.56			-	700	-	61.1	
40-125/3.06			550	580	28.4	28.4	
40-125/4.06					41.4	41.4	
40-160/5.56					49.8	49.8	
40-160/7.56			-	700	-	61.1	
40-200/116					-	72.8	
40-200/156	390	520	-	880	-	116.2	
50-125/5.56	350	480	580	580	49	49	
50-125/7.56			-	700	-	61.5	
50-160/116					-	71.8	
50-160/156	390	520	-	880	-	87.9	
65-125/5.56	350	480	580	580	55	55	
65-125/7.56	350	490	-	700	-	62.2	
65-160/9.26					-	62.3	
65-160/116					-	80.3	
65-160/156	390	520		880	-	117.2	
65-200/156					-	120.2	
65-200/18.56					-	139.9	
65-200/226					-	149.2	
80-160/18.56				860	-	160.6	
80-160/226					-	180.2	

(*) only for IE3 motors





DIMENSIONS AND WEIGHT

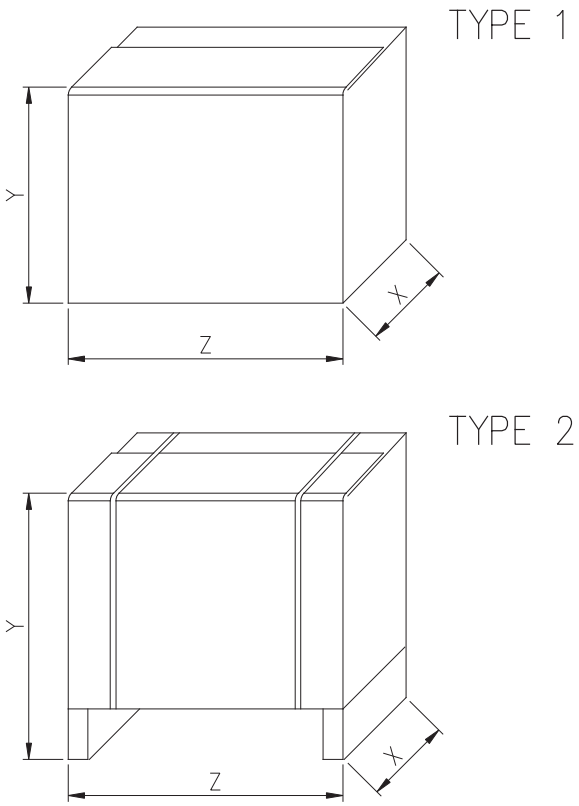
60Hz

Rev. G

PACKING 3(.)S

Pump type	Packing [mm]			Weight [kgf]		Pack Type
	X	Y	Z		(*)	
32-125/2.26	350	480	580	51	51	1
32-160/3.06	350	490	700	50.9	50.9	2
32-160/4.06				73.3	73.3	
32-200/5.56	350	490	700	82.1	82.1	
32-200/7.56	350	490	700	-	32.2	
40-125/3.06				48	48	
40-125/4.06	350	490	700	75.4	75.4	
40-160/5.56				83.2	83.2	
40-160/7.56	350	490	700	-	115	
40-200/116	390	590	880	-	57.3	
40-200/156				-	68.4	
50-125/5.56	350	490	700	83	83	
50-125/7.56				-	94.7	
50-160/116	390	590	880	-	106.9	
50-160/156				-	136.9	
65-125/5.56	350	490	700	77.4	77.4	
65-125/7.56				-	82.4	
65-160/9.26	390	590	880	-	77	
65-160/116				-	107.9	
65-160/156	390	590	960	-	138	
65-200/156	390	590	880	-	147.6	
65-200/18.56	390	590	960	-	166.5	
65-200/226				-	329	
65-250/306	500	717	1100	-	339	
65-250/376				-	141	
80-160/18.56	390	590	960	-	225.5	
80-160/226	500	717	110	-	322	
80-200/226				-	332	
80-200/306				-	344	
80-200/376				-	354	
80-250/456	600	817	1400	-	517	
80-250/556				-	600	

