



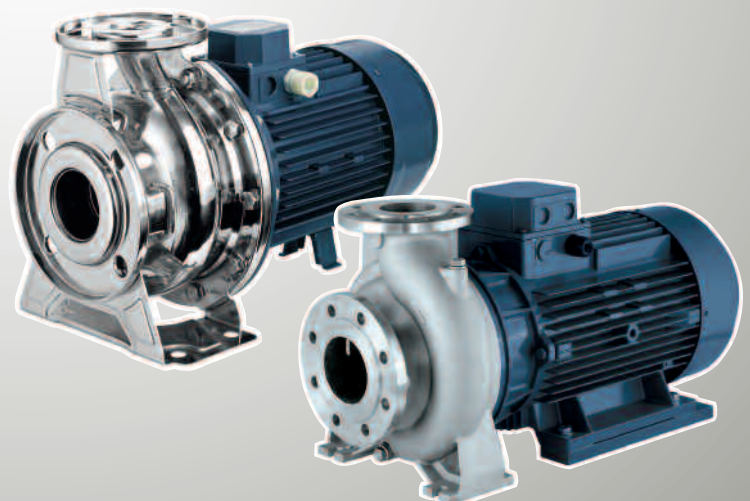
EBARA

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS

STANDARDISED IN COMPLIANCE WITH EN733 (EX DIN 24255)

60 Hz



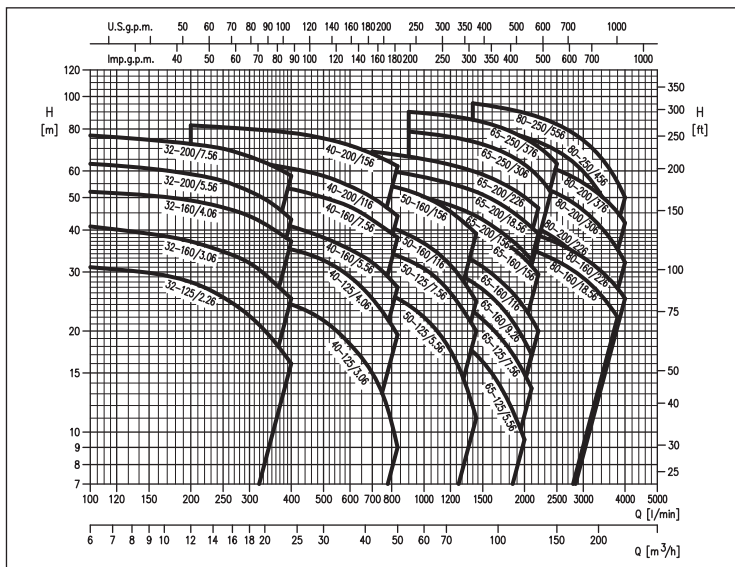
3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)



PERFORMANCE RANGE 3 SERIES

at 2900 min⁻¹ (according to ISO 9906 Attachment A)



Standardised centrifugal electric pumps built in stainless steel AISI 304 (3 SERIES) and AISI 316L (3L SERIES).

APPLICATIONS

- Water supply to civil, agricultural and industrial plants
- Pressure boosting
- Fire-fighting, heating systems and air-conditioning
- Moving industrial liquids
- Irrigation
- Refrigeration towers
- Swimming pools
- Emptying
- Washing plants

TECHNICAL DETAILS

- Highly resistant construction
- Hydroforming process EBARA patent

PUMP TECHNICAL DATA

- Maximum working pressure: 10 bar
- Maximum temperature of the liquid:
 - 10°C ÷ +90°C
 - 10°C ÷ +110°C (L-H-HS-HW-HSW-E versions)
 - 10°C ÷ +120°C (ES version)

MOTOR TECHNICAL DATA

- Self-ventilated 2 poles asynchronous motor
- Class of insulation F (B for high temperatures)
- IP 55 protection degree
- 220/380-460V ±10% (up to 4kW included) three phase voltage, 60Hz for 3(L)M SERIES,
- 380-460/660V ±10% (5,5kW and above) three phase voltage, 60Hz for 3(L)M SERIES,
- 265/460V ±10% (up to 4kW included) three phase voltage, 60Hz for 3(L)S-3(L)P SERIES
- 460V ±10% (5,5 kW and above) three phase voltage, 60Hz for 3(L)S-3(L)P SERIES
- Protection is user's responsibility

MATERIALS

- Pump casing and casing cover in:
 - AISI 304 for 3 SERIES 32-125/160/200
40-125/160/200
50-125/160
65-125/160/200
 - AISI 316L for 3L SERIES 32-125/160/200
40-125/160/200
50-125/160
65-125/160/200
 - AISI 316 microcasted for 3L SERIES 65-250
80-160/200/250
- Impeller in:
 - AISI 304 for 3 SERIES 32-125/160/200
40-125/160/200
50-125/160
 - AISI 316L for 3L SERIES 32-125/160/200
40-125/160/200
50-125/160
 - AISI 316 microcasted for 3 SERIES 65-125/160/200
3L SERIES 65-125/160/200
65-250
80-160/200/250
- Mechanical seal standard in:
 - Carbon/Ceramic/NBR for 3 SERIES 32-125/160/200
40-125/160/200
50-125/160
65-125/160/200
 - SiC/SiC/FPM for 3L SERIES 32-125/160/200
40-125/160/200
50-125/160
65-125/160/200/250
80-160/200/250
- Special mechanical seals available on request

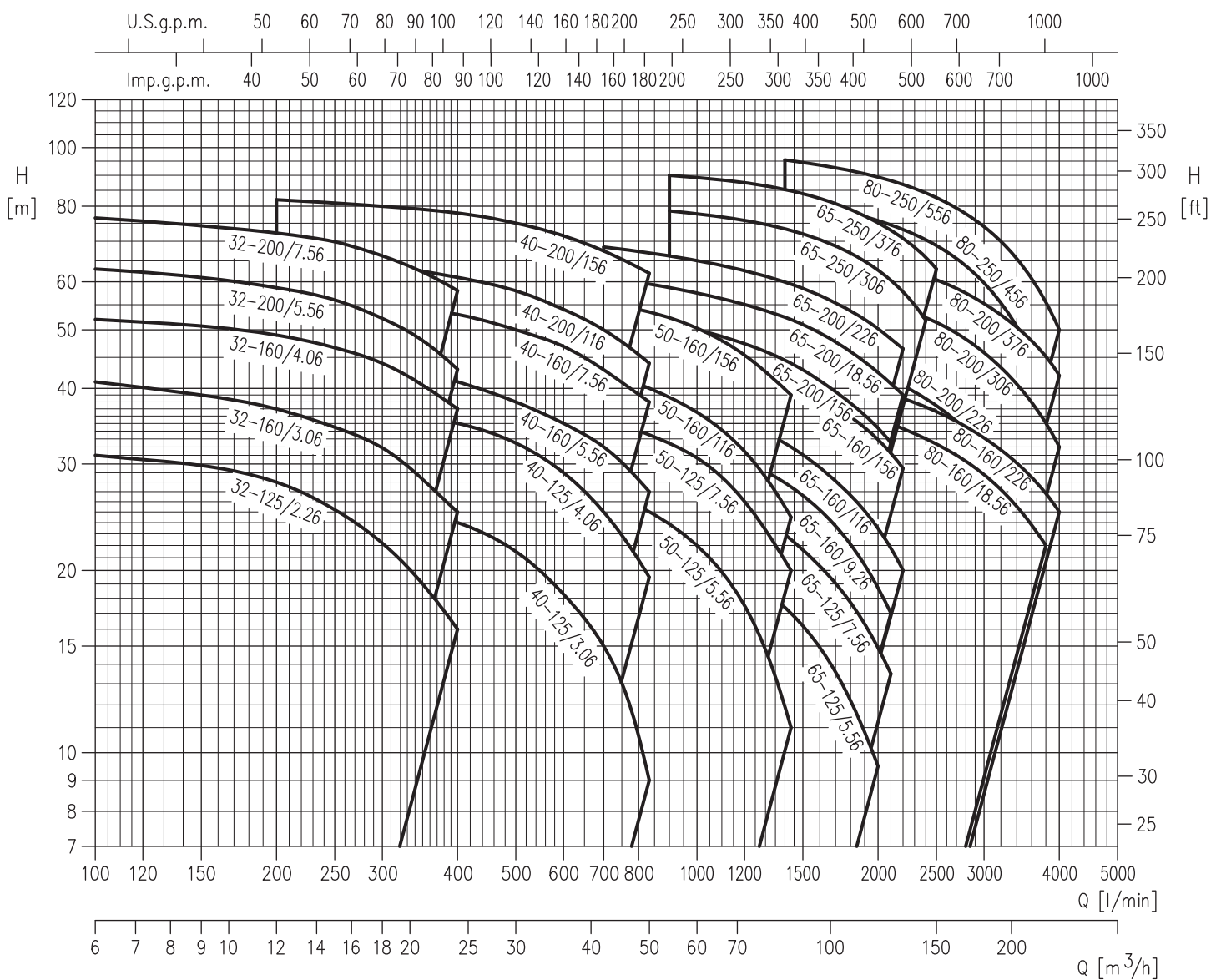
ACCESSORIES (On request)

- Counter-flanges available in the following materials:
 - galvanised
 - AISI 304
 - AISI 316

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

PERFORMANCE RANGE 3 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

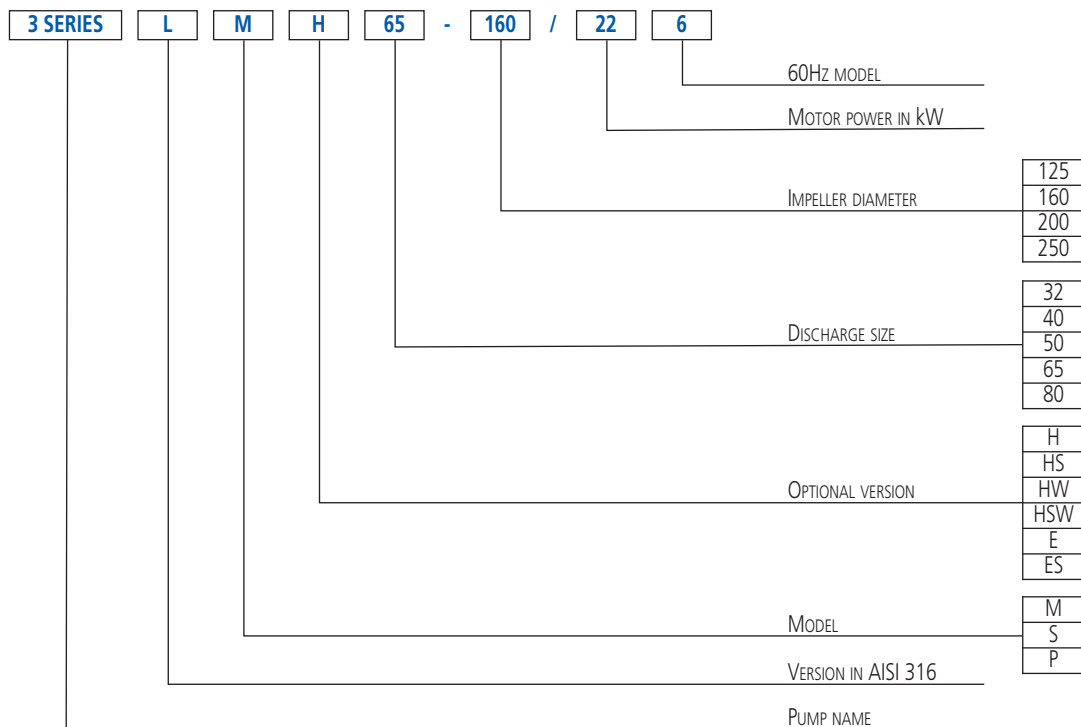


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3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

IDENTIFICATION CODE



	Versions	3M	3S	3P	3LM	3LS	3LP
Pump	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	-	-	-	-	•	•

√ = Models also available in H-HS-HW-HSW version for 32, 40, 50, 65-125/160/200

• = Models also available in H-HW-HSW-E version for 65-250, 80 and in ES version for 80-250 Ø35

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

PERFORMANCE TABLE 32-40-50

Model	P ₂		Q=Flow rate														
	[HP]	[kW]	l/min	100	150	200	250	300	350	400	500	600	700	833	1000	1200	1433
			m ³ /h	6	9	12	15	18	21	24	30	36	42	50	60	72	86
			H=Head [m]														
3(.) SERIES 32-125/2.26	3	2,2	31,4	30,4	28,6	26,1	23,3	20,2	17,0	-	-	-	-	-	-	-	-
3(.) SERIES 32-160/3.06	4	3	41,0	39,6	37,8	35,4	32,5	29,4	26,0	-	-	-	-	-	-	-	-
3(.) SERIES 32-160/4.06	5,5	4	51,5	50,5	48,5	46,5	43,5	40,0	36,6	-	-	-	-	-	-	-	-
3(.) SERIES 32-200/5.56	7,5	5,5	62,5	61,0	59,0	56,0	53,0	48,5	44,0	-	-	-	-	-	-	-	-
3(.) SERIES 32-200/7.56	10	7,5	76,0	74,5	72,5	69,5	66,0	62,0	57,0	-	-	-	-	-	-	-	-
3(.) SERIES 40-125/3.06	4	3	-	-	28,2	27,7	27,0	26,1	24,9	22,3	19,1	15,4	10,0	-	-	-	-
3(.) SERIES 40-125/4.06	5,5	4	-	-	37,2	36,8	36,0	35,1	34,0	31,6	28,6	25,2	20,0	-	-	-	-
3(.) SERIES 40-160/5.56	7,5	5,5	-	-	44,0	43,5	42,5	41,5	40,0	37,2	34,0	30,7	26,2	-	-	-	-
3(.) SERIES 40-160/7.56	10	7,5	-	-	56,0	55,5	54,5	53,5	52,0	49,0	46,0	42,5	38,0	-	-	-	-
3(.) SERIES 40-200/116	15	11	-	-	66,5	66,0	65,0	63,5	62,0	58,5	55,0	51,0	45,0	-	-	-	-
3(.) SERIES 40-200/156	20	15	-	-	82,0	81,5	80,5	79,5	78,0	75,0	71,5	67,5	62,0	-	-	-	-
3(.) SERIES 50-125/5.56	7,5	5,5	-	-	-	-	-	-	-	30,0	29,2	28,0	26,0	22,8	18,4	12,6	-
3(.) SERIES 50-125/7.56	10	7,5	-	-	-	-	-	-	-	36,5	35,7	34,6	32,7	29,7	25,3	19,5	-
3(.) SERIES 50-160/116	15	11	-	-	-	-	-	-	-	46,0	45,0	43,5	41,0	37,4	32,4	25,8	-
3(.) SERIES 50-160/156	20	15	-	-	-	-	-	-	-	56,0	55,5	54,0	52,0	49,0	45,0	39,0	-

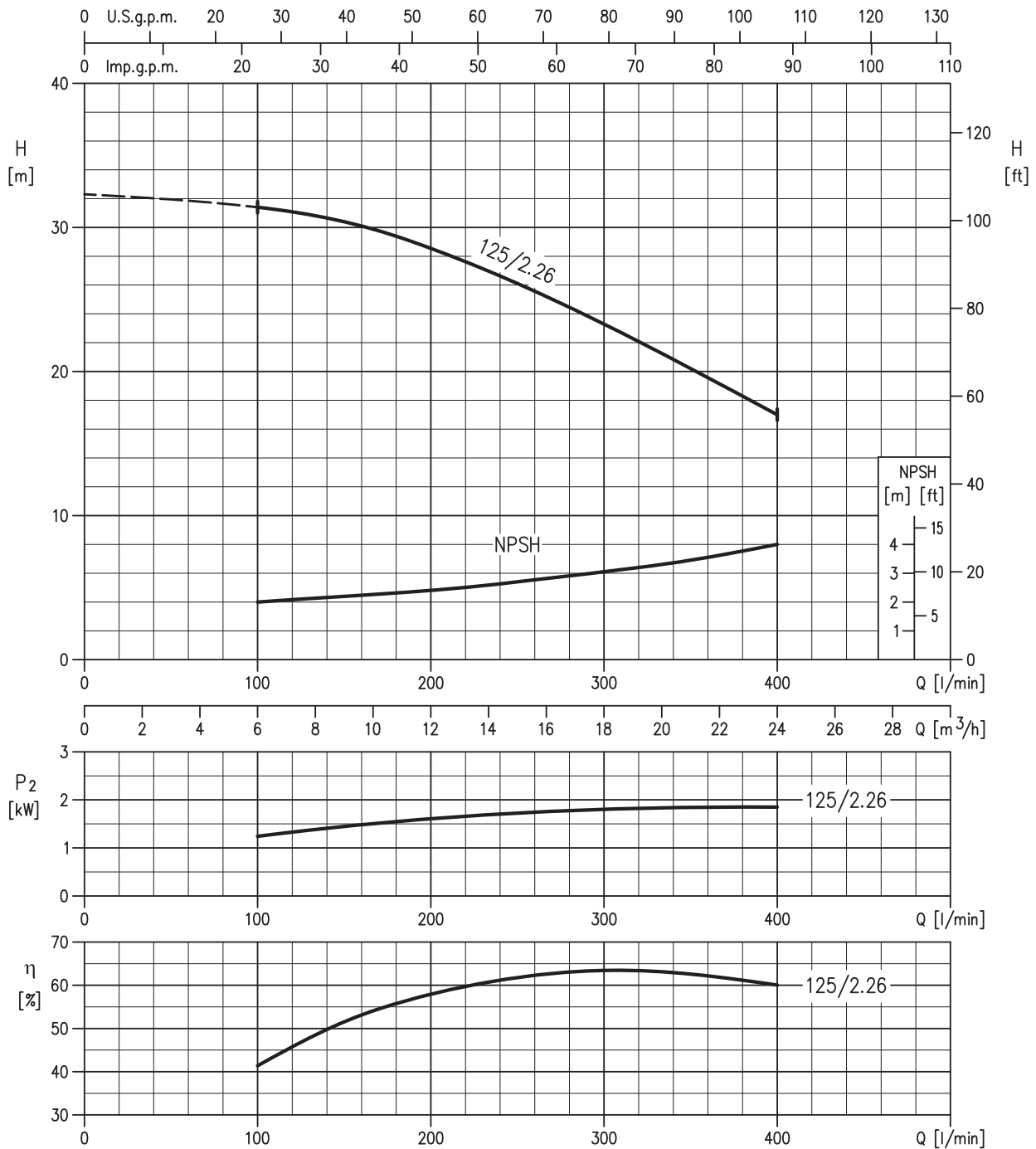
PERFORMANCE TABLE 65-80

Model	P ₂		Q=Flow rate																
	[HP]	[kW]	l/min	600	700	900	1200	1400	1600	1800	2000	2100	2200	2400	2500	3100	3600	3800	4000
			m³/h	36	42	54	72	84	96	108	120	126	132	144	150	186	216	228	240
			H=Head [m]																
3(.) SERIES 65-125/5.56	7,5	5,5	25,7	24,9	22,9	19,6	17,2	14,8	12,2	9,5	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-125/7.56	10	7,5	31,5	30,7	28,8	25,5	23,0	20,4	17,7	14,9	13,5	-	-	-	-	-	-	-	-
3(.) SERIES 65-160/9.26	12,5	9,2	-	35,5	33,6	30,3	27,9	25,2	22,1	18,7	17,0	-	-	-	-	-	-	-	-
3(.) SERIES 65-160/116	15	11	-	40,5	38,5	35,0	32,4	29,6	26,6	23,5	21,8	20,0	-	-	-	-	-	-	-
3(.) SERIES 65-160/156	20	15	-	48,5	47,0	43,5	41,5	38,7	35,9	32,9	31,3	29,5	-	-	-	-	-	-	-
3(.) SERIES 65-200/156	20	15	-	53,5	51,5	47,5	44,5	41,0	37,8	34,4	32,5	-	-	-	-	-	-	-	-
3(.) SERIES 65-200/18.56	25	18,5	-	61,0	59,0	55,0	52,5	49,5	46,0	42,5	40,5	39,0	-	-	-	-	-	-	-
3(.) SERIES 65-200/226	30	22	-	68,5	66,5	62,5	60,0	57,0	53,5	50,0	48,5	46,5	-	-	-	-	-	-	-
3(.) SERIES 65-250/306	40	30	-	-	78,5	76,0	73,5	70,5	67,0	62,5	60,5	58,0	52,0	-	-	-	-	-	-
3(.) SERIES 65-250/376	50	37	-	-	90,0	87,5	85,0	82,5	79,0	75,0	73,0	71,0	66,0	63,0	-	-	-	-	-
3(.) SERIES 80-160/18.56	25	18,5	-	-	-	-	38,8	37,9	36,8	35,6	35,0	34,3	33,0	32,4	28,1	23,8	22,0	-	-
3(.) SERIES 80-160/226	30	22	-	-	-	-	42,5	42,0	41,0	39,7	39,0	38,5	37,3	36,6	32,4	28,5	26,9	25,0	-
3(.) SERIES 80-200/226	30	22	-	-	-	-	47,0	45,5	44,0	42,5	41,5	40,5	38,5	37,5	30,5	24,0	-	-	-
3(.) SERIES 80-200/306	40	30	-	-	-	-	60,0	59,0	57,5	56,0	55,0	54,0	52,5	51,5	44,5	37,9	35,1	32,0	-
3(.) SERIES 80-200/376	50	37	-	-	-	-	68,5	67,5	66,0	64,5	64,0	63,0	61,5	60,5	54,0	48,0	45,0	42,0	-
3(.) SERIES 80-250/456	60	45	-	-	-	-	82,0	80,0	78,0	75,5	74,5	73,0	70,5	69,0	57,5	45,5	40,0	-	-
3(.) SERIES 80-250/556	75	55	-	-	-	-	95,5	93,5	91,5	89,5	88,0	87,0	84,0	82,5	72,0	61,0	55,5	50,0	-

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

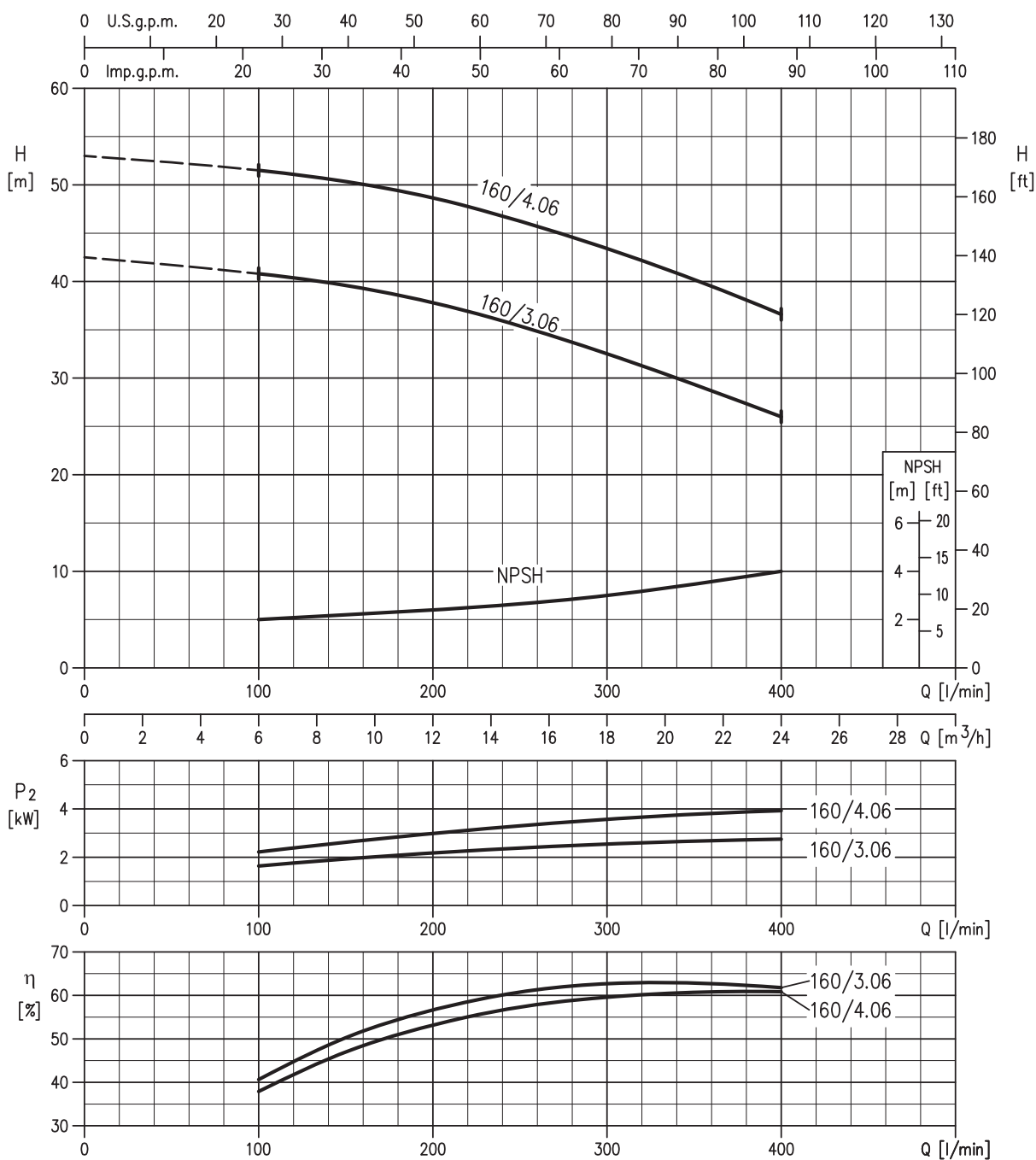
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 32-125 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

