

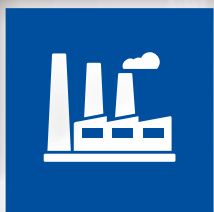


EBARA

3 SERIES

**CENTRIFUGAL ELECTRIC PUMPS STANDARDISED
IN COMPLIANCE WITH EN 733**

60 Hz



3 - 3L SERIES

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



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

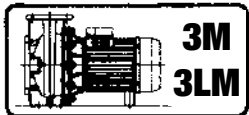
MOTOR TECHNICAL DATA

- High efficiency motors:
 - IE3 starting from 1.1kW up to 55kW, only for 3(L)M SERIES 460V
- 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

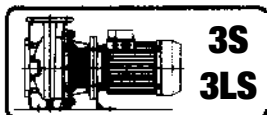
MATERIALS

- Pump casing and casing cover in:
 - AISI 304 for 3 SERIES
 - 32-125/160/200
 - 40-125/160/200
 - 50-125/160/200
 - 65-125/160/200
 - AISI 316L for 3L SERIES
 - 32-125/160/200
 - 40-125/160/200
 - 50-125/160/200
 - 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
 - 50-125/160/200
 - AISI 316L for 3L SERIES
 - 32-125/160/200
 - 40-125/160/200
 - 50-125/160/200
 - AISI 316 microcasted for 3 SERIES
 - 65-125/160/200
 - 3L SERIES
 - 65-125/160/200
 - 65-250
 - 80-160/200/250
- Special mechanical seals available on request

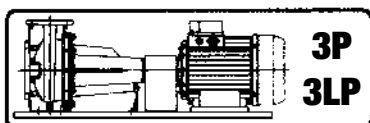
Available in 4 versions with 2 and 4 pole motors



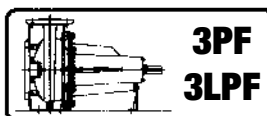
Monobloc with extended motor shaft



Monobloc with standard motor and rigid joint



On base, with standard motor and flexible coupling



Pump with bare shaft

ACCESSORIES (On request)

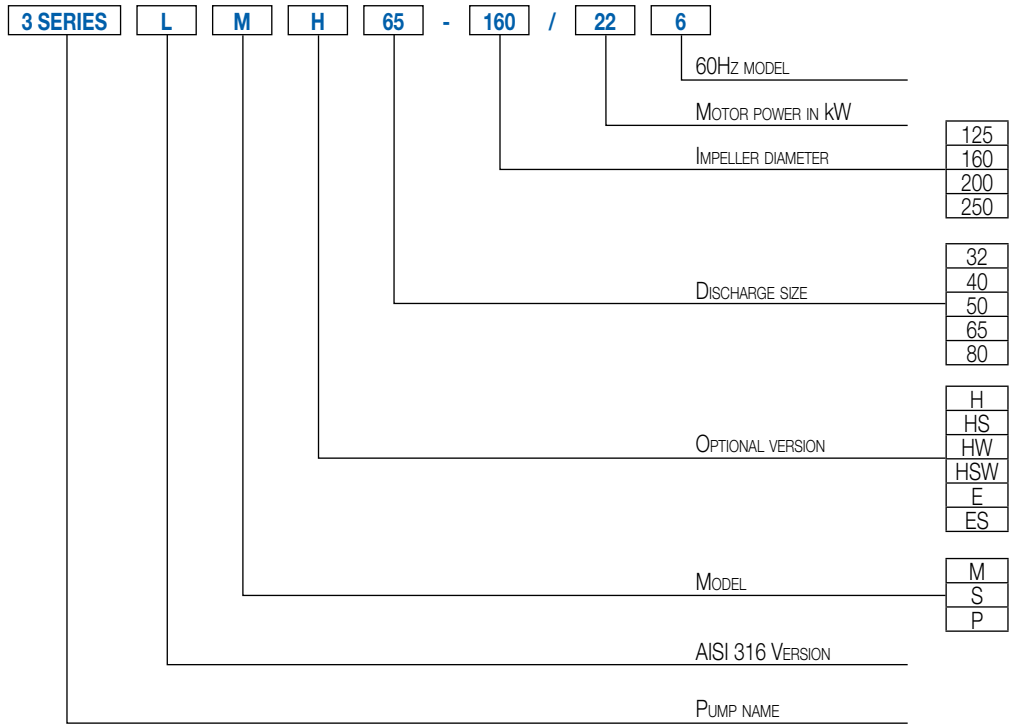
- Counter-flanges available in the following materials:
 - galvanised
 - AISI 304
 - AISI 316



3 - 3L SERIES

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

IDENTIFICATION CODE - 2 Poles



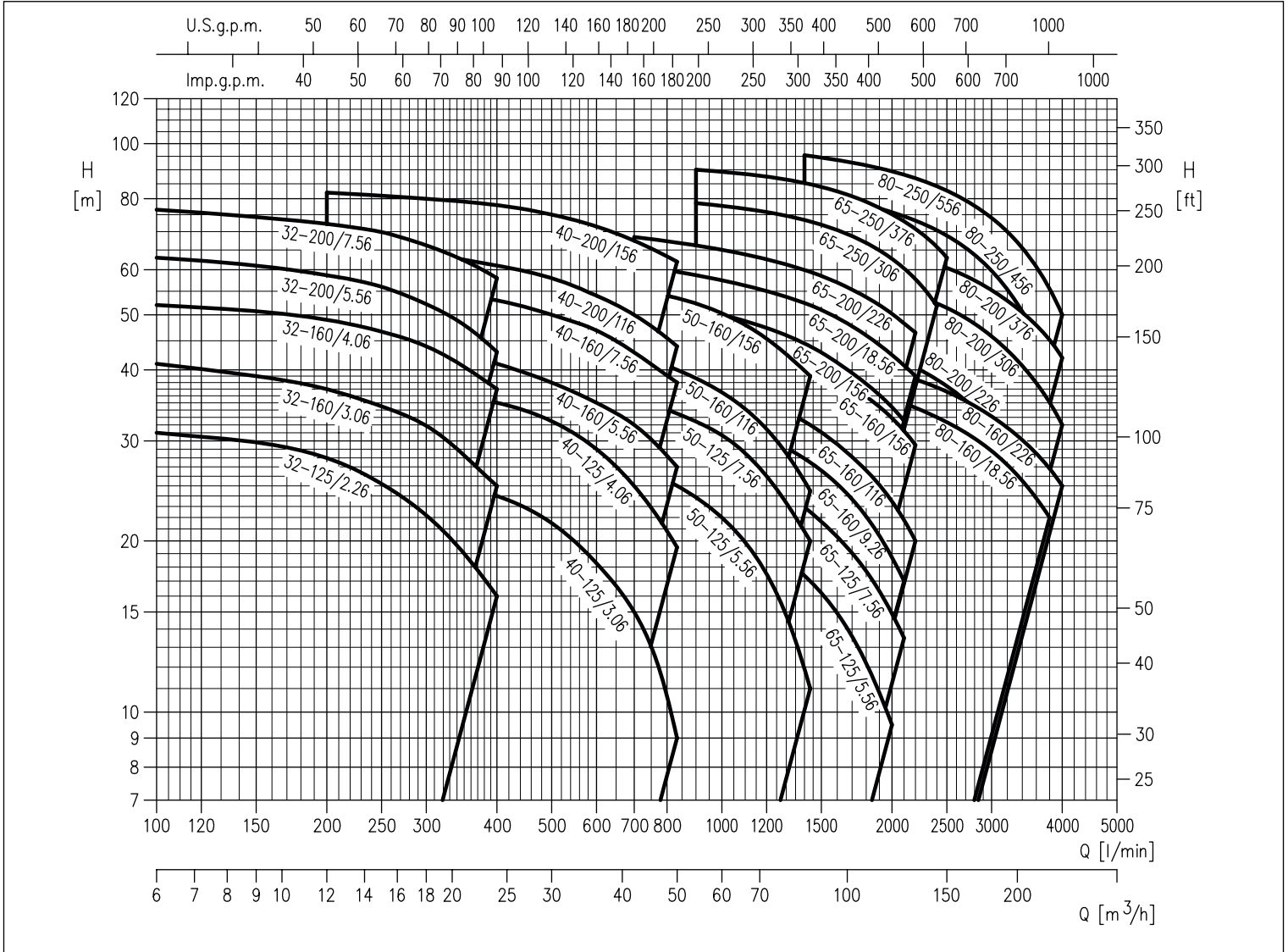
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3 - 3L SERIES

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

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

2 Poles



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

■ = Models also available in H-HS-HW-HSW-E version
 ● = Models also available in H-HW-HSW-E version
 - = Not available.

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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]																	
32-125/2.26	3	2,2	31,4	30,4	28,6	26,1	23,3	20,2	17,0	-	-	-	-	-	-	-	-
32-160/3.06	4	3	41,0	39,6	37,8	35,4	32,5	29,4	26,0	-	-	-	-	-	-	-	-
32-160/4.06	5,5	4	51,5	50,5	48,5	46,5	43,5	40,0	36,6	-	-	-	-	-	-	-	-
32-200/5.56	7,5	5,5	62,5	61,0	59,0	56,0	53,0	48,5	44,0	-	-	-	-	-	-	-	-
32-200/7.56	10	7,5	76,0	74,5	72,5	69,5	66,0	62,0	57,0	-	-	-	-	-	-	-	-
40-125/3.06	4	3	-	-	28,2	27,7	27,0	26,1	24,9	22,3	19,1	15,4	10,0	-	-	-	-
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	-	-	-	-
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	-	-	-	-
40-160/7.56	10	7,5	-	-	56	55,5	54,5	53,5	52,0	49,0	46,0	42,5	38,0	-	-	-	-
40-200/116	15	11	-	-	66,5	66,0	65,0	63,5	62,0	58,5	55,0	51,0	45,0	-	-	-	-
40-200/156	20	15	-	-	82	81,5	80,5	79,5	78,0	75,0	71,5	67,5	62,0	-	-	-	-
50-125/5.56	7,5	5,5	-	-	-	-	-	-	-	30,0	29,2	28,0	26,0	22,8	18,4	12,6	-
50-125/7.56	10	7,5	-	-	-	-	-	-	-	36,5	35,7	34,6	32,7	29,7	25,3	19,5	-
50-160/116	15	11	-	-	-	-	-	-	-	46,0	45,0	43,5	41	37,4	32,4	25,8	-
50-160/156	20	15	-	-	-	-	-	-	-	56,0	55,5	54,0	52,0	49,0	45,0	39,0	-

(M) Single phase version only for 3M SERIES

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
			m ³ /h	36	42	54	72	84	96	108	120	126	132	144	150	186	216	228	240
H=Head [m]																			
65-125/5.56	7,5	5,5	25,7	24,9	22,9	19,6	17,2	14,8	12,2	9,5	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
65-160/9.26	12,5	9,2	-	35,5	33,6	30,3	27,9	25,2	22,1	18,7	17,0	-	-	-	-	-	-	-	-
65-160/116	15	11	-	40,5	38,5	35,0	32,4	29,6	26,6	23,5	21,8	20,0	-	-	-	-	-	-	-
65-160/156	20	15	-	48,5	47,0	43,5	41,5	38,7	35,9	32,9	31,3	29,5	-	-	-	-	-	-	-
65-200/156	20	15	-	53,5	51,5	47,5	44,5	41	37,8	34,4	32,5	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-
65-200/226	30	22	-	68,5	66,5	62,5	60,0	57	53,5	50,0	48,5	46,5	-	-	-	-	-	-	-
65-250/306	40	30	-	-	78,5	76,0	73,5	70,5	67,0	62,5	60,5	58,0	52,0	-	-	-	-	-	-
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	-	-	-	-	-
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	-	-
80-160/226	30	22	-	-	-	-	42,5	42	41,0	39,7	39,0	38,5	37,3	36,6	32,4	28,5	26,9	25,0	-
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	-	-	-
80-200/306	40	30	-	-	-	-	60,0	59	57,5	56	55,0	54,0	52,5	51,5	44,5	37,9	35,1	32,0	-
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	-
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	-	-
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	-

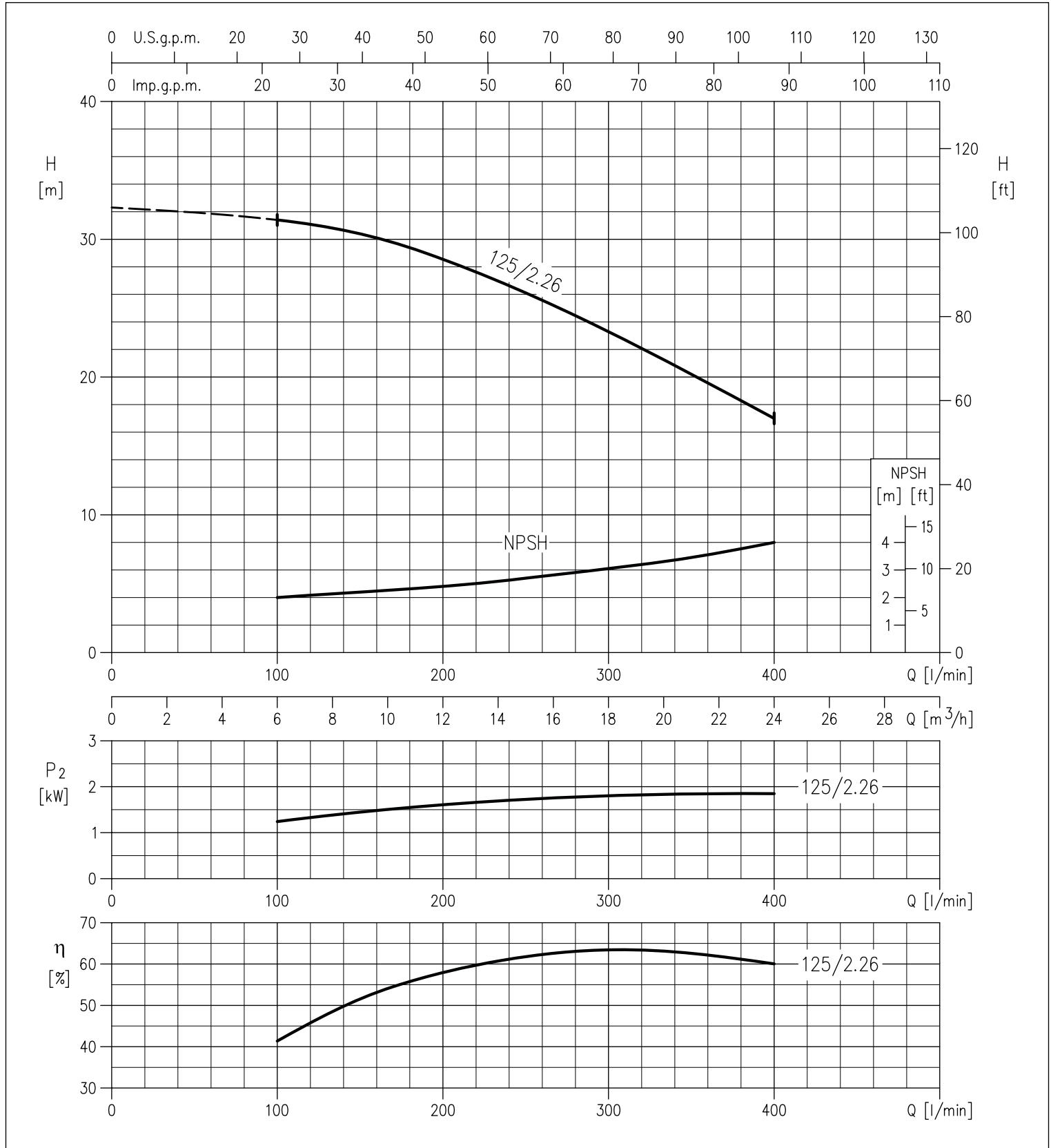
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3 - 3L SERIES

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

PERFORMANCE CURVES 3(L) SERIES 32-125 at 3600 min⁻¹ (according to ISO 9906 Attachment A)



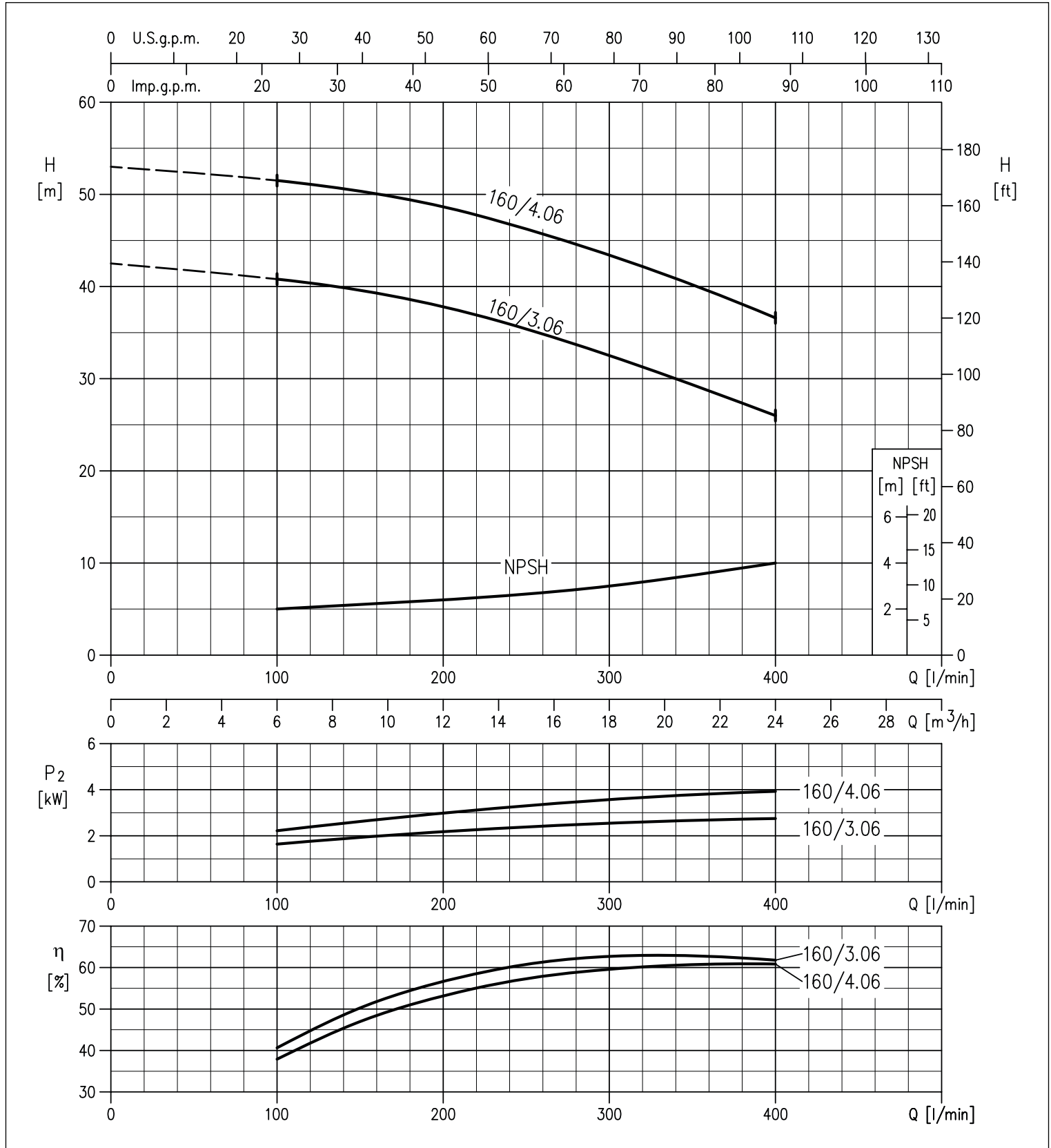
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3 - 3L SERIES

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

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



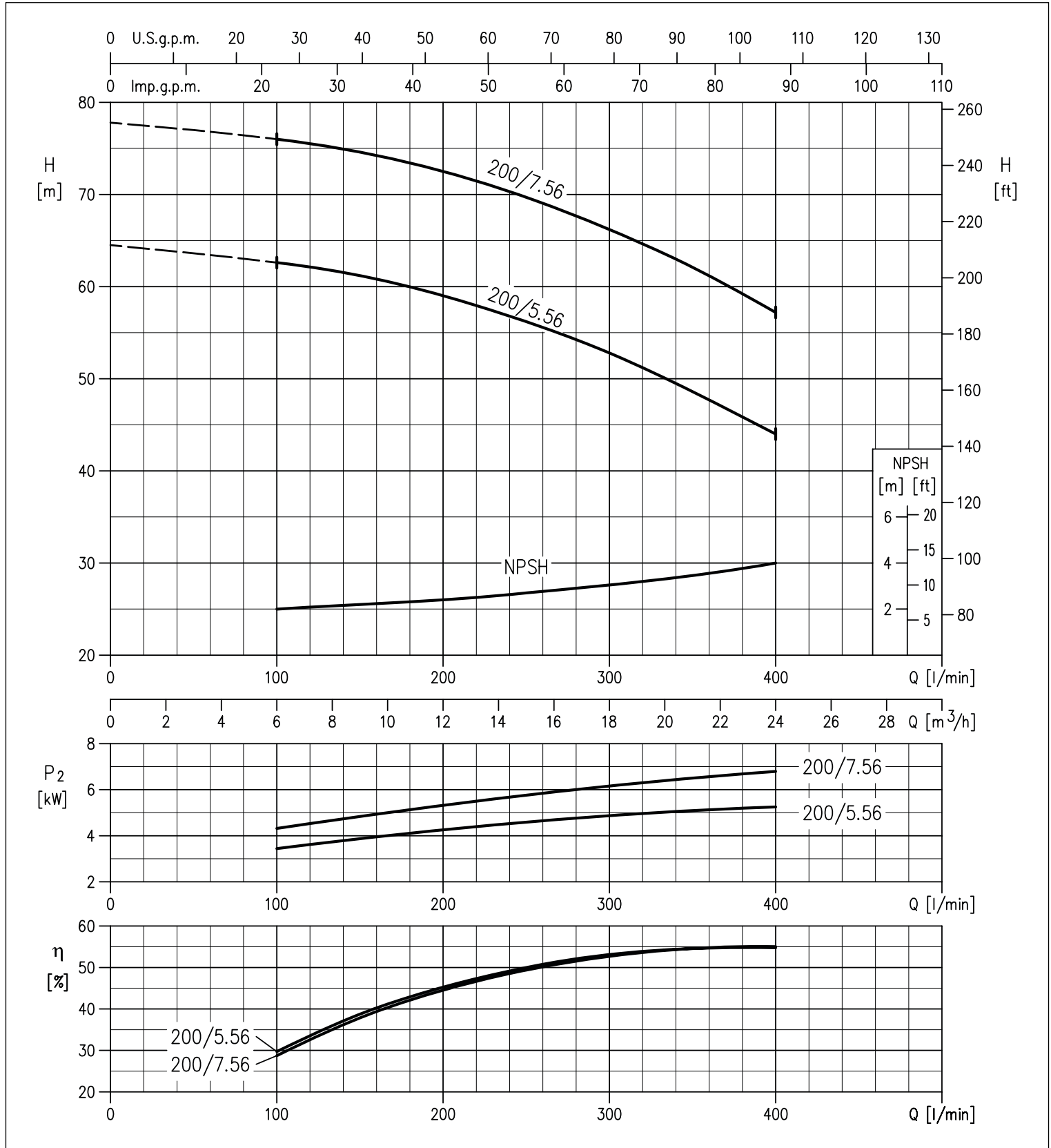
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3 - 3L SERIES

