

Multistage Horizontal Centrifugal Pump

Comeo

Type Series Booklet



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Type Series Booklet Comeo

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Centrifugal Pumps

Multistage Horizontal Centrifugal Pumps

Comeo



Installation

- Horizontal installation

Drive

- AC motor / three-phase asynchronous motor
- To IEC 60034-7
- Efficiency class IE3 to IEC 60034-30 (for three-phase motors ≥ 0.75 kW)
- Frequency 50 Hz/60 Hz
- 2 poles
- Thermal class F
- Enclosure IP55
- Duty type: continuous duty S1
- Temperature protection switch with automatic reset for single-phase AC motor

Shaft seal

- Mechanical seal
- To EN 12756
- Uncooled
- Maintenance-free

Main applications

- Cold water pressure booster system
- Cold water systems
- General irrigation systems
- Light industrial applications

Fluids handled

- Clean water (without solids)
- Slightly aggressive fluid

Operating data

Table 1: Operating properties

Characteristic		Value
Flow rate	Q [m ³ /h]	$\leq 10,8$
Head	H [m]	$\leq 79,5$
Fluid temperature	T [°C]	≥ -10
		$\leq +60$
Ambient temperature	T [°C]	≥ -20
		$\leq +40$ ¹⁾
Pressure class	PN [bar]	≤ 10

Design details

Design

- Multistage
- Close-coupled design
- Extended motor shaft
- Maximum pressure class PN 10

¹ Optional: $\leq +55$ °C

Designation

Table 2: Designation example

Position																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
C	o	m	e	o			C		I	0	0	4	/	0	6	-	A	4	B	3	2	F	S	0	9	0	E	5	M	W	
See name plate and data sheet																See data sheet															

Table 3: Designation key

Position	Code	Description
1-7	Pump type	
	Comeo	Comeo
8-9	Variant	
	C	Cast steel 1.4308 (casing) Stainless steel 1.4301 (hydraulic system)
	G	Grey cast iron EN-GJL-250 (casing) Stainless steel 1.4301 (hydraulic system)
10	Connection type	
	I	Internal thread
11-13	Size	
	002	2
	...	...
	006	6
15-16	Number of stages	
	01	1
	...	...
	06	6
17	Trimmed impellers	
	-	No trimmed impeller
18	Product generation	
	A	Comeo from 2015
19	Connection standard	
	4	Internal thread / EN ISO 228-1
20	Material variant	
	A	Grey cast iron EN-GJL-250 (casing) Stainless steel 1.4301 (hydraulic system)
	B	Cast steel 1.4308 (casing) Stainless steel 1.4301 (hydraulic system)
21-22	Seal code	
	57	B/eSiCQ7 EGG WRAS
23	Mechanical seal design	
	F	Fixed mechanical seal
24	Drive	
	S	Standard IEC
25-27	Motor size	
	071	IEC 071
	080	IEC 080
	090	IEC 090
28	Pressure class	
	E	PN10
29	Number of motor poles	
	5	50 Hz, 2-pole
	6	60 Hz, 2-pole
30	Motor specification	
	C	230/400 V - IE2
	M	230 V, single-phase AC motor
	O	0.37/0.55 [kW], without IE classification
	V	230/400 V - IE3
31	PumpMeter	
	W	Without PumpMeter

Position	Code	Description
32	Design	
	..2)	Standard
	X	Non-standard (BT3D, BT3)

Materials

Table 4: Overview of materials depending on material variant

Part No.	Description	In contact with water	Comeo C	Comeo G
10-6	Pump shroud	X	1.4301	
101	Pump casing	X	1.4308	EN-GJL-250
108.01/.04/.05	Stage casing	X	1.4301	
160	Cover	X	1.4301	
-	Shaft	X	1.4541	
230	Impeller	X	1.4301	
341	Drive lantern	-	EN-GJL-250	
412	O-ring	X	EPDM	
433	Mechanical seal	X	B/eSiCQ7 EGG WRAS	
525.01/.03/.05	Spacer sleeve	X	1.4305	
903.05	Vent plug	X	1.4301 / EPDM	PEHD / TPE
905	Tie bolt	-	1.4057	
920.02/.03	Nut	X	1.4301	
930.02	Safety device	X	1.4401	
932	Circlip	X	1.4571	
950	Spring	X	1.4401	