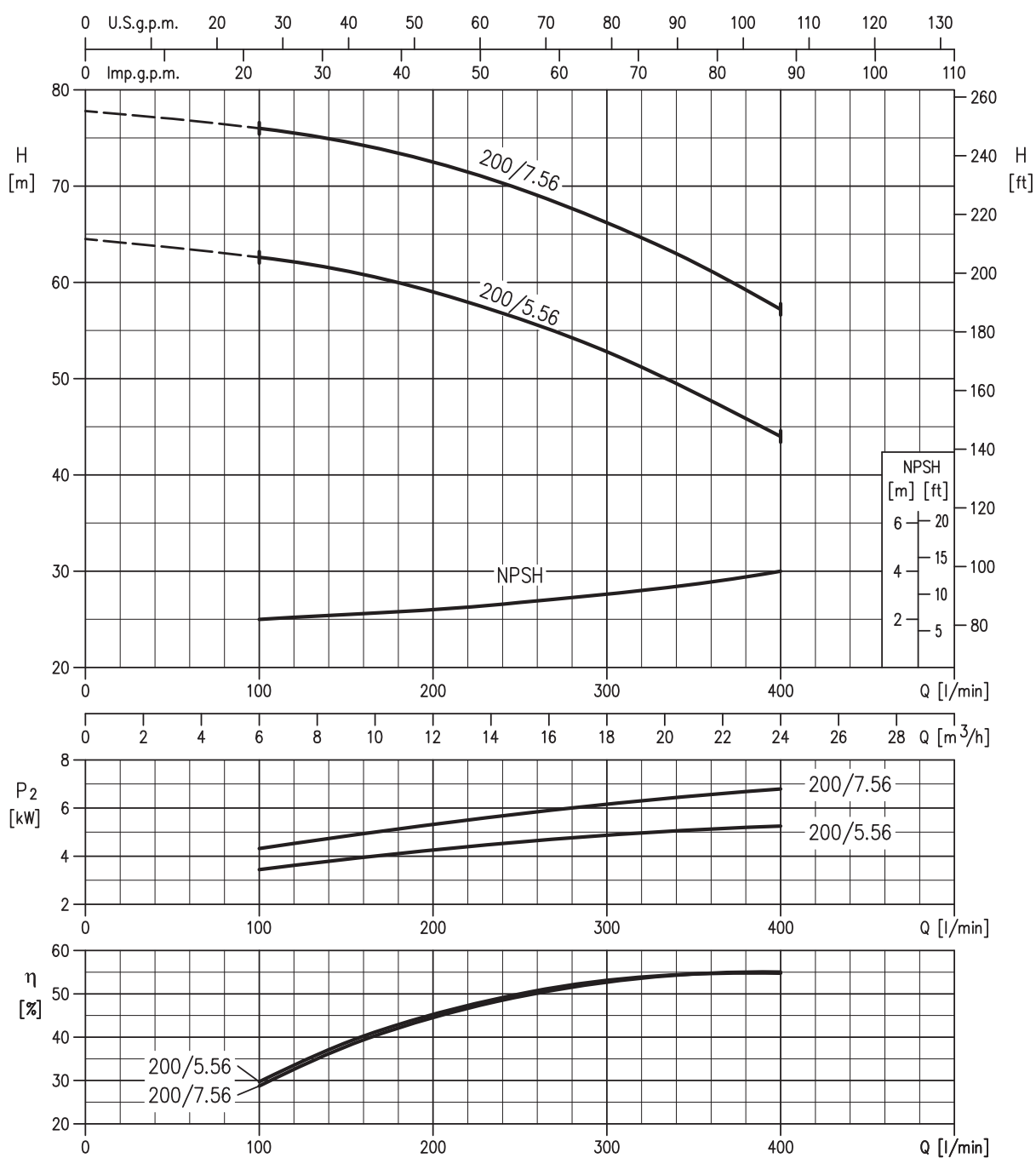
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 32-160 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

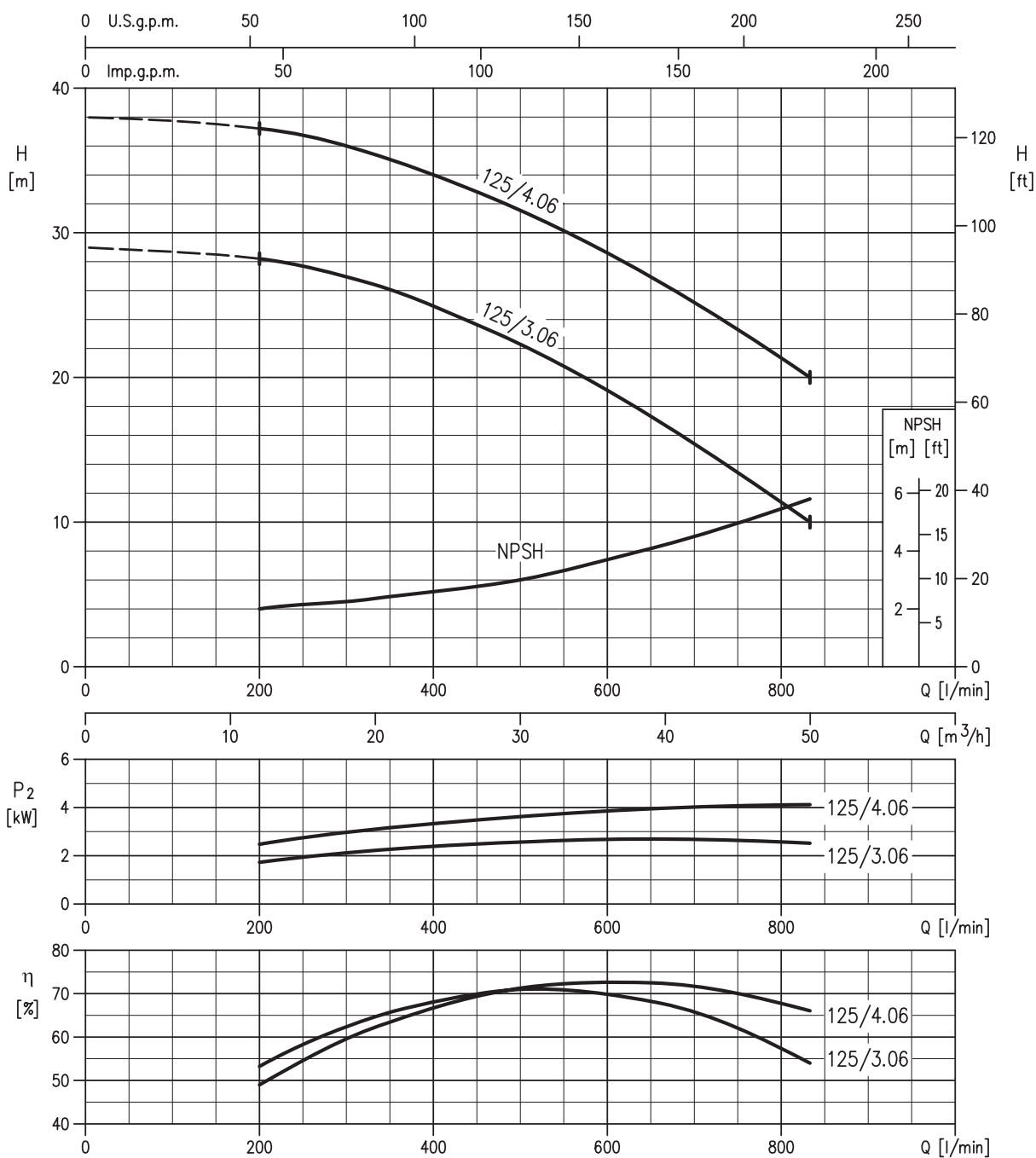
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 32-200 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

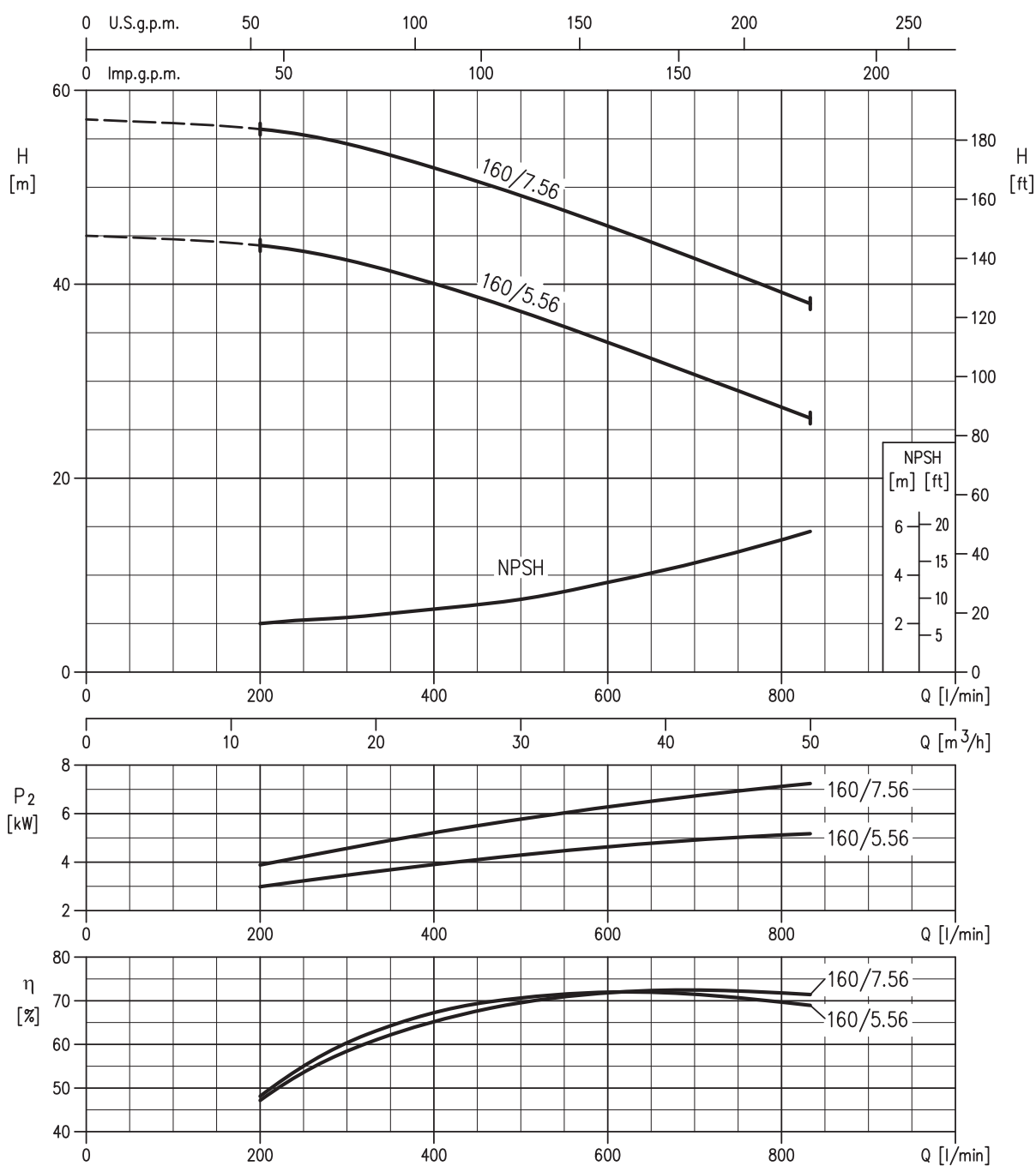
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 40-125 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

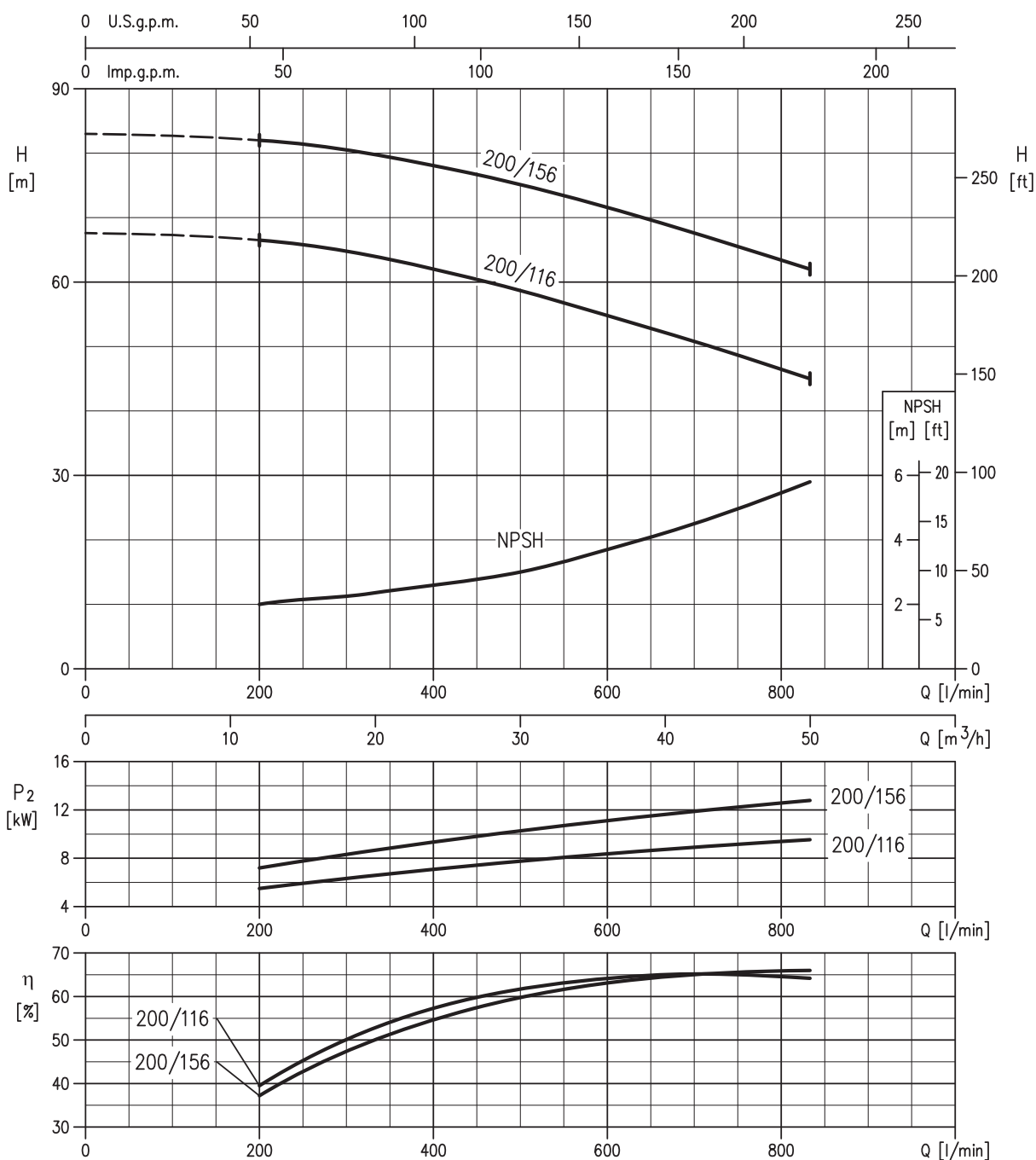
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 40-160 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

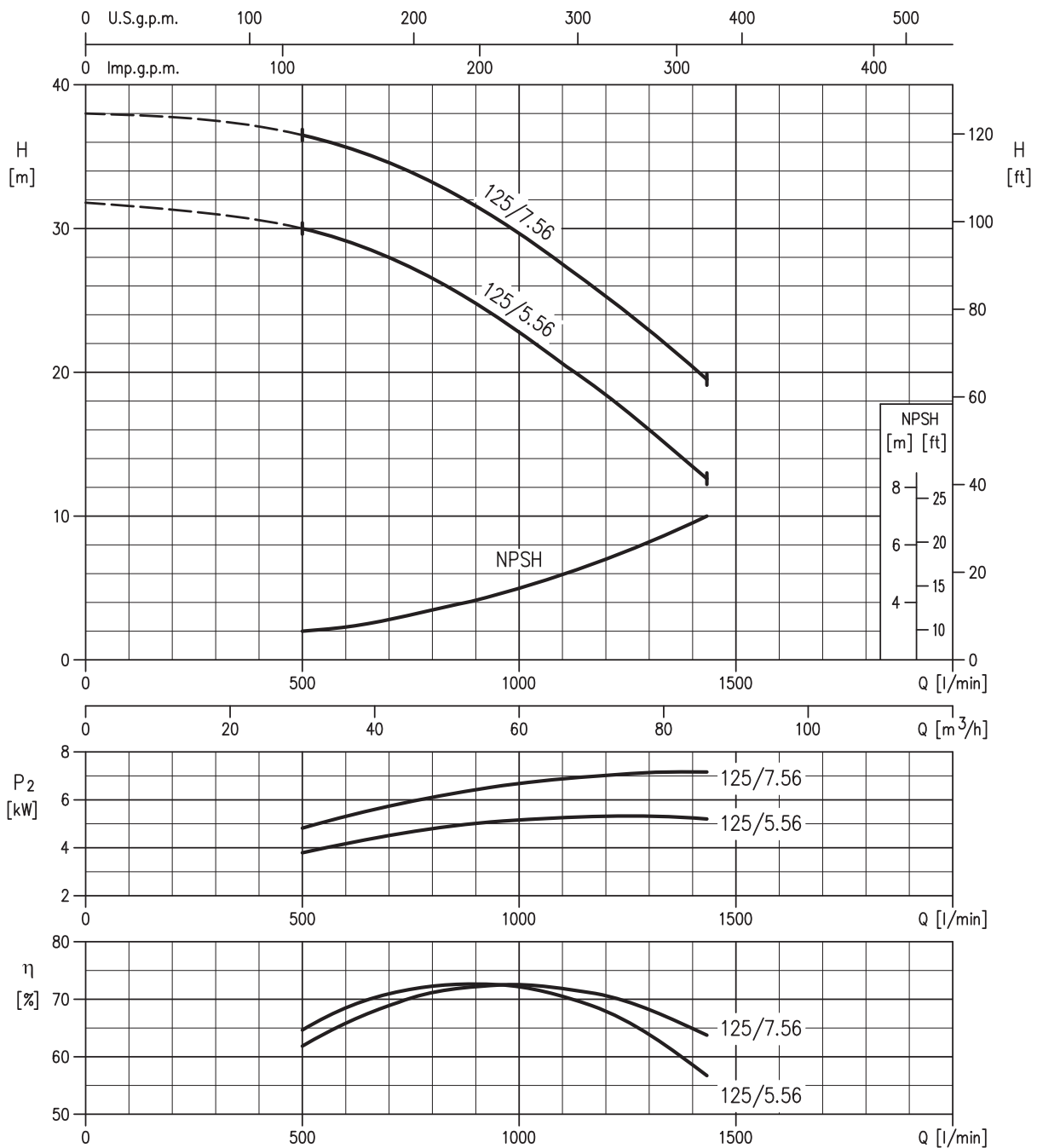
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 40-200 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

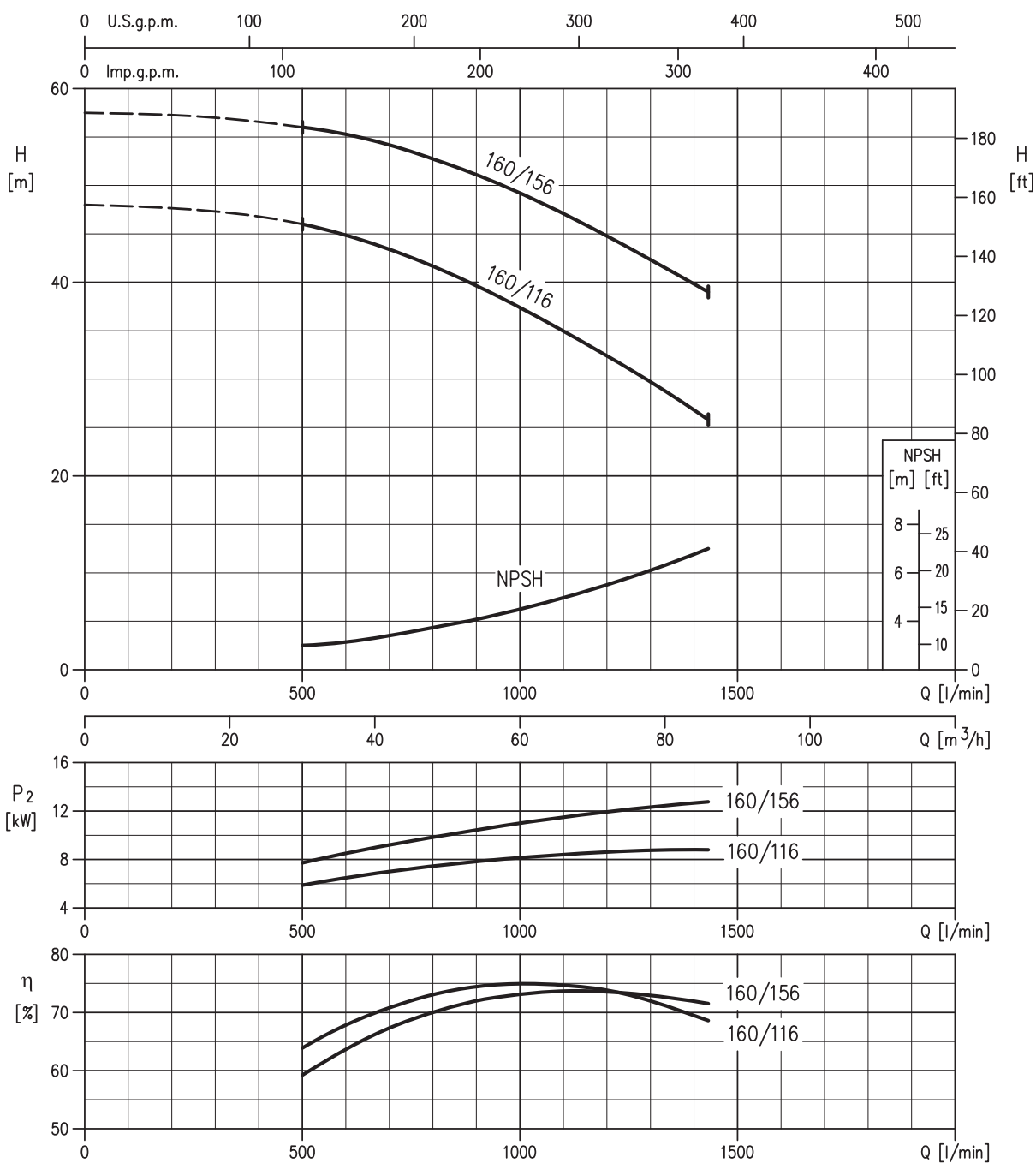
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 50-125 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