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

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



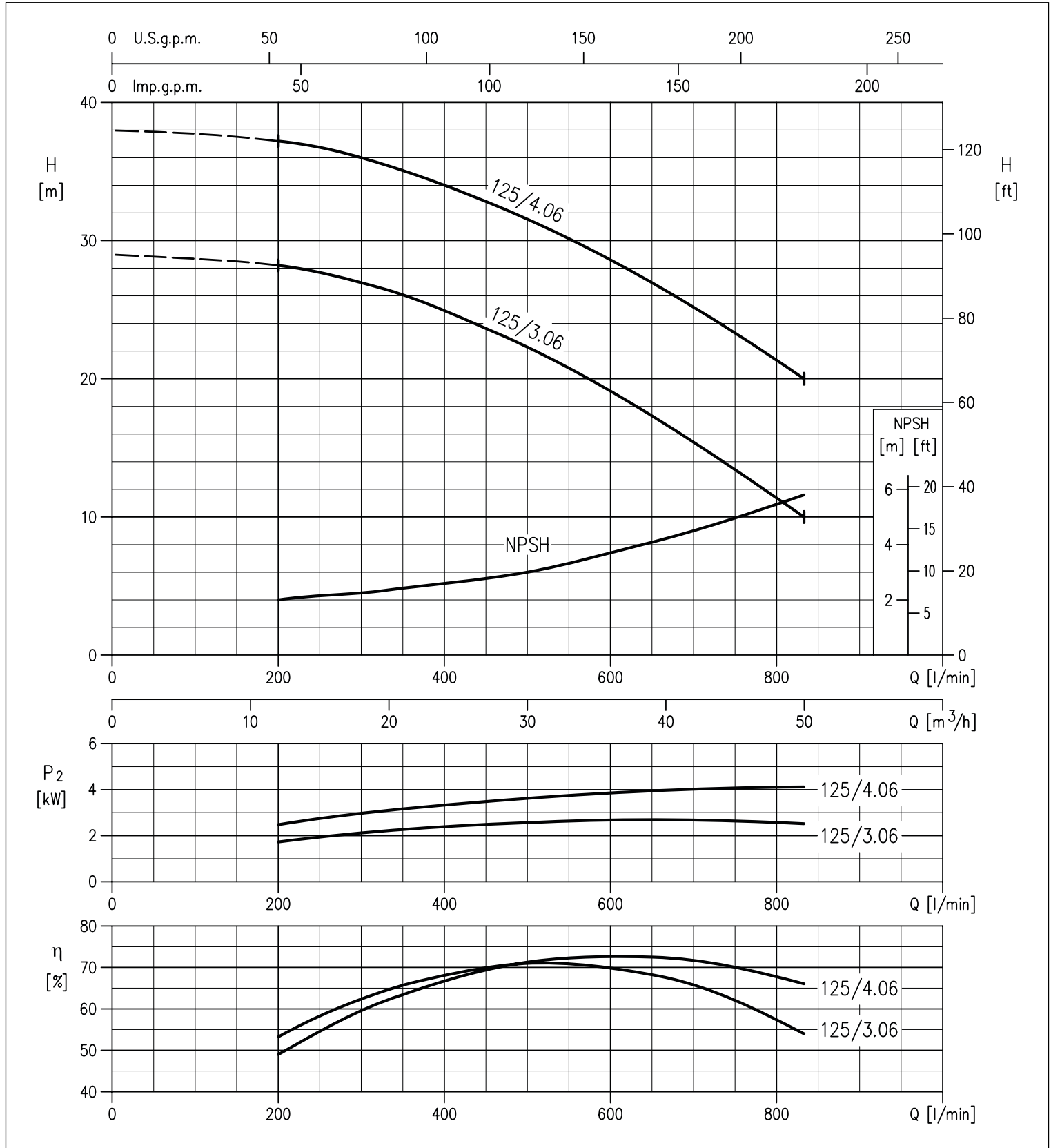
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3 - 3L SERIES

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

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



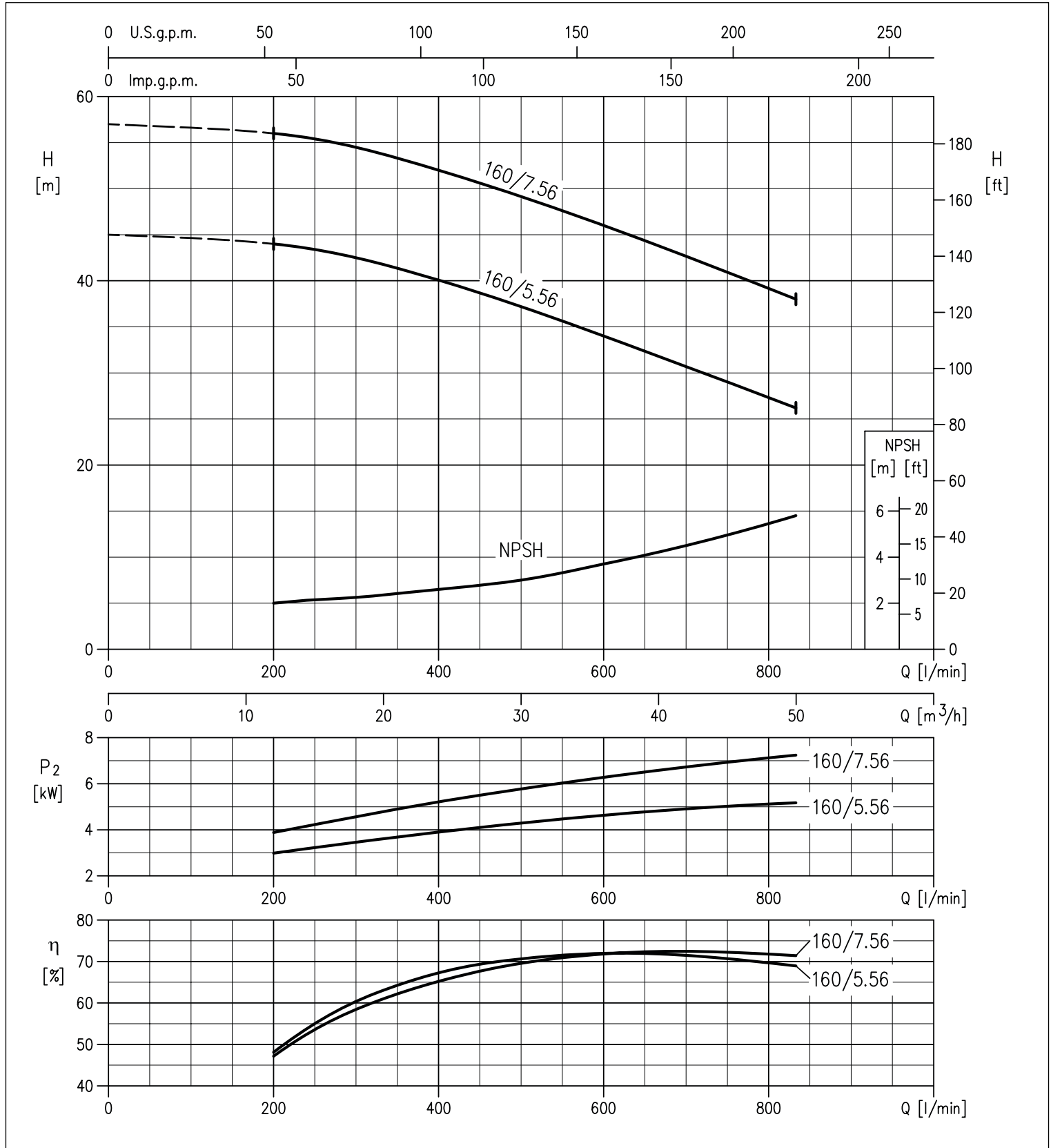
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3 - 3L SERIES

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

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



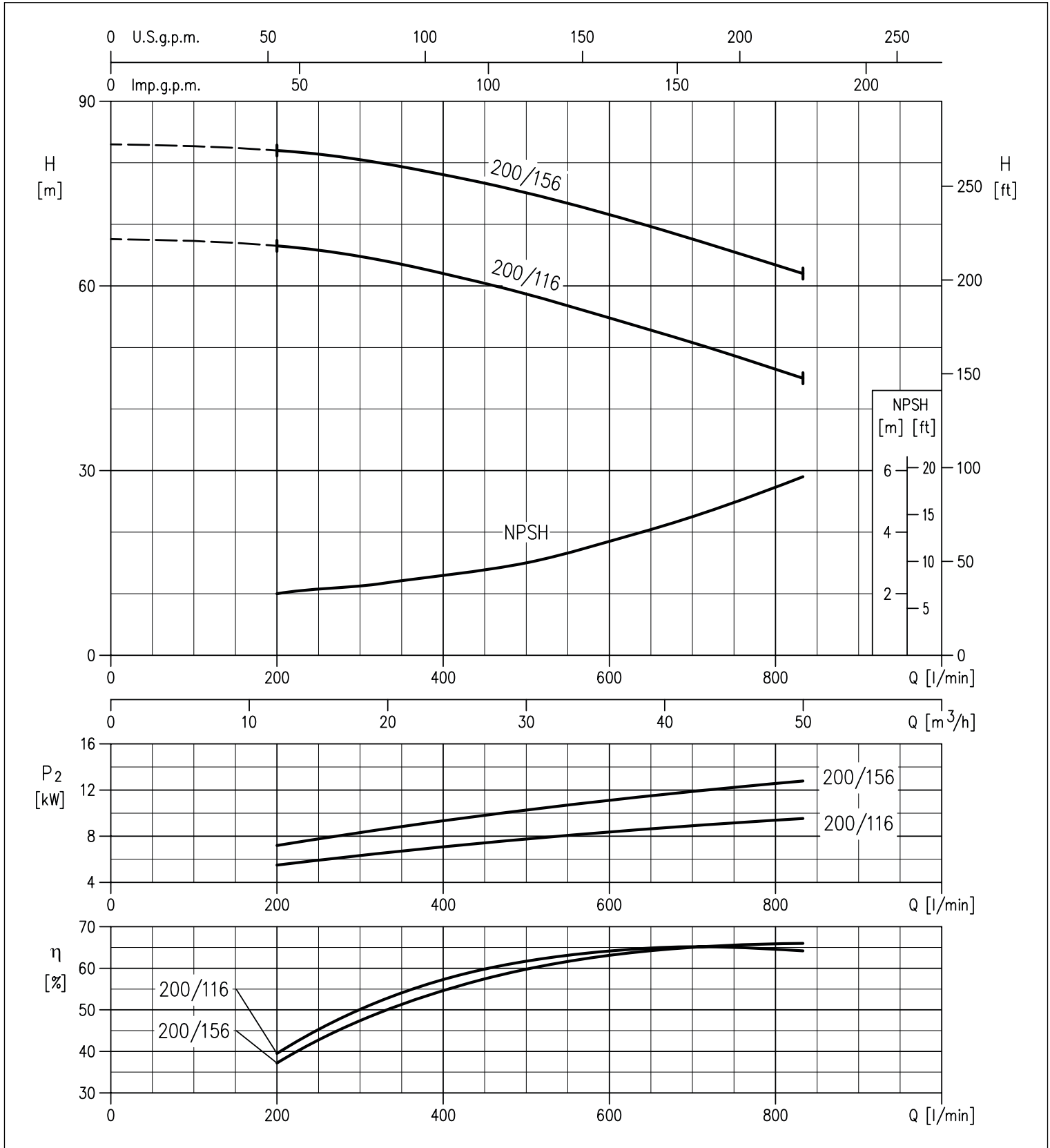
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CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733
(EX DIN 24255)

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



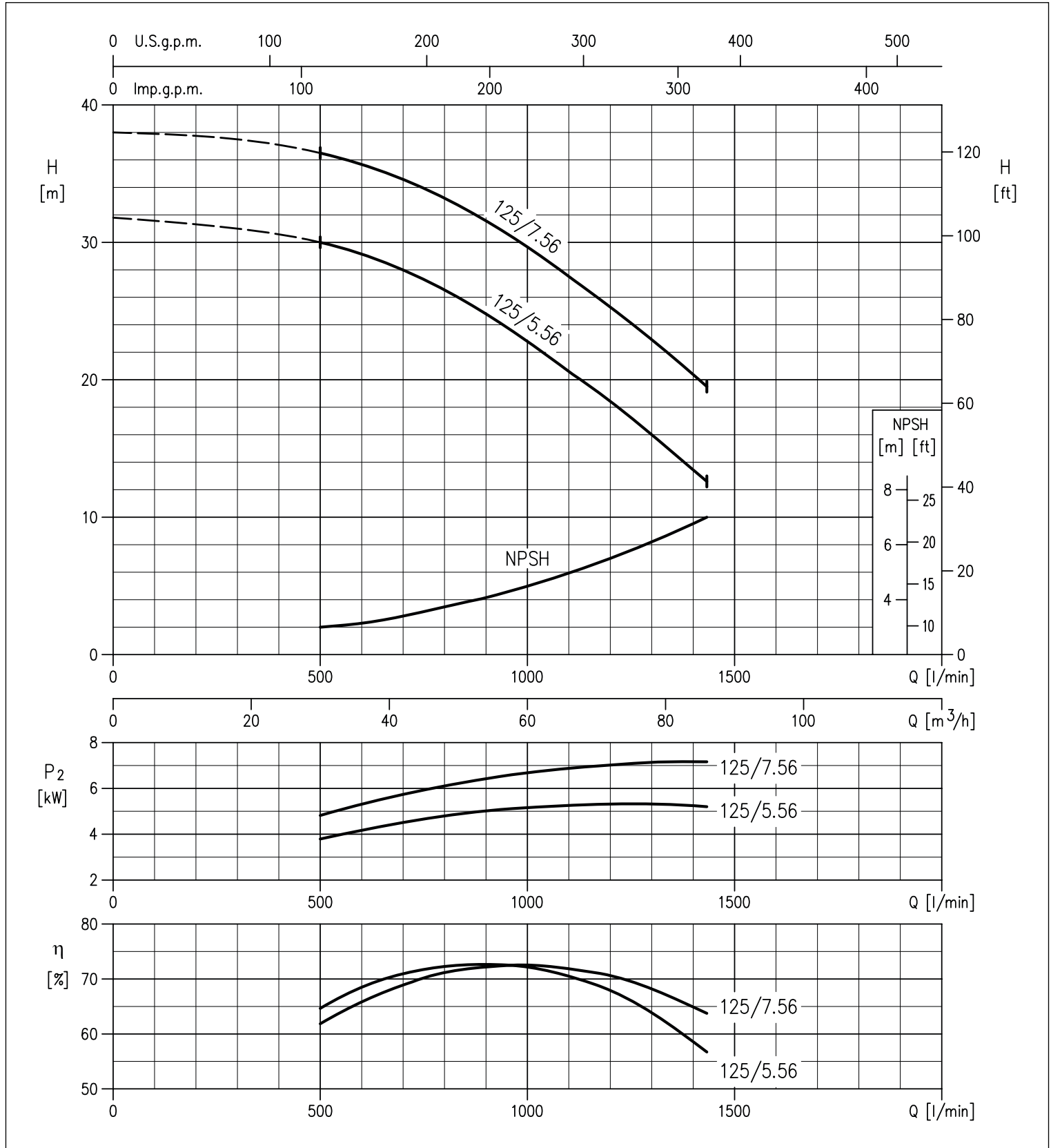
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3 - 3L SERIES

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

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



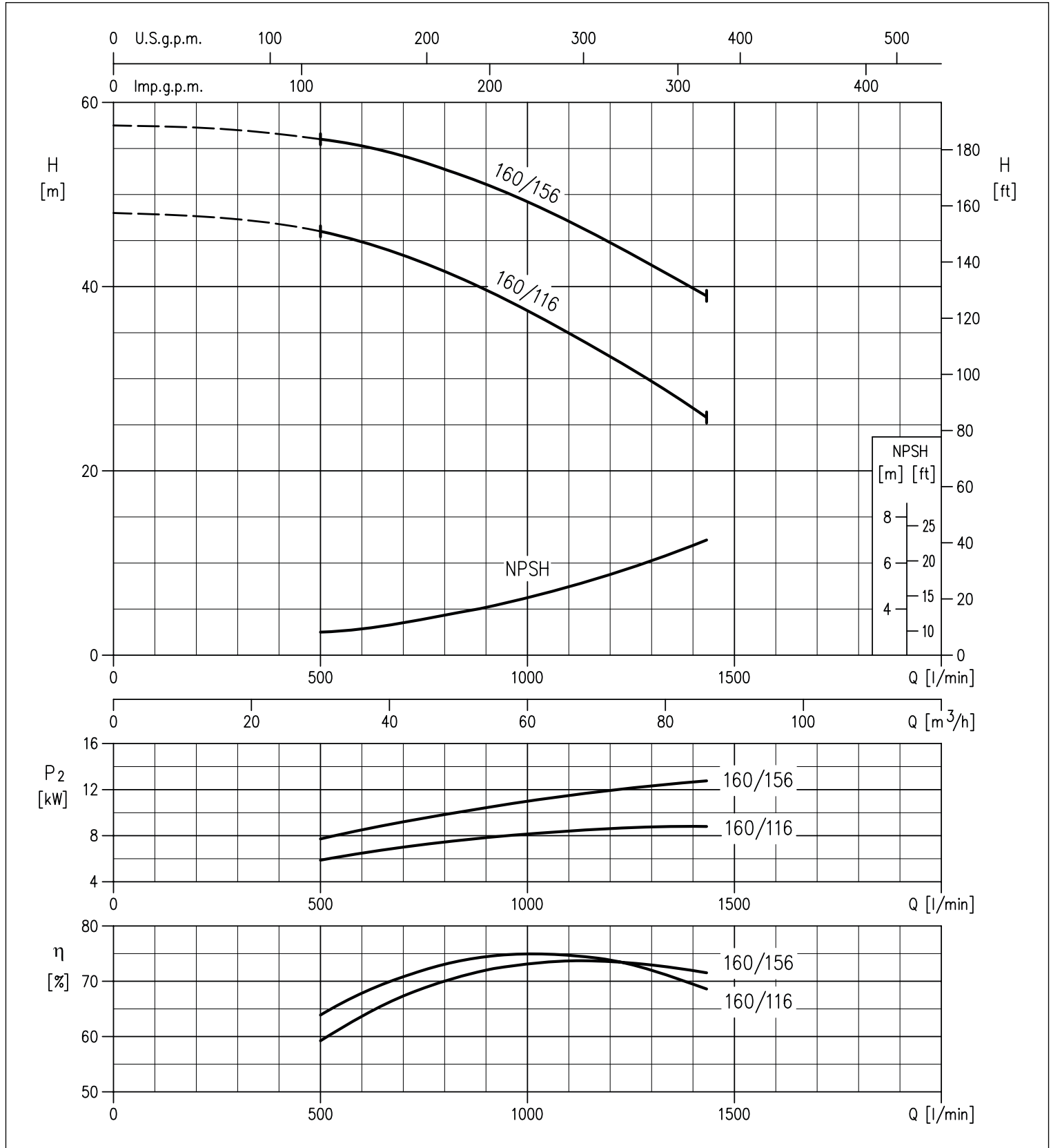
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3 - 3L SERIES

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

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



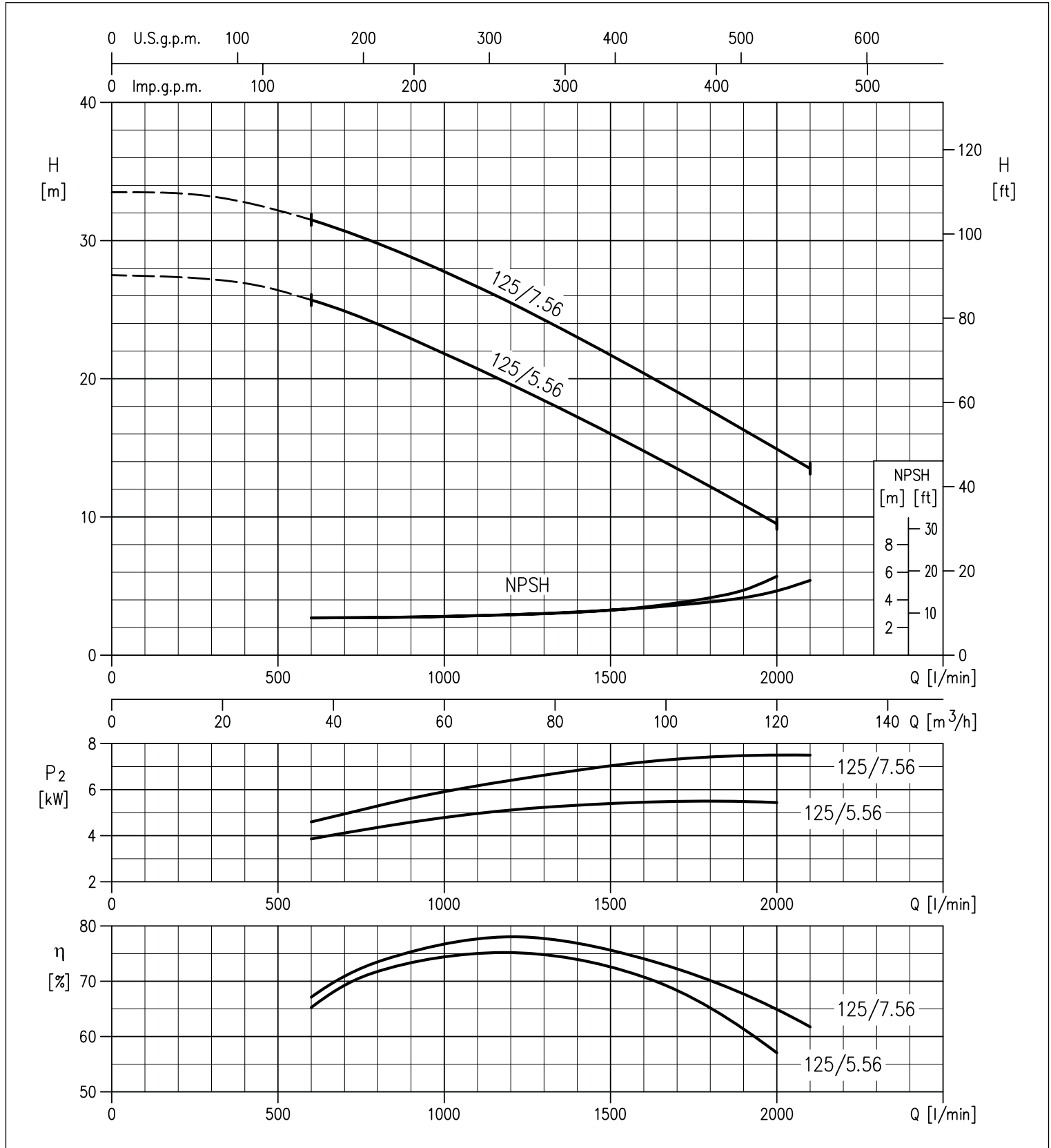
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3 - 3L SERIES