(*) only for IE2 motors



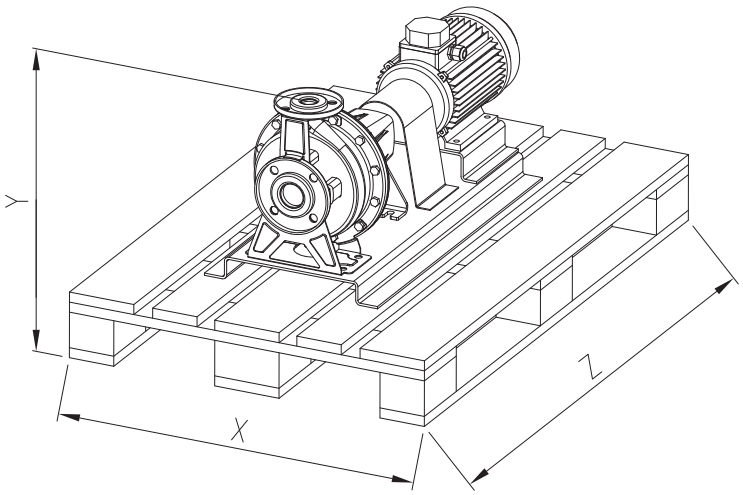
DIMENSIONS AND WEIGHT

60Hz

Rev. G

PACKING 3(.)P

Pump type	Packing [mm]			Weight [kgf]	
	Z	X	Y		(*)
32-125/2.26	1200	800	435	52.5	52.5
32-160/3.06			467	70.5	70.5
32-160/4.06			478	74.1	74.1
32-200/5.56			533	96	96
32-200/7.56				-	109.2
40-125/3.06			442	80	80
40-125/4.06			458	66.6	66.6
40-160/5.56			505	97	97
40-160/7.56				-	105
40-200/116			573	-	127.8
40-200/156				-	136.9
50-125/5.56			505	97	97
50-125/7.56				-	105
50-160/116			573	-	127.3
50-160/156				-	134.4
65-125/5.56			533	98	98
65-125/7.56				-	108.4
65-160/9.26			535	-	118
65-160/116				-	124.8
65-160/156			573	-	129
65-200/156			593	-	137
65-200/18.56				-	135.2
65-200/226			623	-	189
65-250/306			685	-	354
65-250/376				-	373
80-160/18.56			593	-	181.2
80-160/226			623	-	259
80-200/226			633	-	267
80-200/306			665	-	356
80-200/376				-	365
80-250/456			720	-	440
80-250/556			811	-	528