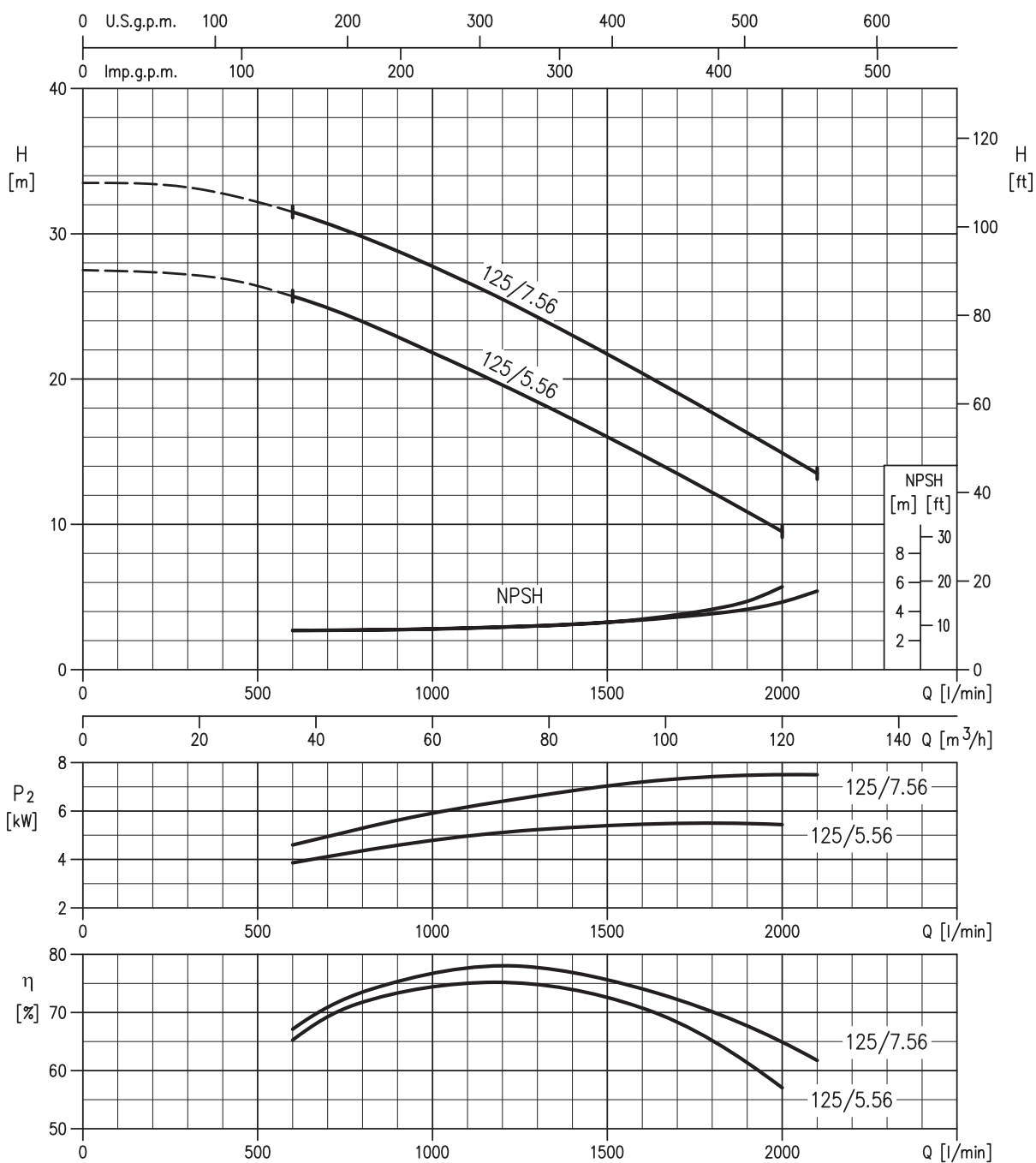
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 50-160 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

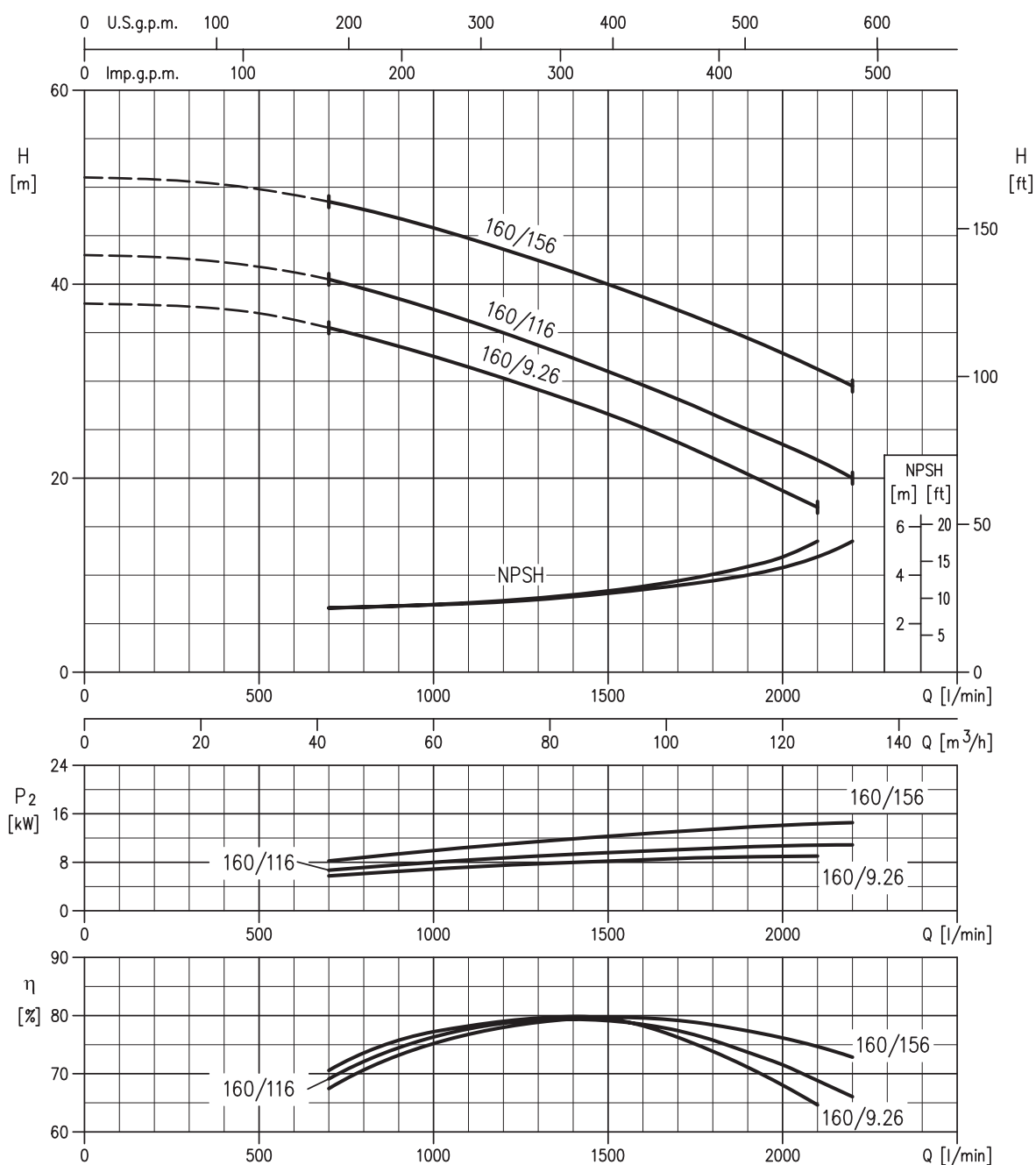
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 65-125 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

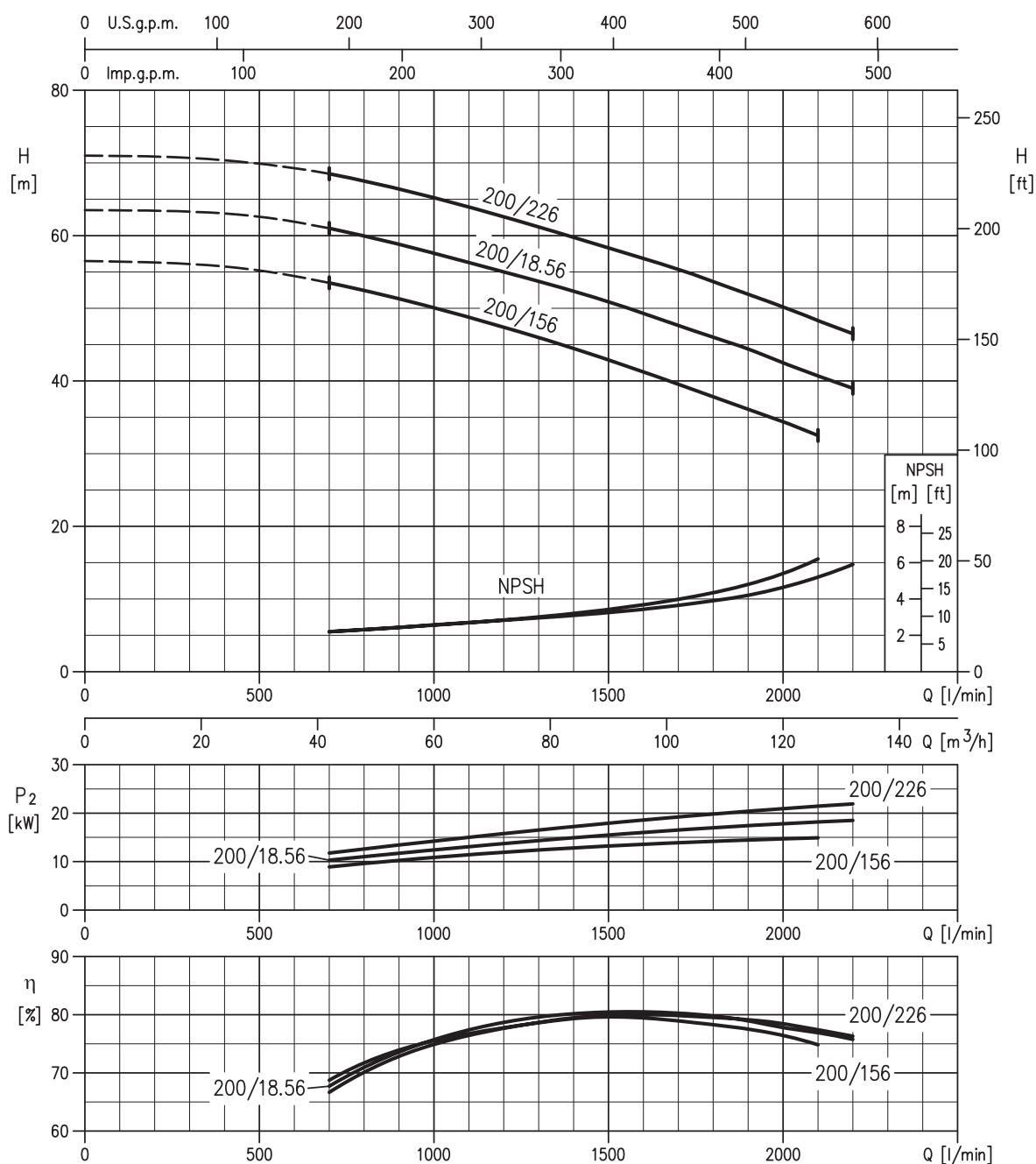
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 65-160 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

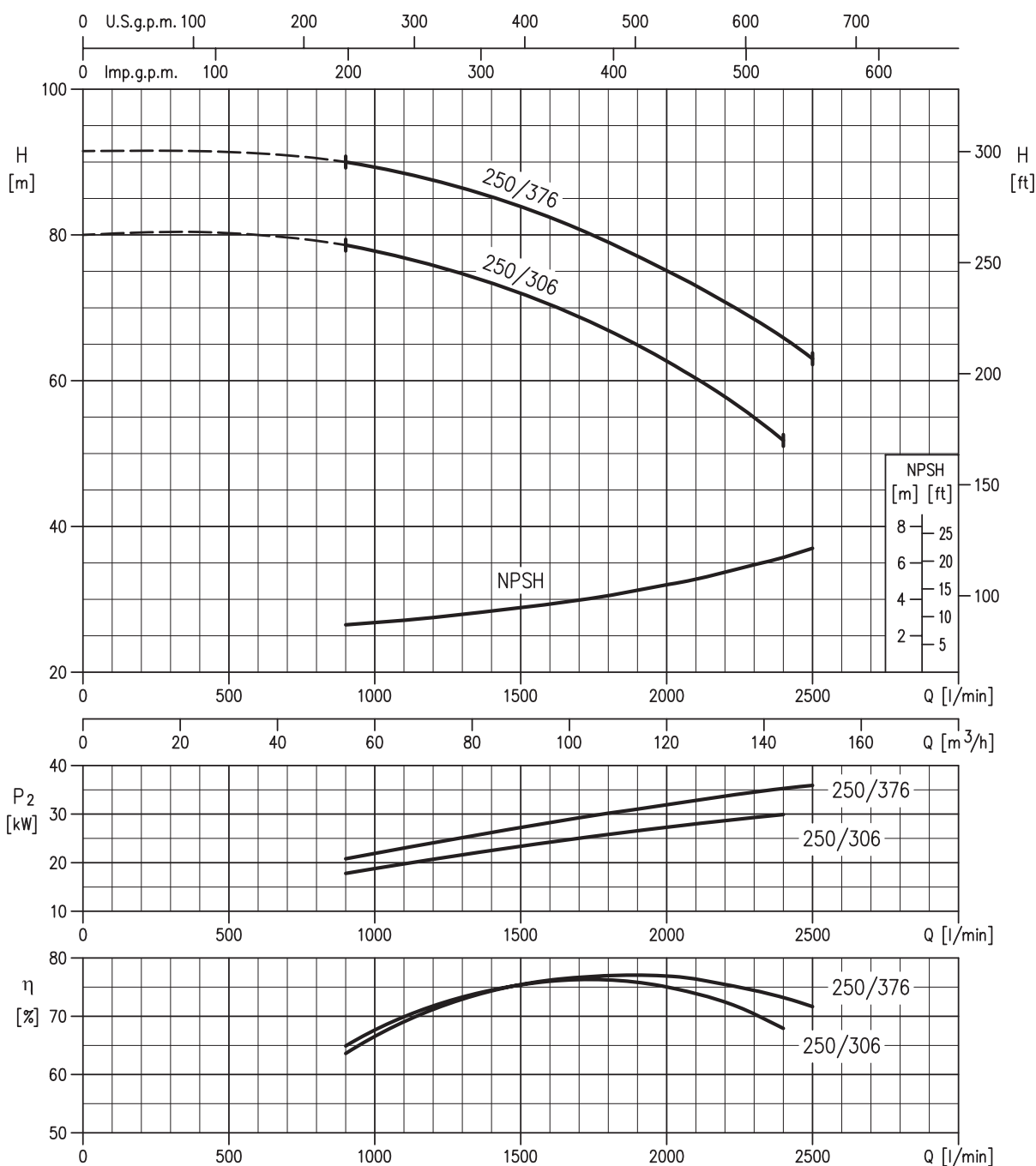
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P SERIES 65-200 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

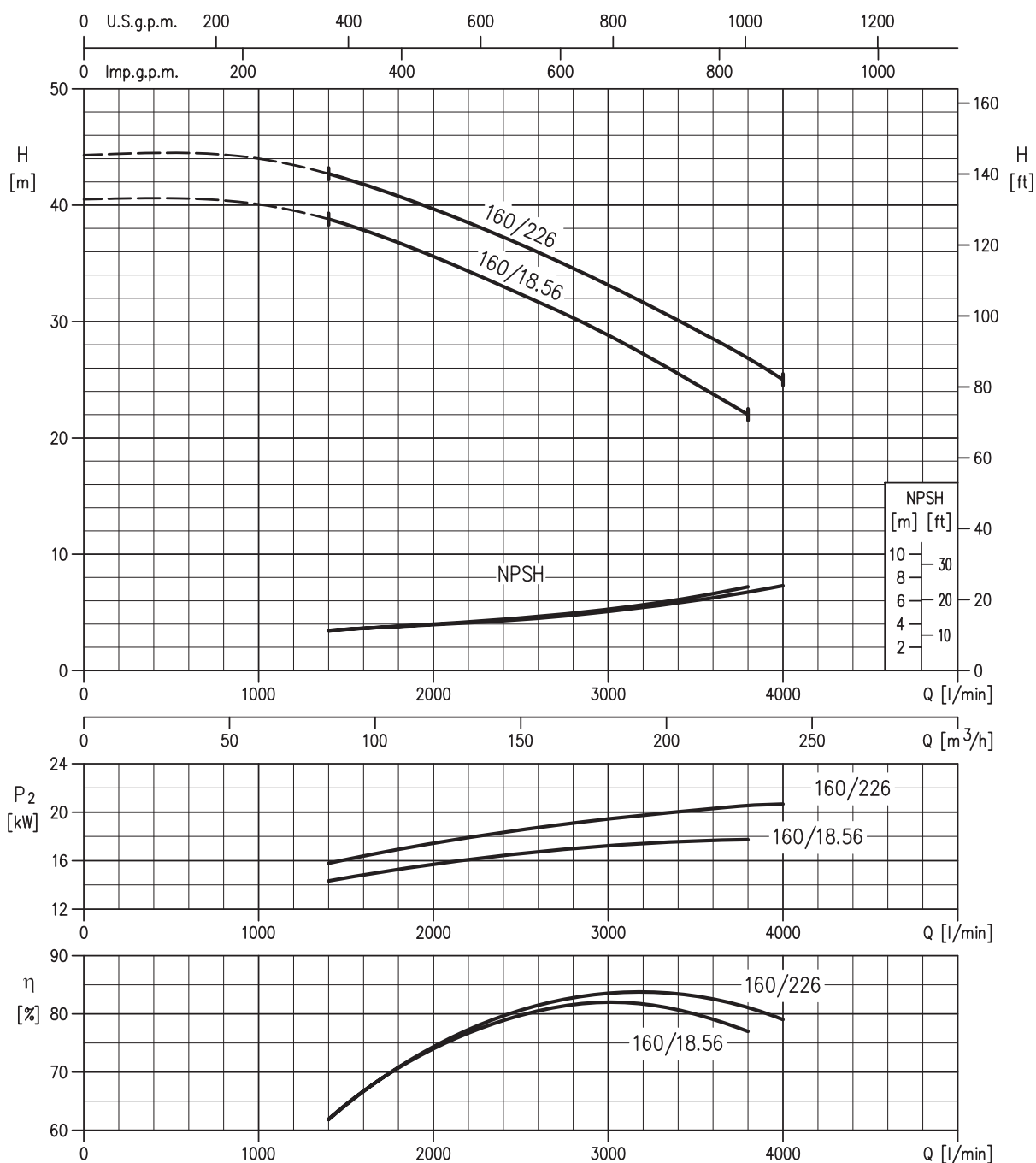
PERFORMANCE CURVES 3LS-3LP SERIES 65-250 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

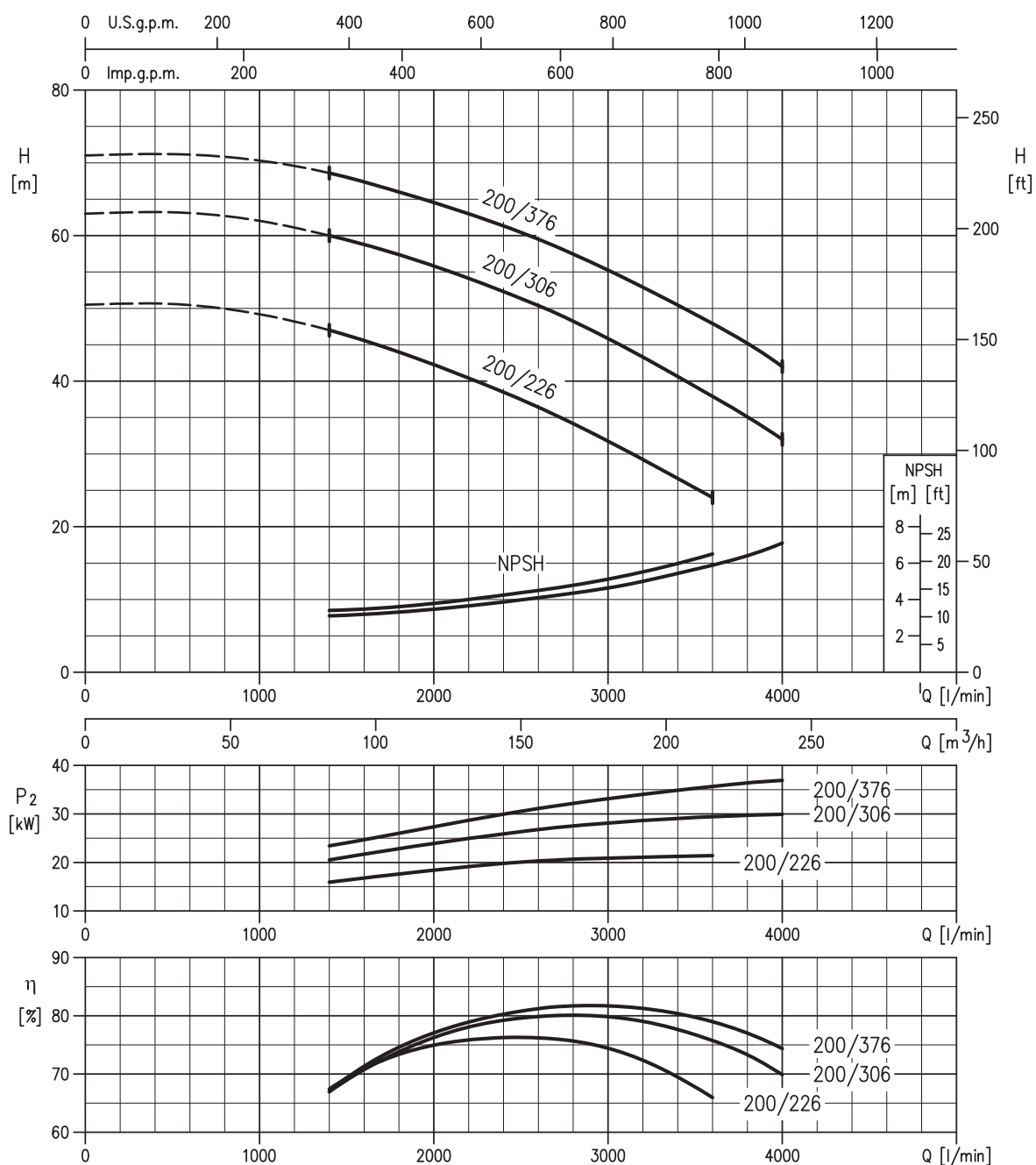
PERFORMANCE CURVES 3LM-3LS-3LP SERIES 80-160 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