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

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



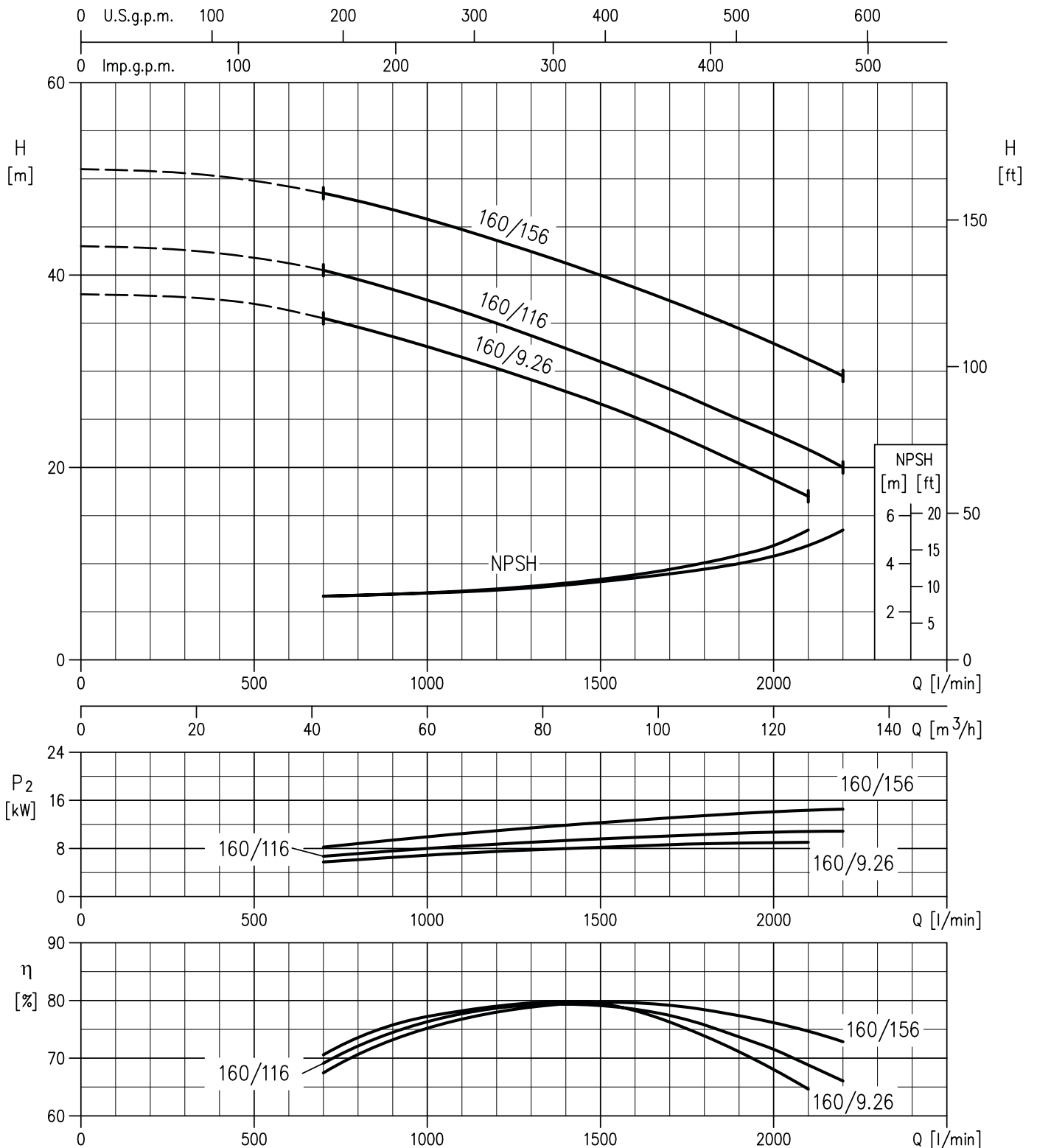
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3 - 3L SERIES

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

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



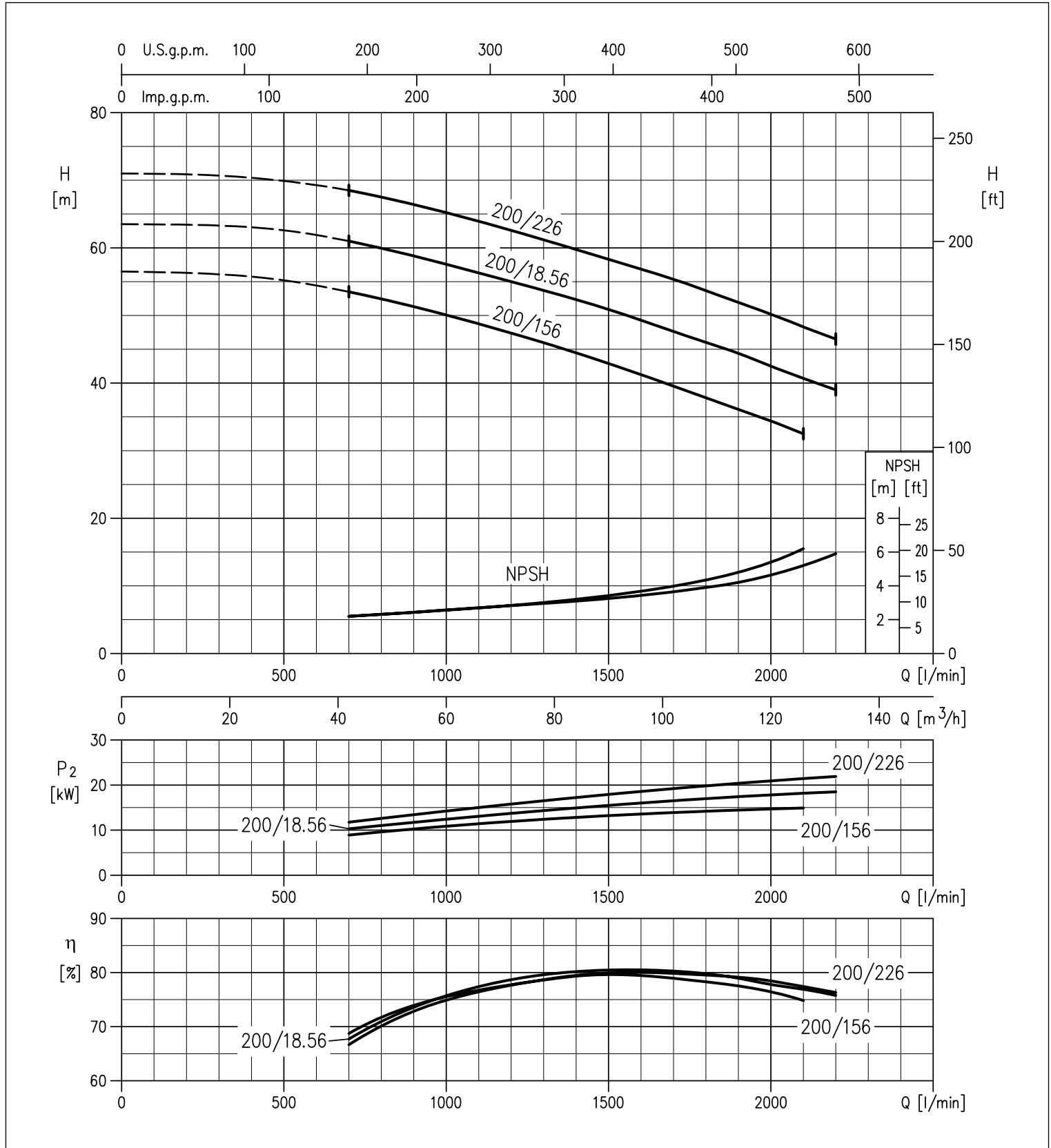
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3 - 3L SERIES

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

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



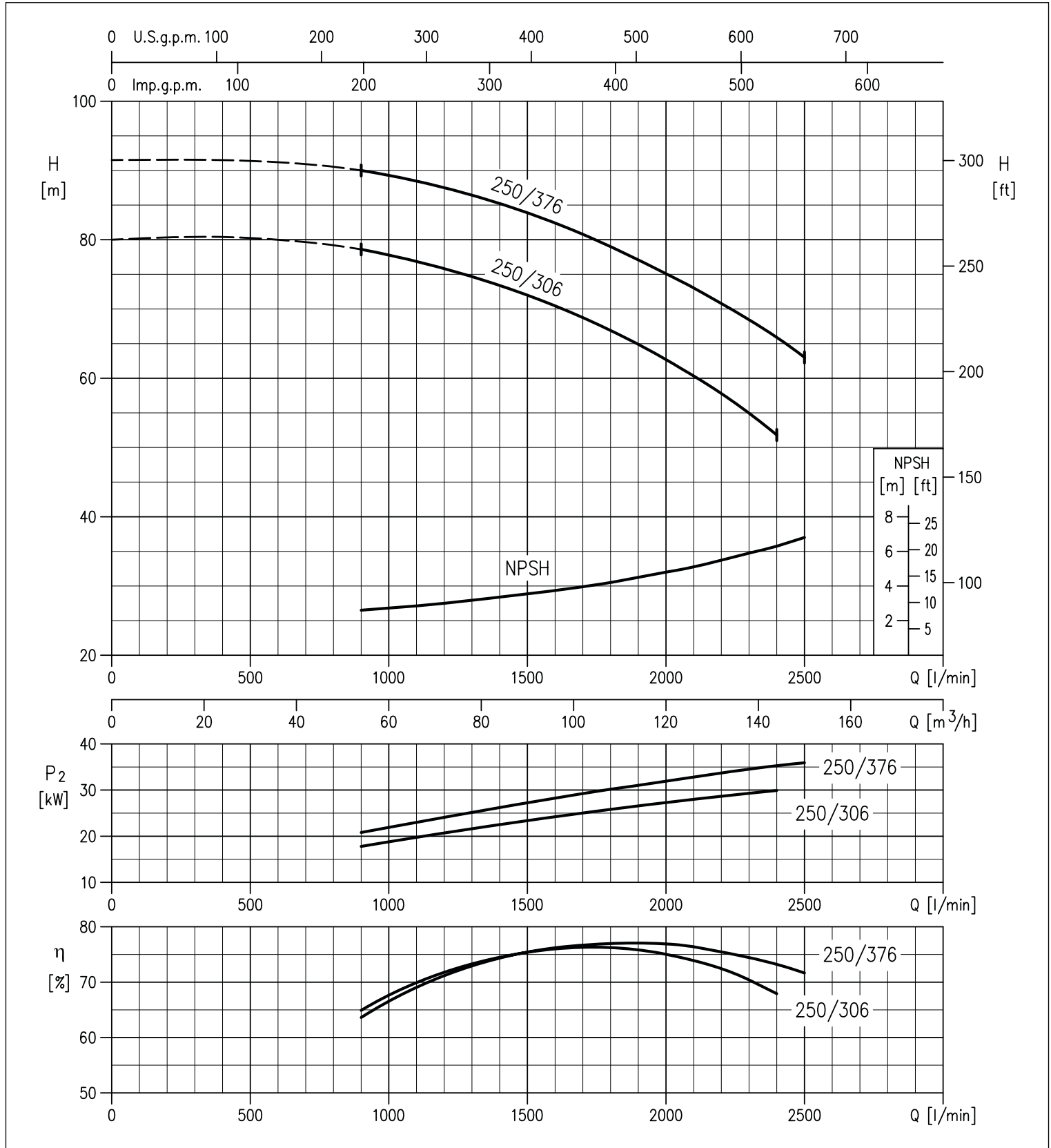
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3 - 3L SERIES

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

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



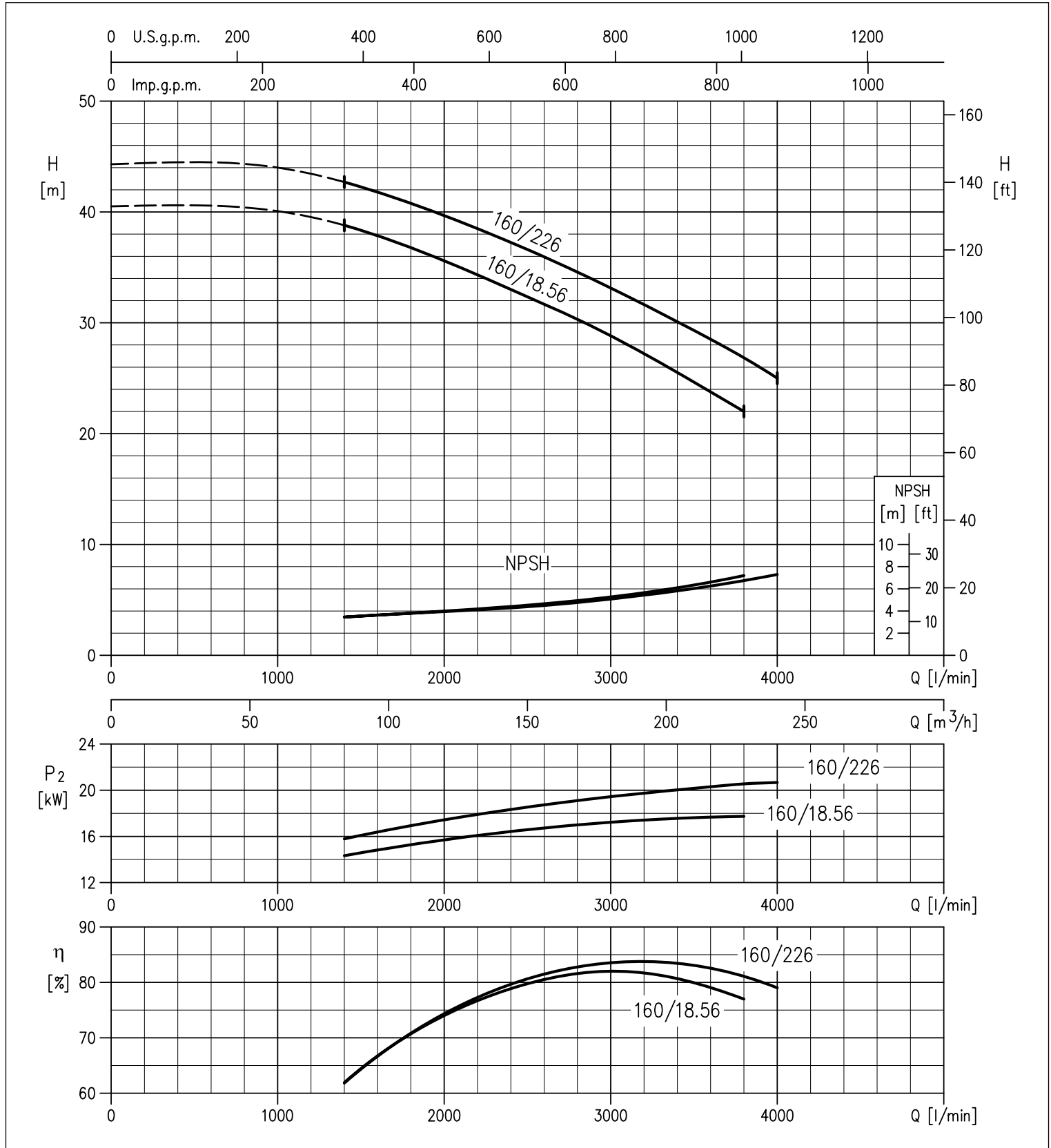
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3 - 3L SERIES

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

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



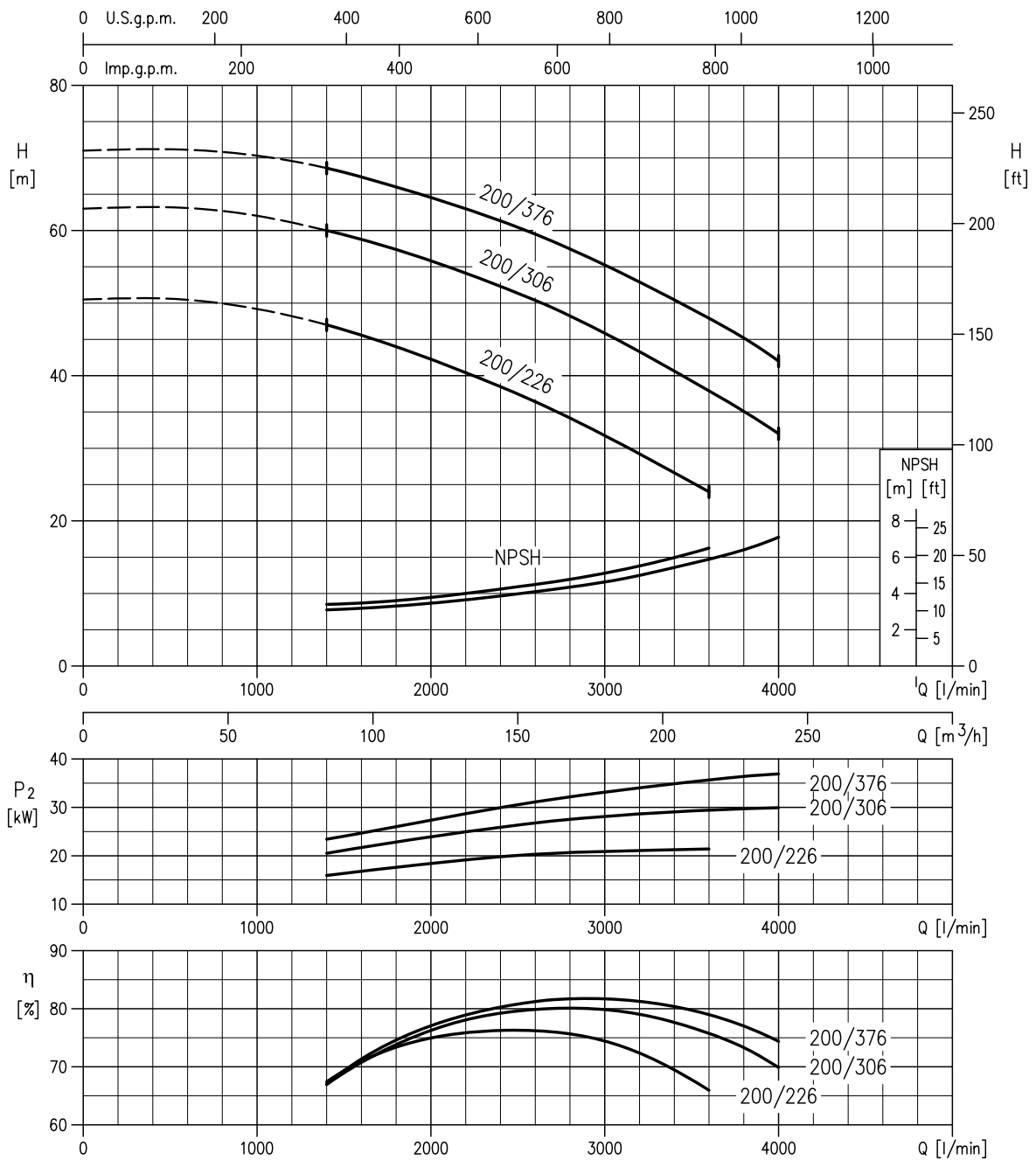
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3 - 3L SERIES