Table 5: Material comparison

EN	General description	EN material code	EN standard	ASTM
EN-GJL-250	Cast iron	GJL-250	EN 1561	A48 - 40 B
1.4057	Chrome nickel steel	X17CrNi 16-2--QT800	EN 10088-3	A276 - 431
1.4301	Chrome nickel steel	X5CrNi 18-10	EN 10088	A276 - 304
1.4305	Chrome nickel steel	X8CrNiS 18-9	EN 10088	A276 - 303
1.4308	Chrome nickel steel	GX5CrNi19-10	EN 10213-4	A351 - Grade CF8
1.4401	Chrome nickel molybdenum steel	X5CrNiMo 17-12-2	EN 10088	A276 - 316
1.4541	Chrome nickel steel	X6CrNiMoTi 18-10	EN 10088	A276 - 321
1.4571	Chrome nickel molybdenum steel	X6CrNiMoTi 17-12-2	EN 10088	A276 - 316Ti

Product benefits

- Top quality pump thanks to advanced high-precision production technology and durable high-grade materials
- An energy-saving, state-of-the-art pump solution characterised by high efficiency levels, optimum flow passage, the use of high-efficiency motors, and precision engineering of all hydraulic components
- High energy efficiency as well as low investment and maintenance costs make for low life cycle costs.
- Very compact, space-saving design

Product information

Product information as per Regulation No. 1907/2006 (REACH)

For information as per European chemicals regulation (EC) No. 1907/2006 (REACH) see <https://www.ksb.com/en-global/company/corporate-responsibility/reach>.

Certifications

Table 6: Overview

Label	Effective in:	Comment
	France	Approved in accordance with the French drinking water regulation
	United Kingdom	Approved in accordance with the UK drinking water regulation

Selection information

Minimum flow rate and maximum flow rate

A minimum flow rate must be ensured to protect the pump against overheating and to prevent gas pockets, cavitation, etc.

² Blank

Table 7: Minimum flow rate and maximum flow rate Q [m³/h]
at a fluid temperature ≤ 20 °C

Size	Q			
	50 Hz		60 Hz	
	min.	max.	min.	max.
	[m³/h]	[m³/h]	[m³/h]	[m³/h]
2	0,2	3,3	0,2	4,0
4	0,4	6,5	0,5	7,8
6	0,6	9,0	0,8	10,8

Overview of product features / selection tables

Shaft seal

Table 8: Mechanical seal material

Code to EN 12756	Description	Material	Code	Comment
B/eSiC	Primary ring	Carbon graphite	Ca	Resin-impregnated
Q7	Mating ring	Aluminium oxide	Ce	Ceramics
E	Elastomer	EPDM	EPDM	Ethylene propylene rubber ³⁾

³ To ACS / WRAS

Technical data
Comeo C, 1~ 230 V, 50 Hz
Table 9: 50 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					1~230 V		
	[rpm]	[kW]			[%]	[%]	[dB]			[h ⁻¹]		
2/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020570	12.7
2/4	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020572	13.3
2/6	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48020574	14.6
4/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020594	12.8
4/4	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48020596	13.8
4/6	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48020597	17.3
6/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020620	12.8
6/4	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48020621	16.7
6/6	2800	1,50	4,80	0,95	+/-10	76,00	58,00	1 × M20 × 1,5	20	8,99	48020623	21.6

Comeo C, 1~230 V, 60 Hz
Table 10: 60 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					1~230 V		
	[rpm]	[kW]			[%]	[%]	[dB]			[h ⁻¹]		
2/2	3450	0,37	4,50	0,95	+/-10	74,00	64,00	1 × M18 × 1,5	20	2,30	48020576	12.2
2/4	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48020578	12.8
2/6	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48020579	16.2
4/2	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48020600	14.5
4/4	3400	1,10	4,80	0,96	+/-10	79,00	72,00	1 × M20 × 1,5	20	6,30	48020601	15.6
4/6	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48020604	21.4
6/2	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48020625	14.4
6/4	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48020628	20.8
6/6	3420	2,20	4,50	0,95	+/-10	77,00	78,00	1 × M20 × 1,5	20	13,10	48020630	23.6