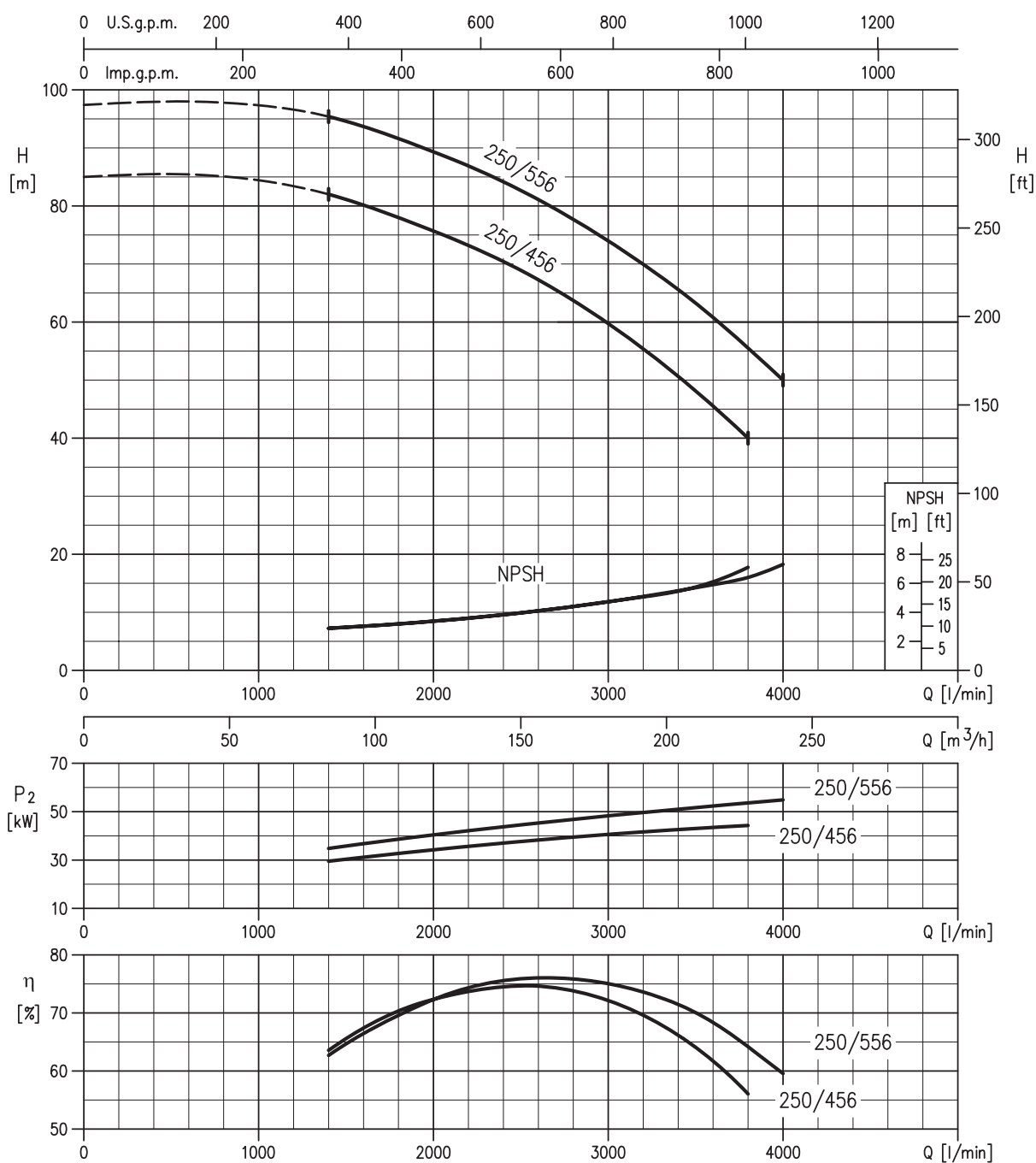
PERFORMANCE CURVES 3LS-3LP SERIES 80-200 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

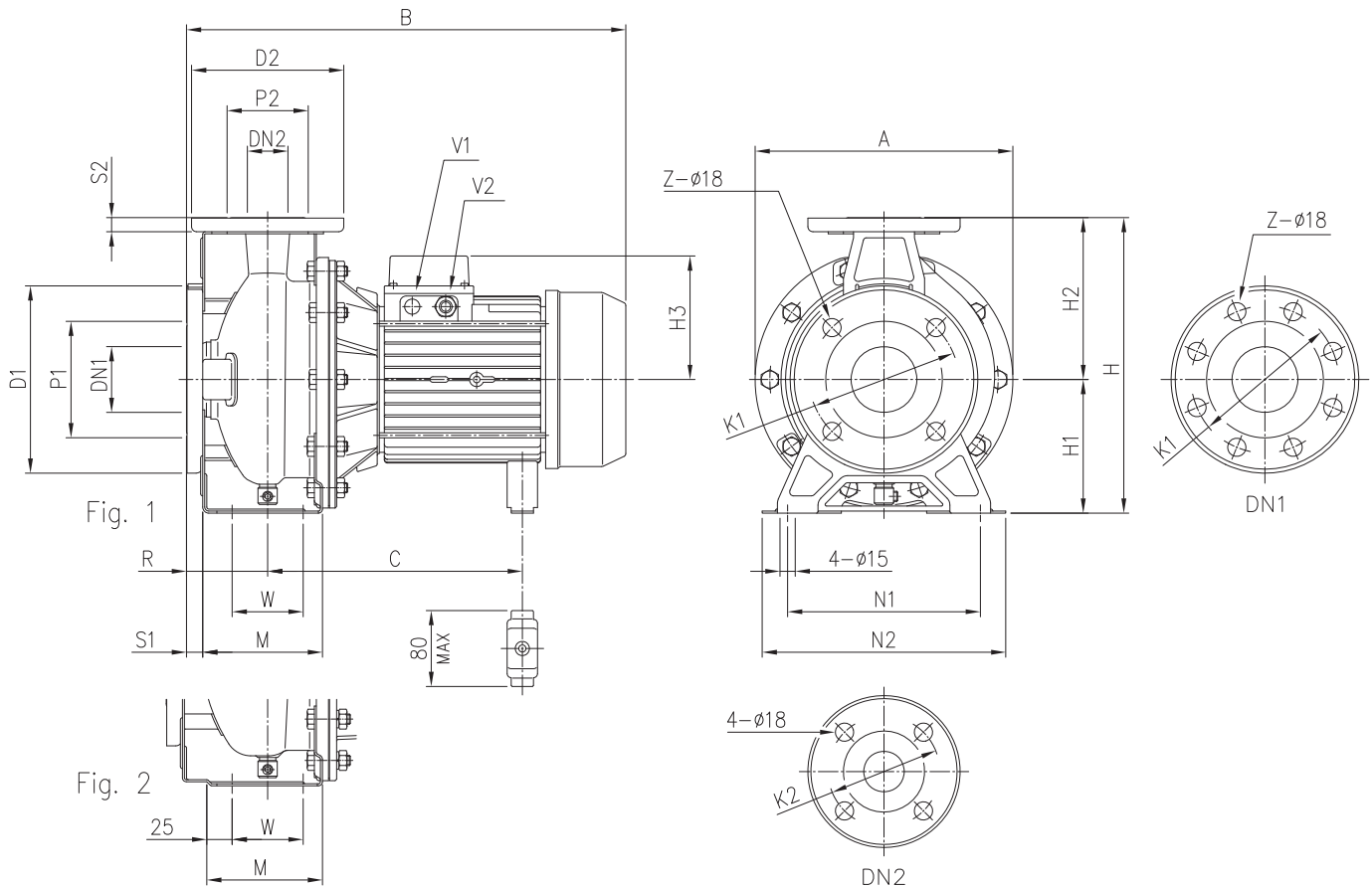
PERFORMANCE CURVES 3LS-3LP SERIES 80-250 at 2900 min⁻¹ (according to ISO 9906 Attachment A)



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

DIMENSIONS 3(L)M 32, 40-125/160/200, 50-125/160, 65-125/160



DIMENSIONAL TABLE

Model	Dimensions [mm]																									Weight [kg]		
	DN1	P1	K1	D1	S1	Z		DN2	P2	K2	D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C		V1	V2
	Ø	Ø	Ø	Ø		[1]	[2]	Ø	Ø	Ø	Ø																	
32-125/2.26	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	124	80	70	114	140	190	213	432	244÷255	-	PG13,5	22,1
32-160/3.06	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	124	80	70	118	190	240	254	471	244÷255	-	PG13,5	26,2
32-160/4.06	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	141	80	70	118	190	240	254	494	253	-	PG16	34,5
32-200/5.56	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	150	80	70	119	190	240	296	519	275	PG13,5	PG16	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	519	275	PG13,5	PG16	48,0
40-125/3.06	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	124	80	70	114	160	210	213	471	244÷255	-	PG13,5	23,0
40-125/4.06	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	141	80	70	114	160	210	213	494	253	-	PG16	36,6
40-160/5.56	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	150	80	70	118	190	240	254	519	275	PG13,5	PG16	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	519	275	PG13,5	PG16	50,2
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	PG13,5	PG21	62,0
50-125/5.56	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	150	100	70	114	190	240	254	539	275	PG13,5	PG16	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	539	275	PG13,5	PG16	50,5
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	PG13,5	PG21	63,0
65-125/5.56	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	150	100	95	140	212	280	254	539	275	PG13,5	PG16	52,0
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	539	275	PG13,5	PG16	53,0
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	PG13,5	PG21	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	PG13,5	PG21	65,0

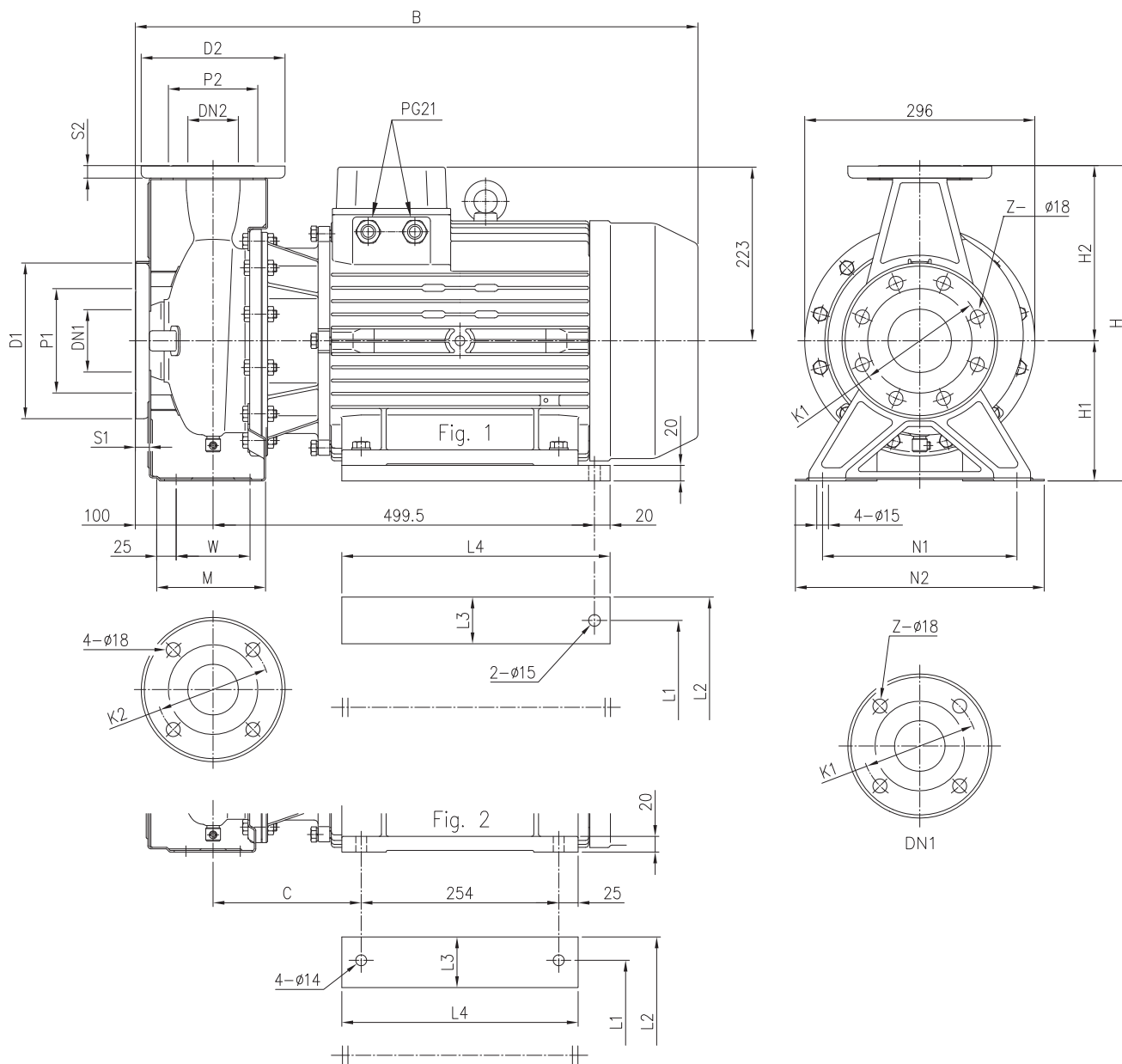
[1] Standard

[2] On request

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

DIMENSIONS 3(L)M 40-200, 50-160, 65-160/200



DIMENSIONAL TABLE

Model	Dimensions [mm]																				Weight [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S	Fig.	H	H1	H2	W	M	N1	N2	
40-200/156	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	70	115	212	265	103,0
50-160/156	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	70	115	212	265	79,5
65-160/156	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	95	140	212	280	103,0
65-200/156	80	134	160	200	18	8	4	65	115	145	185	16	1	405	180	225	95	140	250	320	106,0
65-200/18.56	80	134	160	200	18	8	4	65	115	145	185	16	1	405	180	225	95	140	250	320	120,0
65-200/226	80	134	160	200	18	8	4	65	115	145	185	16	1	405	180	225	95	140	250	320	128,0

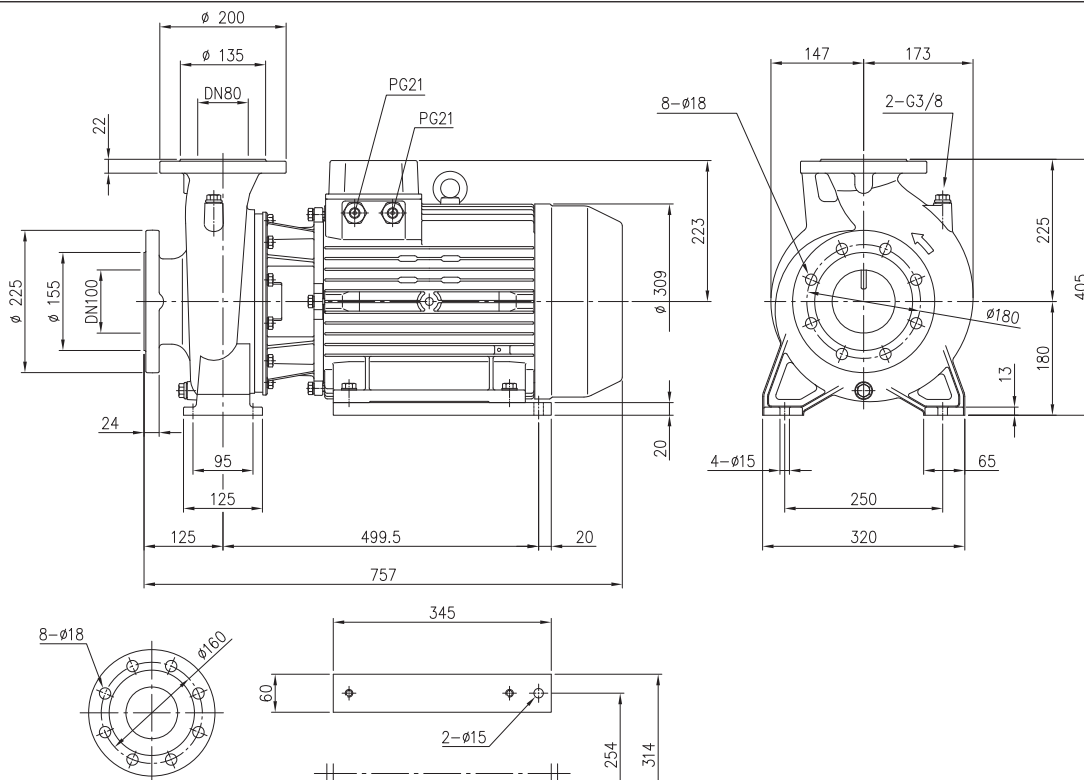
[1] Standard

[2] On request

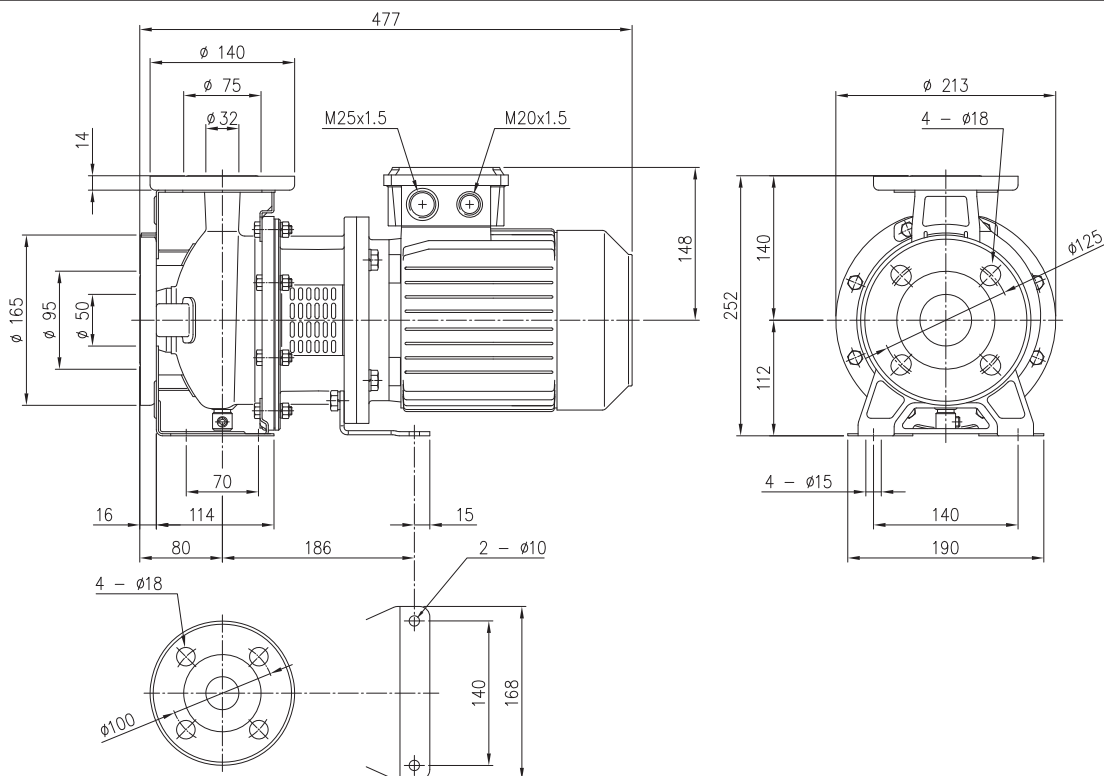
3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

DIMENSIONS 3LM 80-160/18.56 - 3LM 80-160/226



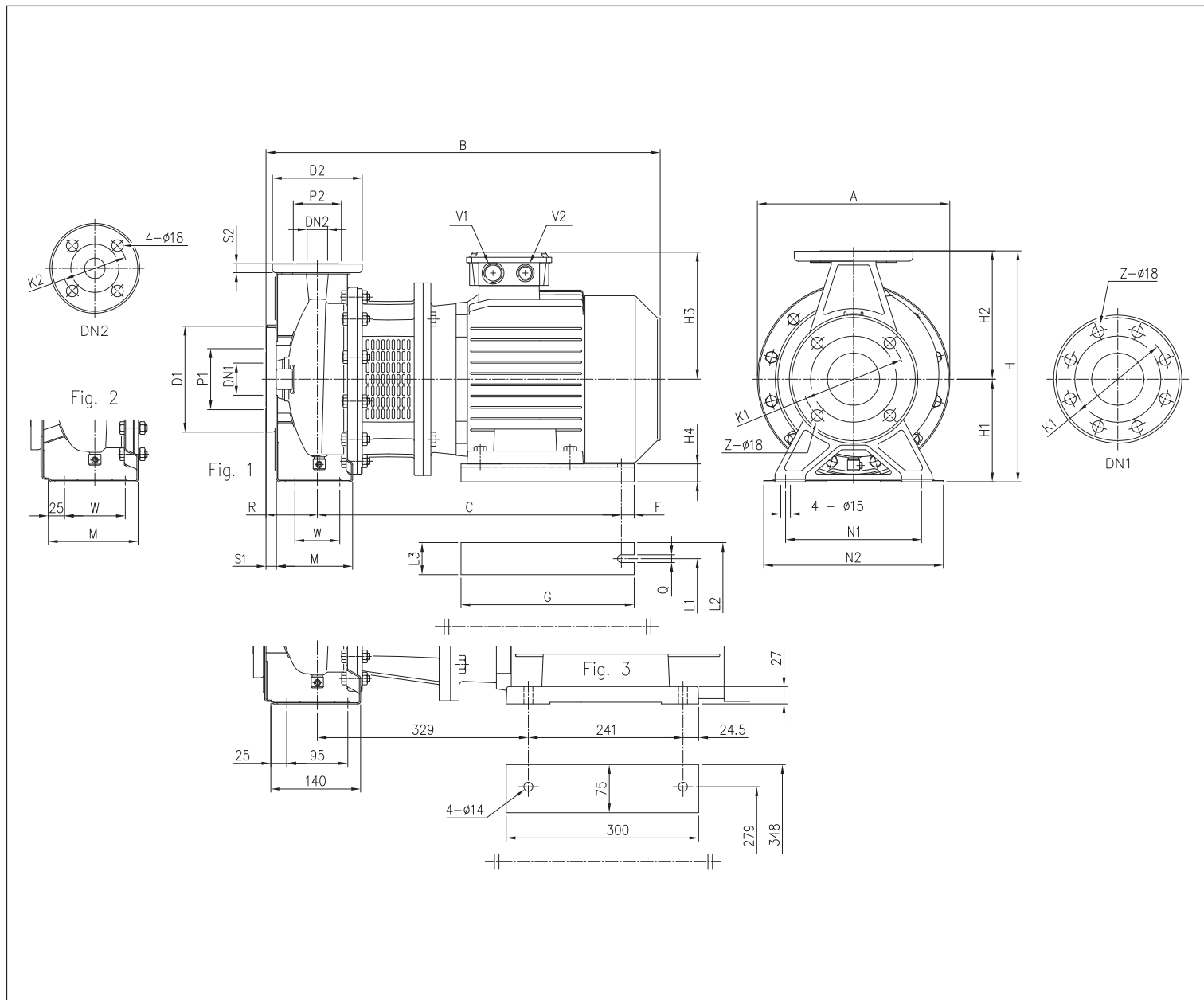
DIMENSIONS 3(L)S 32-125/2.26



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

DIMENSIONS 3(L)S 32, 65-125/160/200



DIMENSIONAL TABLE

Model	Dimensions [mm]																														Weight [kg]				
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z		DN2 Ø	P2	K2	D2	S2	Fig.	H	H1	H2	H3	H4	R	W	M	N1	N2	A	B	C	F	G	Q	L1		L2	L3	V1	V2
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	40,0
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	85,0
65-125/5.56	80	134	160	200	18	8	4	45	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	60,0
65-125/7.56	80	134	160	200	18	8	4	45	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	77,4
65-160/9.26	80	134	160	200	18	8	4	45	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	87,0
65-200/156	80	134	160	200	18	8	4	45	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	121,1
65-200/18.56	80	134	160	200	18	8	4	45	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	130,7
65-200/226	80	134	160	200	18	8	4	45	115	145	185	16	3	405	180	225	268	-	100	-	-	250	320	360	885	-	-	-	-	-	-	-	M32x1,5	M32x1,5	168,0

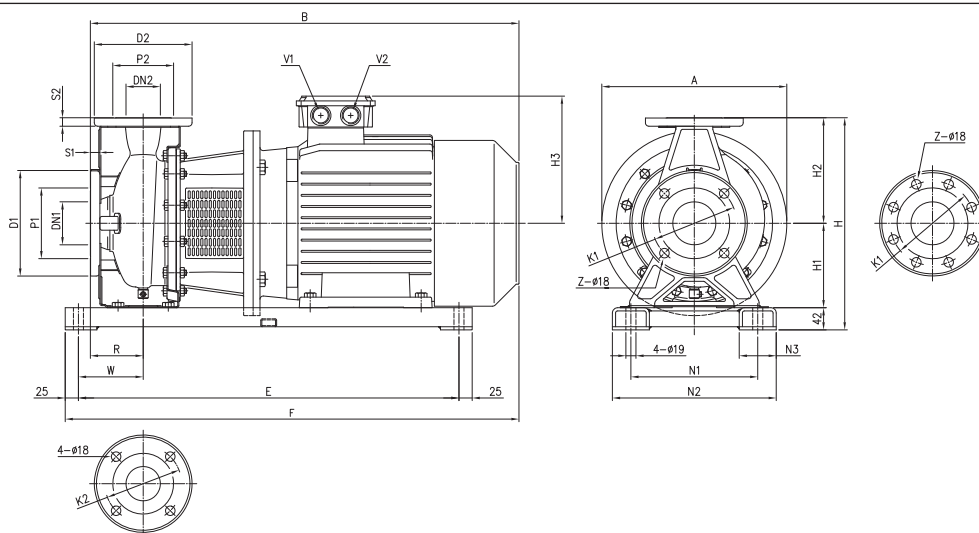
[1] Standard

[2] On request

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

DIMENSIONS 3(L)S 40, 50, 65-160



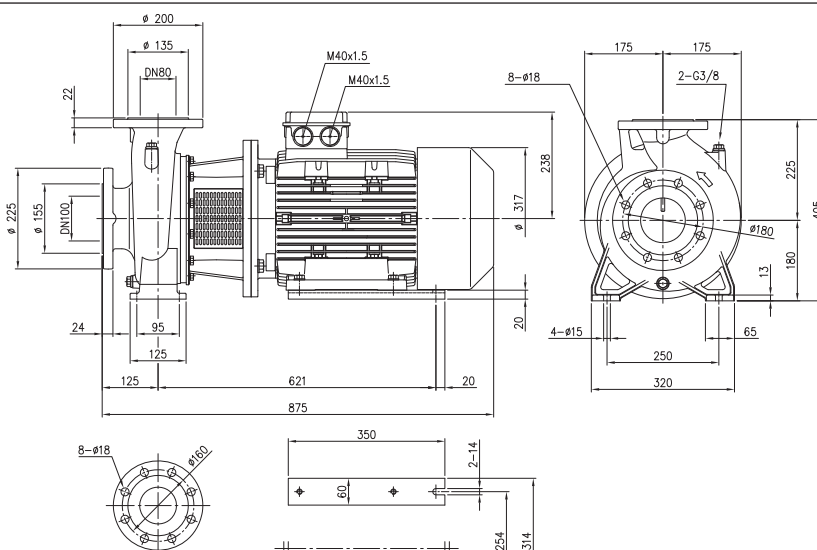
DIMENSIONAL TABLE

Model	Dimensions [mm]																										Weight [kg]		
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	[1]	Z	[2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	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	79,0
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	107,0
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	131,0
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	88,0
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	75,0
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	103,0
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	76,0	
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	104,0	