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

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



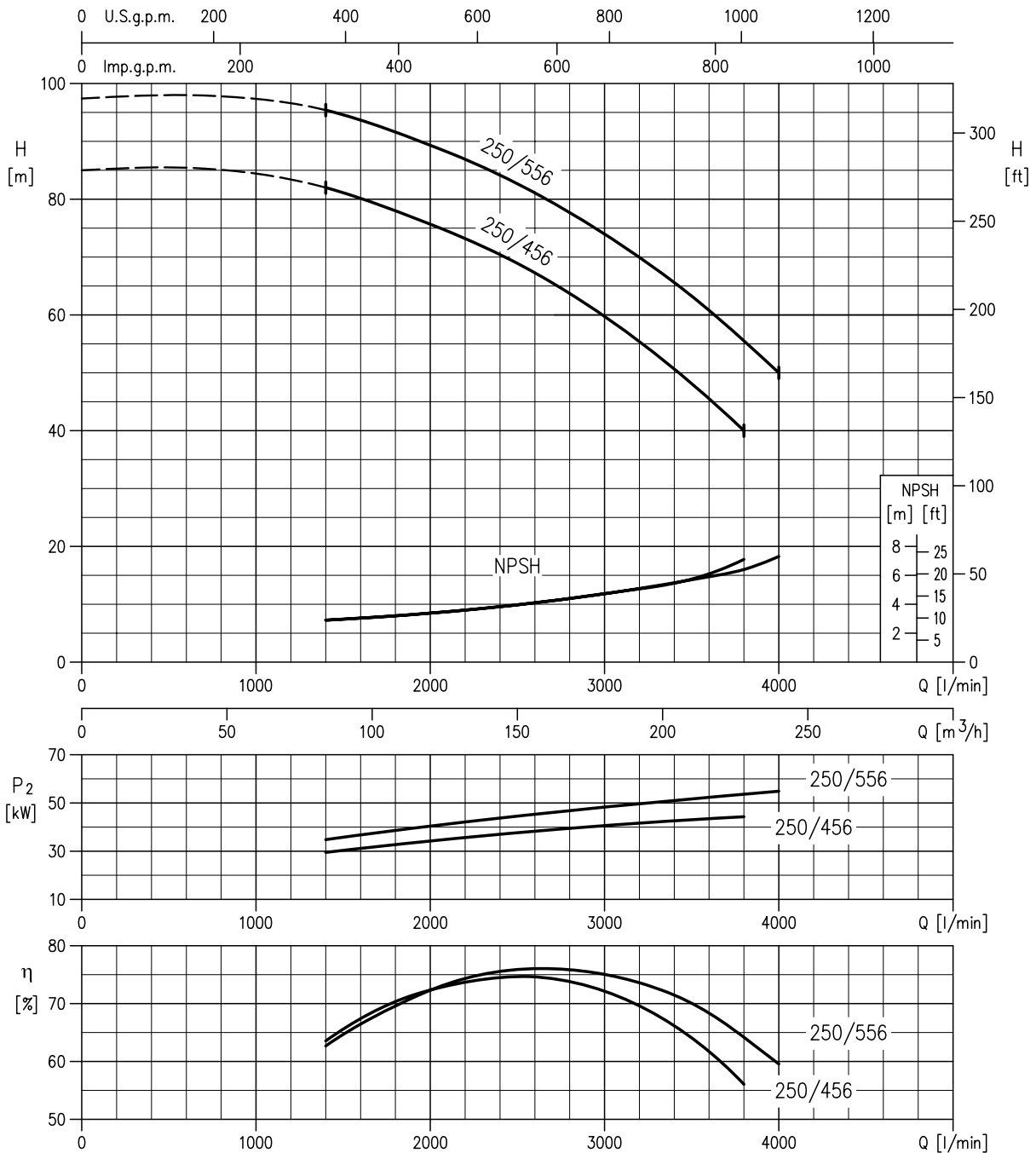
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3 - 3L SERIES

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

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

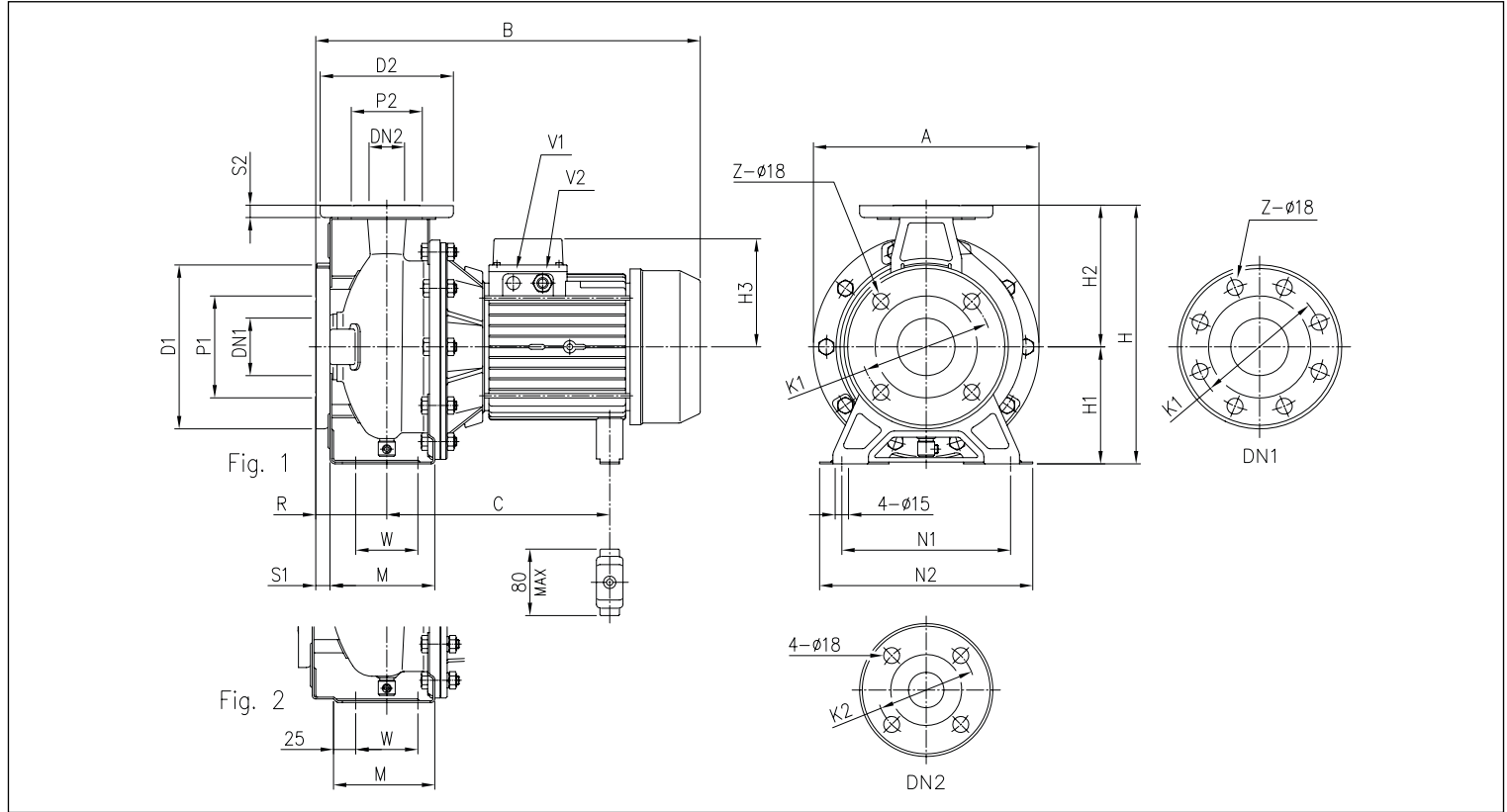


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3 - 3L SERIES

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

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



DIMENSIONAL TABLE

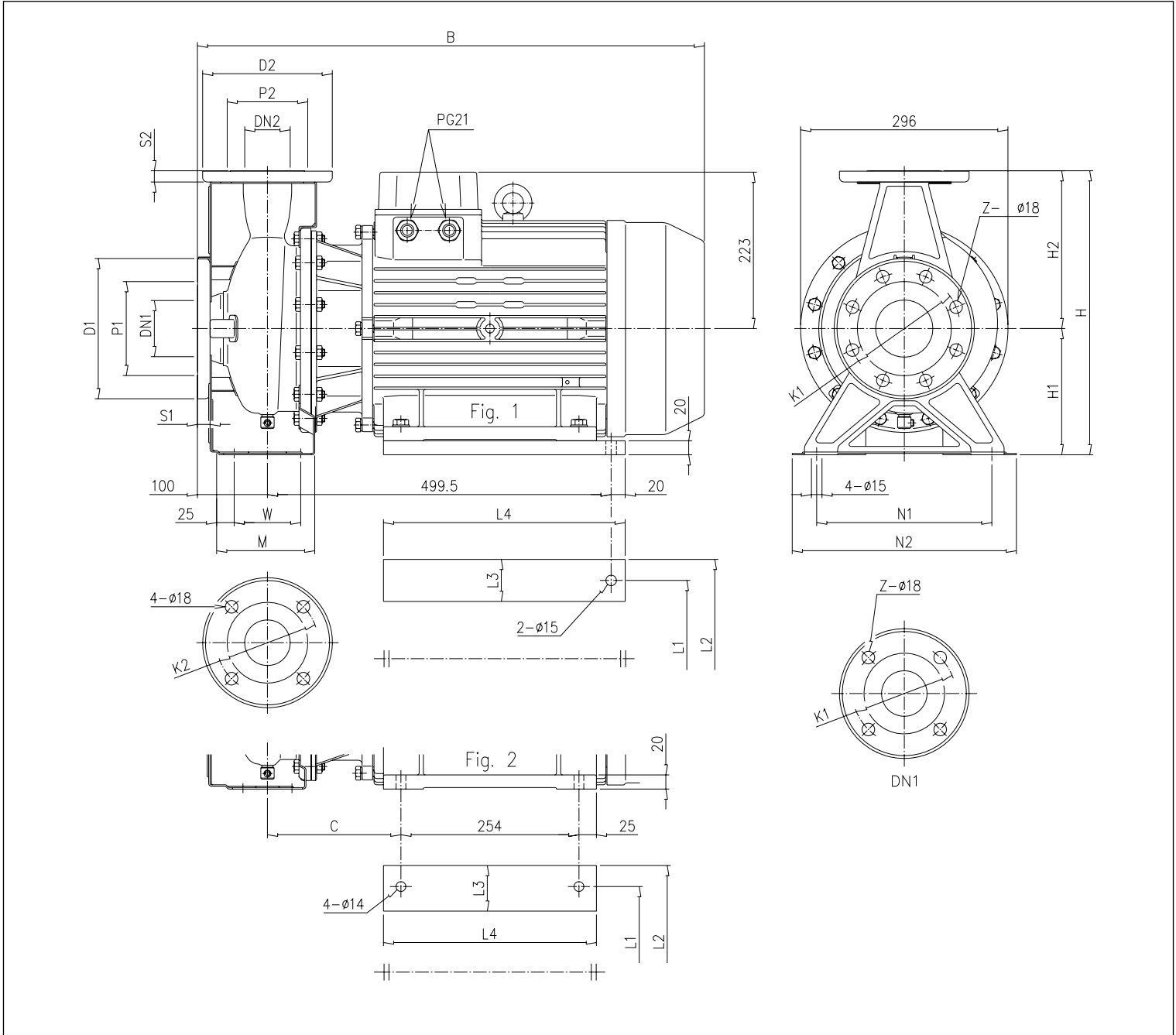
Model	Dimensions [mm]																				Weight [Kg]													
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1] [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H1	H2	H3 *	R	W	M	N1	N2	A	B *	C *	V1	V2 *	Weight [Kg]	*						
32-125/2.26	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	124	119	80	70	114	140	190	213	432	431	244-255	232	-	PG 13,5	M20x1,5	23,0	24,0	
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	PG 13,5	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	-	PG 16	-	-	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	23,0	23,0	
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	PG 13,5	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	PG 13,5	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	PG 13,5	PG 16	M25x1,5	52,0	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	-	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
* Models with IE3 motor only

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	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

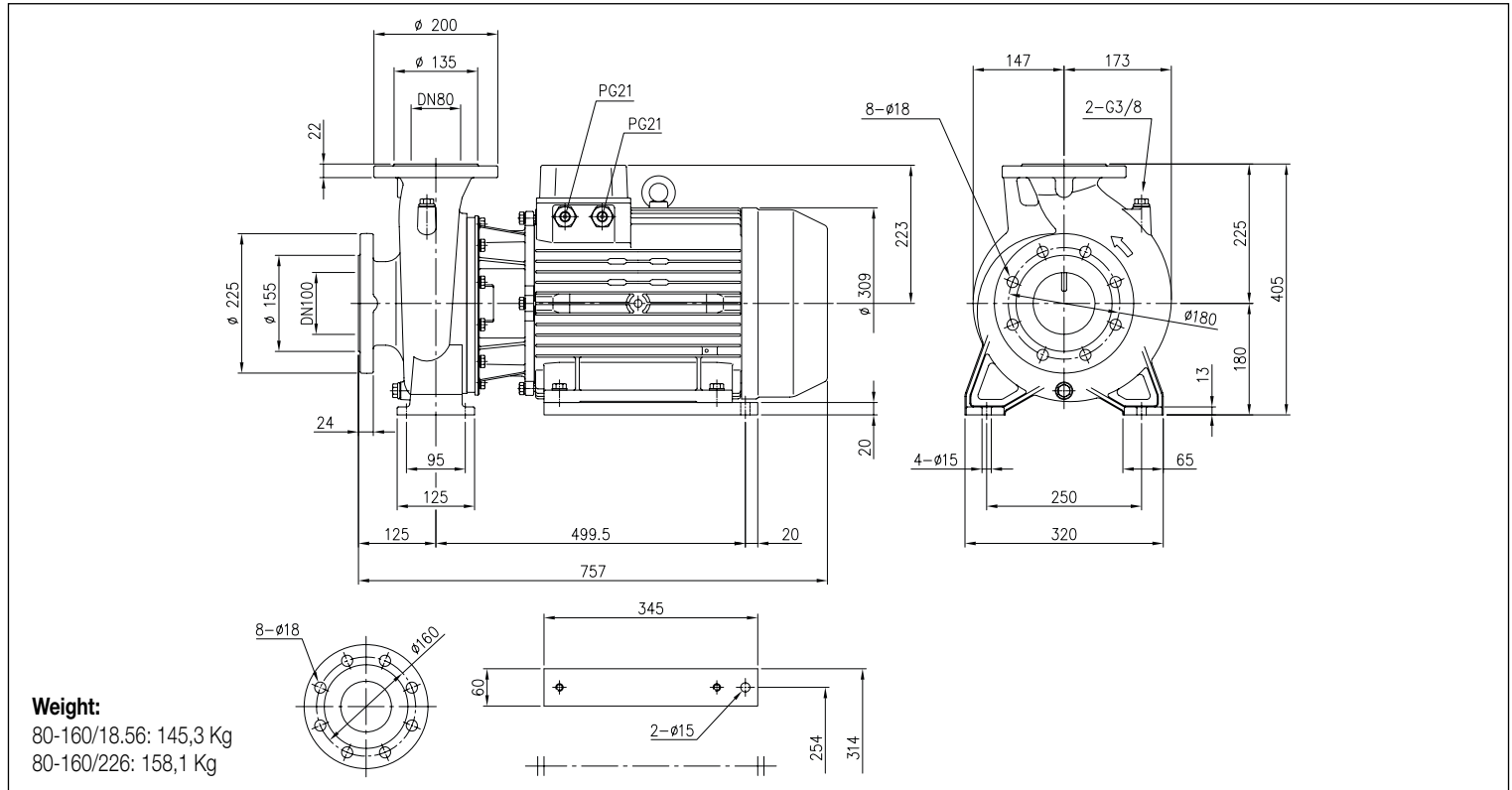
[1] Standard

[2] On request

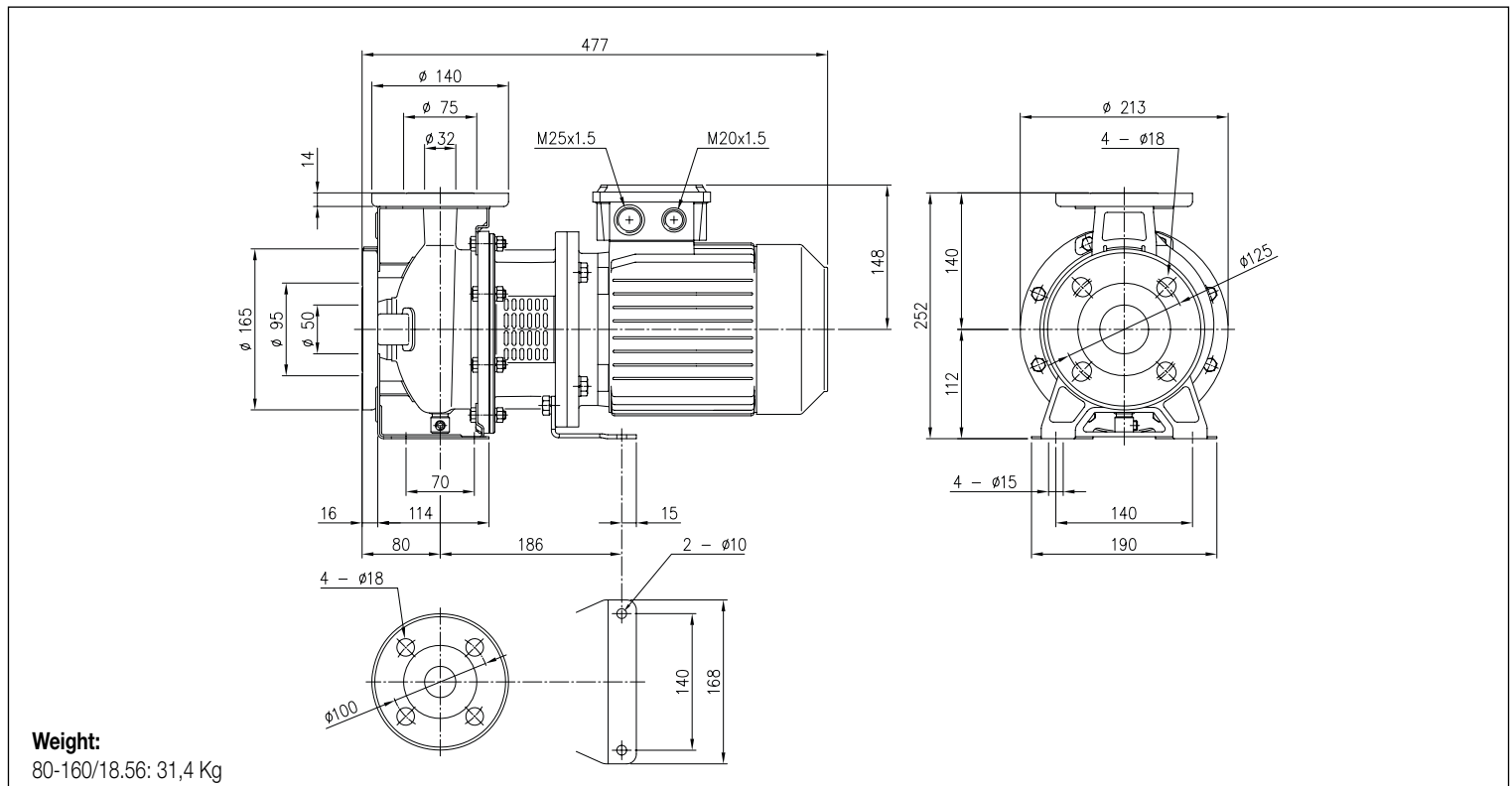
3 - 3L SERIES

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

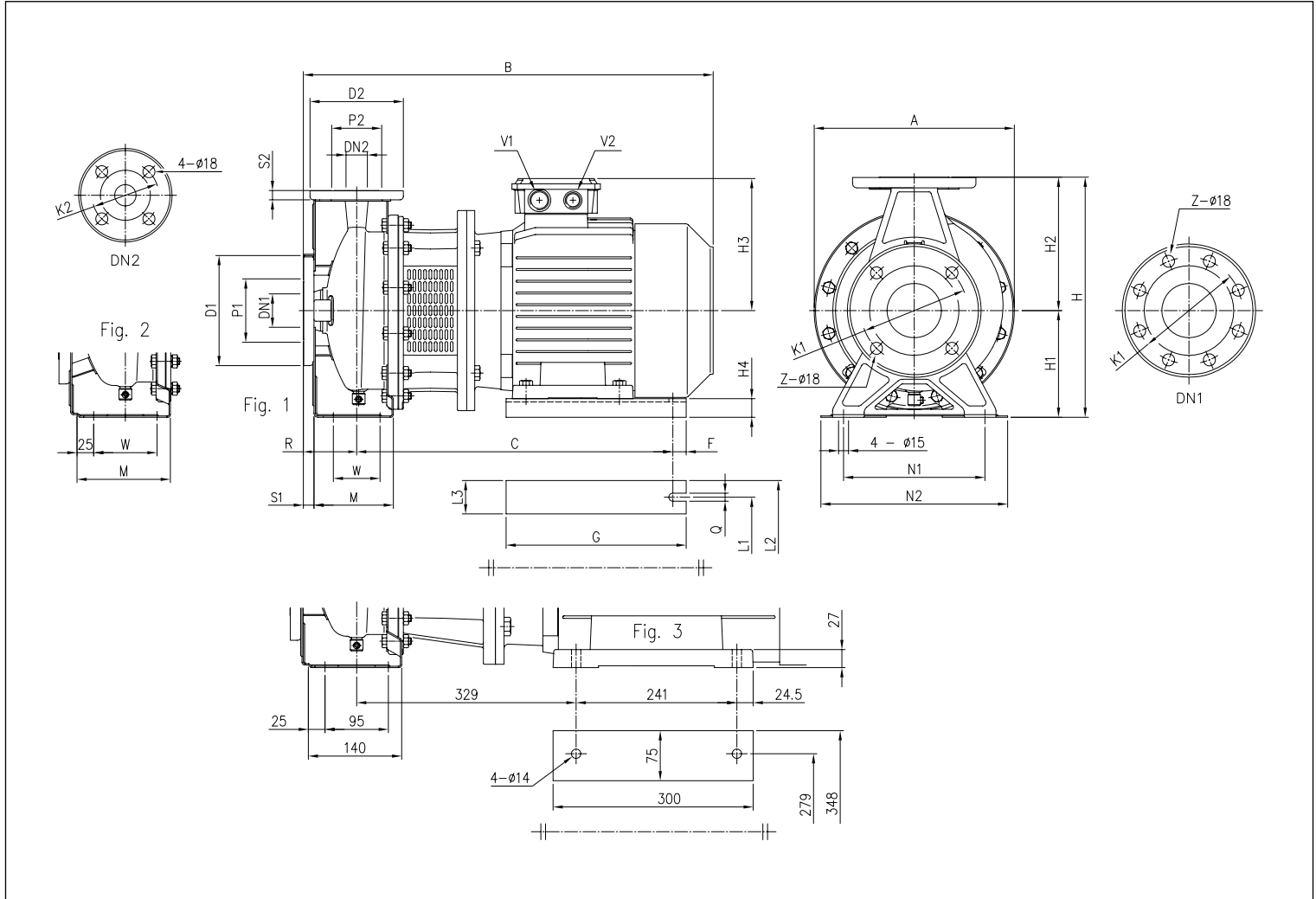


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3 - 3L SERIES

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]																										V1	V2	Weight [Kg]							
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1][2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H1	H2	H3	H4	R	W	M	N1	N2	A	B	C	F				G	Q	L1	L2	L3		
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	87.0	
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	60.0	
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	88.0	
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	138.0	
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	175.0