Comeo C, 230/400 V, 50 Hz
Table 11: 50 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					230/400 V		
	[rpm]	[kW]			[%]	[%]	[dB]			[h ⁻¹]		
2/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020569	14.9
2/4	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020571	15.4
2/6	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48020573	17
4/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	05259998	14.9
4/4	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48020595	16.3
4/6	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48020598	22.4
6/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020619	14.9
6/4	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48020622	21.8
6/6	2900	1,50	7,70	0,88	+/-10	84,20	63,00	2 × M25 × 1,5	25	5,08/2,92	48020624	8.6

Comeo C, 230/400 V, 60 Hz
Table 12: 60 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					230/400 V		
	[rpm]	[kW]			[%]	[%]	[dB]			[h ⁻¹]		
2/2	3300	0,37	6,00	0,78	+20/-5	75,70	64,00	1 × M20 × 1,5	20	1,54/0,89	48020575	14.9
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	48020577	16.2
2/6	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48020580	20.1
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	48020599	15.7
4/4	3440	1,10	6,70	0,81	+20/-5	82,90	60,00	2 × M20 × 1,5	25	4,72/2,72	48020602	21.5
4/6	3500	1,50	6,70	0,89	+20/-5	84,40	66,00	2 × M25 × 1,5	25	5,01/2,88	48020603	25.1
6/2	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48020626	18.8
6/4	3500	1,50	6,70	0,89	+20/-5	84,40	66,00	2 × M25 × 1,5	25	5,01/2,88	48020629	24.5
6/6	3500	2,20	6,70	0,90	+20/-5	86,10	66,00	1 × M25 × 1,5	25	7,12/4,09	48020631	27.6

Comeo G, 1~ 230 V, 50 Hz
Table 13: 50 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					1~230 V		
	[rpm]	[kW]			[%]	[%]	[dB]			[h ⁻¹]		
2/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020558	13.3
2/4	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020560	13.8
2/6	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48020562	15.1
4/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020582	13.3
4/4	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48020584	14.3
4/6	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48020585	17.8
6/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48020607	13.3
6/4	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48020608	17.2
6/6	2800	1,50	4,80	0,95	+/-10	76,00	58,00	1 × M20 × 1,5	20	8,99	48020610	22.1

Comeo G, 1~230 V, 60 Hz
Table 14: 60 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					1~230 V		
	[rpm]	[kW]			[%]	[%]	[dB]			[h ⁻¹]		
2/2	3450	0,37	4,50	0,95	+/-10	74,00	64,00	1 × M18 × 1,5	20	2,30	48020564	12.7
2/4	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48020566	13.3
2/6	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48020567	16.7
4/2	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48020588	12.8
4/4	3400	1,10	4,80	0,96	+/-10	79,00	72,00	1 × M20 × 1,5	20	6,30	48020589	16.1
4/6	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48020592	21.9
6/2	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48020612	14.9
6/4	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48020615	21.3
6/6	3420	2,20	4,50	0,95	+/-10	77,00	78,00	1 × M20 × 1,5	20	13,10	48020617	24.1

Comeo G, 230/400 V, 50 Hz
Table 15: 50 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
	[rpm]	[kW]			Tolerance					230/400 V		
					[%]	[%]	[dB]			[h ⁻¹]		
2/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020557	15.4
2/4	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020559	15.9
2/6	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48020561	17.5
4/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020581	15.4
4/4	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48020583	16.8
4/6	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48020586	22.9
6/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	48020606	15.4
6/4	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48020609	22.3
6/6	2900	1,50	7,70	0,88	+/-10	84,20	63,00	2 × M25 × 1,5	25	5,08/2,92	48020611	9.1