(*) only for IE2 motors

MOTOR DATA 3(.)M

Pump type	Power		Efficiency	Efficiency (% load) Three phase (380 V) η %			Efficiency (% load) Three phase (460 V) η %			Input [kW]	Full load current [A] Three Phase				Locked rotor current [A] Three Phase			
	[kW]	[HP]		50%	75%	100%	50%	75%	100%		220 V	380 V	460 V	660 V	220 V	380 V	460 V	660 V
3(.)M 32-125/2.26	2.2	3.0	-	80.5	83.3	83.5	77.3	82.4	84.1	2.9	7.0	4.1	4.1	-	61.5	35.5	43.0	-
			IE3*	88.9	88.8	87.2	86.3	88.5	88.4	2.5	7.5	4.3	4.1	-	55.7	32.2	38.9	-
3(.)M 32-160/3.06	3.0	4.0	-	84.0	85.9	85.2	80.2	83.5	84.6	3.9	10.5	6.1	5.6	-	92.1	53.2	57.0	-
			IE3*	88.6	86.1	87.5	-	-	88.5	3.4	10.2	5.9	5.6	-	75.7	43.7	52.8	-
3(.)M 32-160/4.06	4.0	5.5	-	83.2	85.8	86.1	81.0	85.1	86.7	5.1	14.7	8.5	8.0	-	108.8	62.8	76.0	-
			IE3*	89.7	89.6	88.6	86.1	88.4	88.5	4.5	13.5	7.8	7.6	-	107.1	61.8	74.9	-
3(.)M 32-200/5.56	5.5	7.5	-	83.4	85.3	85.7	82.9	86.0	87.4	7.0	-	11.6	9.5	6.7	-	90.9	110.0	63.5
			IE3*	90.4	90.9	90.4	88.7	90.5	91.0	6.0	17.4	10.1	8.9	5.8	-	94.5	114.3	54.6
3(.)M 32-200/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	88.1	90.3	90.8	8.3	23.5	13.6	11.9	7.8	-	118.0	143.0	68.1
3(.)M 40-125/3.06	3.0	4.0	-	84.0	85.9	85.2	80.2	83.5	84.6	3.9	10.5	6.1	5.6	-	92.1	53.2	57.0	-
			IE3*	91.2	90.9	87.5	91.3	-	88.5	3.4	10.2	5.9	5.6	-	75.7	43.7	52.8	-
3(.)M 40-125/4.06	4.0	5.5	-	83.2	85.8	86.1	81.0	85.1	86.7	5.1	14.7	8.5	8.0	-	108.8	62.8	76.0	-
			IE3*	89.7	89.6	88.6	86.1	88.4	88.5	4.5	13.5	7.8	7.6	-	107.1	61.8	74.9	-
3(.)M 40-160/5.56	5.5	7.5	-	83.4	85.3	85.7	82.9	86.0	87.4	7.0	-	11.6	9.5	6.7	-	90.9	110.0	63.5
			IE3*	90.4	90.9	90.4	88.7	90.5	91.0	6.0	17.4	10.1	8.9	5.8	-	94.5	114.3	54.6
3(.)M 40-160/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	88.1	90.3	90.8	8.3	23.5	13.6	11.9	7.8	-	118.0	143.0	68.1
3(.)M 40-200/116	11.0	15.0	IE3*	90.3	91.2	91.2	88.3	90.5	91.3	10.1	-	16.9	14.9	9.7	-	115.0	140.0	66.4
3(.)M 40-200/156	15.0	20.0	IE3*	92.5	92.7	92.1	91.0	92.5	92.7	16.2	46.9	27.1	23.9	15.7	-	184.0	223.0	106.2
3(.)M 50-125/5.56	5.5	7.5	-	83.4	85.3	85.7	82.9	86.0	87.4	7.0	-	11.6	9.5	6.7	-	90.9	110.0	63.5
			IE3*	90.4	90.9	90.4	88.7	90.5	91.0	6.0	17.4	10.1	8.9	5.8	-	94.5	114.3	54.6
3(.)M 50-125/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	88.1	90.3	90.8	8.3	23.5	13.6	11.9	7.8	-	118.0	143.0	68.1
3(.)M 50-160/116	11.0	15.0	IE3*	90.3	91.2	91.2	88.3	90.5	91.3	10.1	-	16.9	14.9	9.7	-	115.0	140.0	66.4
3(.)M 50-160/156	15.0	20.0	IE3*	92.5	92.7	92.1	91.0	92.5	92.7	16.2	46.9	27.1	23.9	15.7	-	184.0	223.0	106.2
3(.)M 65-125/5.56	5.5	7.5	-	83.4	85.3	85.7	82.9	86.0	87.4	7.0	-	11.6	9.5	6.7	-	90.9	110.0	63.5
			IE3*	90.4	90.9	90.4	88.7	90.5	91.0	6.0	17.4	10.1	8.9	5.8	-	94.5	114.3	54.6
3(.)M 65-125/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	88.1	90.3	90.8	8.3	23.5	13.6	11.9	7.8	-	118.0	143.0	68.1
3(.)M 65-160/9.26	9.2	13.0	IE3*	90.3	91.2	91.2	88.3	90.5	91.3	10.1	-	16.9	14.9	9.7	-	115.0	140.0	66.4
3(.)M 65-160/116	11.0	15.0	IE3*	91.9	91.8	91.2	90.9	91.8	91.3	12.1	-	20.3	18.5	11.7	-	153.0	185.0	88.3
3(.)M 65-160/156	15.0	20.0	IE3*	92.5	92.7	92.1	91.0	92.5	92.7	16.2	46.9	27.1	23.9	15.7	-	184.0	223.0	106.2
3(.)M 65-200/156	15.0	20.0	IE3*	92.5	92.7	92.1	91.0	92.5	92.7	16.2	46.9	27.1	23.9	15.7	-	184.0	223.0	106.2
3(.)M 65-200/18.56	18.5	25.0	IE3*	92.2	92.9	92.7	90.8	92.5	92.9	19.9	-	33.5	30.3	19.3	-	273.0	331.0	157.6
3(.)M 65-200/226	22.0	30.0	IE3*	92.4	92.7	92.7	92.6	93.1	93.1	23.7	-	39.5	34.5	22.8	-	321.0	389.0	185.3
3LM 80-160/18.56	18.5	25.0	IE3*	92.2	92.9	92.7	90.8	92.5	92.9	19.9	-	33.5	30.3	19.3	-	273.0	331.0	157.6
3LM 80-160/226	22.0	30.0	IE3*	92.4	92.7	92.7	92.6	93.1	93.1	23.7	-	39.5	34.5	22.8	-	321.0	389.0	185.3