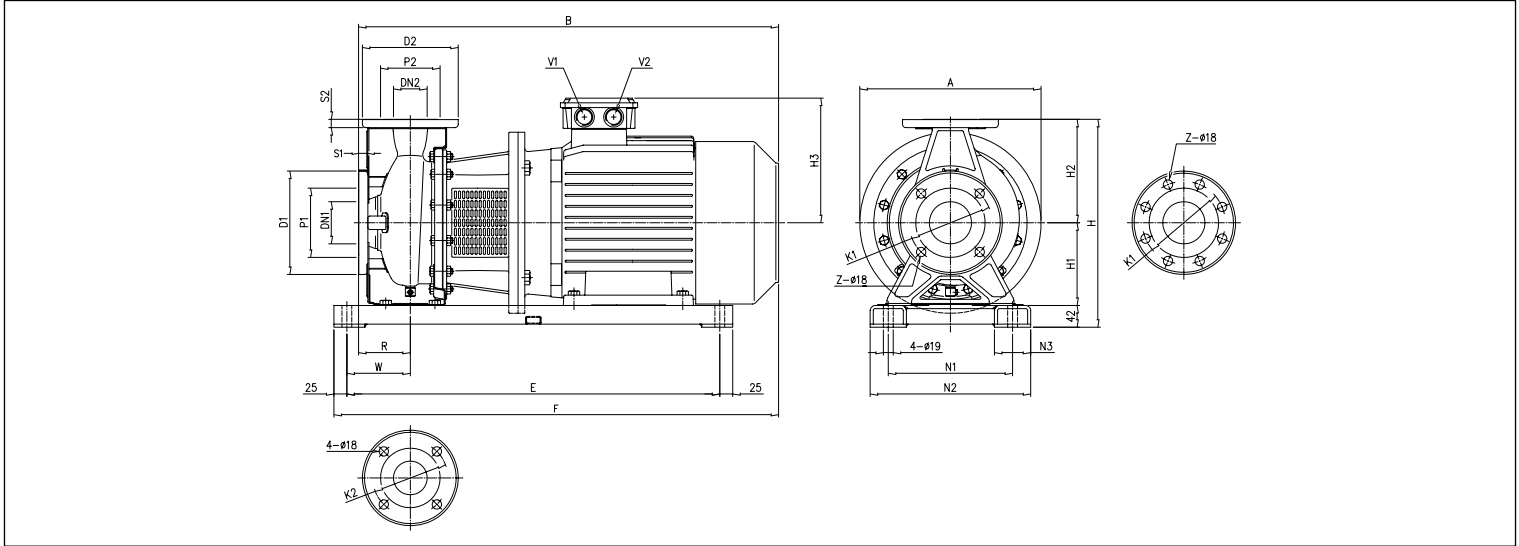
[1] Standard

[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

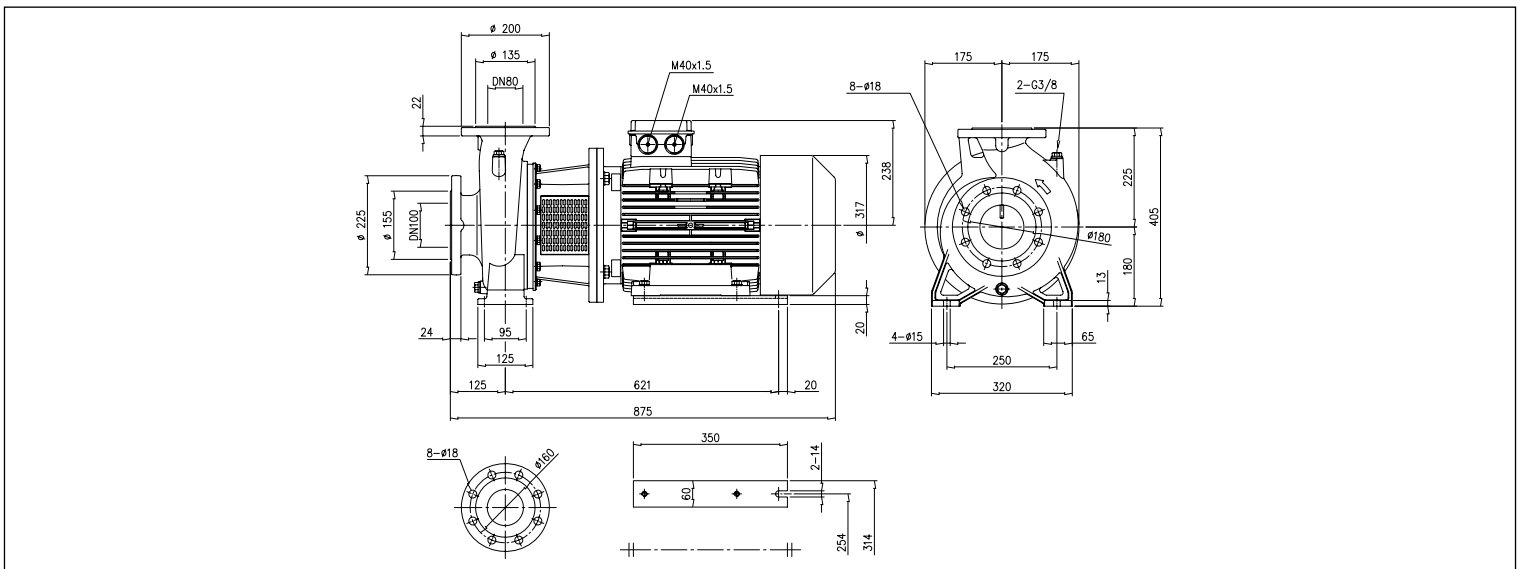


DIMENSIONAL TABLE

Model	Dimensions [mm]																				Weight [Kg]							
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [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	81.0
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	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	90.0
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	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

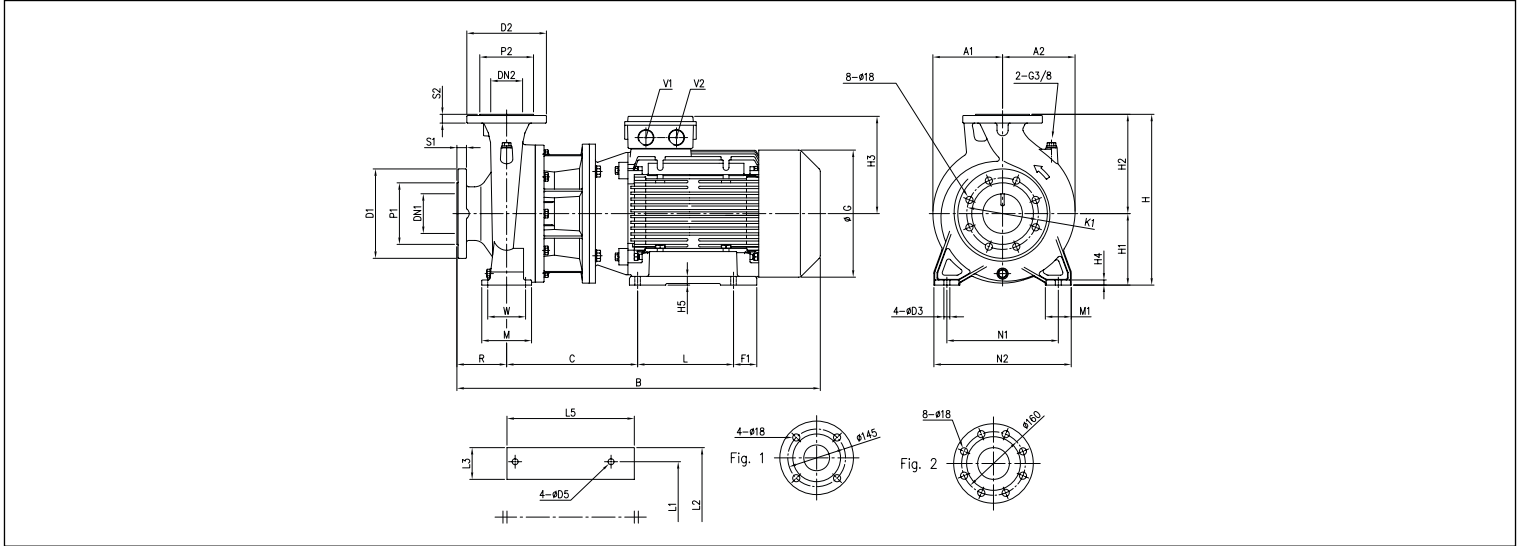
DIMENSIONS 3LS 80-160/18.56



3 - 3L SERIES

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

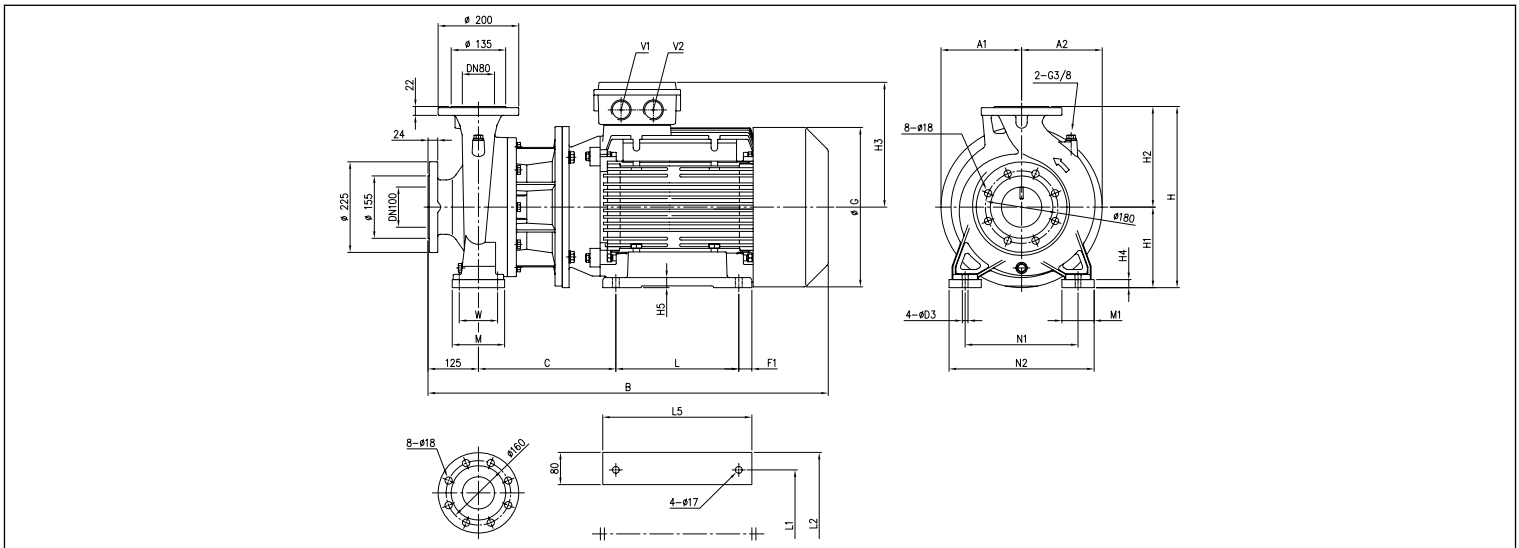
DIMENSIONS 3LS 65-250, 80-160/200



DIMENSIONAL TABLE

Model	Dimensions [mm]																										Weight [Kg]												
	DN1	P1	K1	D1	S1	DN2	P2	K2	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	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	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	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	207.0
80-200/226	100	155	180	225	24	80	Fig. 2	135	200	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	207.0

DIMENSIONS 3LS 80-200/250



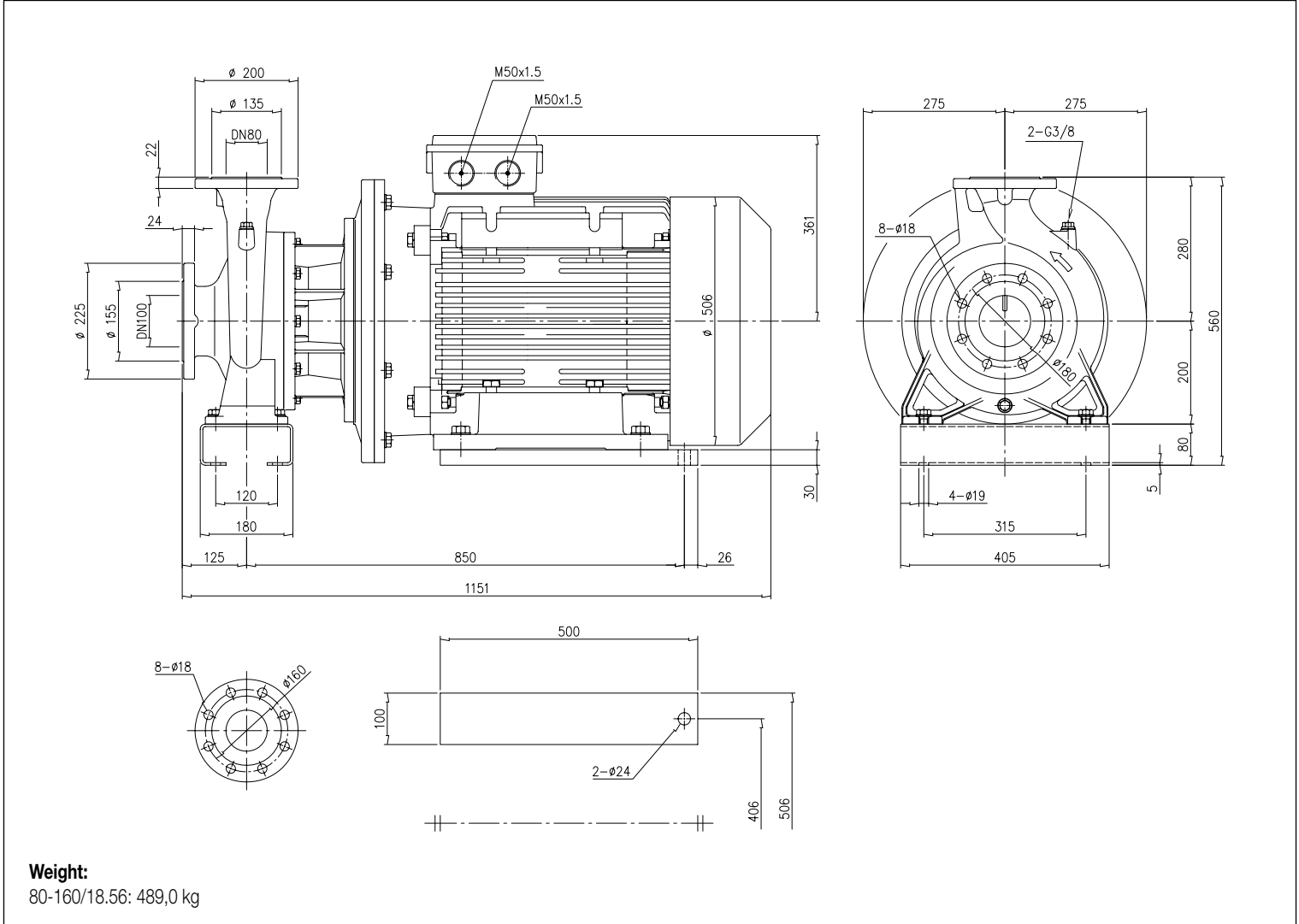
DIMENSIONAL TABLE

Model	Dimensions [mm]																										Weight [Kg]
	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	306.0		
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	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	401.0		

3 - 3L SERIES

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

DIMENSIONS 3LS 80-250/556

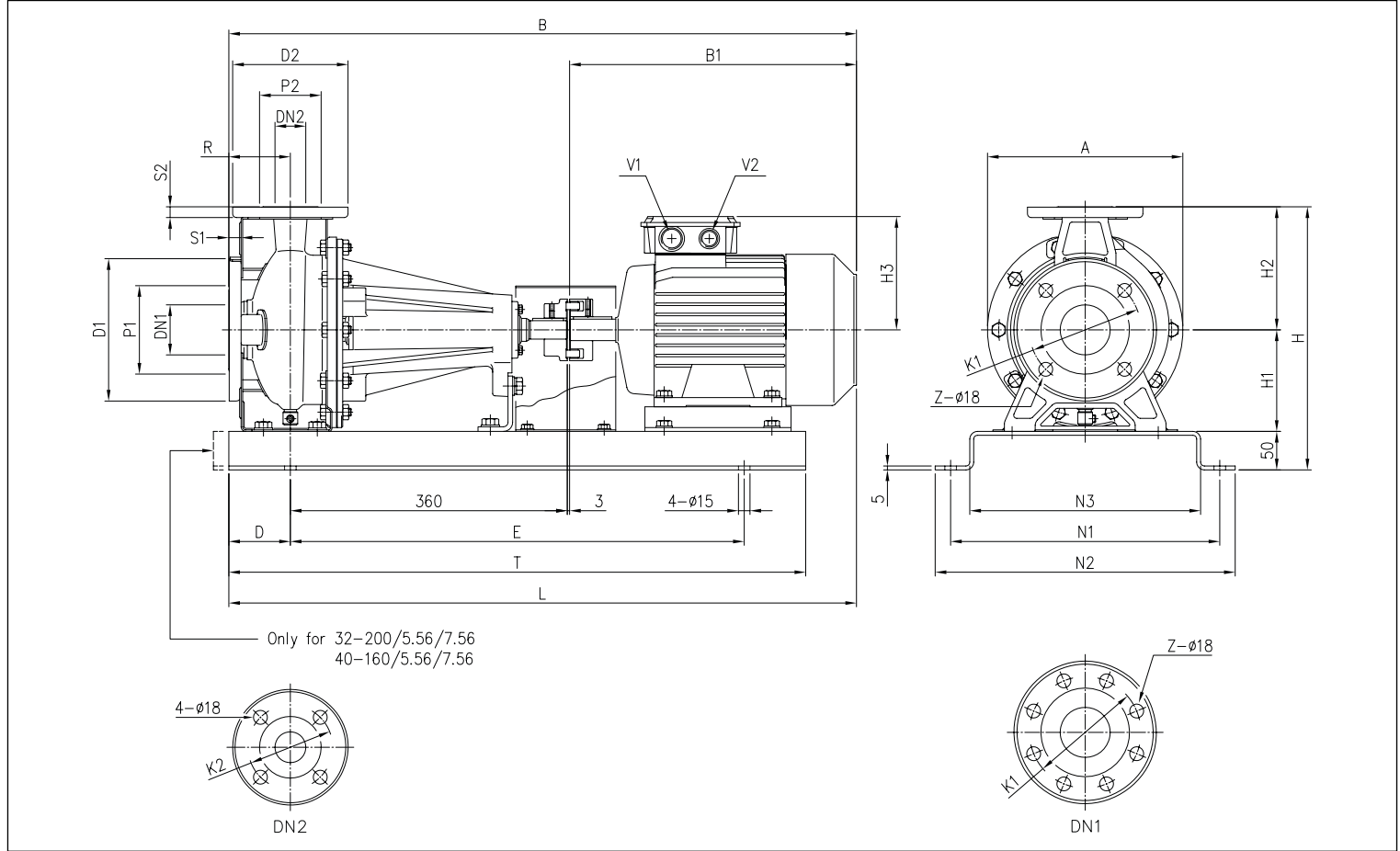


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3 - 3L SERIES

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

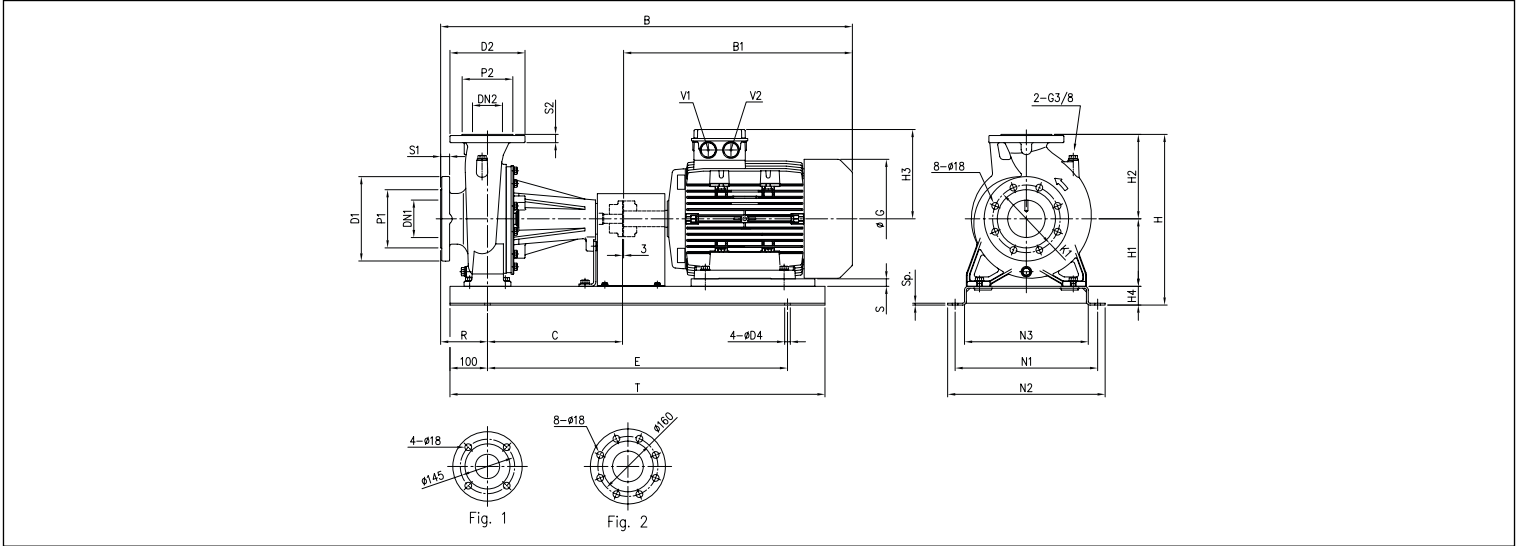
Model	Dimensions [mm]																										Weight [Kg]				
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1 Ø	Z [1] [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2 Ø	H	H1	H2	H3	R	A	B	B1	D	E	N1	N2	N3	T	L	V1	V2		*	
32-125/2.26	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	148	80	213	760	317	80	550	300	340	250	710	760	M25x1.5	M20x1.5	52,5	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	97,0	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	-	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	80,0	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	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	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	-	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	98,0	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	-	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	99,0	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	-	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	-	118,0
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	-	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	-	129,0
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	-	137,0
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	-	189,0