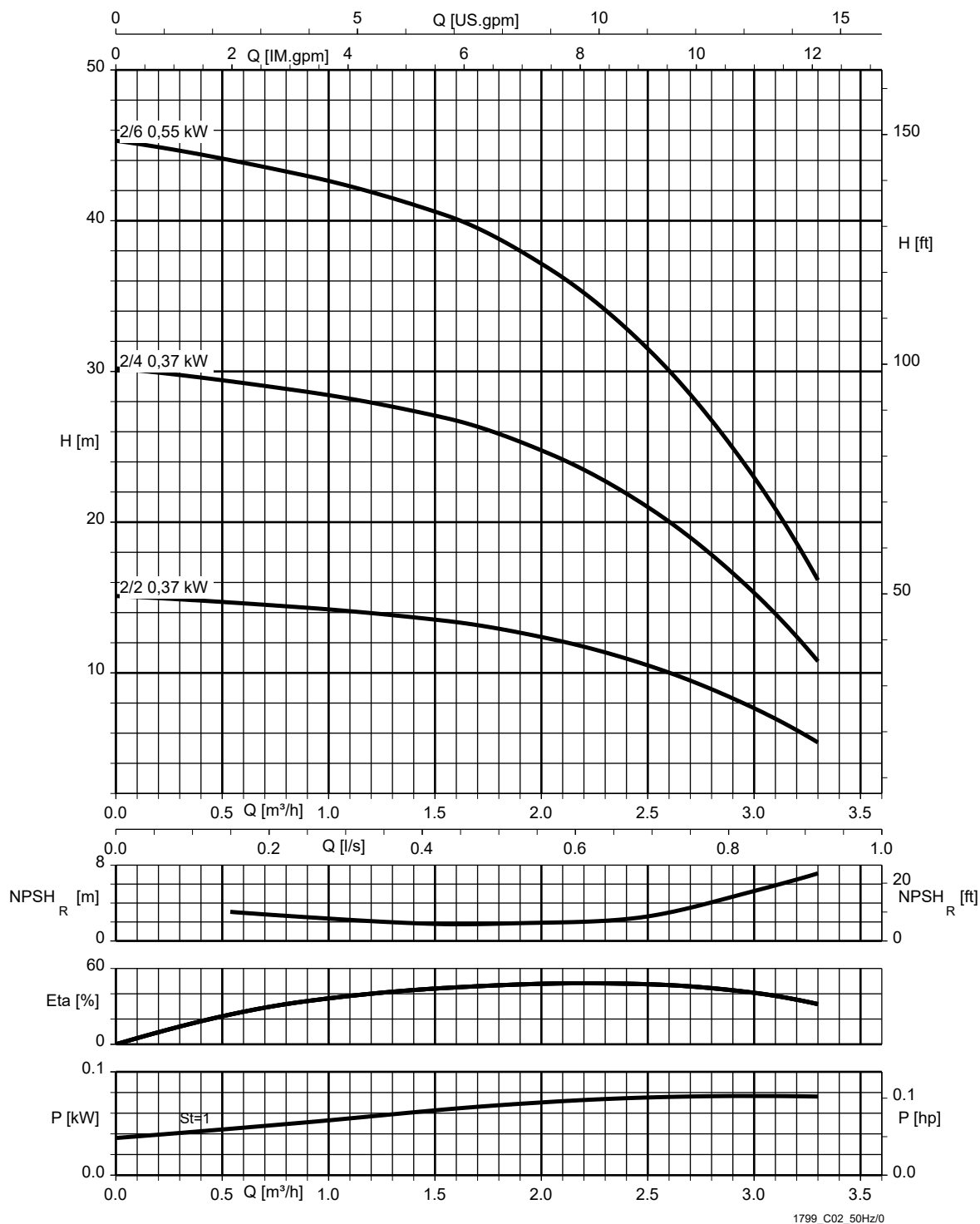
Comeo G, 230/400 V, 60 Hz
Table 16: 60 Hz