* only for 460 V

MOTOR DATA 3(.)S-3(.)P

Pump type		Motor			Efficiency	Input [kW]	Efficiency (% load) and power-factor				Full load current [A]		Locked rotor current [A]	
			Power				η %				Three Phase		Three Phase	
3(.)S	3(.)P	Motor Size	[kW]	[HP]			50%	75%	100%	cos-ϕ	265 V	460 V	265 V	460 V
3(.)S 32-125/2.26	3(.)P 32-125/2.26	90L	2.2	3	-	2.65	79.6	83.2	84.3	0.81	7.1	4.1	56.8	32.8
					IE2	2.55	86.0	86.4	86.5	0.82	6.8	3.9	64.1	37.0
3(.)S 32-160/3.06	3(.)P 32-160/3.06	100L	3	4	-	3.56	80.7	84.4	85.5	0.86	9.0	5.2	86.4	49.9
					IE2	3.44	86.4	87.8	87.5	0.90	8.3	4.8	95.3	55.0
3(.)S 32-160/4.06	3(.)P 32-160/4.06	112M	4	5.5	-	4.70	81.3	84.2	85.0	0.83	12.3	7.1	125.4	72.4
					IE2	4.62	84.2	86.2	87.5	0.92	10.9	6.3	69.3	40.0
3(.)S 32-200/5.56	3(.)P 32-200/5.56	132S	5.5	7.5	-	6.22	83.5	86.6	87.8	0.84	-	9.3	-	84.6
					IE2	6.24	87.2	88.7	89.1	0.91	-	8.6	-	89.0
3(.)S 32-200/7.56	3(.)P 32-200/7.56	132S	7.5	10	IE2	8.45	89.8	90.1	89.7	0.93	-	11.4	-	112.0
3(.)S 40-125/3.06	3(.)P 40-125/3.06	100L	3	4	-	3.56	80.7	84.4	85.5	0.86	9.0	5.2	86.4	49.9
					IE2	3.44	86.4	87.8	87.5	0.90	8.3	4.8	95.3	55.0
3(.)S 40-125/4.06	3(.)P 40-125/4.06	112M	4	5.5	-	4.70	81.3	84.2	85.0	0.83	12.3	7.1	125.4	72.4
					IE2	4.62	84.2	86.2	87.5	0.92	10.9	6.3	69.3	40.0
3(.)S 40-160/5.56	3(.)P 40-160/5.56	132S	5.5	7.5	-	6.22	83.5	86.6	87.8	0.84	-	9.3	-	84.6
					IE2	6.24	87.2	88.7	89.1	0.91	-	8.6	-	89.0
3(.)S 40-160/7.56	3(.)P 40-160/7.56	132S	7.5	10	IE2	8.45	89.8	90.1	89.7	0.93	-	11.4	-	112.0
3(.)S 40-200/116	3(.)P 40-200/116	160M	11	15	IE2	12.13	87.2	89.5	90.9	0.88	-	17.3	-	159.0
3(.)S 40-200/156	3(.)P 40-200/156	160M	15	20	IE2	16.34	90.9	92.3	91.8	0.88	-	23.3	-	226.0
3(.)S 50-125/5.56	3(.)P 50-125/5.56	132S	5.5	7.5	-	6.22	83.5	86.6	87.8	0.84	-	9.3	-	84.6
					IE2	6.24	87.2	88.7	89.1	0.91	-	8.6	-	89.0