[1] Standard [2] On request

3 - 3L SERIES

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

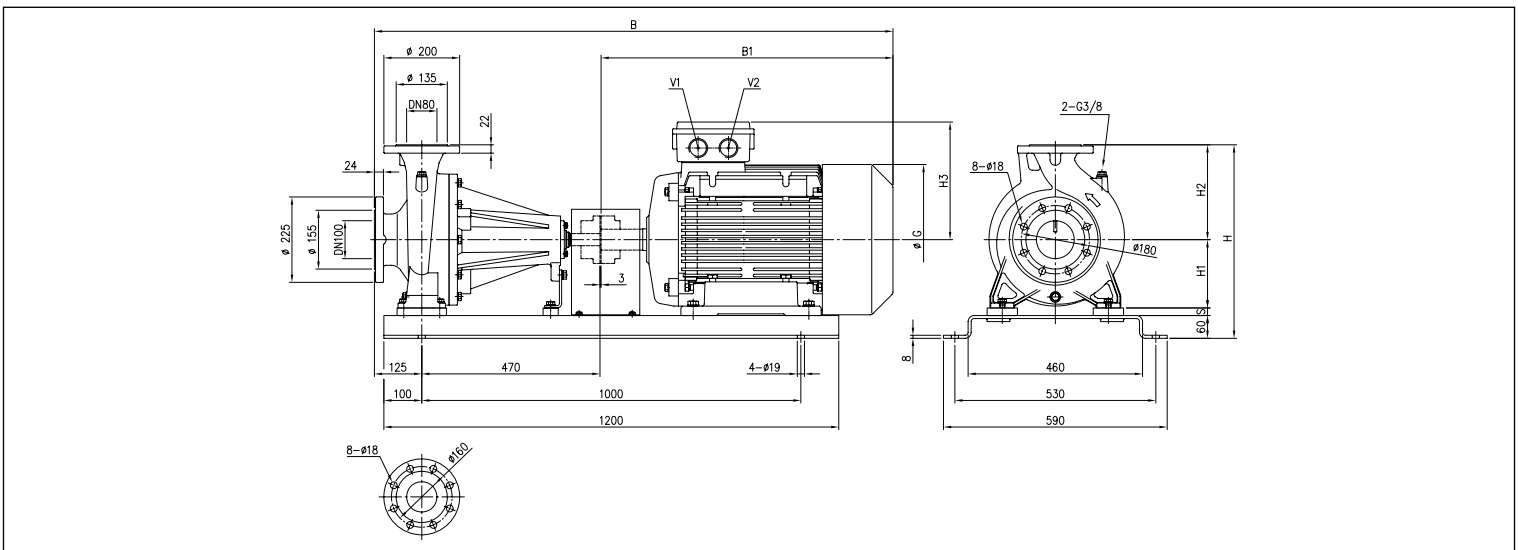
DIMENSIONS 3LP 65-250, 80-160/200



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		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	354,0
65-250/376	80	135	160	200	22	65 Fig. 1	120	185	20	510	200	250	300	60	100	530	590	460	1341	768	470	399	1000	1200	-	19	8	M40x1.5	M40x1.5	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	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	250,0
80-200/226	100	155	180	225	24	80 Fig. 2	135	200	22	490	180	250	268	60	125	530	590	460	1285	687	470	360	1000	1200	-	19	8	M32x1.5	M32x1.5	252,0

DIMENSIONS 3LP 80-200/250



DIMENSIONAL TABLE

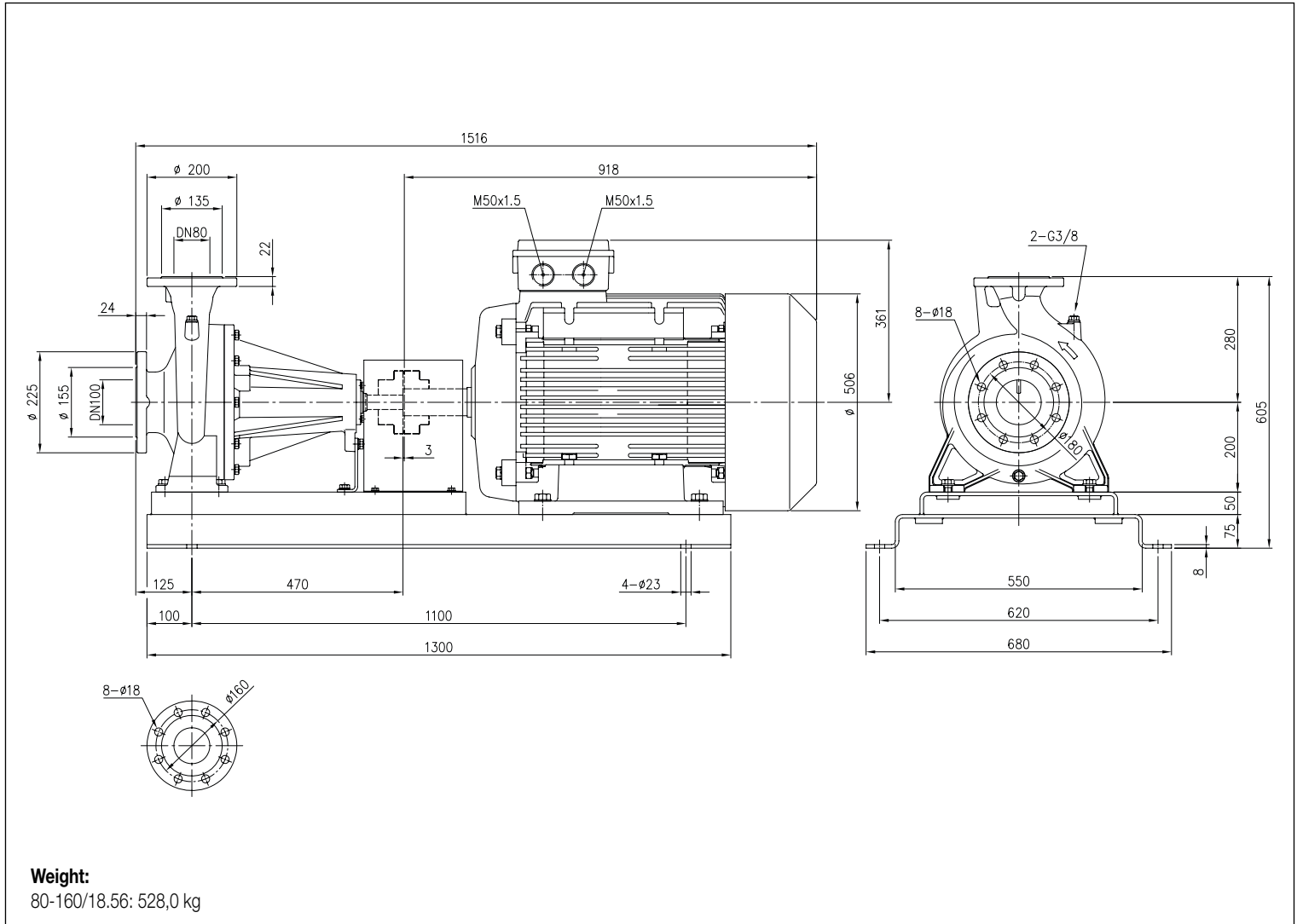
Model	Dimensions [mm]										Weight [Kg]
	H	H1	H2	H3	B	B1	G	S	V1	V2	
80-200/306	510	180	250	300	1366	768	399	20	M40x1.5	M40x1.5	356,0
80-200/376	510	180	250	300	1366	768	399	20	M40x1.5	M40x1.5	365,0
80-250/456	565	200	280	335	1407	809	465	25	M50x1.5	M50x1.5	440,0

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3 - 3L SERIES

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

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

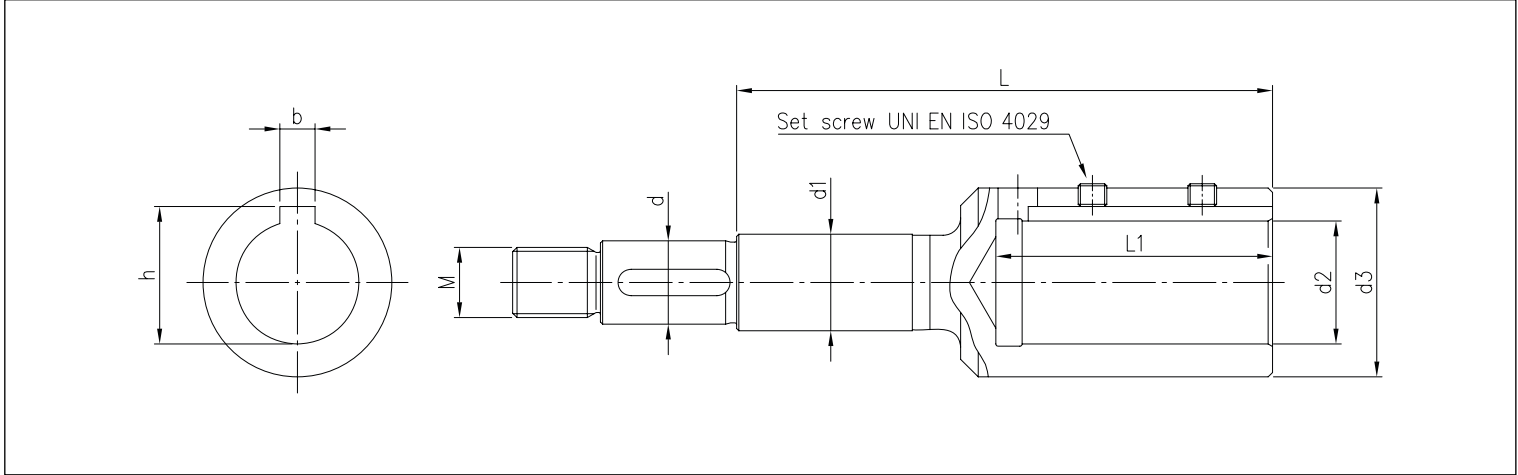


3 - 3L SERIES

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

JOINT FOR 3(L)S SERIES

2 Poles



DIMENSIONAL TABLE

Model	[HP]	[kW]	Motor size	Dimensions [mm]									
				d	d1	d2	d3	M	L	L1	b	h	Screws
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

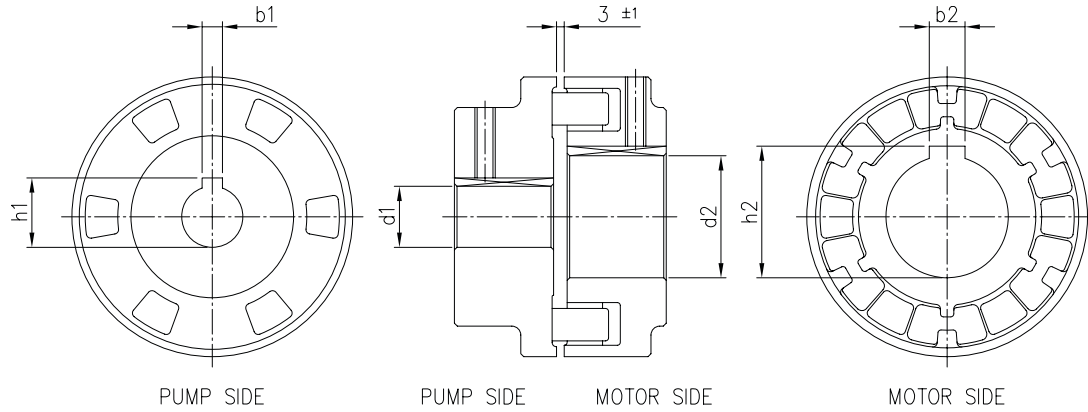
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3 - 3L SERIES

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

JOINT FOR 3(L)P SERIES

2 Poles



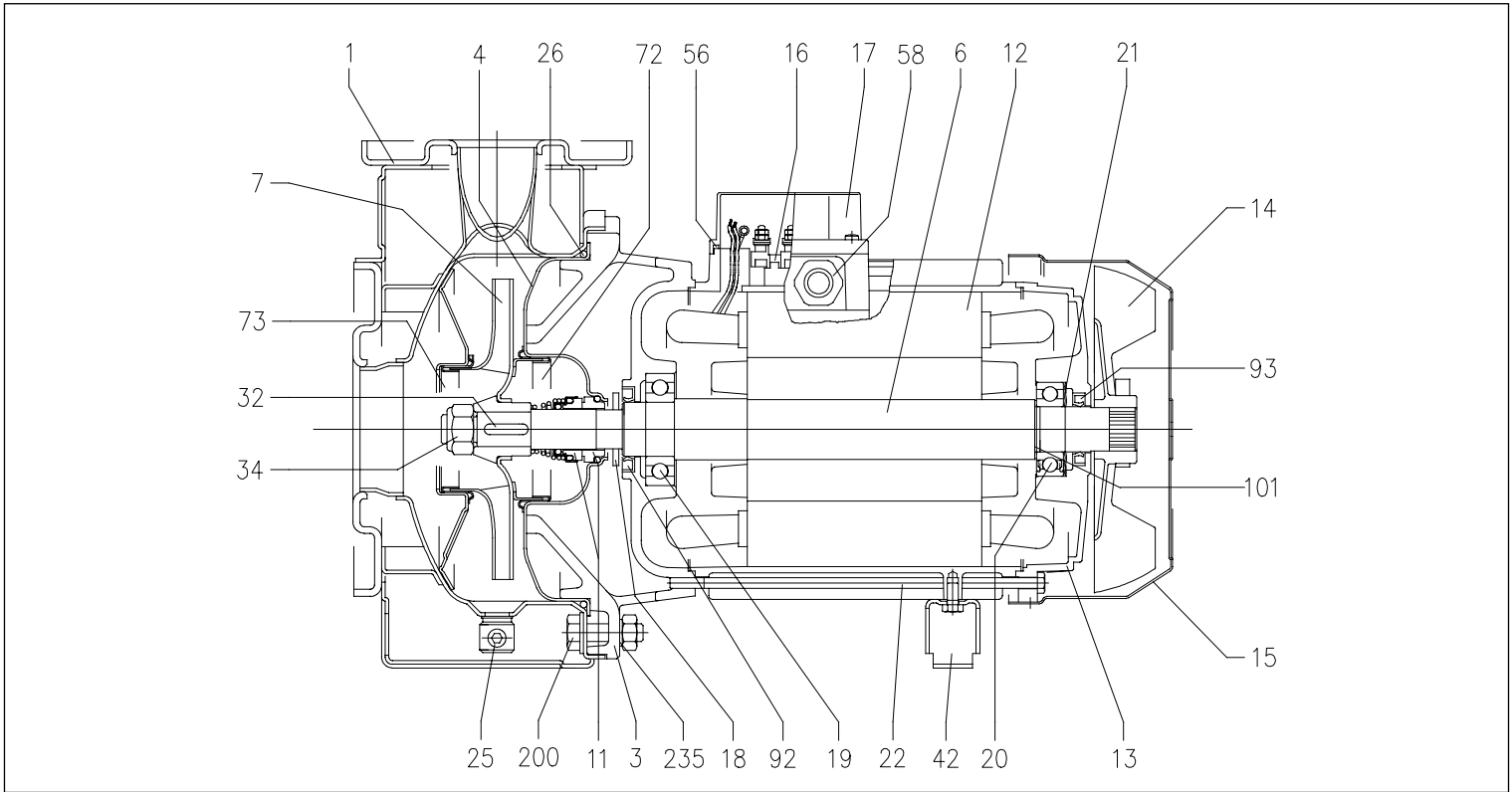
DIMENSIONAL TABLE

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

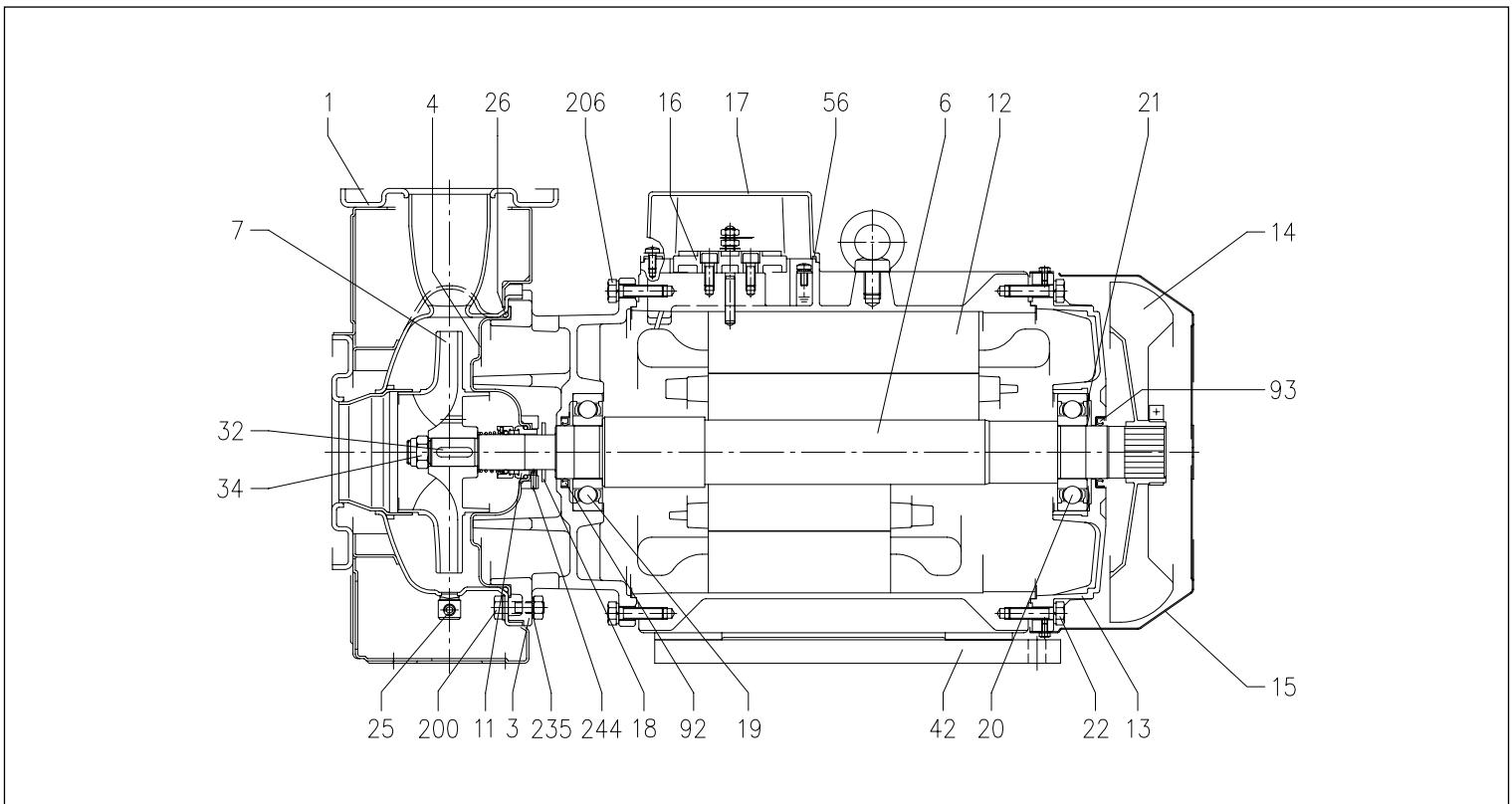
3 - 3L SERIES

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

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



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



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3 - 3L SERIES

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

MATERIALS TABLE

Ref.	Name	Materials	
		3M	3LM
001	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 with rotor-Part in contact with liquid	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 with stator		-
013	Motor cover		Aluminium
014	Fan		PA
015	Fan cover		Fe P04 Zincate
016	Terminal		-
017	Terminal box cover		Aluminium (three phase version)
018	Splash ring	NBR	-
019	Bearing		-
020	Bearing		-
021	Adjusting ring		Steel C70
022	Tie rod		Fe 42 Zincate
025	Draing plug		EN 1.4401 (AISI 316) / PTFE
026	"O" ring	NBR [4]	FPM
032	Key		EN 1.4401 (AISI 316)
034	Impeller nut		A.270 EN ISO 35062 [5]
042	Foot		Aluminium / Galvanised Steel
056	Box gasket		NBR
058	Fasting nut		-
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	Lip Seal		-
093	Lip Seal		-
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