[1] Standard

[2] On request

DIMENSIONS 3LS 80-160/18.56

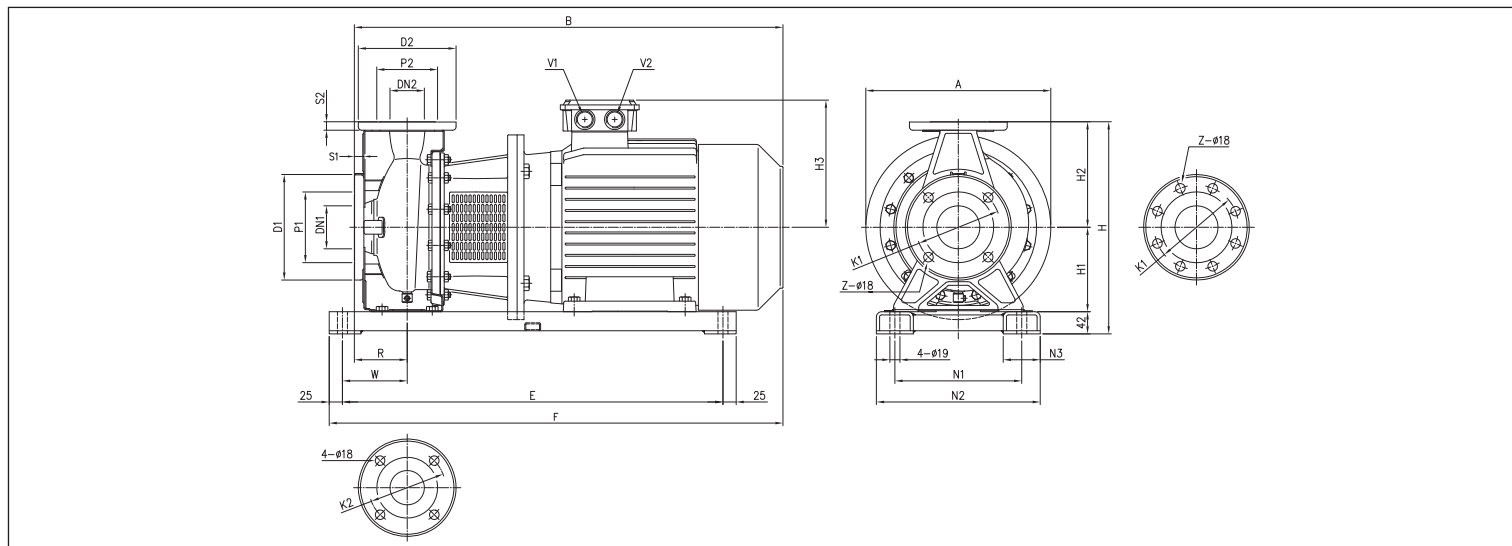


Weight
80-160/18.56: 144,7 kg

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

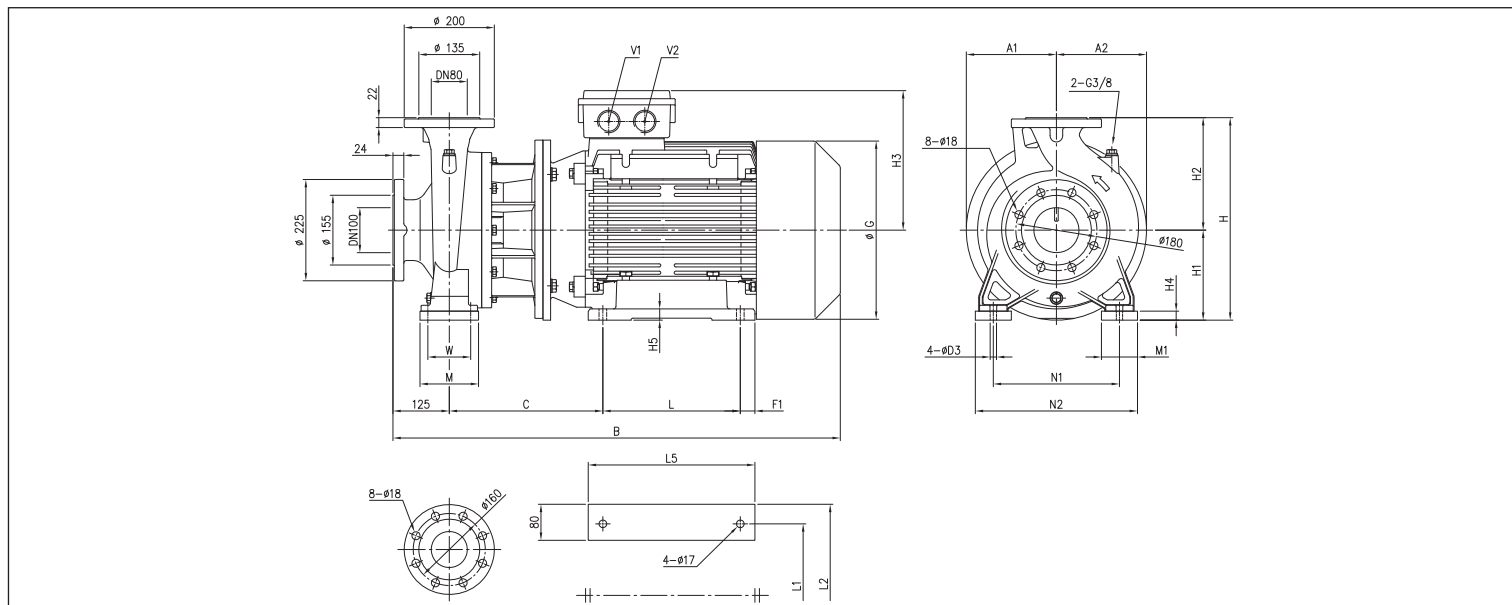
DIMENSIONS 3LS 65-250, 80-160/200



DIMENSIONAL TABLE

Model	Dimensions [mm]																																V1	V2	Weight [kg]		
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	D2 Ø	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
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	303,0
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	320,0
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	200,0
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	200,0

DIMENSIONS 3LS 80-200/250



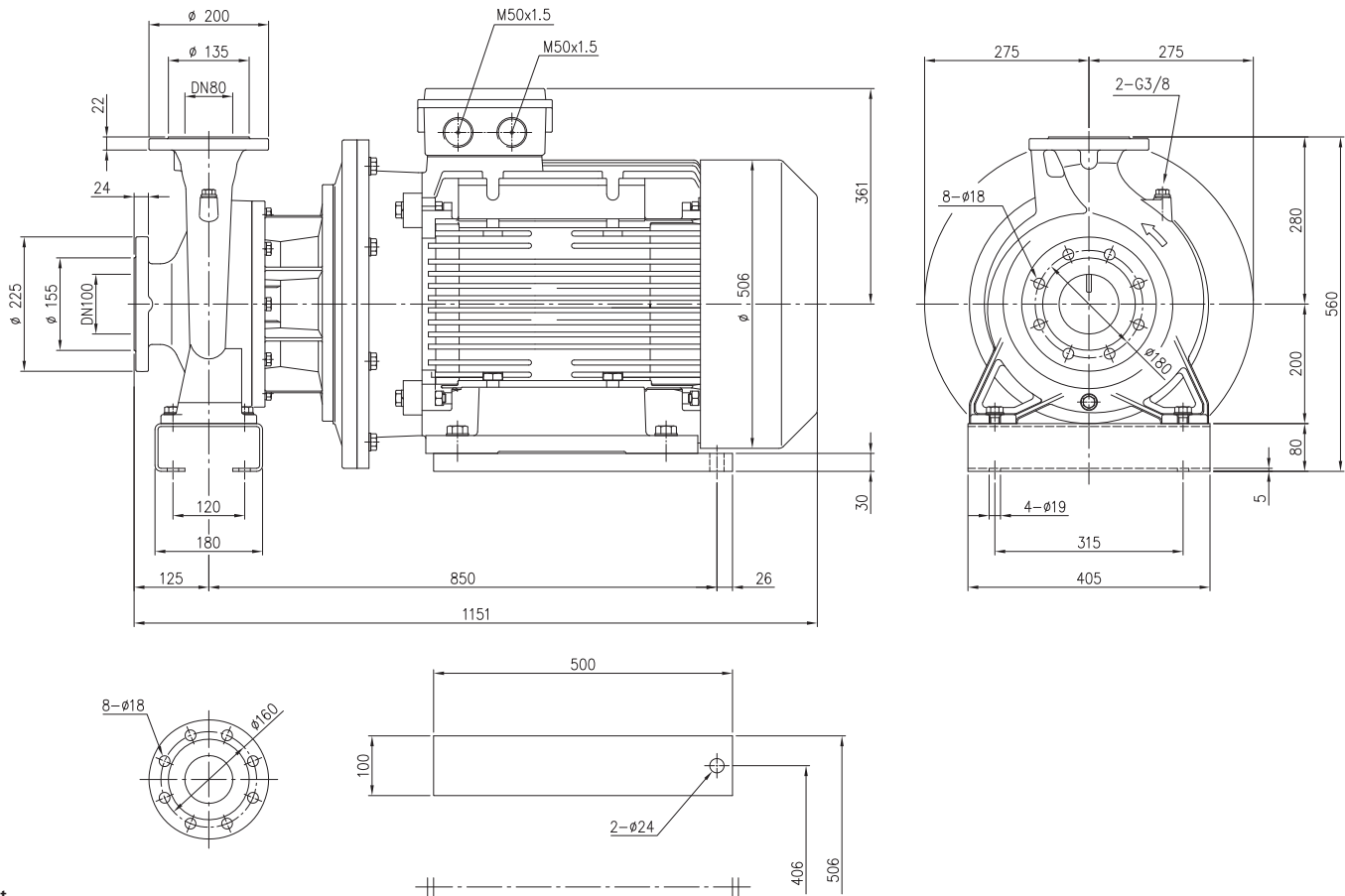
DIMENSIONAL TABLE

Model	Dimensions [mm]																											V1	V2	Weight [kg]
	H	H1	H2	H3	H4	H5	W	N1	N2	M	M1	L	L1	L2	L5	A1	A2	B	C	F1	G	D3	D5	D3	D5	D3	D5			
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	M40x1,5	M40x1,5	M40x1,5	M40x1,5	M40x1,5	306,0
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	M40x1,5	M40x1,5	M40x1,5	M40x1,5	M40x1,5	325,0
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	M50x1,5	M50x1,5	M50x1,5	M50x1,5	M50x1,5	401,0

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

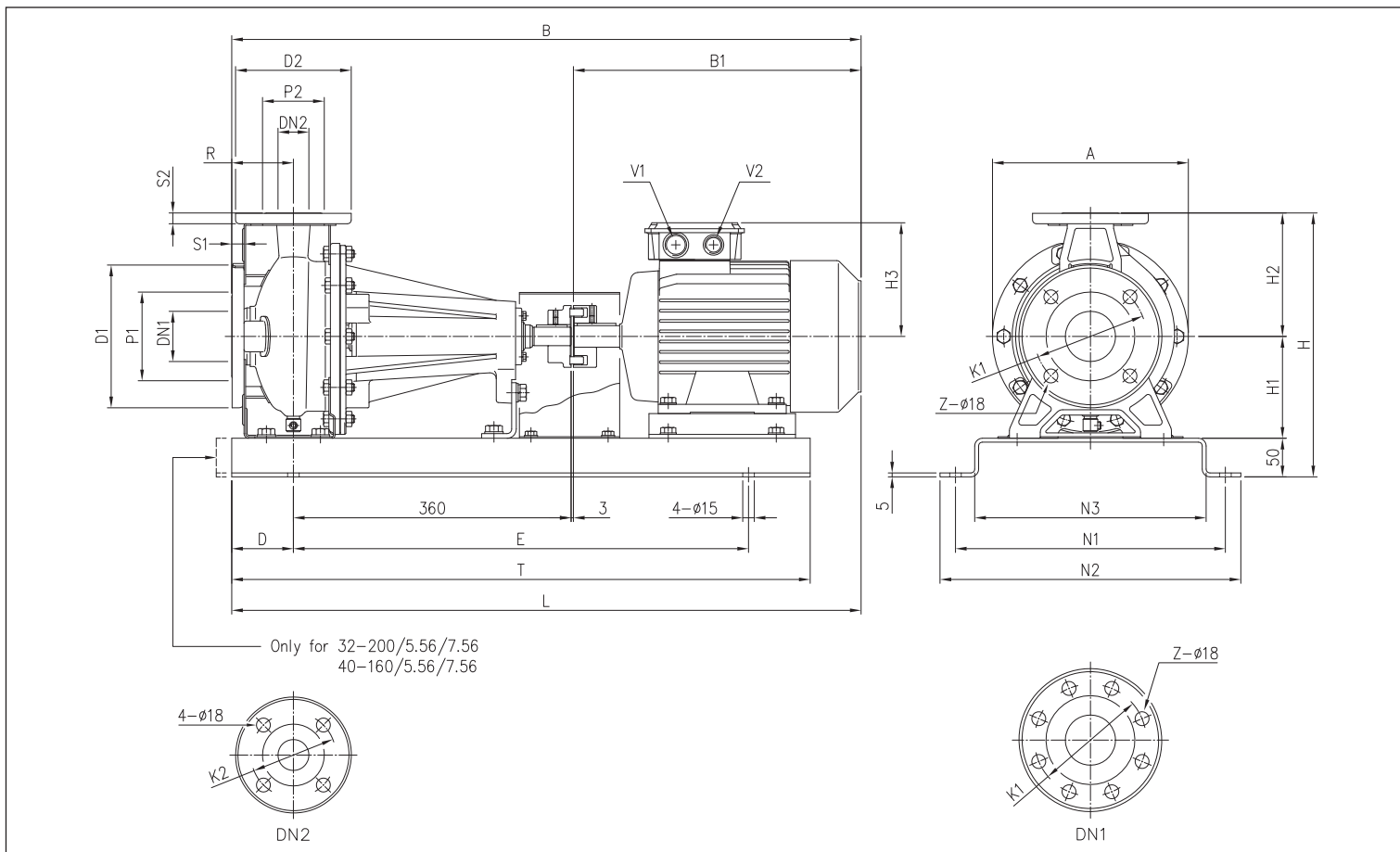
DIMENSIONS 3LS 80-250/556



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

DIMENSIONS 3(L)P 32, 40, 50, 65-125/160/200



DIMENSIONAL TABLE

Model	Dimensions [mm]																												Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	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
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
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
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	97,0
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	110,2
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	80,0
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
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	97,0
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	103,9
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	117,0
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	118,0
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	98,0
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	104,9
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	116,5
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	117,5
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	99,0
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	107,4
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	117,0
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	114,0
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	112,1
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	120,1
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	128,7
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	182,0

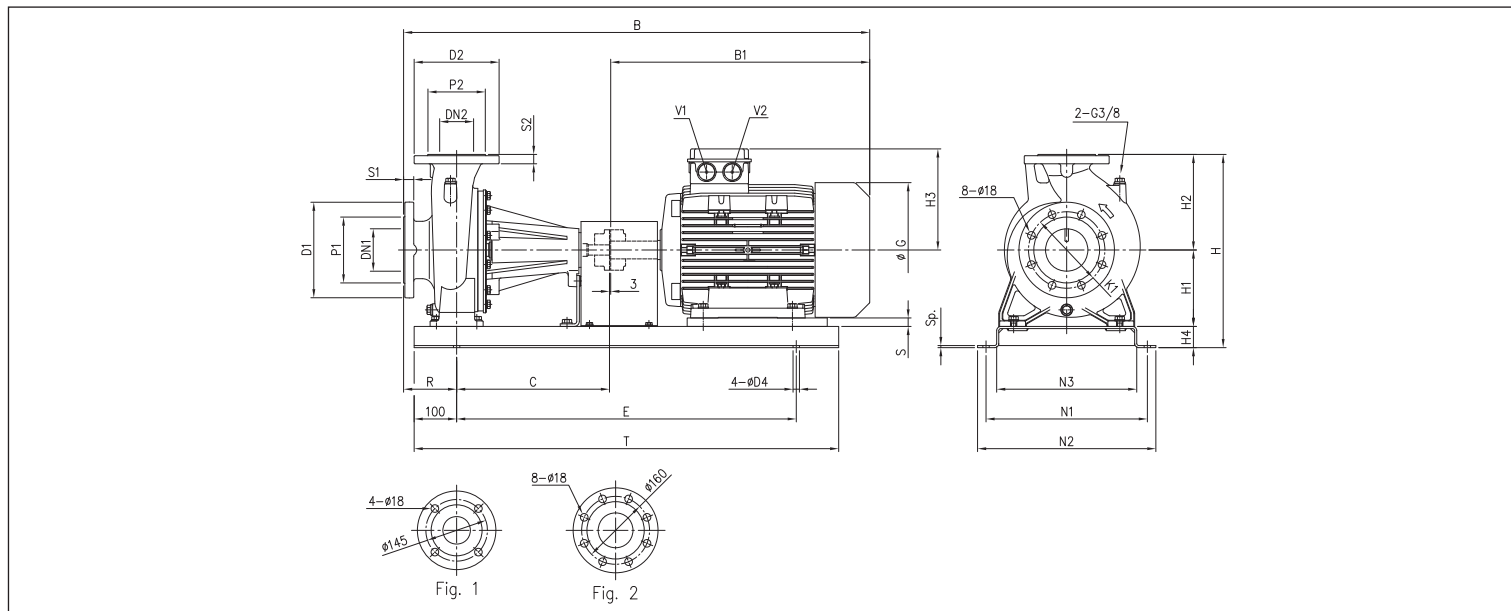
[1] Standard

[2] On request

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

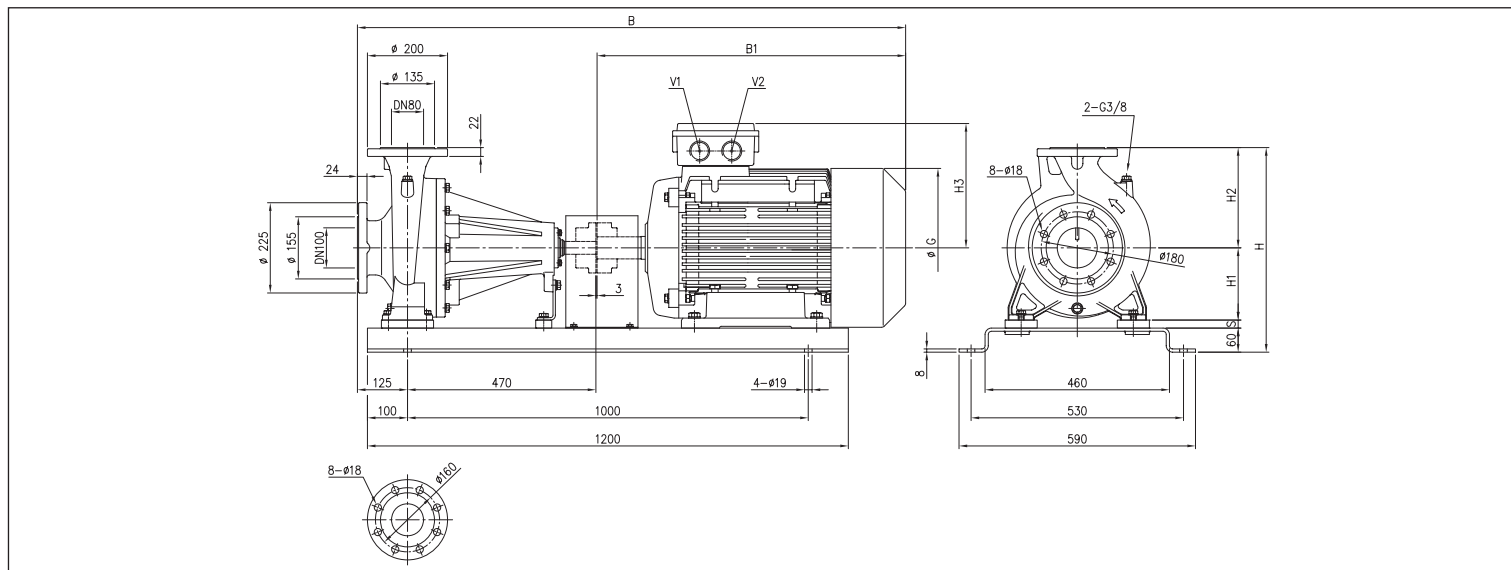
DIMENSIONS 3LP 65-250, 80-160/200



DIMENSIONAL TABLE

Model	Dimensions [mm]																				Weight [kg]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	N1	N2	N3	B	B1	
65-250/306	80	135	160	200	22	65 Fig.1	120	185	20	510	200	250	300	60	100	530	590	460	1341	399	354,0
65-250/376	80	135	160	200	22	65 Fig.1	120	185	20	510	200	250	300	60	100	530	590	460	1341	399	373,0
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	317	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	360	250,0
80-200/226	100	155	180	225	24	80 Fig.2	135	200	22	490	180	250	268	60	125	530	590	460	1285	360	252,0