Size	n	P _N	I _A /I _N	cos φ	V _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
	[rpm]	[kW]			Tolerance					230/400 V		
					[%]	[%]	[dB]			[h ⁻¹]		
2/2	3300	0,37	6,00	0,78	+20/-5	75,70	67,00	1 × M20 × 1,5	20	1,54/0,89	48020563	15.4
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	48020565	16.7
2/6	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48020568	20.6
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	48020587	16.2
4/4	3440	1,10	6,70	0,81	+20/-5	82,90	60,00	2 × M20 × 1,5	25	4,72/2,72	48020590	22
4/6	3500	1,50	6,70	0,89	+20/-5	84,40	66,00	2 × M25 × 1,5	25	5,01/2,88	48020593	25.6
6/2	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48020613	19.3
6/4	3500	1,50	6,70	0,89	+20/-5	84,40	66,00	2 × M25 × 1,5	25	5,01/2,88	48020616	25
6/6	3500	2,20	6,70	0,90	+20/-5	86,10	66,00	1 × M25 × 1,5	25	7,12/4,09	48020618	28.1

Characteristic curves

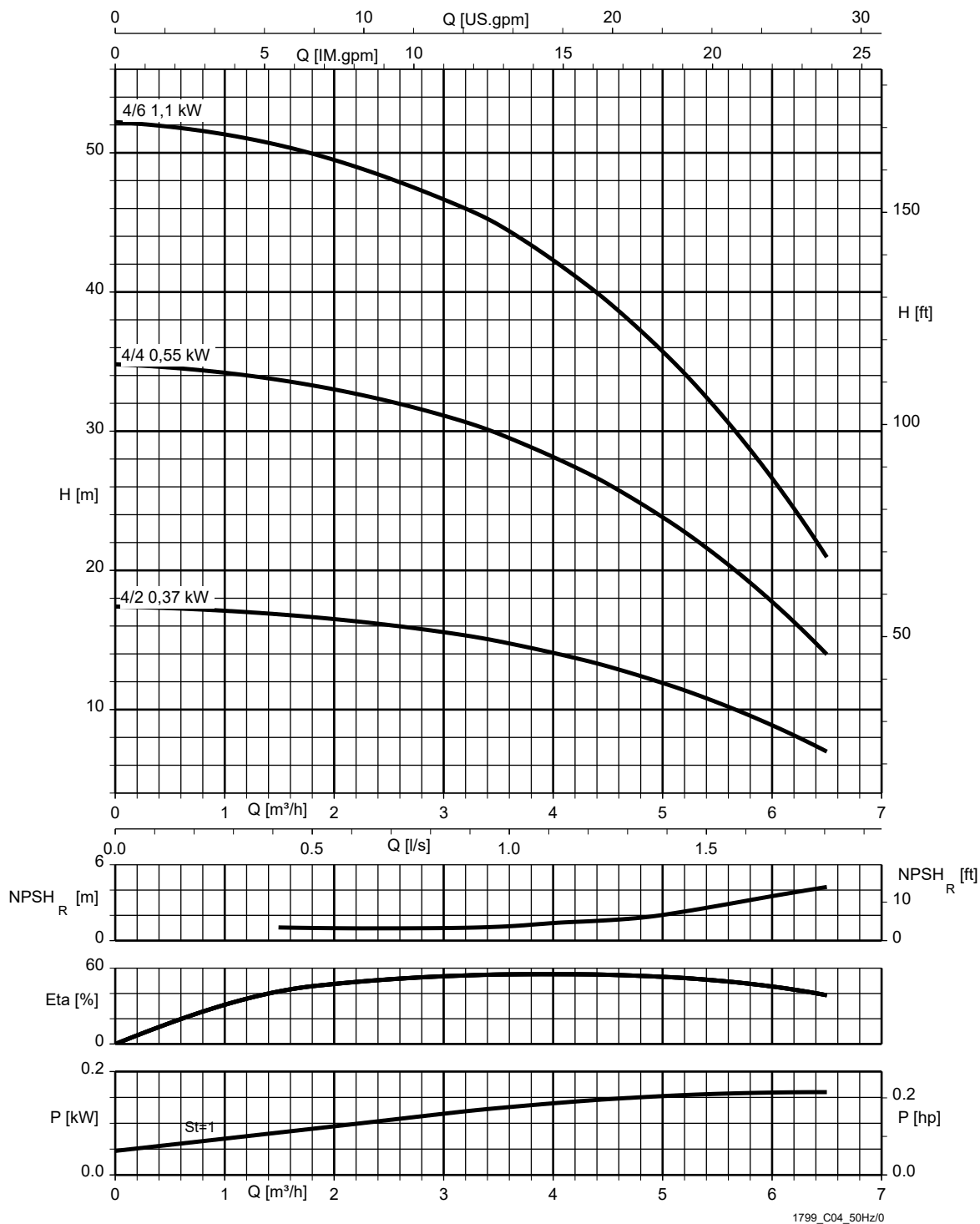
$n \approx 2900$ rpm

Comeo; 2; $n \approx 2900$ rpm



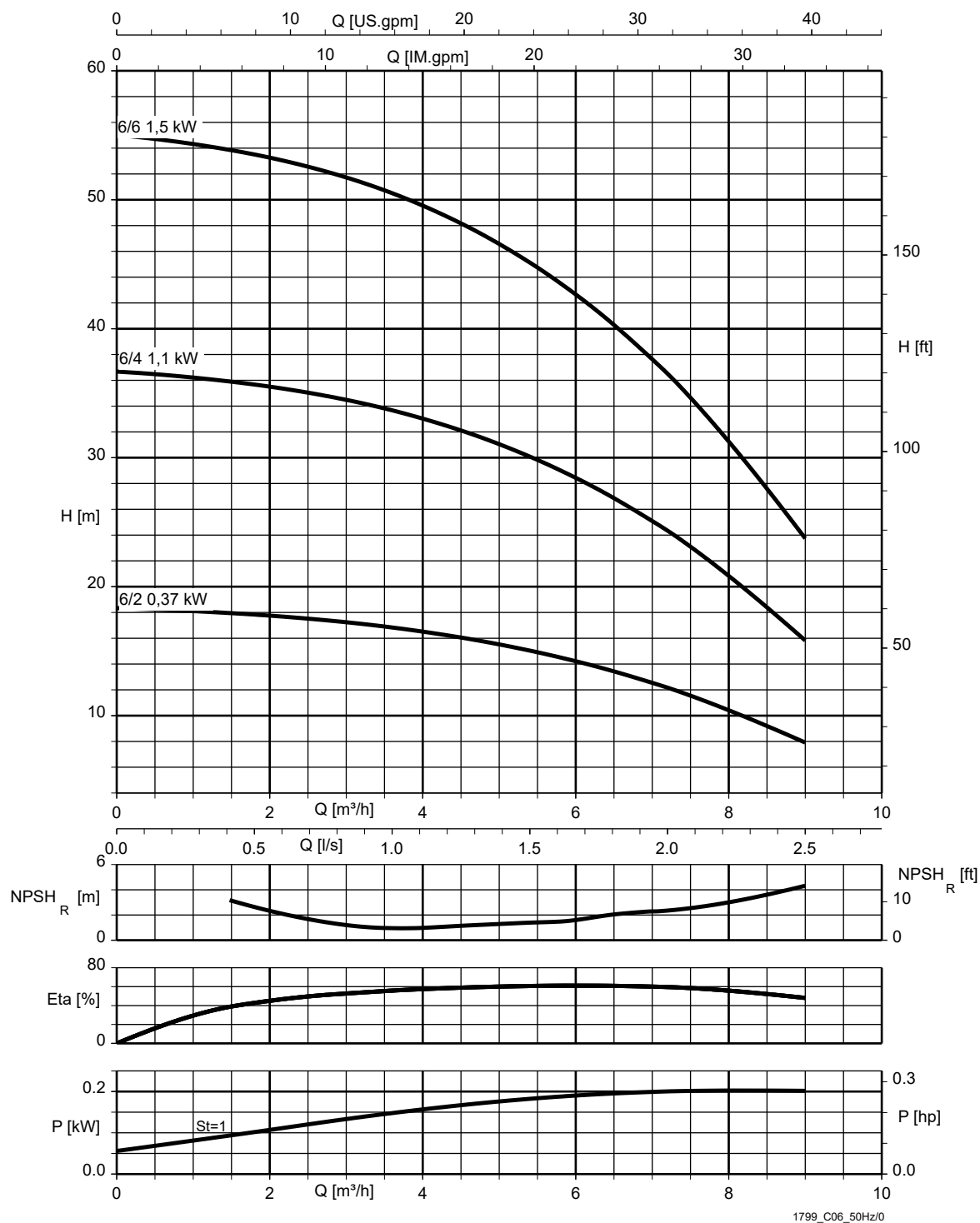