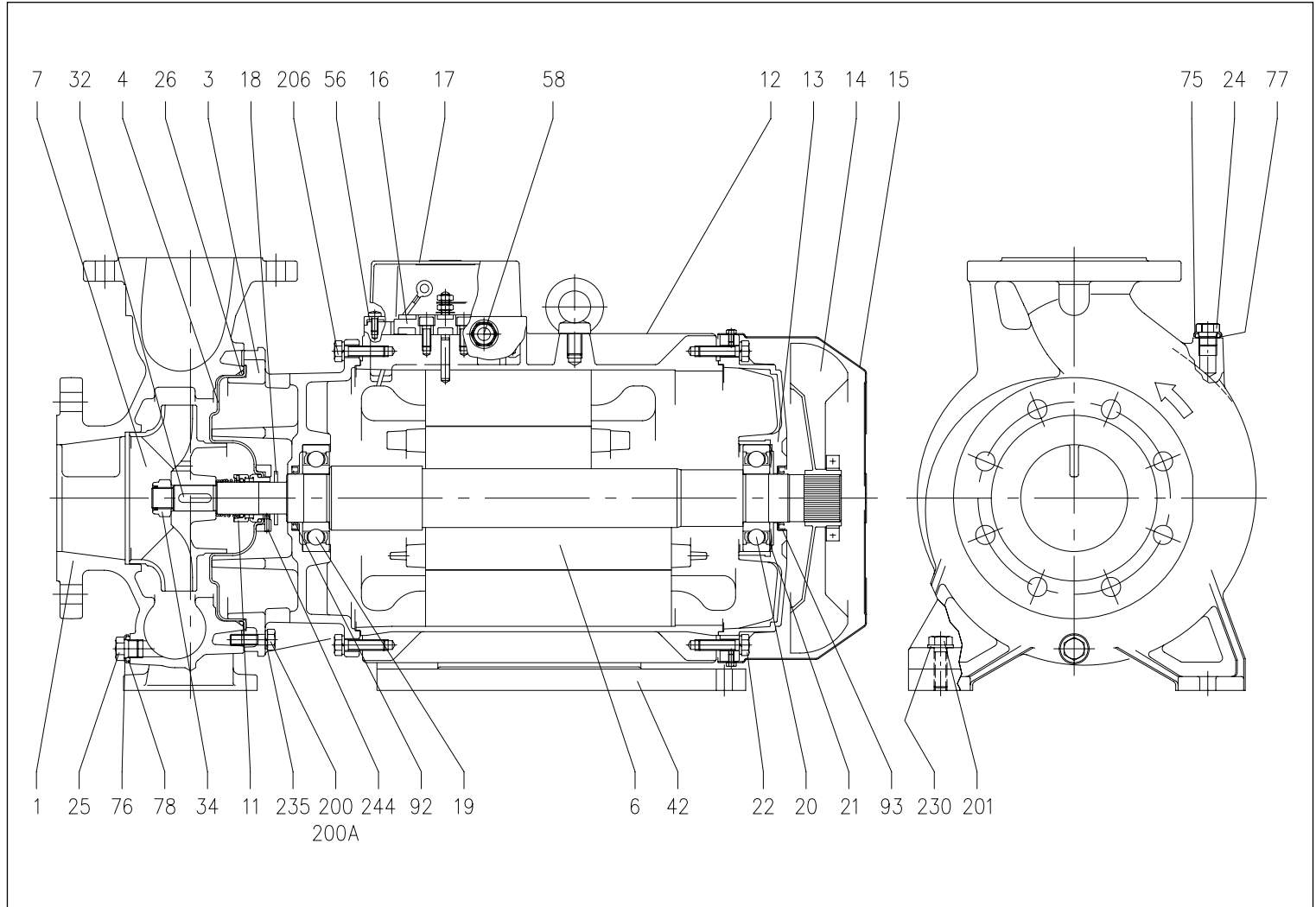
[6]= For 3(L)M 65 from 15kW and above only

[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 SERIES



MATERIALS TABLE

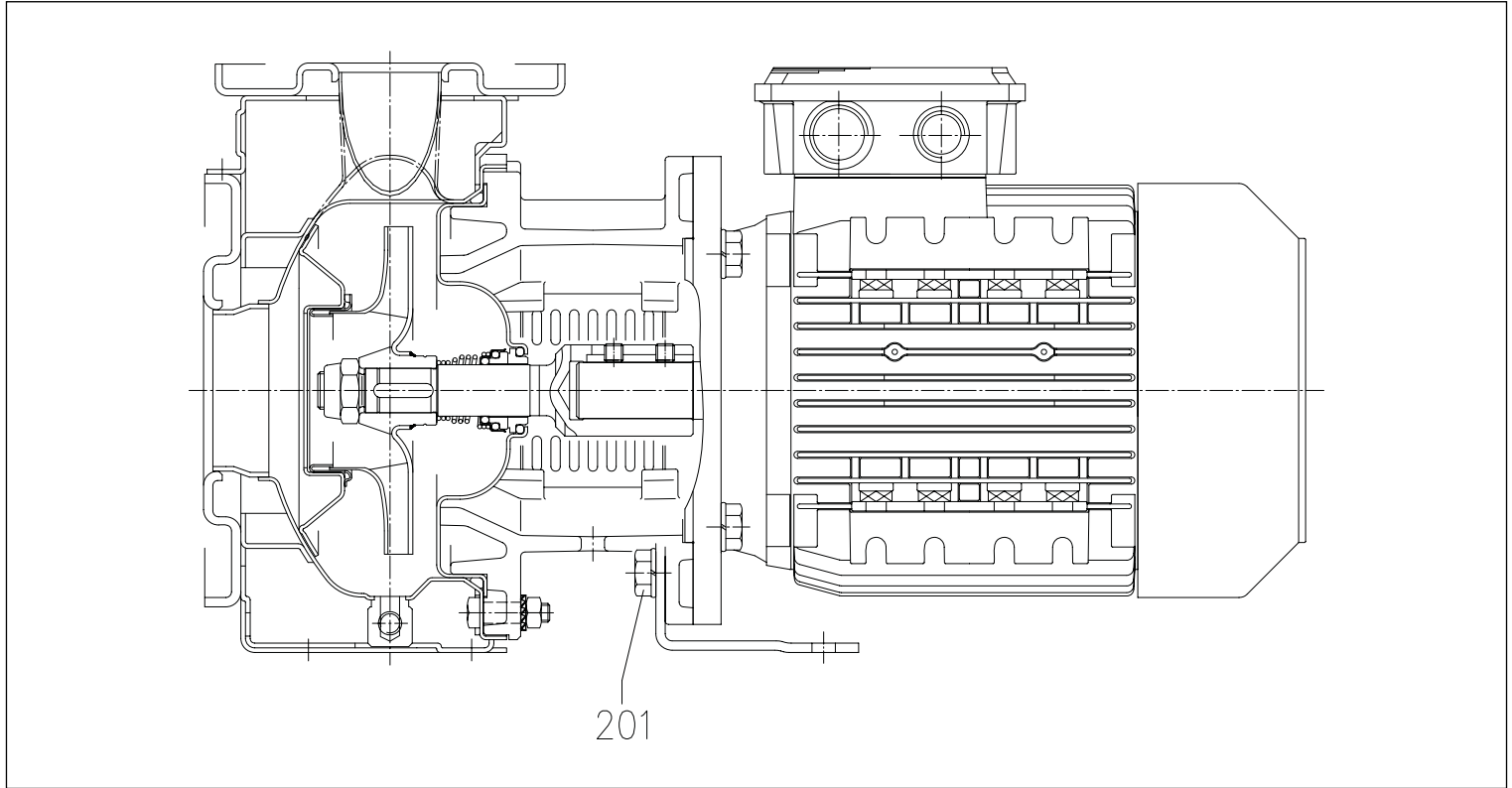
Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	026	O-Ring	FPM
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	032	Key	EN 1.4401 (AISI 316)
004	Casing cover	EN 1.4404 (AISI 316L)	034	Impeller nut	EN 1.4404 (AISI 316L)
006	Shaft with rotor	EN 1.4404 (AISI 316L) - Part in contact 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	Fastening 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 and E versions

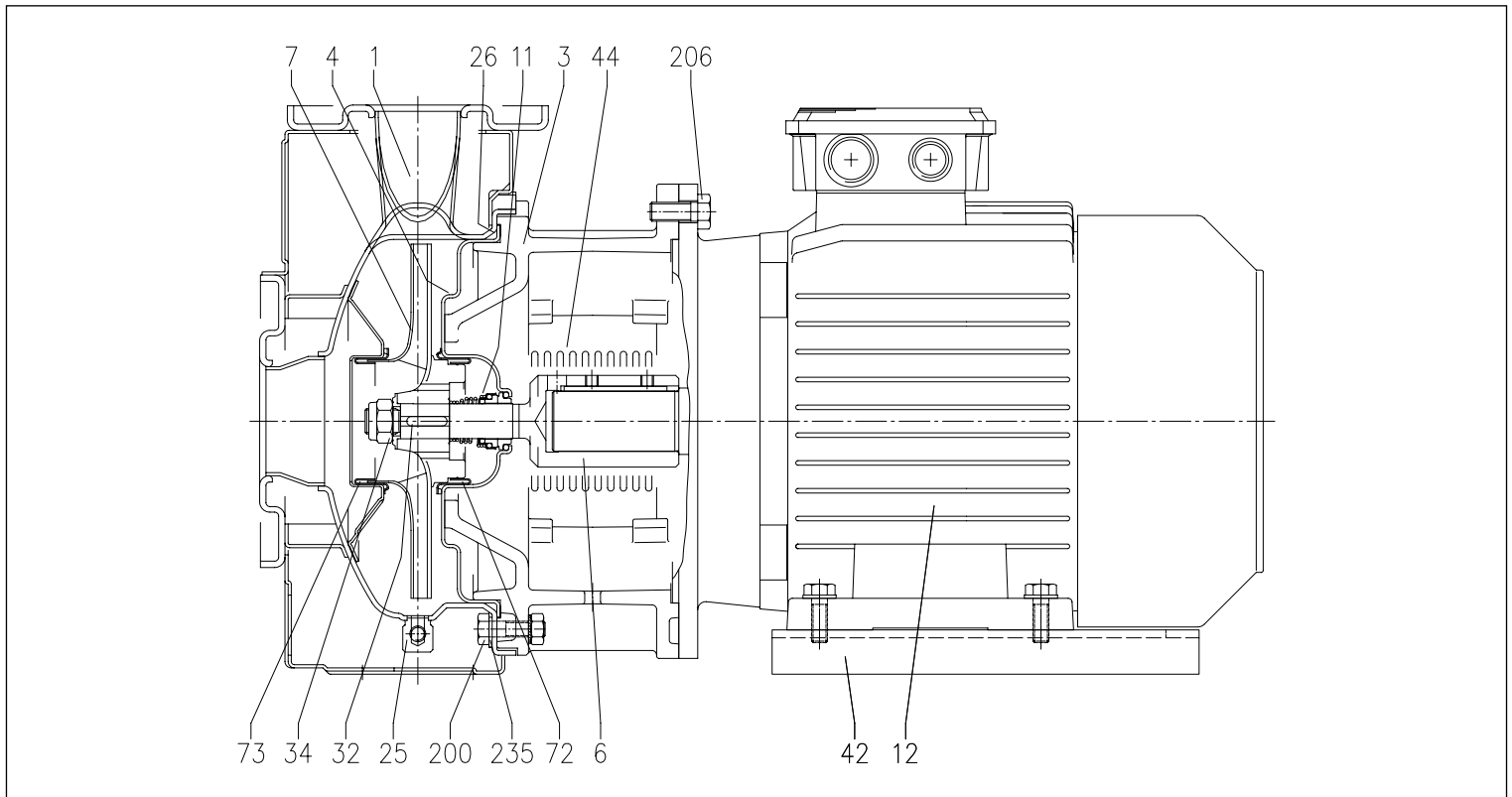
3 - 3L SERIES

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

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



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



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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

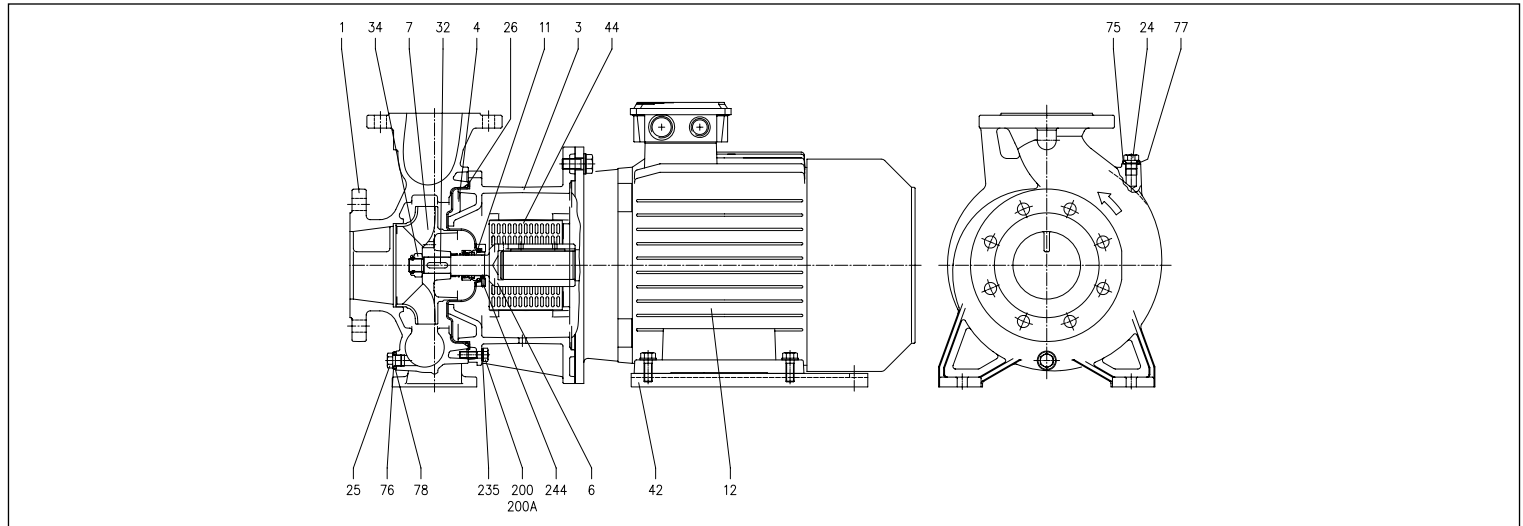
[2]= For 32-200, 40-200, 50-160 versions only

[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 SERIES



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	FPM [2]
012	Motor	-	078	O-Ring	
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)

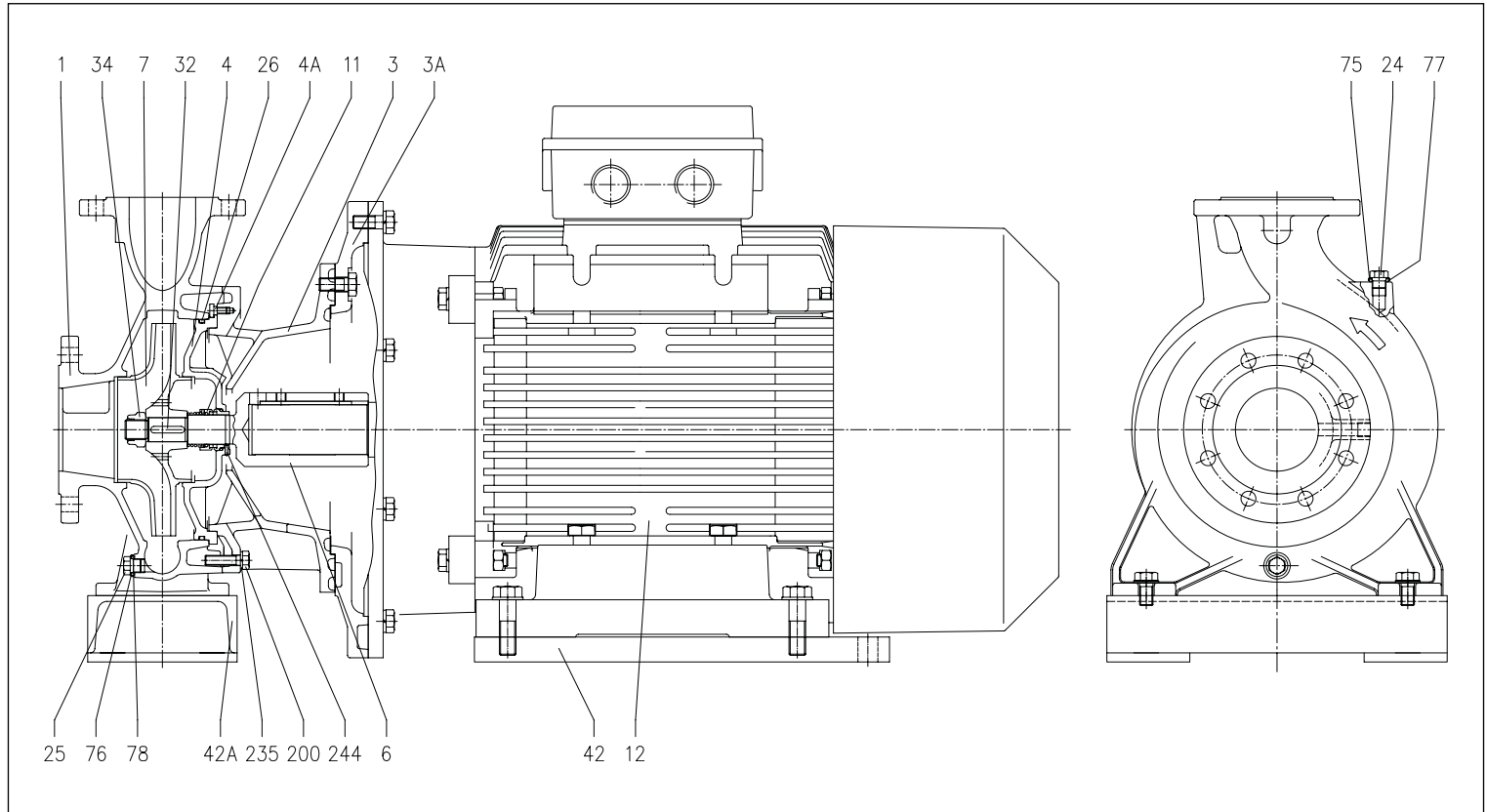
[1]= Not for H, HW, HSW, E version

[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 SERIES



MATERIALS TABLE

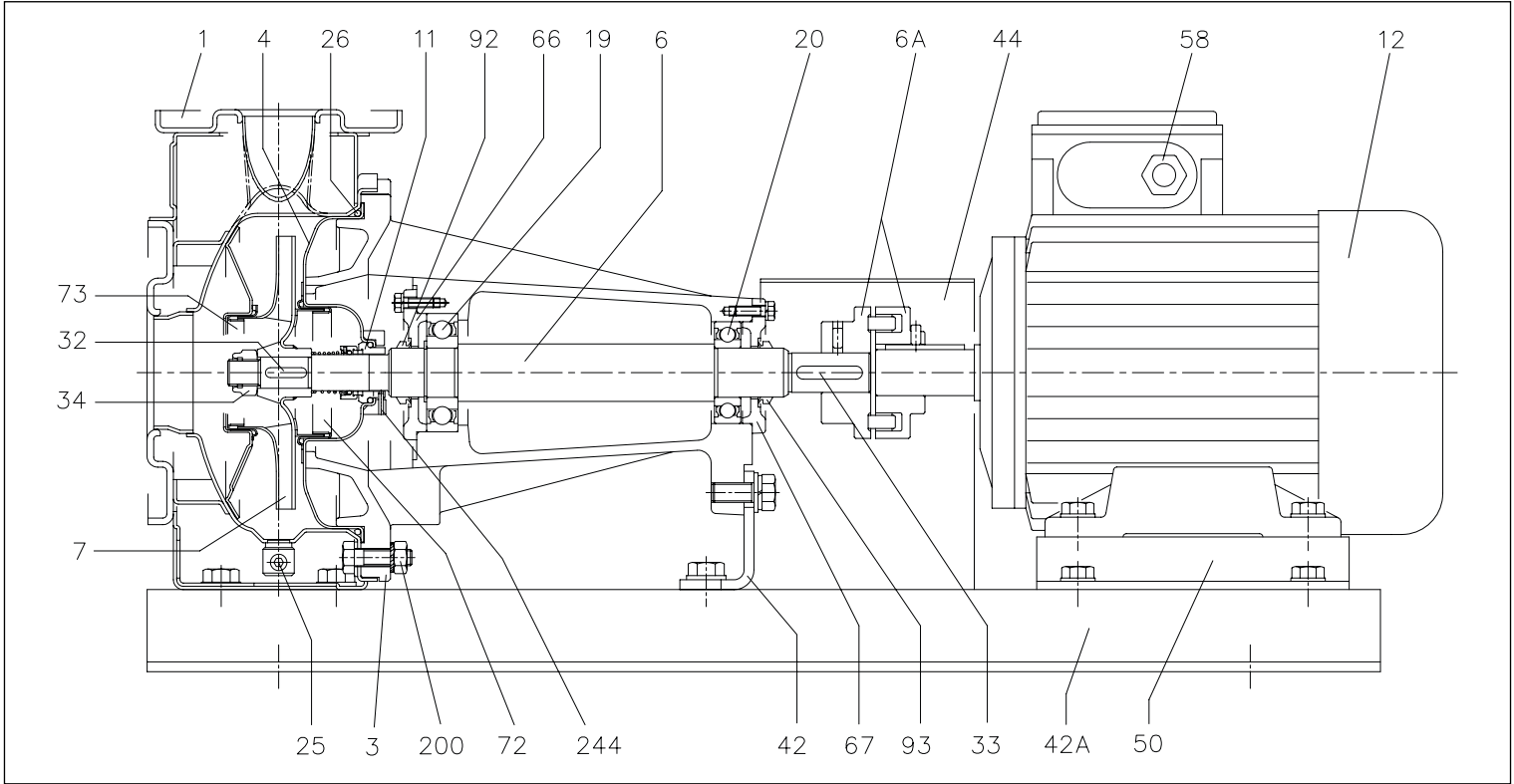
Ref.	Name	Materials	Ref.	Name	Materials
001		EN 1.4401 (AISI 316)			
003		Cast iron EN-GJL-200-EN 1561	032	Key	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm
003A		Cast iron EN-GJL-200-EN 1561			EN 1.4401 (AISI 316)
004		EN 1.4401 (AISI 316)			
004A		EN 1.4301(AISI 304)	034	Impeller nut	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm
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
		80-200 d=24 mm	042	Motor bracket	EN 1.4404 (AISI 316L) for 22 kW
		80-250 d=29 mm	042A	Pump bracket	EN 1.4462 (Duplex stainless steel) for 30-37 kW EN 1.4462 (Duplex stainless steel)
007	Impeller	EN 1.4401 (AISI 316)	075	Washer (plug)	Aluminium
011	Mechanical seal	SiC/SiC/FPM	076	Washer (plug)	EN 1.4404 (AISI 316L)
012	Motor	-	077	O-Ring (plug)	FPM [2]
024	Plug	EN 1.4404 (AISI 316L)	078	O-Ring (plug)	
025	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
026	O-Ring	FPM [2]	235	Washer	C70
			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)P 32, 40, 50, 65-125/160/200 SERIES