DIMENSIONS 3LP 80-200/250



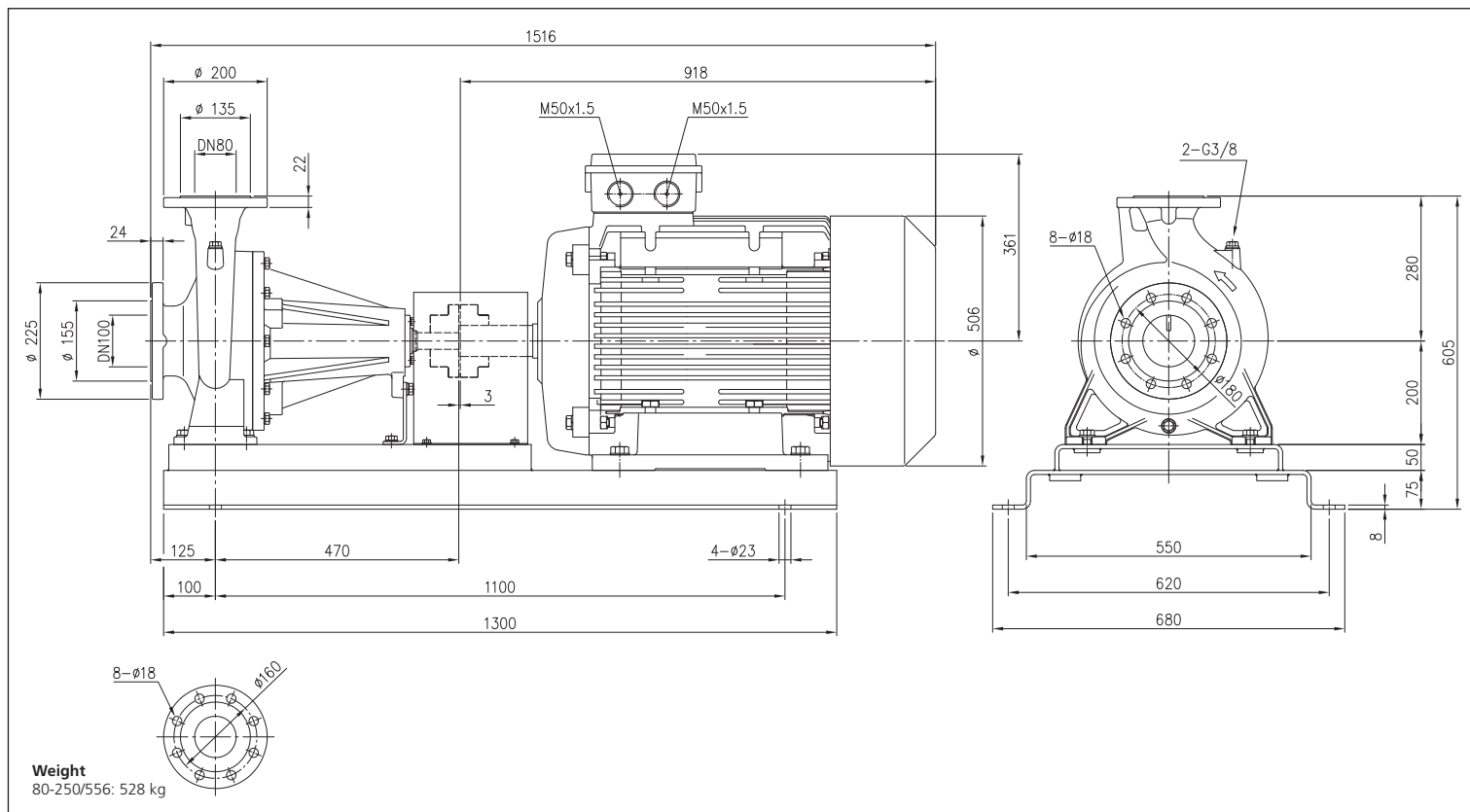
DIMENSIONAL TABLE

Model	Dimensions [mm]						Weight [kg]
	H	H1	H2	H3	B	B1	
80-200/306	510	180	250	300	1366	768	356,0
80-200/376	510	180	250	300	1366	768	365,0
80-250/456	565	200	280	335	1407	809	440,0

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

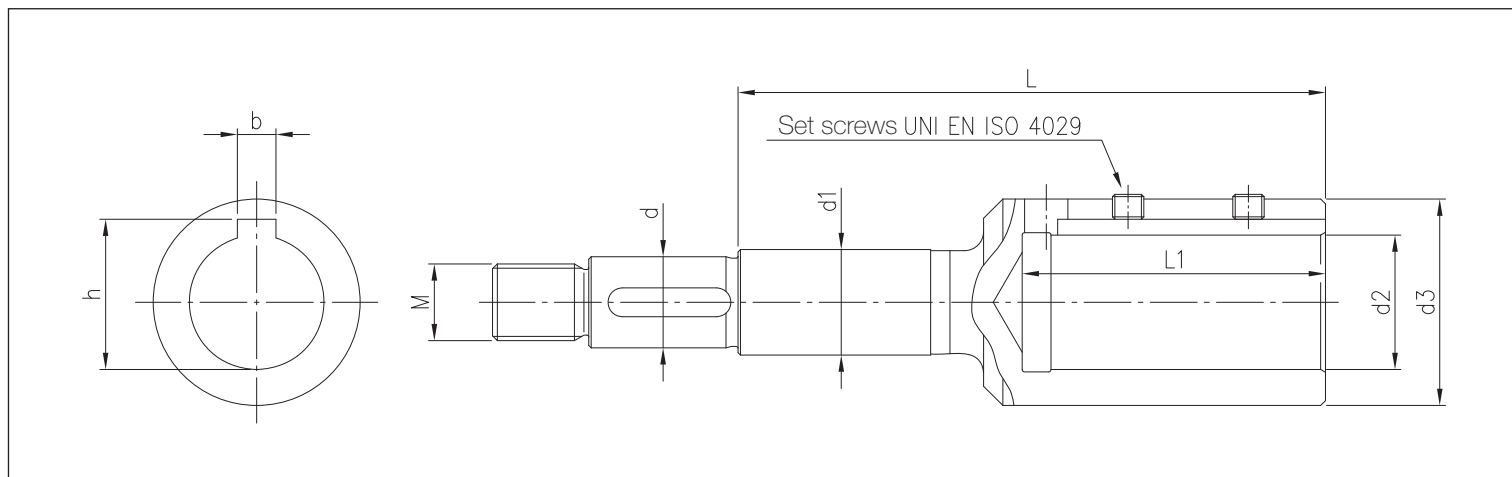
DIMENSIONS 3LP 80-250/556



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

Joint for 3(L)S - 3SF SERIES



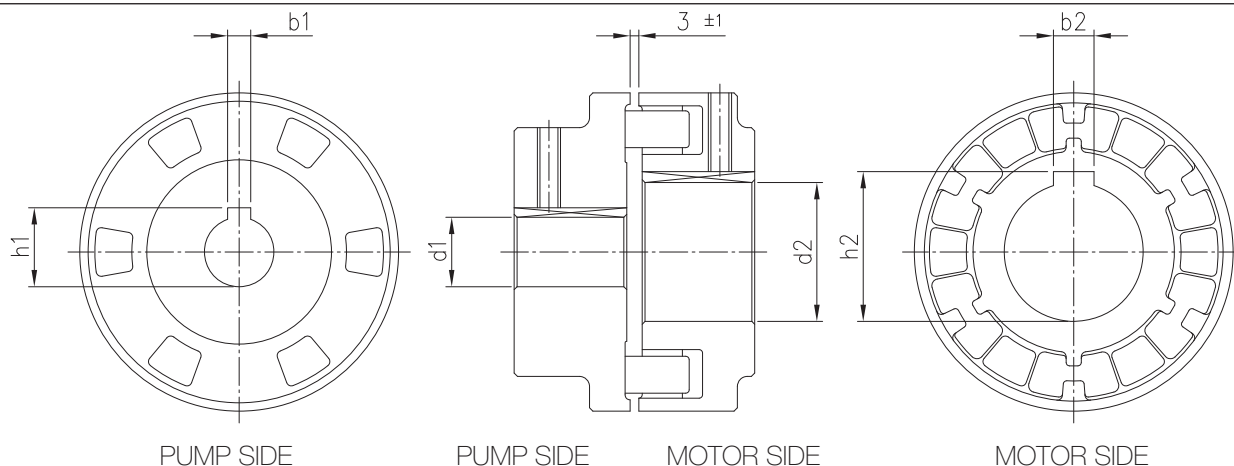
DIMENSIONAL TABLE

Model	[HP]	[kW]	Motor size	d	d1	d2	d3	Dimensions [mm]					Screws
								M	L	L1	b	h	
32-125/2.26	3	2,2	90	19	22	24	39	M16x1,5	110	53	8	27,3	M8x8
32-160/3.06	4	3	100	19	22	28	43	M16x1,5	122	63	8	31,3	M8x8
32-160/4.06	5,5	4	112	19	22	28	43	M16x1,5	122	63	8	31,3	M8x8
32-200/5.56	7,5	5,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
32-200/7.56	10	7,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
40-125/3.06	4	3	100	19	22	28	43	M16x1,5	122	63	8	31,3	M8x8
40-125/4.06	5,5	4	112	19	22	28	43	M16x1,5	122	63	8	31,3	M8x8
40-160/5.56	7,5	5,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
40-160/7.56	10	7,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
40-200/116	15	11	160	19	22	42	63	M16x1,5	178	114	12	45,3	M8x8
40-200/156	20	15	160	19	22	42	63	M16x1,5	178	114	12	45,3	M8x8
50-125/5.56	7,5	5,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
50-125/7.56	10	7,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
50-160/116	15	11	160	19	22	42	63	M16x1,5	178	114	12	45,3	M8x8
50-160/156	20	15	160	19	22	42	63	M16x1,5	178	114	12	45,3	M8x8
65-125/5.56	7,5	5,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
65-125/7.56	10	7,5	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
65-160/9.26	12,5	9,2	132	19	22	38	58	M16x1,5	145	84	10	41,3	M8x8
65-160/116	15	11	160	19	22	42	63	M16x1,5	178	114	12	45,3	M8x8
65-160/156	20	15	160	24	30	42	63	M20x1,5	184	114	12	45,3	M8x8
65-200/156	20	15	160	24	30	42	63	M20x1,5	184	114	12	45,3	M8x8
65-200/18.56	25	18,5	160	24	30	42	63	M20x1,5	184	114	12	45,3	M8x8
65-200/226	30	22	180	24	30	48	72	M20x1,5	184	114	14	51,8	M10x10
65-250/306	40	30	200	24	30	55	85	M20x1,5	184	114	16	59,3	M12x12
65-250/376	50	37	200	24	30	55	85	M20x1,5	184	114	16	59,3	M12x12
80-160/18.56	25	18,5	160	24	30	42	63	M20x1,5	184	114	12	45,3	M8x8
80-160/226	30	22	180	24	30	48	72	M20x1,5	184	114	14	51,8	M10x10
80-200/226	30	22	180	24	30	48	72	M20x1,5	184	114	14	51,8	M10x10
80-200/306	40	30	200	24	30	55	85	M20x1,5	184	114	16	59,3	M12x12
80-200/376	50	37	200	24	30	55	85	M20x1,5	184	114	16	59,3	M12x12
80-250/456	60	45	225	29	35	55	85	M24x2	206	114	16	59,3	M12x12
80-250/556	75	55	250	29	35	60	89	M24x2	218	144	18	64,4	M12x12

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

Joint for 3(L)P SERIES



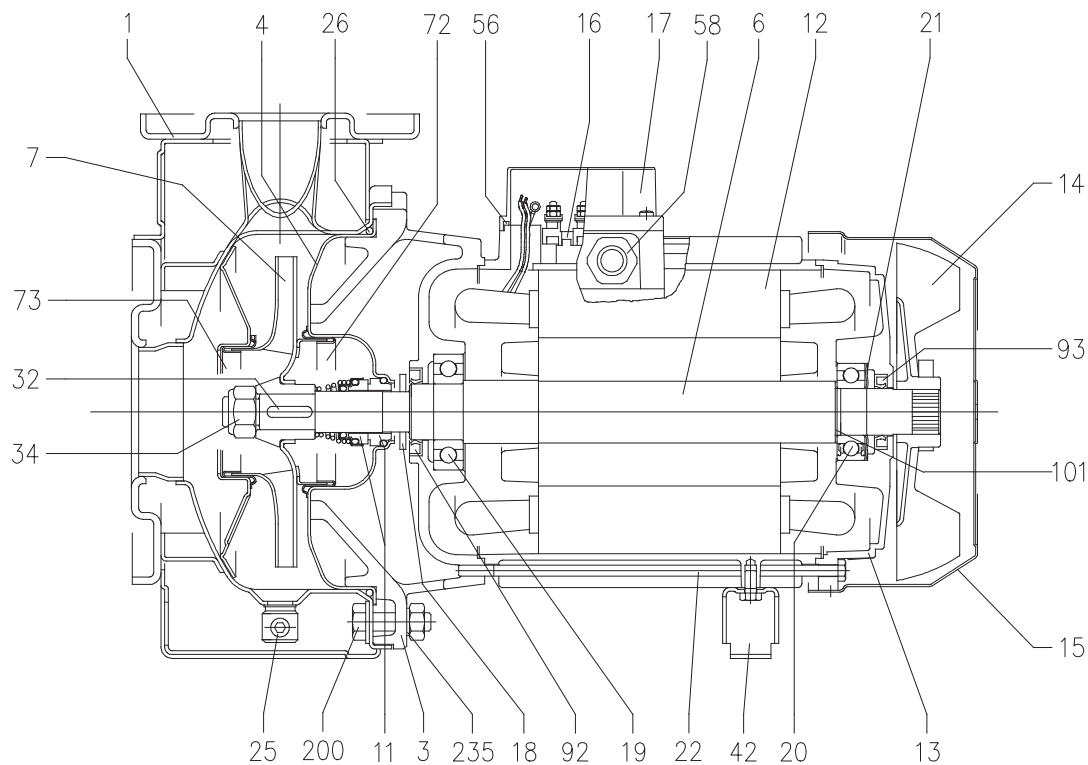
DIMENSIONAL TABLE

Model	[HP]	[kW]	Motor size	Dimensions [mm]					
				d1	b1	h1	d2	b2	h2
32-125/2,26	3	2,2	90	24	8	27,3	24	8	27,3
32-160/3,06	4	3	100	24	8	27,3	28	8	31,3
32-160/4,06	5,5	4	112	24	8	27,3	28	8	31,3
32-200/5,56	7,5	5,5	132	24	8	27,3	38	10	41,3
32-200/7,56	10	7,5	132	24	8	27,3	38	10	41,3
40-125/3,06	4	3	100	24	8	27,3	28	8	31,3
40-125/4,06	5,5	4	112	24	8	27,3	28	8	31,3
40-160/5,56	7,5	5,5	132	24	8	27,3	38	10	41,3
40-160/7,56	10	7,5	132	24	8	27,3	38	10	41,3
40-200/116	15	11	160	24	8	27,3	42	12	45,3
40-200/156	20	15	160	24	8	27,3	42	12	45,3
50-125/5,56	7,5	5,5	132	24	8	27,3	38	10	41,3
50-125/7,56	10	7,5	132	24	8	27,3	38	10	41,3
50-160/116	15	11	160	24	8	27,3	42	12	45,3
50-160/156	20	15	160	24	8	27,3	42	12	45,3
65-125/5,56	7,5	5,5	132	24	8	27,3	38	10	41,3
65-125/7,56	10	7,5	132	24	8	27,3	38	10	41,3
65-160/9,26	12,5	9,2	132	24	8	27,3	38	10	41,3
65-160/116	15	11	160	24	8	27,3	42	12	45,3
65-160/156	20	15	160	24	8	27,3	42	12	45,3
65-200/156	20	15	160	24	8	27,3	42	12	45,3
65-200/18,56	25	18,5	160	24	8	27,3	42	12	45,3
65-200/226	30	22	180	24	8	27,3	48	14	51,8
65-250/306	40	30	200	32	10	35,3	55	16	59,3
65-250/376	50	37	200	32	10	35,3	55	16	59,3
80-160/18,56	25	18,5	160	24	8	27,3	42	12	45,3
80-160/226	30	22	180	24	8	27,3	48	14	51,8
80-200/226	30	22	180	32	10	35,3	48	14	51,8
80-200/306	40	30	200	32	10	35,3	55	16	59,3
80-200/376	50	37	200	32	10	35,3	55	16	59,3
80-250/456	60	45	225	32	10	35,3	55	16	59,3
80-250/556	75	55	250	32	10	35,3	60	18	64,4

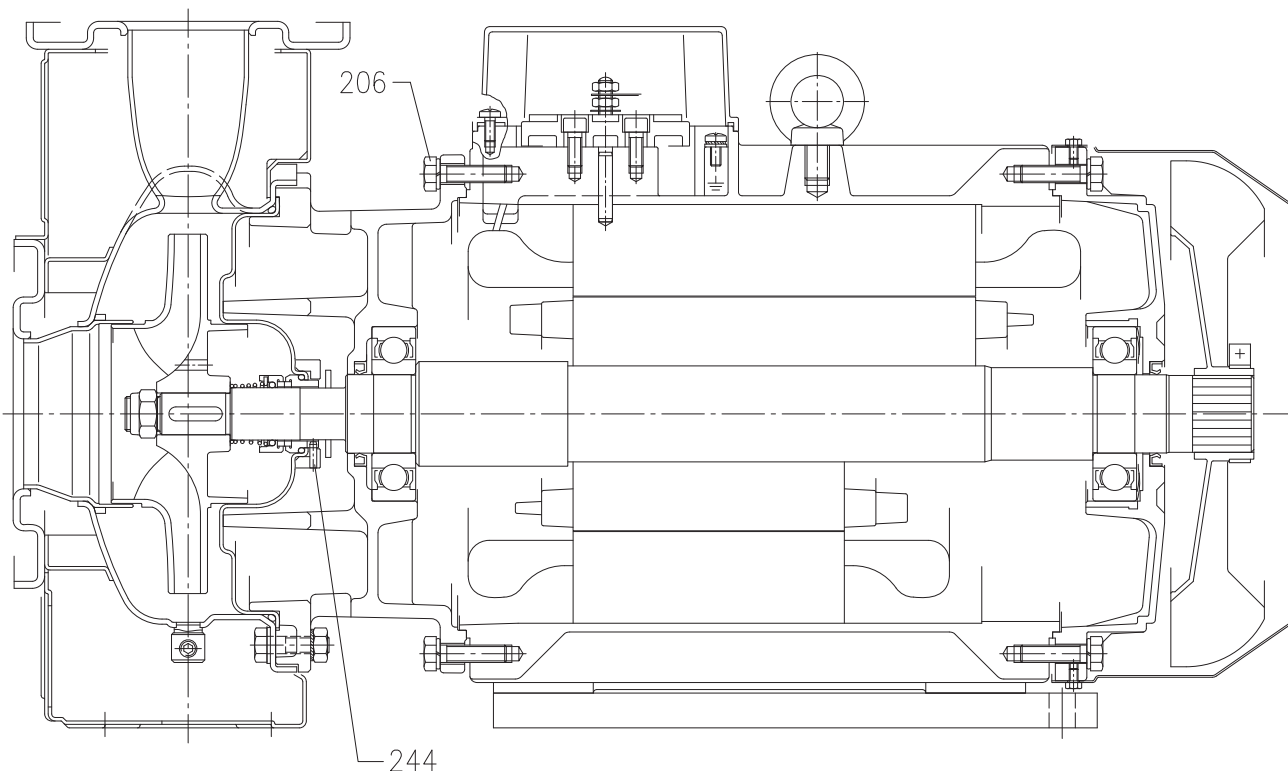
3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

SECTIONAL VIEW 3(L)M SERIES 32, 40, 50, 65 - up to 11 kW



SECTIONAL VIEW 3(L)M 32, 40, 50, 65 SERIES - from 15 kW and over



3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

MATERIALS TABLE

Ref.	Name	Materials	
		3M	3LM
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	[2]	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304) [4]	EN 1.4404 (AISI 316L) [4]
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor frame	-	
013	Motor cover	Aluminium	
014	Fan	PA	
015	Fan cover	Galvanised steel Fe P04	
016	Terminal box	-	
017	Terminal box cover	Aluminium (three phase version)	
018	Spray protector washer	NBR	-
019	Bearing (pump side)	-	-
020	Bearing (motor side)	-	-
021	Adjusting ring	Steel C70	
022	Tie-rod	Galvanised steel Fe 42	
025	Plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR [3]	FPM
032	Key	EN 1.4401 (AISI 316)	
034	Impeller nut	A.270 EN ISO 35062 [5]	
042	Motor support	Aluminium / Galvanised Steel	
056	Terminal box gasket	NBR	
058	Cable gland	-	
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Seal ring	-	-
093	Seal ring	-	-
101	Seeger ring	Carbon steel TC 80	
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
206	Screw (bracket) [6]	Zincate steel 8.8 strenght class ISO 898/1	
235	Washer	EN 1.4301 (AISI 304)	
244	Pin [7]	EN 1.4301 (AISI 304)	

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

[2]= Aluminium EN 1706 AC 46000 D for 40-200/116, 40-200/156, 50-160/116, 50-160/156, 50-200/9.26, 50-200/116, 65-160/9.26, 65-160/116 models, cast iron EN-GJL-200-EN 1561 for other models

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

[4]= EN 1.4401 (AISI 316) for 3(L)M 65

[5]= EN 1.4301 (AISI 304) for 3M 65, EN 1.4404 (AISI 316L) for 3LM 65

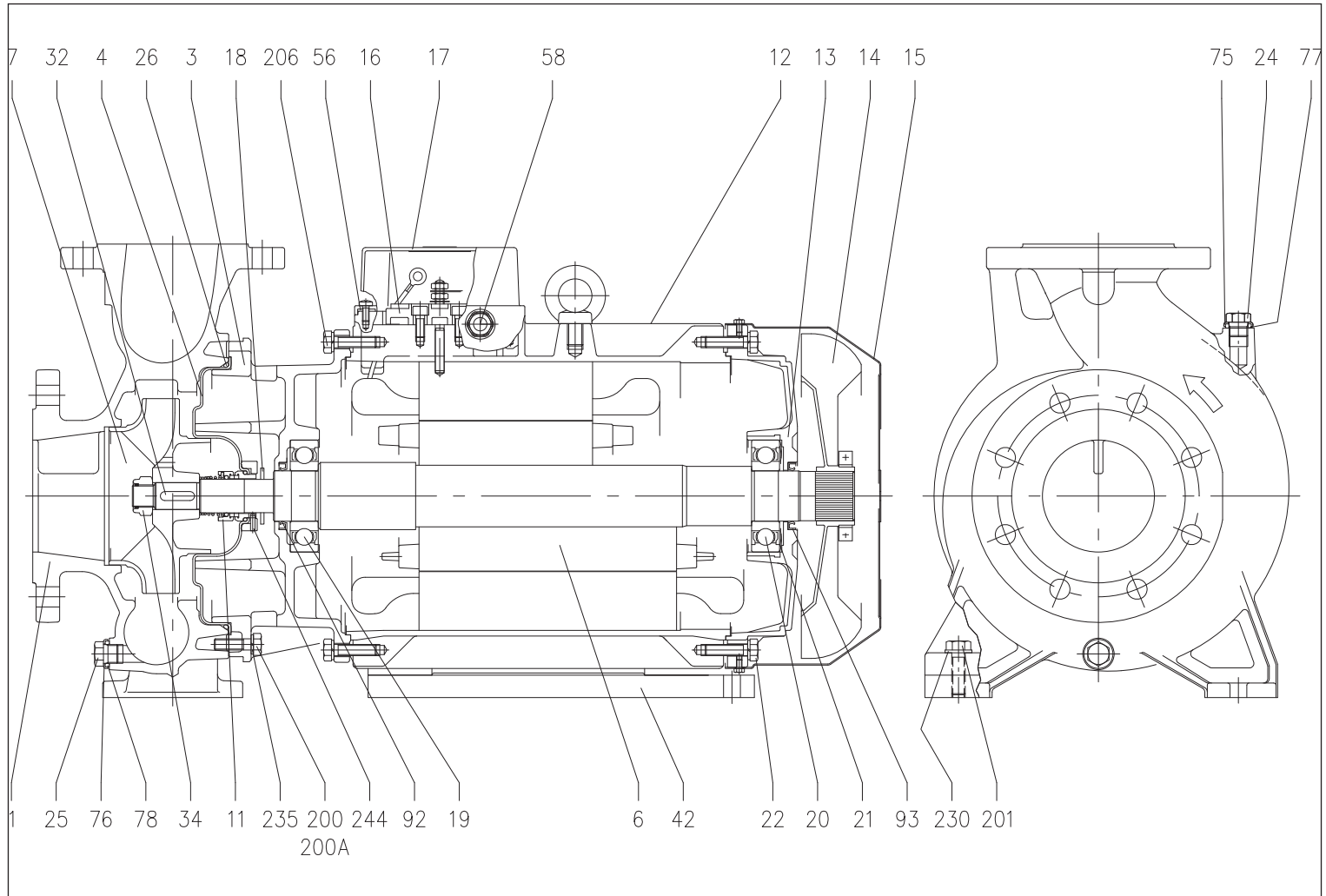
[6]= For 3(L)M 65 from 15kW and above only

[7]= For 3(L)M 65-160/156 and 65-200 only

3 - 3L SERIES

**CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)**

SECTIONAL VIEW 3LM 80-160



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	026	O-Ring	FPM
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	032	Key	EN 1.4401 (AISI 316)
004	Casing cover	EN 1.4404 (AISI 316L)	034	Impeller nut	EN 1.4404 (AISI 316L)
006	Shaft with rotor	EN 1.4404 (AISI 316L) - Part in contact with the liquid	042	Motor support	Aluminium
007	Impeller	EN 1.4401 (AISI 316)	056	Terminal box gasket	NBR
011	Mechanical seal	SiC/SiC/FPM	058	Fasting nut	-
012	Motor frame with stator	-	075	Washer	EN 1.4404 (AISI 316L)
013	Motor cover	Aluminium	076	Washer	EN 1.4404 (AISI 316L)
014	Fan	PA	077	O-Ring	FPM [2]
015	Fan cover	Galvanised steel Fe P04	078	O-Ring	
016	Terminal box	-	092	Seal ring	-
017	Terminal box cover	Aluminium	093	Seal ring	-
018	Spray protector washer	NBR	200	Screw	Stainless steel A2-70 class ISO 3506/1
019	Bearing (pump side)	-	200A	Screw	Stainless steel A2-70 class ISO 3506/1
020	Bearing (motor side)	-	201	Screw	Zincate steel 8.8 strenght class ISO 898/1
021	Adjusting ring	Steel C70	206	Screw for bracket	Zincate steel 8.8 strenght class ISO 898/1
022	Screw	Zn. Steel 8.8 strenght class ISO 898/1	230	Washer	Galvanised Steel
024	Plug	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
025	Plug	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301(AISI 304)