3(.)S 50-125/7.56	3(.)P 50-125/7.56	132S	7.5	10	IE2	8.45	89.8	90.1	89.7	0.93	-	11.4	-	112.0
3(.)S 50-160/116	3(.)P 50-160/116	160M	11	15	IE2	12.13	87.2	89.5	90.9	0.88	-	17.3	-	159.0
3(.)S 50-160/156	3(.)P 50-160/156	160M	15	20	IE2	16.34	90.9	92.3	91.8	0.88	-	23.3	-	226.0
3(.)S 65-125/5.56	3(.)P 65-125/5.56	132S	5.5	7.5	-	6.22	83.5	86.6	87.8	0.84	-	9.3	-	84.6
					IE2	6.24	87.2	88.7	89.1	0.91	-	8.6	-	89.0
3(.)S 65-125/7.56	3(.)P 65-125/7.56	132S	7.5	10	IE2	8.45	89.8	90.1	89.7	0.93	-	11.4	-	112.0
3(.)S 65-160/9.26	3(.)P 65-160/9.26	132M	9.2	12.5	IE2	10.18	85.0	88.6	90.0	0.90	-	14.2	-	172.0
3(.)S 65-160/116	3(.)P 65-160/116	160M	11	15	IE2	12.13	87.2	89.5	90.9	0.88	-	17.3	-	159.0
3(.)S 65-160/156	3(.)P 65-160/156	160M	15	20	IE2	16.34	90.9	92.3	91.8	0.88	-	23.3	-	226.0
3(.)S 65-200/156	3(.)P 65-200/156	160M	15	20	IE2	16.34	90.9	92.3	91.8	0.88	-	23.3	-	226.0
3(.)S 65-200/18.56	3(.)P 65-200/18.56	160L	18.5	25	IE2	20.19	90.3	92.0	91.7	0.88	-	28.8	-	340.0
3(.)S 65-200/226	3(.)P 65-200/226	180M	22	30	IE2	23.40	91.8	93.0	93.4	0.89	-	33.0	-	350.0
3(.)S 65-250/306	3(.)P 65-250/306	200L	30	40	IE2	31.89	92.7	94.0	94.2	0.87	-	46.0	-	410.0
3(.)S 65-250/376	3(.)P 65-250/376	200L	37	50	IE2	38.56	93.0	94.3	94.5	0.88	-	55.0	-	470.0
3(.)S 80-160/18.56	3(.)P 80-160/18.56	160L	18.5	25	IE2	20.19	90.3	92.0	91.7	0.88	-	28.8	-	340.0
3(.)S 80-160/226	3(.)P 80-160/226	180M	22	30	IE2	23.40	91.8	93.0	93.4	0.89	-	33.0	-	350.0
3(.)S 80-200/226	3(.)P 80-200/226	180M	22	30	IE2	23.40	91.8	93.0	93.4	0.89	-	33.0	-	350.0
3(.)S 80-200/306	3(.)P 80-200/306	200L	30	40	IE2	31.89	92.7	94.0	94.2	0.87	-	46.0	-	410.0
3(.)S 80-200/376	3(.)P 80-200/376	200L	37	50	IE2	38.56	93.0	94.3	94.5	0.88	-	55.0		470.0
3(.)S 80-250/456	3(.)P 80-250/456	225M	45	60	IE2	47.65	92.6	94.1	94.9	0.92	-	65.0	-	610.0
3(.)S 80-250/556	3(.)P 80-250/556	250M	55	75	IE2	58.73	92.8	93.8	94.4	0.91	-	81.0	-	760.0