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

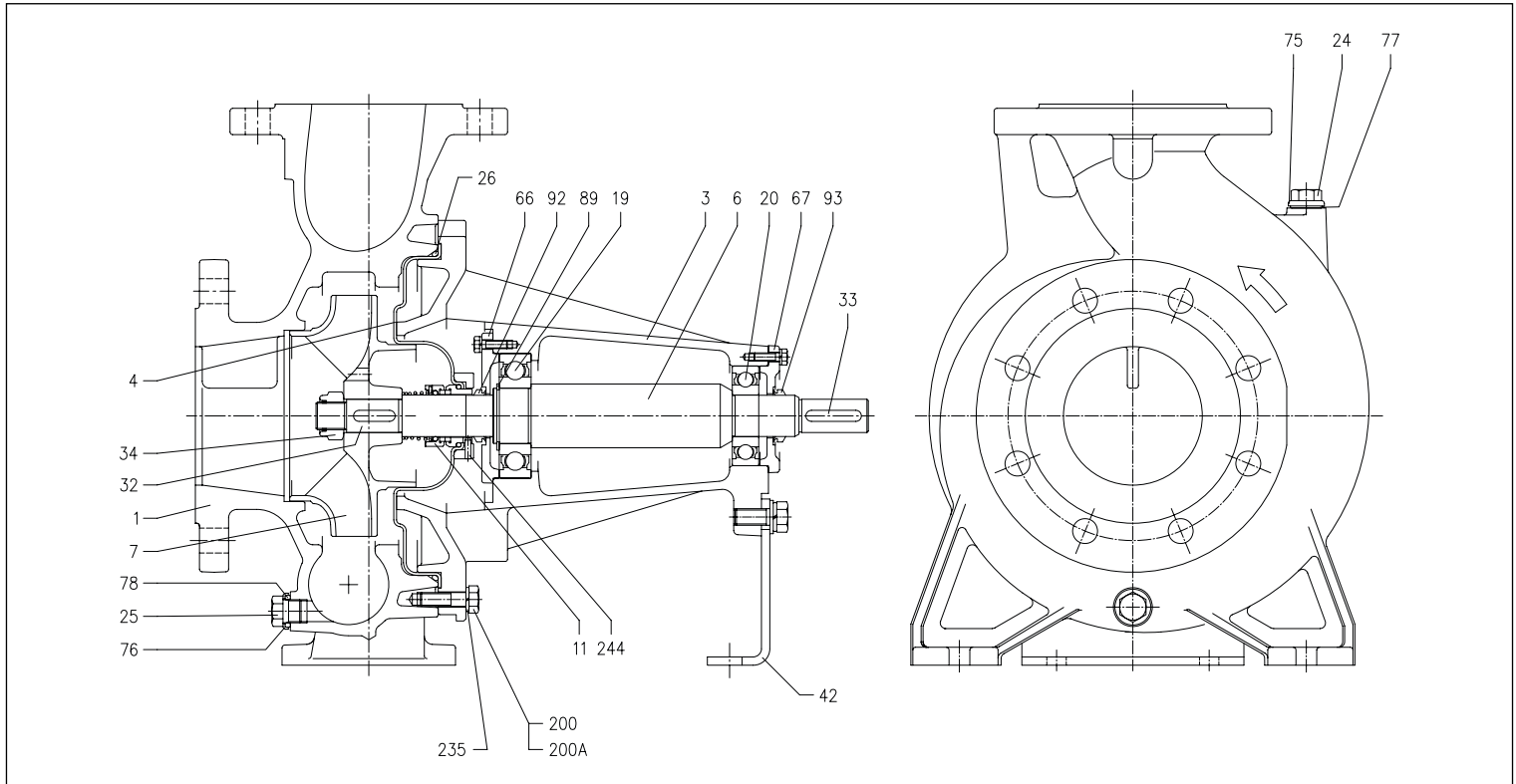
[2]= For 65-160/156 and 65-200 versions only

[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 SERIES



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	Stainless steel A2 70 class ISO 3506/1
033	Key	C 40	200A	Screw	Stainless steel A2 70 class ISO 3506/1
034	Impeller nut	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
042	Motor support	Galvanised Steel	244	Plug [1]	EN 1.4301(AISI 304)
042A	Base	Galvanised Steel			
044	Joint cover	Galvanised Steel			

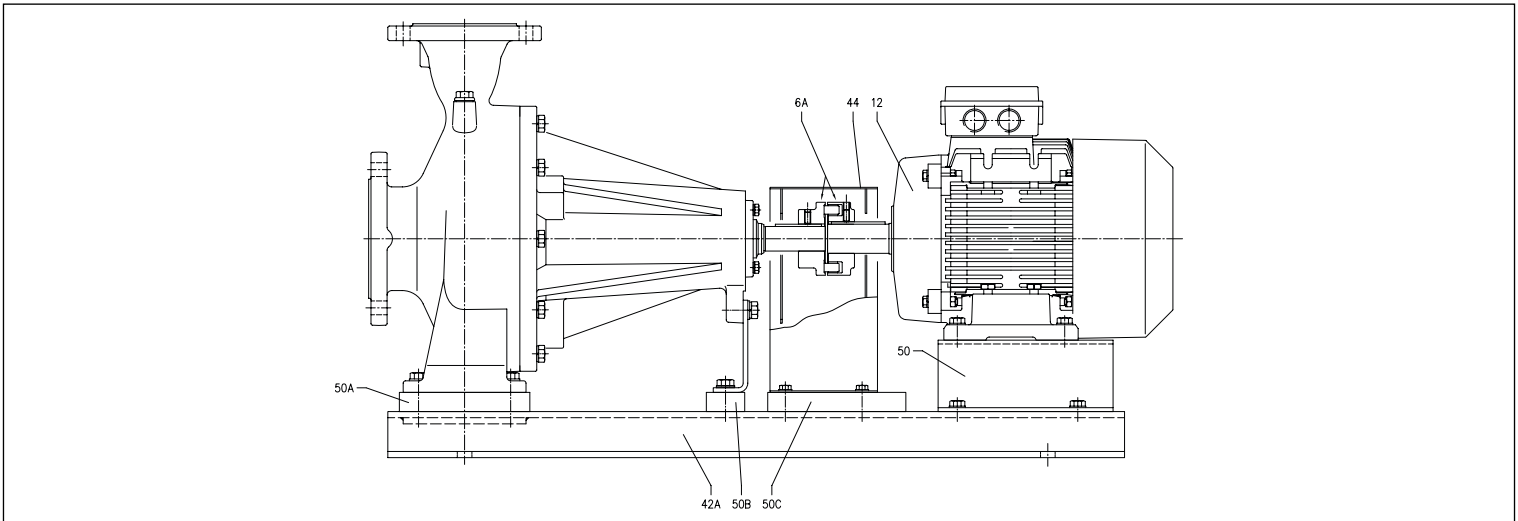
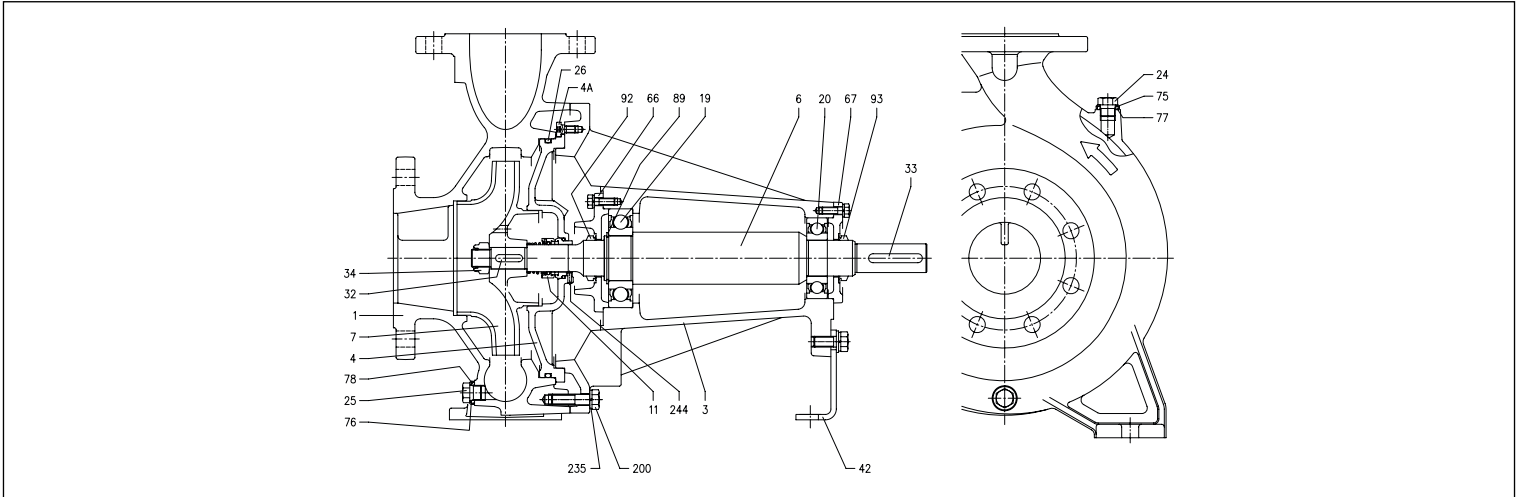
[1]= Not for H, HW, HSW, E version
[2]= EPDM for E version

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3 - 3L SERIES

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

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



MATERIALS TABLE

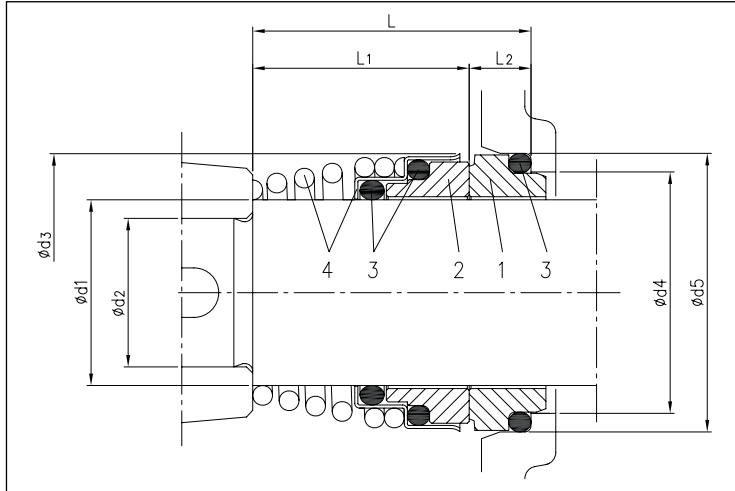
Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042	Motor support	Galvanised steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised steel
004	Casing cover	EN 1.4401 (AISI 316)	044	Joint cover	Galvanised steel
004A	Casing cover screw disc	EN 1.4301 (AISI 304)	050	Motor support (only for 65-250/22 kW)	Aluminium
006	Shaft	EN 1.4462 (Duplex steel) for 30-37 kW	050A	Pump spacer	Aluminium
006A	Joint	Cast iron EN-GJL-200-EN 1561	050B	Pump spacer	Aluminium
007	Impeller	EN 1.4401 (AISI316)	050C	Joint cover spacer	Aluminium
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
012	Motor	-	067	Bracket 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	
024	Plug	EN 1.4404 (AISI 316L)	077	O-Ring	FKM
025	Plug	EN 1.4404 (AISI 316L)	078	O-Ring	
026	O-Ring	FKM	089	Seeger ring	Carbon steel TC 80
032	Key	65-250 d=24 mm	092	V Ring	-
		65-250 d=24 mm	093	V Ring	-
		80-250 d=29 mm	200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
033	Key	C 40	235	Washer	EN 1.4301 (AISI 304)
			244	Plug [1]	EN 1.4301 (AISI 304)
034	Impeller nut	65-250 d=24 mm			
		65-250 d=24 mm			
		80-250 d=29 mm			

[1] = Not for H and E versions

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	Materials				
	H Version	HS Version	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 3L SERIES (On request)

Name	Materials				
	H Version	HW Version	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 3 | 80-250 SERIES 2 poles

** Available only for 3 | 80-250 SERIES 2 poles

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		Efficiency	Efficiency(%) Three phase			P ₁ Single phase [kW]	Absorbed Current [A]					
	[kW]	[HP]		η %	50%	75%		100%	Single phase 230V	Three phase			690V
										230V	400V	690V	
3(L)M 32-125/2.26	2.2	3.0	-	80.5	83.3	83.5	2.9	7.0	4.1	4.1	-		
3(L)M 32-125/2.26	2.2	3.0	IE3*	88.9	88.8	87.2	2.5	7.5	4.3	4.1	-		
3(L)M 32-160/3.06	3.0	4.0	-	84.0	85.9	85.2	3.9	10.5	6.1	5.6	-		
3(L)M 32-160/3.06	3.0	4.0	IE3*	88.6	86.1	87.5	3.4	10.2	5.9	5.6	-		
3(L)M 32-160/4.06	4.0	5.5	-	83.2	85.8	86.1	5.1	14.7	8.5	8.0	-		
3(L)M 32-160/4.06	4.0	5.5	IE3*	89.7	89.6	88.6	4.5	13.5	7.8	7.6	-		
3(L)M 32-200/5.56	5.5	7.5	-	83.4	85.3	85.7	7.0	-	11.6	9.5	6.7		
3(L)M 32-200/5.56	5.5	7.5	IE3*	90.4	90.9	90.4	6.0	17.4	10.1	8.9	5.8		
3(L)M 32-200/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	8.3	23.5	13.6	11.9	7.8		
3(L)M 40-125/3.06	3.0	4.0	-	84.0	85.9	85.2	3.9	10.5	6.1	5.6	-		
3(L)M 40-125/3.06	3.0	4.0	IE3*	91.2	90.9	87.5	3.4	10.2	5.9	5.6	-		
3(L)M 40-125/4.06	4.0	5.5	-	83.2	85.8	86.1	5.1	14.7	8.5	8.0	-		
3(L)M 40-125/4.06	4.0	5.5	IE3*	89.7	89.6	88.6	4.5	13.5	7.8	7.6	-		
3(L)M 40-160/5.56	5.5	7.5	-	83.4	85.3	85.7	7.0	-	11.6	9.5	6.7		
3(L)M 40-160/5.56	5.5	7.5	IE3*	90.4	90.9	90.4	6.0	17.4	10.1	8.9	5.8		
3(L)M 40-160/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	8.3	23.5	13.6	11.9	7.8		
3(L)M 40-200/116	11.0	15.0	IE3*	90.3	91.2	91.2	10.1	-	16.9	14.9	9.7		
3(L)M 40-200/156	15.0	20.0	IE3*	92.5	92.7	92.1	16.2	46.9	27.1	23.9	15.7		
3(L)M 50-125/5.56	5.5	7.5	-	83.4	85.3	85.7	7.0	-	11.6	9.5	6.7		
3(L)M 50-125/5.56	5.5	7.5	IE3*	90.4	90.9	90.4	6.0	17.4	10.1	8.9	5.8		
3(L)M 50-125/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	8.3	23.5	13.6	11.9	7.8		
3(L)M 50-160/116	11.0	15.0	IE3*	90.3	91.2	91.2	10.1	-	16.9	14.9	9.7		
3(L)M 50-160/156	15.0	20.0	IE3*	92.5	92.7	92.1	16.2	46.9	27.1	23.9	15.7		
3(L)M 65-125/5.56	5.5	7.5	-	83.4	85.3	85.7	7.0	-	11.6	9.5	6.7		
3(L)M 65-125/5.56	5.5	7.5	IE3*	90.4	90.9	90.4	6.0	17.4	10.1	8.9	5.8		
3(L)M 65-125/7.56	7.5	10.0	IE3*	90.0	90.6	90.3	8.3	23.5	13.6	11.9	7.8		
3(L)M 65-160/9.26	9.2	13.0	IE3*	90.3	91.2	91.2	10.1	-	16.9	14.9	9.7		
3(L)M 65-160/116	11.0	15.0	IE3*	91.9	91.8	91.2	12.1	-	20.3	18.5	11.7		
3(L)M 65-160/156	15.0	20.0	IE3*	92.5	92.7	92.1	16.2	46.9	27.1	23.9	15.7		
3(L)M 65-200/156	15.0	20.0	IE3*	92.5	92.7	92.1	16.2	46.9	27.1	23.9	15.7		
3(L)M 65-200/18.56	18.5	25.0	IE3*	92.2	92.9	92.7	19.9	-	33.5	30.3	19.3		
3(L)M 65-200/226	22.0	30.0	IE3*	92.4	92.7	92.7	23.7	-	39.5	34.5	22.8		
3LM 80-160/18.56	18.5	25.0	IE3*	92.2	92.9	92.7	19.9	-	33.5	30.3	19.3		
3LM 80-160/226	22.0	30.0	IE3*	92.4	92.7	92.7	23.7	-	39.5	34.5	22.8		

* only for 460 V

3 - 3L SERIES

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

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

Model		Motor			Efficiency	Efficiency (%) and power factor				Absorbed Current [A]	
		Motor	[kW]	P ₂ [HP]		50%	η % 75%	100%	cos φ	265V	460V
3(L)S 32-125/2.26	3(L)P 32-125/2.26	90L	2.2	3	-	79.6	83.2	84.3	0.81	7.1	4.1
3(L)S 32-125/2.26	3(L)P 32-125/2.26	90L	2.2	3	IE2	86.0	86.4	86.5	0.82	6.8	3.9
3(L)S 32-160/3.06	3(L)P 32-160/3.06	100L	3	4	-	80.7	84.4	85.5	0.86	9.0	5.2
3(L)S 32-160/3.06	3(L)P 32-160/3.06	100L	3	4	IE2	86.4	87.8	87.5	0.90	8.3	4.8
3(L)S 32-160/4.06	3(L)P 32-160/4.06	112M	4	5.5	-	81.3	84.2	85.0	0.83	12.3	7.1
3(L)S 32-160/4.06	3(L)P 32-160/4.06	112M	4	5.5	IE2	84.2	86.2	87.5	0.92	10.9	6.3
3(L)S 32-200/5.56	3(L)P 32-200/5.56	132S	5.5	7.5	-	83.5	86.6	87.8	0.84	-	9.3
3(L)S 32-200/5.56	3(L)P 32-200/5.56	132S	5.5	7.5	IE2	87.2	88.7	89.1	0.91	-	8.6
3(L)S 32-200/7.56	3(L)P 32-200/7.56	132S	7.5	10	-	89.8	90.1	89.7	0.93	-	11.4
3(L)S 40-125/3.06	3(L)P 40-125/3.06	100L	3	4	-	80.7	84.4	85.5	0.86	9.0	5.2
3(L)S 40-125/3.06	3(L)P 40-125/3.06	100L	3	4	IE2	86.4	87.8	87.5	0.90	8.3	4.8
3(L)S 40-125/4.06	3(L)P 40-125/4.06	112M	4	5.5	-	81.3	84.2	85.0	0.83	12.3	7.1
3(L)S 40-125/4.06	3(L)P 40-125/4.06	112M	4	5.5	IE2	84.2	86.2	87.5	0.92	10.9	6.3
3(L)S 40-160/5.56	3(L)P 40-160/5.56	132S	5.5	7.5	-	83.5	86.6	87.8	0.84	-	9.3
3(L)S 40-160/5.56	3(L)P 40-160/5.56	132S	5.5	7.5	IE2	87.2	88.7	89.1	0.91	-	8.6
3(L)S 40-160/7.56	3(L)P 40-160/7.56	132S	7.5	10	-	89.8	90.1	89.7	0.93	-	11.4
3(L)S 40-200/116	3(L)P 40-200/116	160M	11	15	-	87.2	89.5	90.9	0.88	-	17.3
3(L)S 40-200/156	3(L)P 40-200/156	160M	15	20	IE2	90.9	92.3	91.8	0.88	-	23.3
3(L)S 50-125/5.56	3(L)P 50-125/5.56	132S	5.5	7.5	-	83.5	86.6	87.8	0.84	-	9.3
3(L)S 50-125/5.56	3(L)P 50-125/5.56	132S	5.5	7.5	IE2	87.2	88.7	89.1	0.91	-	8.6
3(L)S 50-125/7.56	3(L)P 50-125/7.56	132S	7.5	10	-	89.8	90.1	89.7	0.93	-	11.4
3(L)S 50-160/116	3(L)P 50-160/116	160M	11	15	IE2	87.2	89.5	90.9	0.88	-	17.3
3(L)S 50-160/156	3(L)P 50-160/156	160M	15	20	IE2	90.9	92.3	91.8	0.88	-	23.3
3(L)S 65-125/5.56	3(L)P 65-125/5.56	132S	5.5	7.5	-	83.5	86.6	87.8	0.84	-	9.3
3(L)S 65-125/5.56	3(L)P 65-125/5.56	132S	5.5	7.5	IE2	87.2	88.7	89.1	0.91	-	8.6
3(L)S 65-125/7.56	3(L)P 65-125/7.56	132S	7.5	10	-	89.8	90.1	89.7	0.93	-	11.4
3(L)S 65-160/9.26	3(L)P 65-160/9.26	132M	9.2	12.5	IE2	85.0	88.6	90.0	0.90	-	14.2
3(L)S 65-160/116	3(L)P 65-160/116	160M	11	15	IE2	87.2	89.5	90.9	0.88	-	17.3
3(L)S 65-160/156	3(L)P 65-160/156	160M	15	20	IE2	90.9	92.3	91.8	0.88	-	23.3
3(L)S 65-200/156	3(L)P 65-200/156	160M	15	20	IE2	90.9	92.3	91.8	0.88	-	23.3
3(L)S 65-200/18.56	3(L)P 65-200/18.56	160L	18.5	25	IE2	90.3	92.0	91.7	0.88	-	28.8
3(L)S 65-200/226	3(L)P 65-200/226	180M	22	30	IE2	91.8	93.0	93.4	0.89	-	33.0
3(L)S 65-250/306	3(L)P 65-250/306	200L	30	40	IE2	92.7	94.0	94.2	0.87	-	46.0
3(L)S 65-250/376	3(L)P 65-250/376	200L	37	50	IE2	93.0	94.3	94.5	0.88	-	55.0
3(L)S 80-160/18.56	3(L)P 80-160/18.56	160L	18.5	25	IE2	90.3	92.0	91.7	0.88	-	28.8
3(L)S 80-160/226	3(L)P 80-160/226	180M	22	30	IE2	91.8	93.0	93.4	0.89	-	33.0
3(L)S 80-200/226	3(L)P 80-200/226	180M	22	30	IE2	91.8	93.0	93.4	0.89	-	33.0
3(L)S 80-200/306	3(L)P 80-200/306	200L	30	40	IE2	92.7	94.0	94.2	0.87	-	46.0
3(L)S 80-200/376	3(L)P 80-200/376	200L	37	50	IE2	93.0	94.3	94.5	0.88	-	55.0
3(L)S 80-250/456	3(L)P 80-250/456	225M	45	60	IE2	92.6	94.1	94.9	0.92	-	65.0
3(L)S 80-250/556	3(L)P 80-250/556	250M	55	75	IE2	92.8	93.8	94.4	0.91	-	81.0

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