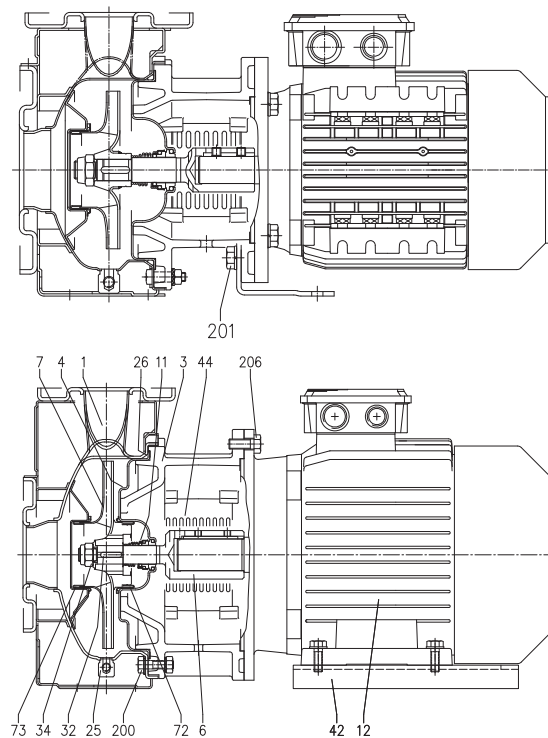
[1]= Not for H, HW, HSW, E version

[2]= EPDM for E version

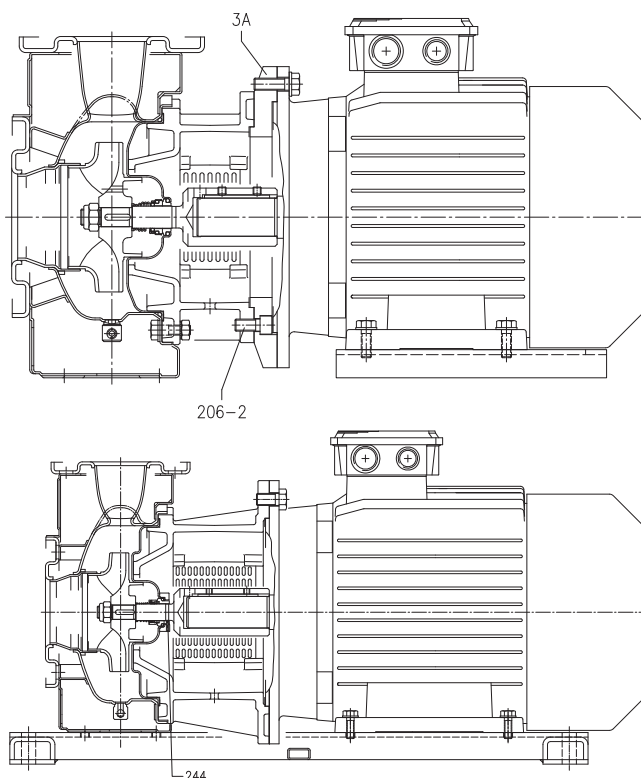
3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

SECTIONAL VIEW 3(L)S 32, 40, 50



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



3 - 3L SERIES

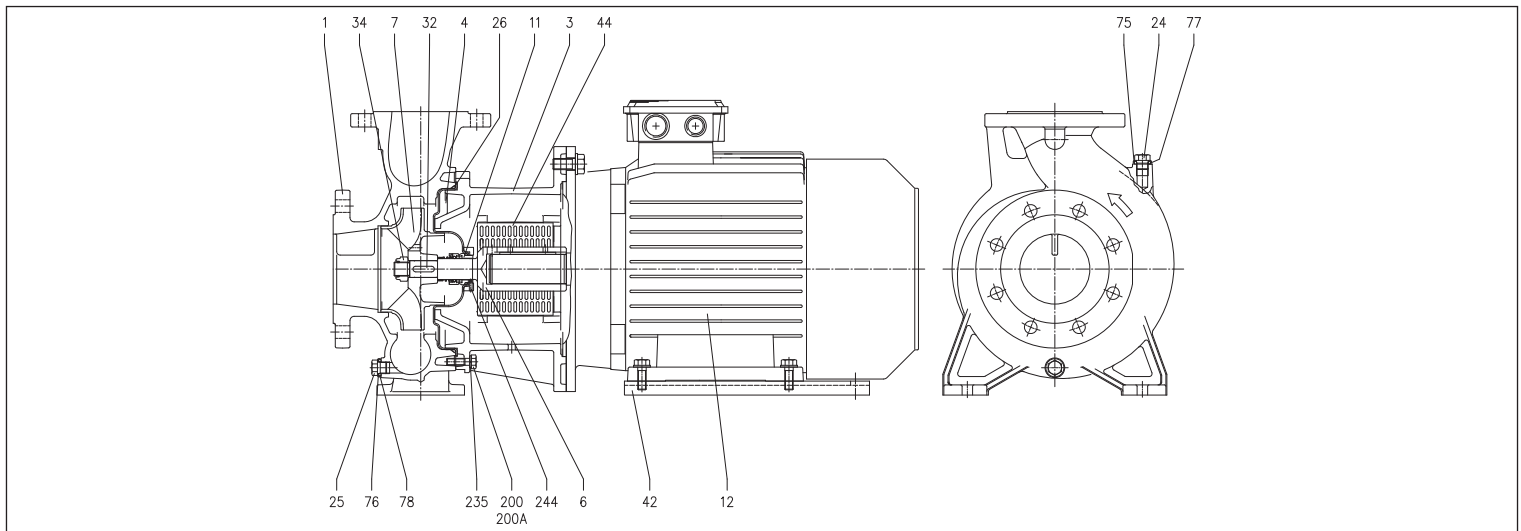
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

MATERIALS TABLE

Ref.	Name	Materials	
		3S	3LS
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Joint - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor	-	
025	Plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR [4]	FPM
032	Key	EN 1.4401 (AISI 316)	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Motor support	Aluminium / Galvanised Steel	
044	Support protection	EN 1.4301 (AISI 304)	
072	Casing ring [2]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring (not for 65)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
201	Screw	Zn. Steel 8.8 strenght class ISO 898/1	
206	Support screw	Zn. Steel 8.8 strenght class ISO 898/1	
206-2	Adapter ring screw [5]	Zn. Steel 8.8 strenght class ISO 898/1	
235	Washer	Stainless steel A2 70 class ISO 3506/1	
244	Plug [3]	-	EN 1.4301 (AISI 304)

- [1]= For 65-125/5.56 and 65-125/7.56 versions only
 [2]= For 32-200, 40-200, 50-160 versions only
 [3]= For 65-160/156, 65-200 versions only
 [4]= FPM for H, HS, HW, HSW versions and EPDM for E version
 [5]= For 65-125/5.56 and 65-125/7.56 versions only

SECTIONAL VIEW 3LS 80-160



MATERIALS TABLE

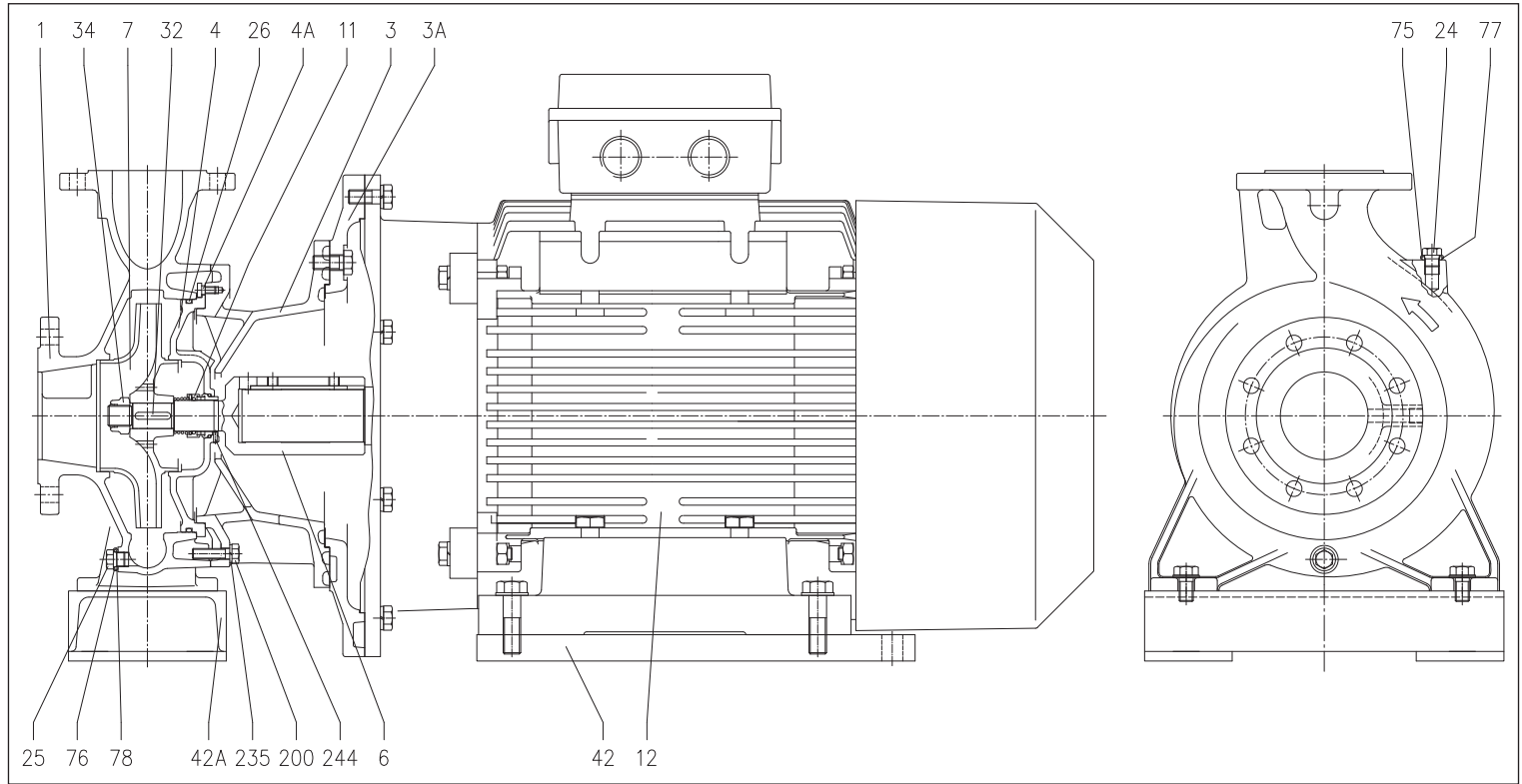
Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042	Motor support	Aluminium
004	Casing cover	EN 1.4404 (AISI 316L)	044	Protection	EN 1.4301 (AISI 304)
006	Joint	EN 1.4404 (AISI 316L)	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	076	Washer	
011	Mechanical seal	SiC/SiC/FPM	077	O-Ring	
012	Motor	-	078	O-Ring	FPM [2]
024	Plug	EN 1.4404 (AISI 316L)	200	Screw	Stainless steel A2-70 class ISO 3506/1
025	Plug	EN 1.4404 (AISI 316L)	200A	Screw	Stainless steel A2-70 class ISO 3506/1
026	O-Ring	FPM [2]	235	Washer	EN 1.4301 (AISI 304)
032	Key	EN 1.4401 (AISI 316)	244	Plug [1]	EN 1.4301 (AISI 304)

- [1]= Not for H, HW, HSW, E version [2]= EPDM for E version

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

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



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	032	Key	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm EN 1.4401 (AISI 316)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561			
003A	Adapter ring	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm EN 1.4404 (AISI 316L)
004	Casing cover	EN 1.4401 (AISI 316)			
004A	Screw for casing cover	EN 1.4301(AISI 304)	042	Motor bracket	Aluminium
006	Joint	65-250 d=24 mm EN 1.4404 (AISI 316L) for 22 kW EN 1.4462 (Duplex stainless steel) for 30-37 kW	042A	Pump bracket	Aluminium/zincate steel (only for 80-250/55)
		80-200 d=24 mm EN 1.4404 (AISI 316L) for 22 kW EN 1.4462 (Duplex stainless steel) for 30-37 kW			EN 1.4404 (AISI 316L)
		80-250 d=29 mm EN 1.4462 (Duplex stainless steel)			
007	Impeller	EN 1.4401 (AISI 316)	075	Washer (plug)	FPM [2]
011	Mechanical seal	SiC/SiC/FPM	076	Washer (plug)	
012	Motor	-	077	O-Ring (plug)	
024	Plug	EN 1.4404 (AISI 316L)	078	O-Ring (plug)	Stainless steel A2-70 class ISO 3506/1 C70
025	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	
026	O-Ring	FPM [2]	235	Washer	
			244	Plug [1]	EN 1.4301(AISI 304)

[1]= Not for H, HW, HSW, E version

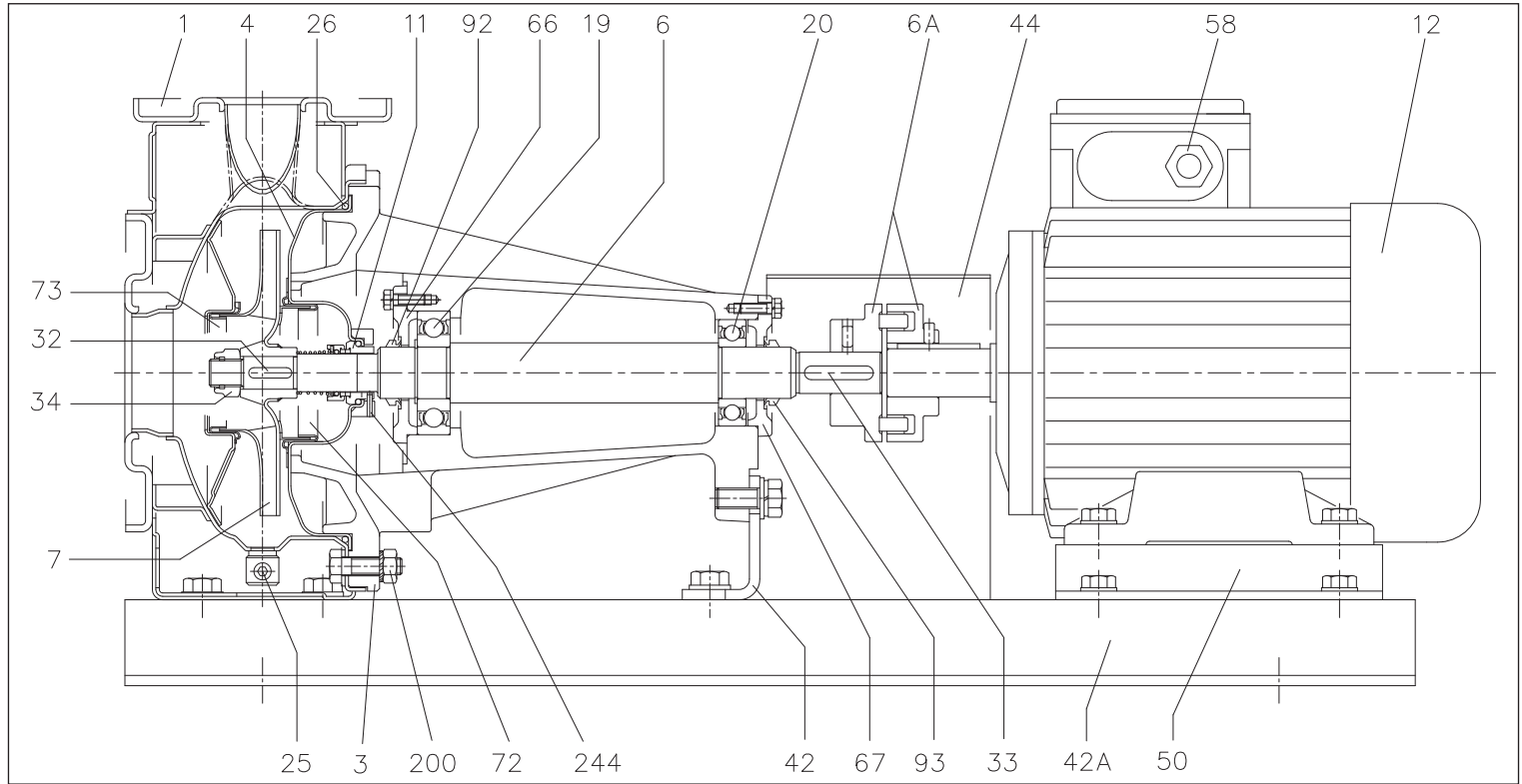
[2]= EPDM for E version

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3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

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



MATERIALS TABLE

Ref.	Name	Materials	
		3P	3LP
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor	-	
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
025	Plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR [3]	FPM
032	Key	EN 1.4401 (AISI 316)	
033	Key	C 40	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Motor support	Fe 37 galvanised steel	
042A	Base	Fe 37 galvanised steel	
044	Joint cover	Fe 37 galvanised steel	
050	Motor support	Aluminium / Galvanised Steel	
058	Cable gland	-	
066	Impeller side bearing cover	Cast iron EN-GJL-250-EN 1561	
067	Motor side bearing cover	Cast iron EN-GJL-250-EN 1561	
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring (not for 65 version)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	V ring	-	
093	V ring	-	
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
244	Plug [2]	-	EN 1.4301 (AISI 304)

[1]= For 32-200/5.56, 40-200/116, 50-200/116, 50-200/156 versions only

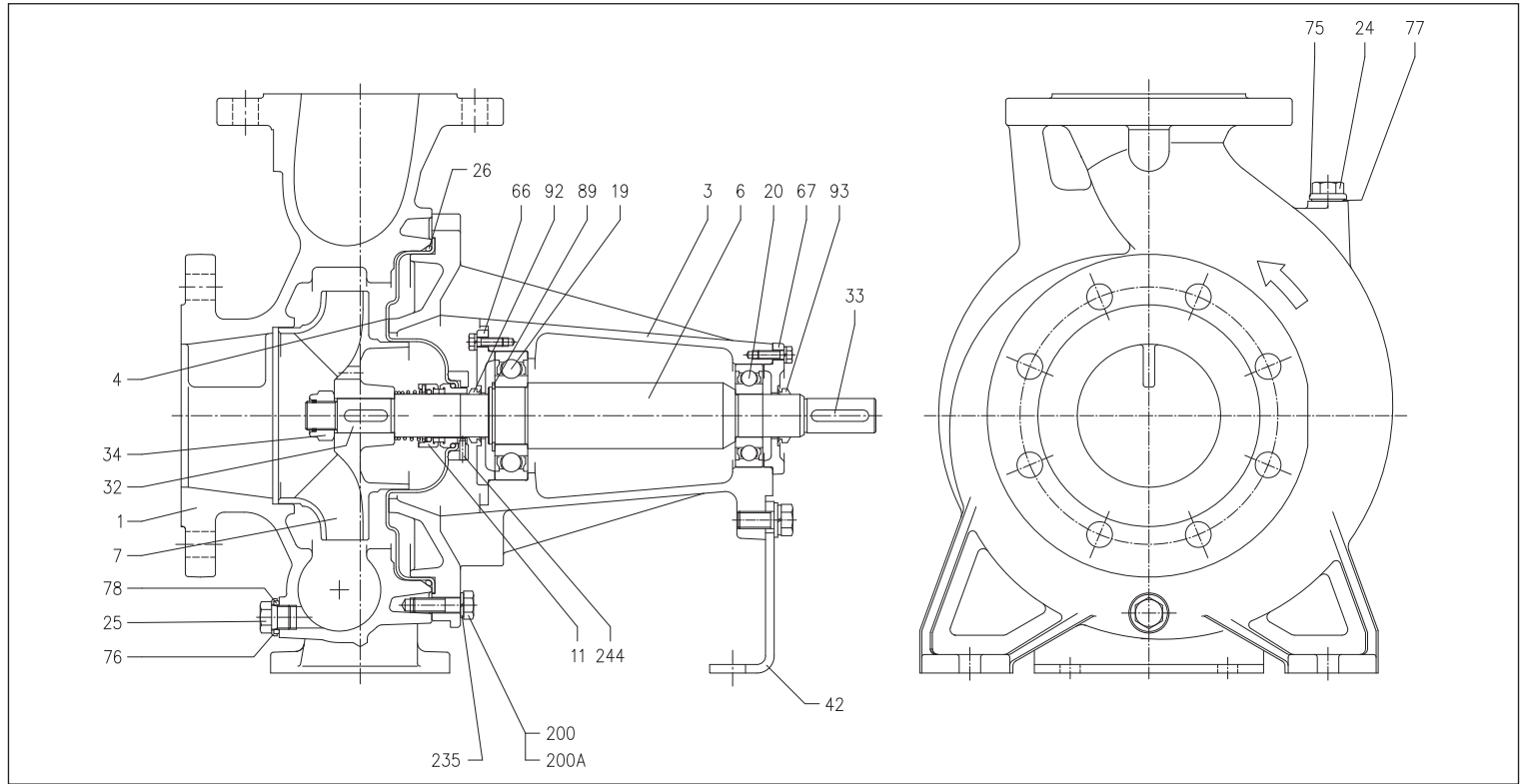
[2]= For 65-160/156 and 65-200 versions only

[3]= FPM for H, HS, HW, HSW versions and EPDM for E version

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

SECTIONAL VIEW 3LP 80-160



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	050	Foot	Aluminium
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	050A	Pump spacer	-
004	Casing cover	EN 1.4404 (AISI 316L)	050B	Pump spacer	-
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	050C	Spacer for protection	-
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	066	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	067	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	SiC/SiC/FPM	075	Washer	EN 1.4404 (AISI 316L)
012	Motor	-	076	Washer	
019	Bearing (pump side)	-	077	O-Ring	FPM [2]
020	Bearing (motor side)	-	078	O-Ring	
024	Plug	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon tool steels TC 80
025	Plug	EN 1.4404 (AISI 316L)	092	"V" ring	
026	O-Ring	FPM [2]	093	"V" ring	-
032	Key	EN 1.4401 (AISI 316)	200	Screw	
033	Key	C 40	200A	Screw	Stainless steel A2 70 class ISO 3506/1
034	Impeller nut	EN 1.4404 (AISI 316L)	235	Washer	
042	Motor support	Galvanised Steel	244	Plug [1]	EN 1.4301(AISI 304)
042A	Base	Galvanised Steel			
044	Joint cover	Galvanised Steel			

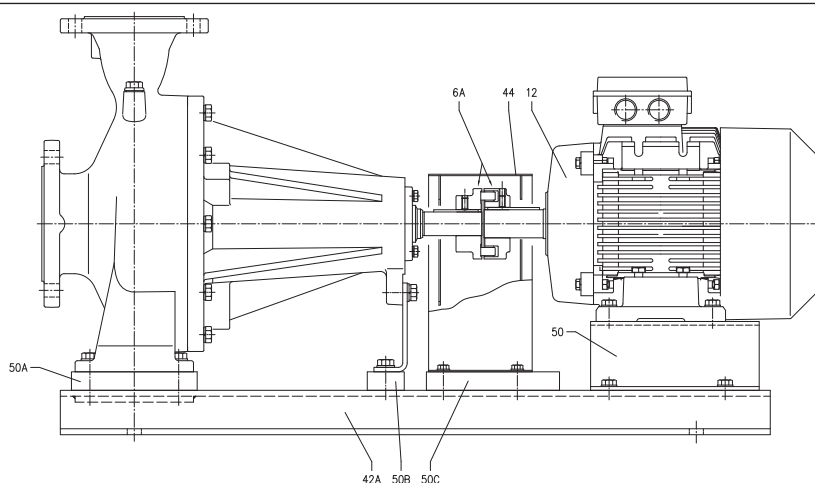
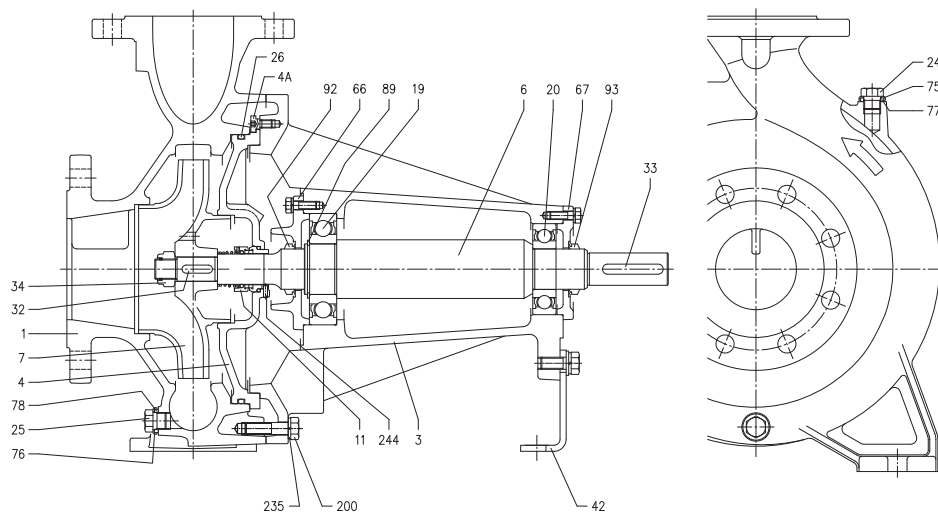
[1]= Not for H, HW, HSW, E version
[2]= EPDM for E version

The contents of this publication must not be regarded as binding. EBARA Pumps Europe S.p.A. reserves the right to effect any modification it deems necessary without prior notice.