NOISE DATA 3(.)M

Pump type	Power [kW]	Power [HP]	L_{pA} - dB(A) *
3(.)M 32-125/2.26	2.2	3.0	72
3(.)M 32-160/3.06	3.0	4.0	76
3(.)M 32-160/4.06	4.0	5.5	
3(.)M 32-200/5.56	5.5	7.5	80
3(.)M 32-200/7.56	7.5	10	
3(.)M 40-125/3.06	3.0	4.0	76
3(.)M 40-125/4.06	4.0	5.5	
3(.)M 40-160/5.56	5.5	7.5	80
3(.)M 40-160/7.56	7.5	10	
3(.)M 40-200/116	11	15	85
3(.)M 40-200/156	15	20	
3(.)M 50-125/5.56	5.5	7.5	80
3(.)M 50-125/7.56	7.5	10	
3(.)M 50-160/116	11	15	85
3(.)M 50-160/156	15	20	
3(.)M 65-125/5.56	5.5	7.5	80
3(.)M 65-125/7.56	7.5	10	
3(.)M 65-160/9.26	9.2	12.5	85
3(.)M 65-160/116	11	15	
3(.)M 65-160/156	15	20	88
3(.)M 65-200/156	15	20	
3(.)M 65-200/18.56	18.5	25	
3(.)M 65-200/226	22	30	
3LM 80-160/18.56	18.5	25	
3LM 80-160/226	22	30	

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

NOISE DATA 3(.)S-3(.)P

Pump type		Power		L_{pA} - dB(A) *
3(.)S	3(.)P	[kW]	[HP]	
3(.)S 32-125/2.26	3(.)P 32-125/2.26	2.2	3	70
3(.)S 32-160/3.06	3(.)P 32-160/3.06	3	4	74
3(.)S 32-160/4.06	3(.)P 32-160/4.06	4	5.5	78
3(.)S 32-200/5.56	3(.)P 32-200/5.56	5.5	7.5	82
3(.)S 32-200/7.56	3(.)P 32-200/7.56	7.5	10	
3(.)S 40-125/3.06	3(.)P 40-125/3.06	3	4	74
3(.)S 40-125/4.06	3(.)P 40-125/4.06	4	5.5	78
3(.)S 40-160/5.56	3(.)P 40-160/5.56	5.5	7.5	82
3(.)S 40-160/7.56	3(.)P 40-160/7.56	7.5	10	
3(.)S 40-200/116	3(.)P 40-200/116	11	15	84
3(.)S 40-200/156	3(.)P 40-200/156	15	20	
3(.)S 50-125/5.56	3(.)P 50-125/5.56	5.5	7.5	82
3(.)S 50-125/7.56	3(.)P 50-125/7.56	7.5	10	
3(.)S 50-160/116	3(.)P 50-160/116	11	15	84
3(.)S 50-160/156	3(.)P 50-160/156	15	20	
3(.)S 65-125/5.56	3(.)P 65-125/5.56	5.5	7.5	82
3(.)S 65-125/7.56	3(.)P 65-125/7.56	7.5	10	
3(.)S 65-160/9.26	3(.)P 65-160/9.26	9.2	12.5	
3(.)S 65-160/116	3(.)P 65-160/116	11	15	84
3(.)S 65-160/156	3(.)P 65-160/156	15	20	
3(.)S 65-200/156	3(.)P 65-200/156	15	20	
3(.)S 65-200/18.56	3(.)P 65-200/18.56	18.5	25	
3(.)S 65-200/226	3(.)P 65-200/226	22	30	85
3LS 65-250/306	3LP 65-250/306	30	40	87
3LS 65-250/376	3LP 65-250/376	37	50	
3LS 80-160/18.56	3LP 80-160/18.56	18.5	25	84
3LS 80-160/226	3LP 80-160/226	22	30	85
3LS 80-200/226	3LP 80-200/226	22	30	
3LS 80-200/306	3LP 80-200/306	30	40	87
3LS 80-200/376	3LP 80-200/376	37	50	
3LS 80-250/456	3LP 80-250/456	45	60	90
3LS 80-250/556	3LP 80-250/556	55	75	91

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