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

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



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042	Motor support	Galvanised Steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised Steel
004	Casing cover	EN 1.4401 (AISI 316)	044	Joint cover	Galvanised Steel
004A	Screw for casing cover	EN 1.4301 (AISI 304)	050	Motor support	Aluminium
006	Shaft - Part in contact with the liquid	EN 1.4462 (Duplex stainless steel)	050A	Pump spacer	Aluminium
006A	Flexible coupling	Cast iron EN-GJL-200-EN 1561	050B	Pump spacer	Aluminium
007	Impeller	EN 1.4401 (AISI 316)	050C	Joint cover spacer	Aluminium
011	Mechanical seal	SiC/SiC/FPM	066	Impeller side bearing cover	Cast iron EN-GJL-200-EN 1561
012	Motor	-	067	Motor side bearing cover	Cast iron EN-GJL-200-EN 1561
019	Bearing (pump side)	-	075	Washer	EN 1.4404 (AISI 316L)
020	Bearing (motor side)	-	076	Washer	EN 1.4404 (AISI 316L)
024	Plug	EN 1.4404 (AISI 316L)	077	O-Ring	FPM [2]
025	Plug	EN 1.4404 (AISI 316L)	078	O-Ring	FPM [2]
026	O-Ring	FPM [2]	089	Seeger ring	Carbon tool steels TC 80
032	Key	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	092	"V" ring	-
033	Key	C 40	093	"V" ring	-
034	Impeller nut	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
			235	Washer	EN 1.4301 (AISI 304)
			244	Plug [1]	EN 1.4301 (AISI 304)

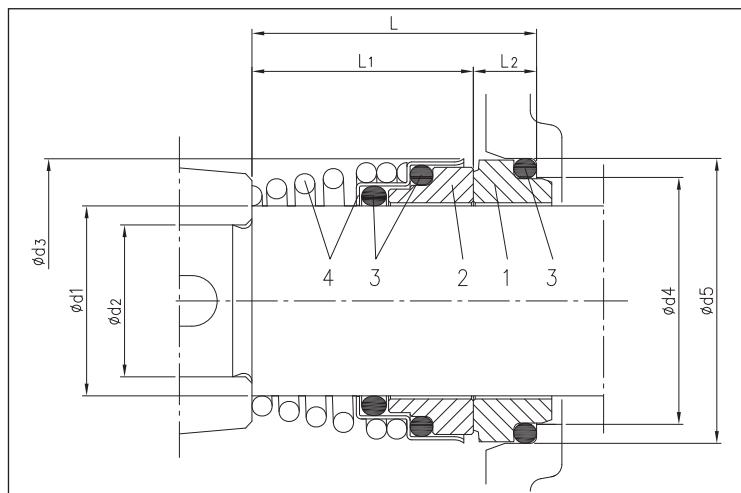
[1]= Not for H, HW, HSW, E version

[2]= EPDM for E version

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

MECHANICAL SEAL standard version



MATERIALS TABLE

Ref.	Name	Materials	
		3 SERIES	3L SERIES
1	Fixed part	Carbon	SiC
2	Rotating part	Ceramic	SiC
3	Gasket	NBR	FPM
4	Frame + spring	EN 1.4401 (AISI 316)	EN 1.4571 (AISI 316Ti)

SPECIAL MECHANICAL SEALS 3 SERIES (on request)

Name	H version	HS version	Materials HW version	HSW version	E version
Fixed part	Carbon	SiC	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating part	Ceramic	SiC	Tungsten Carbide	SiC	Ceramic
Elastomers	FPM	FPM	FPM	FPM	EPDM
Spring	AISI 316	AISI 316Ti	AISI 316	AISI 316	AISI 316Ti
Structure/Frame	AISI 316	AISI 316Ti	AISI 316	AISI 316	AISI 316Ti

SPECIAL MECHANICAL SEALS 3 SERIESL (on request)

Name	H version	HW version	Materials HSW version	E version*	ES version**
Fixed part	Carbon	Tungsten Carbide	Tungsten Carbide	Carbon	Carbon
Rotating part	Ceramic	Tungsten Carbide	SiC	Ceramic	SiC
Elastomers	FPM	FPM	FPM	EPDM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316Ti	AISI 316Ti
Structure/Frame	AISI 316	AISI 316	AISI 316	AISI 316Ti	AISI 316Ti

* Not available for 3L SERIES 80-250

** Available only for 3L SERIES 80-250

3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

ELECTRIC DATA TABLE 3(L)M SERIES

Model Three phase	P ₂		P ₁	Absorbed Current [A]			
	[HP]	[kW]	Three phase [kW]	220V	Three phase 380V	460V	660V
3(L)M 32-125/2.26	3,0	2,2	2,9	7,0	4,1	4,1	-
3(L)M 32-160/3.06	4,0	3,0	3,9	10,5	6,1	5,6	-
3(L)M 32-160/4.06	5,5	4,0	5,1	14,7	8,5	8,0	-
3(L)M 32-200/5.56	7,5	5,5	7,0	-	11,6	9,5	6,7
3(L)M 32-200/7.56	10,0	7,5	9,4	-	14,9	12,7	8,6
3(L)M 40-125/3.06	4,0	3,0	3,9	10,5	6,1	5,6	-
3(L)M 40-125/4.06	5,5	4,0	5,1	14,7	8,5	8,0	-
3(L)M 40-160/5.56	7,5	5,5	7,0	-	11,6	9,5	6,7
3(L)M 40-160/7.56	10,0	7,5	9,4	-	14,9	12,7	8,6
3(L)M 40-200/116	15,0	11,0	11,3	-	17,7	15,4	10,3
3(L)M 40-200/156	20,0	15,0	17,9	-	28,7	25,0	16,6
3(L)M 50-125/5.56	7,5	5,5	7,0	-	11,6	9,5	6,7
3(L)M 50-125/7.56	10,0	7,5	9,4	-	14,9	12,7	8,6
3(L)M 50-160/116	15,0	11,0	11,3	-	17,7	15,4	10,3
3(L)M 50-160/156	20,0	15,0	17,9	-	28,7	25,0	16,6
3(L)M 65-125/5.56	7,5	5,5	7,0	-	11,6	9,5	6,7
3(L)M 65-125/7.56	10,0	7,5	9,4	-	14,9	12,7	8,6
3(L)M 65-160/9.26	13,0	9,2	11,3	-	17,7	15,4	10,3
3(L)M 65-160/116	15,0	11,0	13,2	-	18,3	18,3	10,5
3(L)M 65-160/156	20,0	15,0	17,9	-	28,7	25,0	16,6
3(L)M 65-200/156	20,0	15,0	17,9	-	28,7	25,0	16,6
3(L)M 65-200/18.56	25,0	18,5	21,9	-	34,8	31,0	20,1
3(L)M 65-200/226	30,0	22,0	26,4	-	41,7	36,4	24,0
3LM 80-160/18.56	25,0	18,5	21,9	-	34,8	31,0	20,1
3LM 80-160/226	30,0	22,0	26,4	-	41,7	36,4	24,0

ELECTRIC DATA TABLE 3(L)S - 3(L)P SERIES

Model		P ₂		P ₁	Absorbed Current [A]	
Three phase	Three phase	[HP]	[kW]	[kW]	Three phase 265V	460V
3(L)S 32-125/2.26	3(L)P 32-125/2.26	3	2,2	2,65	7,1	4,1
3(L)S 32-160/3.06	3(L)P 32-160/3.06	4	3	3,56	9,0	5,2
3(L)S 32-160/4.06	3(L)P 32-160/4.06	5,5	4	4,70	12,3	7,1
3(L)S 32-200/5.56	3(L)P 32-200/5.56	7,5	5,5	6,22	-	9,3
3(L)S 32-200/7.56	3(L)P 32-200/7.56	10	7,5	8,36	-	12,2
3(L)S 40-125/3.06	3(L)P 40-125/3.06	4	3	3,56	9,0	5,2
3(L)S 40-125/4.06	3(L)P 40-125/4.06	5,5	4	4,70	12,3	7,1
3(L)S 40-160/5.56	3(L)P 40-160/5.56	7,5	5,5	6,22	-	9,3
3(L)S 40-160/7.56	3(L)P 40-160/7.56	10	7,5	8,36	-	12,2
3(L)S 40-200/116	3(L)P 40-200/116	15	11	12,15	-	18,6
3(L)S 40-200/156	3(L)P 40-200/156	20	15	16,71	-	23,3
3(L)S 50-125/5.56	3(L)P 50-125/5.56	7,5	5,5	6,22	-	9,3
3(L)S 50-125/7.56	3(L)P 50-125/7.56	10	7,5	8,36	-	12,2
3(L)S 50-160/116	3(L)P 50-160/116	15	11	12,15	-	18,6
3(L)S 50-160/156	3(L)P 50-160/156	20	15	16,71	-	23,3
3(L)S 65-125/5.56	3(L)P 65-125/5.56	7,5	5,5	6,22	-	9,3
3(L)S 65-125/7.56	3(L)P 65-125/7.56	10	7,5	8,36	-	12,2
3(L)S 65-160/9.26	3(L)P 65-160/9.26	12,5	9,2	10,40	-	14,5
3(L)S 65-160/116	3(L)P 65-160/116	15	11	12,15	-	18,6
3(L)S 65-160/156	3(L)P 65-160/156	20	15	16,71	-	23,3
3(L)S 65-200/156	3(L)P 65-200/156	20	15	16,71	-	23,3
3(L)S 65-200/18.56	3(L)P 65-200/18.56	25	18,5	20,32	-	31,1
3(L)S 65-200/226	3(L)P 65-200/226	30	22	24,11	-	34,0
3LS 65-250/306	3LP 65-250/306	40	30	32,58	-	47,0
3LS 65-250/376	3LP 65-250/376	50	37	40,16	-	56,0
3LS 80-160/18.56	3LP 80-160/18.56	25	18,5	20,32	-	31,1
3LS 80-160/226	3LP 80-160/226	30	22	24,11	-	34,0
3LS 80-200/226	3LP 80-200/226	30	22	24,11	-	34,0
3LS 80-200/306	3LP 80-200/306	40	30	32,58	-	47,0
3LS 80-200/376	3LP 80-200/376	50	37	40,16	-	56,0
3LS 80-250/456	3LP 80-250/456	60	45	48,22	-	68,0
3LS 80-250/556	3LP 80-250/556	75	55	58,50	-	82,5

3 - 3L SERIES

**CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)**

NOISE DATA TABLES

Model Three phase	P ₂		L _{pA} - dB(A)*
	[HP]	[kW]	
3(L)M 32-125/2.26	3,0	2,2	72
3(L)M 32-160/3.06	4,0	3,0	76
3(L)M 32-160/4.06	5,5	4,0	76
3(L)M 32-200/5.56	7,5	5,5	80
3(L)M 32-200/7.56	10,0	7,5	80
3(L)M 40-125/3.06	4,0	3,0	76
3(L)M 40-125/4.06	5,5	4,0	76
3(L)M 40-160/5.56	7,5	5,5	80
3(L)M 40-160/7.56	10,0	7,5	80
3(L)M 40-200/116	15,0	11,0	85
3(L)M 40-200/156	20,0	15,0	85
3(L)M 50-125/5.56	7,5	5,5	80
3(L)M 50-125/7.56	10,0	7,5	80
3(L)M 50-160/116	15,0	11,0	85
3(L)M 50-160/156	20,0	15,0	85
3(L)M 65-125/5.56	7,5	5,5	80
3(L)M 65-125/7.56	10,0	7,5	80
3(L)M 65-160/9.26	13,0	9,2	85
3(L)M 65-160/116	15,0	11,0	85
3(L)M 65-160/156	20,0	15,0	88
3(L)M 65-200/156	20,0	15,0	88
3(L)M 65-200/18.56	25,0	18,5	88
3(L)M 65-200/226	30,0	22,0	88
3LM 80-160/18.56	25,0	18,5	88
3LM 80-160/226	30,0	22,0	88

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

Model		P ₂		L _{pA} - dB(A)*
Three phase	Three phase	[HP]	[kW]	
3(L)S 32-125/2.26	3(LP) 32-125/2.26	3	2,2	70
3(L)S 32-160/3.06	3(LP) 32-160/3.06	4	3	74
3(L)S 32-160/4.06	3(LP) 32-160/4.06	5,5	4	78
3(L)S 32-200/5.56	3(LP) 32-200/5.56	7,5	5,5	82
3(L)S 32-200/7.56	3(LP) 32-200/7.56	10	7,5	82
3(L)S 40-125/3.06	3(LP) 40-125/3.06	4	3	74
3(L)S 40-125/4.06	3(LP) 40-125/4.06	5,5	4	78
3(L)S 40-160/5.56	3(LP) 40-160/5.56	7,5	5,5	82
3(L)S 40-160/7.56	3(LP) 40-160/7.56	10	7,5	82
3(L)S 40-200/116	3(LP) 40-200/116	15	11	84
3(L)S 40-200/156	3(LP) 40-200/156	20	15	84
3(L)S 50-125/5.56	3(LP) 50-125/5.56	7,5	5,5	82
3(L)S 50-125/7.56	3(LP) 50-125/7.56	10	7,5	82
3(L)S 50-160/116	3(LP) 50-160/116	15	11	84
3(L)S 50-160/156	3(LP) 50-160/156	20	15	84
3(L)S 65-125/5.56	3(LP) 65-125/5.56	7,5	5,5	82
3(L)S 65-125/7.56	3(LP) 65-125/7.56	10	7,5	82
3(L)S 65-160/9.26	3(LP) 65-160/9.26	12,5	9,2	85
3(L)S 65-160/116	3(LP) 65-160/116	15	11	85
3(L)S 65-160/156	3(LP) 65-160/156	20	15	85
3(L)S 65-200/156	3(LP) 65-200/156	20	15	85
3(L)S 65-200/18.56	3(LP) 65-200/18.56	25	18,5	85
3(L)S 65-200/226	3(LP) 65-200/226	30	22	85
3LS 65-250/306	3LP 65-250/306	40	30	87
3LS 65-250/376	3LP 65-250/376	50	37	87
3LS 80-160/18.56	3LP 80-160/18.56	25	18,5	84
3LS 80-160/226	3LP 80-160/226	30	22	85
3LS 80-200/226	3LP 80-200/226	30	22	85
3LS 80-200/306	3LP 80-200/306	40	30	87
3LS 80-200/376	3LP 80-200/376	50	37	87
3LS 80-250/456	3LP 80-250/456	60	45	90
3LS 80-250/556	3LP 80-250/556	75	55	91

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

SPECIFIC PERFORMANCE

The specifications given refer to the curves illustrated in our catalogues and Data Book (see www.ebara-europe.com). All of the performance curves are calculated according to ISO 9906 Attachment A.

Tolerance according to ISO 9906 Annex A.

The curves refer to an effective speed of the 60 Hz asynchronous motors.

The measurements are made with water temperature of 20°C and cinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt).

In order to prevent the risk of overheating, the pumps must not be used at a flow rate below 10% of the maximum efficiency flow rate.

During selection of the pumps, there is a safety margin of at least 1 m.

Symbols: Q = Flow rate [m^3/h]

H = Head [m]

P₁ = Power absorbed by the electric line

P₂ = Power yielded to the motor axis (power absorbed by the pump)



DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. **CERT-17819-2006-AQ-VEN-SINCERT**

Si attesta che / This is to certify that

EBARA PUMPS EUROPE S.p.A.

Sede e Stabilimento di Brendola: Via Pacinotti, 32 - 36040 Brendola (VI) - Italy
Stabilimento di Cles: Via Campo Sportivo, 30 - 38023 Cles (TN) - Italy
Filiale di Palermo: Via Don Luigi Sturzo, 181/183 - Z. I. - 90040 Carini (PA) - Italy
Filiale di Cagliari: Via del Fangario, 29 - 09122 Cagliari (CA) - Italy

è conforme ai requisiti della norma per i sistemi di gestione:
 has been found to conform to the management system standard:

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa Certificazione è valida per il seguente campo applicativo:
 This Certificate is valid for the following product or service ranges:

Progettazione, produzione, vendita e commercializzazione di pompe e sistemi di pompaggio
(Settore EA : 18 - 17)
Design, manufacture, sales and trade of pumps and pumping systems
(Sector EA : 18 - 17)

Data Prima Emissione/Initial Certification Date:

2006-10-13

Il Certificato è valido fino al:
This Certificate is valid until:

2015-10-10

L'audit è stato eseguito sotto la supervisione di:
The audit has been performed under the supervision of:

Michele Gaiba
Lead Auditor



5502 (P)003 A PRO (P)003 B
5504 (P)003 D 5501 (P)002 G
5504 (P)004 F 5504 (P)001 I

Membro di MSA EA per gli schemi di accreditamento ISO, ISO 9001, ISO 14001 e ISO 45001 per gli schemi di accreditamento ISO, ICA, ISO, FIM e PRO e di PMA SAC per gli schemi di accreditamento LAB

Luogo e Data/Place and Date:

Agrate Brianza (MB), 2012-10-02

Per l'Organismo di Certificazione:
For the Accredited Unit:


Zeno Beltrami
 Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione. Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DET NORSKE VERITAS ITALIA SRL - CENTRO DIREZIONALE COLLEONI - PALAZZO SIBRO - V.LE COLLEONI, 9 - 20064 AGRATE BRIANZA (MB) - ITALY - TEL. 039.68.99.905 - WWW.DNVBA.COM/IT

EBARA Pumps Europe network

HEAD OFFICE

EBARA Pumps Europe S.p.A.

Via Pacinotti, 32
36040 Brendola (VI), Italy
Phone +39 0444 706811 - Fax +39 0444 405811

Italian sales (for orders only):
e-mail: ordini@ebaraeurope.com

Export sales (for orders only):
e-mail: exportsales@ebaraeurope.com

Technical Customer Service (TCS):
e-mail: technical_customer_service@ebaraeurope.com
Phone +39 0444 706902/923

Marketing & Marketing Communication:
e-mail: marketing@ebaraeurope.com

ITALIAN SALES NETWORK

NORTH-WEST Region:

(Trentino Alto Adige, Veneto, Friuli Venezia Giulia, Emilia Romagna)
Regional Manager cell.: +39 335 6423308
e-mail: nord@ebaraeurope.com
Phone +39 0444 706811 - Fax +39 0444 405811

NORTH-EAST Region:

(Valle d'Aosta, Piemonte, Lombardia, Liguria)
Regional Manager cell.: +39 335 5327276
e-mail: mrtgmi@ebaraeurope.com
Phone +39 0444 706811 - Fax +39 0444 405975

CENTRAL Region:

(Toscana, Umbria, Marche, Lazio, Abruzzo, Molise)
Regional Manager cell.: +39 335 6423286
e-mail: centro@ebaraeurope.com
Phone +39 0444 706811 - Fax +39 0444 405811

SOUTH Region:

(Campania, Basilicata, Puglia, Calabria, Sicilia)
Regional Manager cell.: +39 335 6423316
e-mail: sud@ebaraeurope.com
Phone +39 0444 706811 - Fax +39 0444 405811

INDUSTRIAL Division:

Manager cell.: +39 335 6423302
e-mail: industry@ebaraeurope.com
Phone +39 0444 706811 - Fax +39 0444 405811

WASTEWATER Division:

Manager cell.: +39 335 6423290
e-mail: ses@ebaraeurope.com
Phone +39 0444 706811 - Fax +39 0444 405811

MILANO Branch:

Phone +39 02 93507358 - Fax +39 0444 405975
Branch Manager cell.: +39 335 5327276
e-mail: mktgmi@ebaraeurope.com

CAGLIARI Branch:

Via del Fangario, 29
09122 Cagliari
Phone +39 070 274281 - Fax +39 0444 405960
Branch Manager cell.: +39 335 6423320
e-mail: mktgca@ebaraeurope.com

PALERMO Branch:

Via Don L. Sturzo, 181/183
Z.I. - 90044 Carini (PA)
Phone +39 091 8668790 - Fax +39 0444 405980
Branch Manager cell.: +39 335 6423316
e-mail: mktgpa@ebaraeurope.com

EXPORT NETWORK

EBARA Pumps Europe S.p.A. UNITED KINGDOM

Unit 7 - Zodiac Business Park
High Road - Cowley Uxbridge
Middlesex - UB8 2GU, United Kingdom
Phone +44 1895 439027 - Fax +44 1895 439028
e-mail: mktguk@ebaraeurope.com

EBARA ESPAÑA BOMBAS S.A.

C/Cormoranes 6 Y 8
Poligono Ind. La Estación
28320 Pinto (Madrid), Spain
Phone +34 916.923.630 - Fax +34 916.910.818
e-mail: marketing@ebara.es

EBARA Pumps Europe S.p.A. FRANCE

555, Rue Juliette Recamier
69970 Chaponnay, France
Phone +33 4 72769482 - Fax +33 805101071
e-mail: mktgfr@ebaraeurope.com

EBARA Pumps Europe S.p.A. GERMANY

Ferdinand-Porsche-Ring 7
63110 Rodgau-Jügesheim, Germany
Phone +49 (0) 6106-660 99-0
Fax +49 (0) 6106-660 99-45
e-mail: mktgde@ebaraeurope.com

EBARA POMPY POLSKA Sp. z o.o.

ul. Działkowa 115
02-234 Warszawa, Poland
Phone +48 22 3909920 - Fax +48 22 3909929
e-mail: mktgpl@ebaraeurope.com

EBARA Pumps Europe S.p.A. MIDDLE EAST

P.O. Box 54515
Dubai Airport Free Zone
Dubai, United Arab Emirates
Phone +971 4 609 1040 - Fax +971 4 609 1038
e-mail: mktgme@ebaraeurope.com

EBARA Pumps Europe S.p.A. SAUDI ARABIA

Al Sitteen Street,
Al Jazeera commercial center, building #2, First floor
Jeddah, KSA
Phone/Fax +966 2 664 9755

EBARA Pumps Europe S.p.A INDIA LIAISON OFFICE

Bhumiraj Costarica,
Room No. 1503, Sector -18,
Palm Beach Rd., Sanpada,
Navi Mumbai, Maharashtra, India
Phone +91 22 27812862/63/64
Fax +91 22 27812865
e-mail: mktgind@ebaraeurope.com

EBARA Pumps Europe S.p.A. RUSSIA

Phone +7 985 7672672
e-mail: mktgrus@ebaraeurope.com



EBARA Pumps Europe S.p.A.

Via Pacinotti, 32
36040 Brendola (Vicenza), Italy
Phone +39 0444 706811 - Fax +39 0444 405811
e-mail: marketing@ebaraeurope.com
www.ebaraeurope.com



EBARA Corporation

11-1, Haneda Asahi-cho, Ohta-ku,
Tokyo 144-8510
Japan
Phone +81 3 6275 7598 - Fax +81 3 5736 3193
www.ebara.com