St = 1 P per stage

Comeo; 4; $n \approx 2900$ rpm



St = 1 | P per stage

Comeo; 6; $n \approx 2900$ rpm

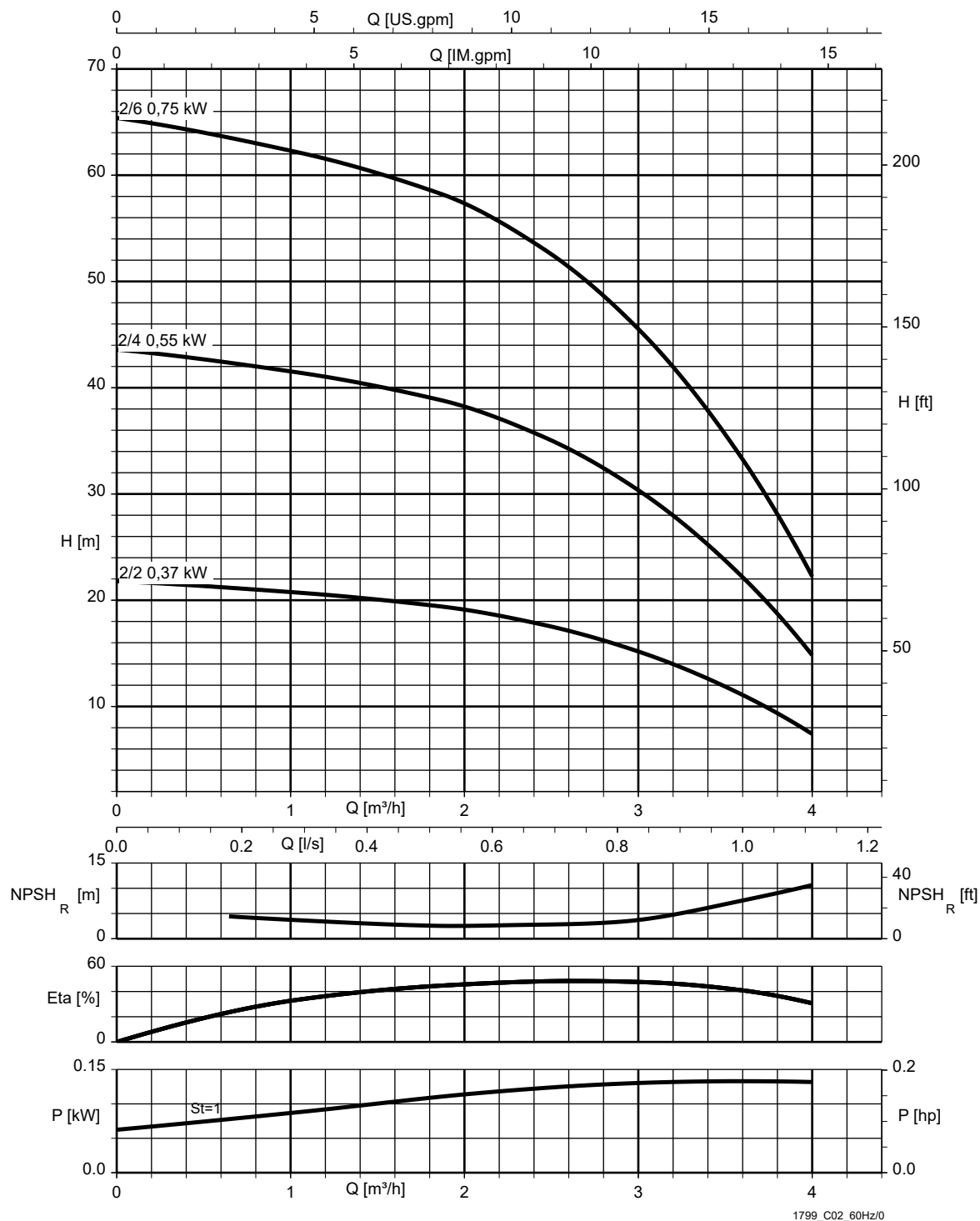


St = 1 | P per stage

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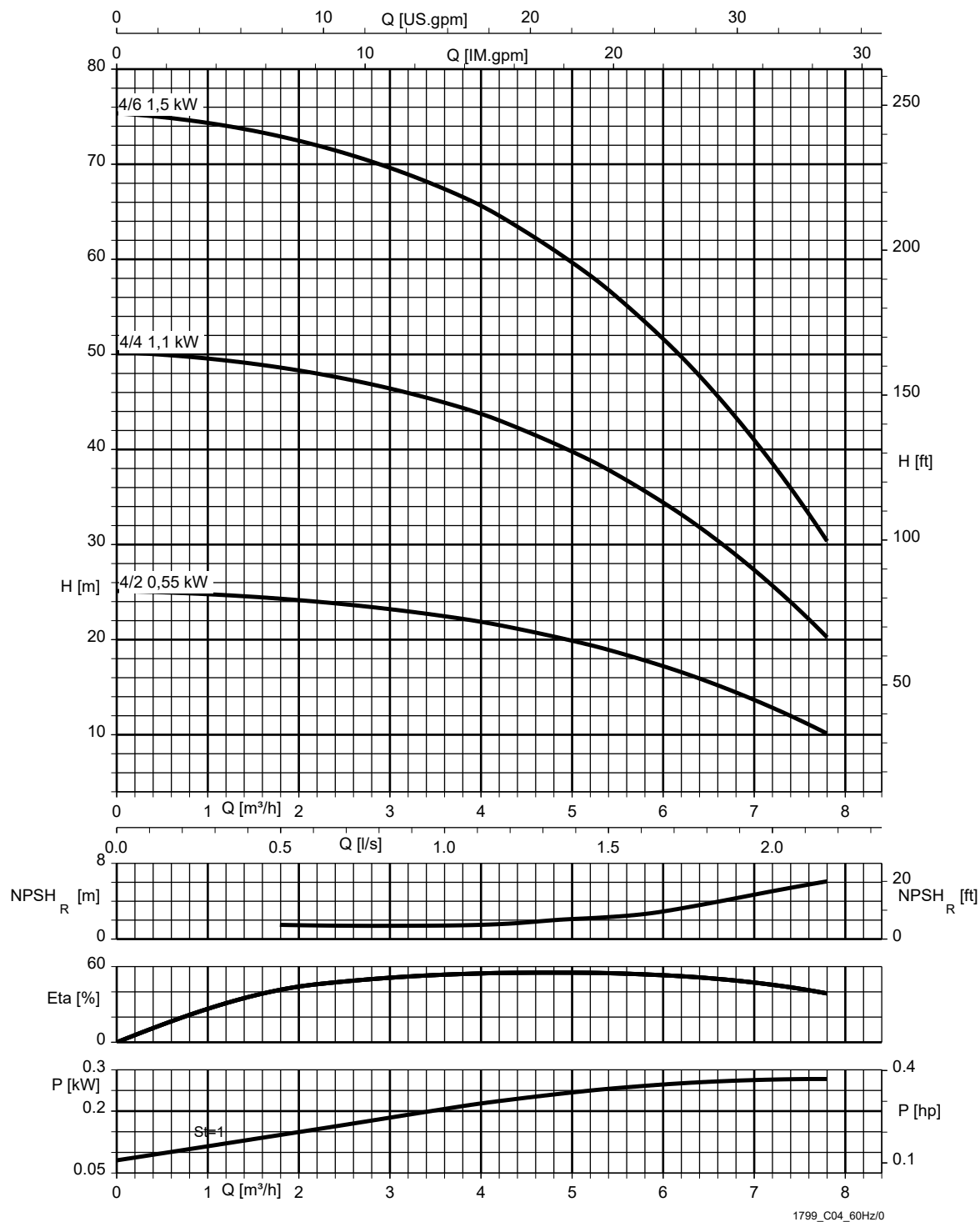
$n \approx 3500$ rpm

Comeo; 2; $n \approx 3500$ rpm



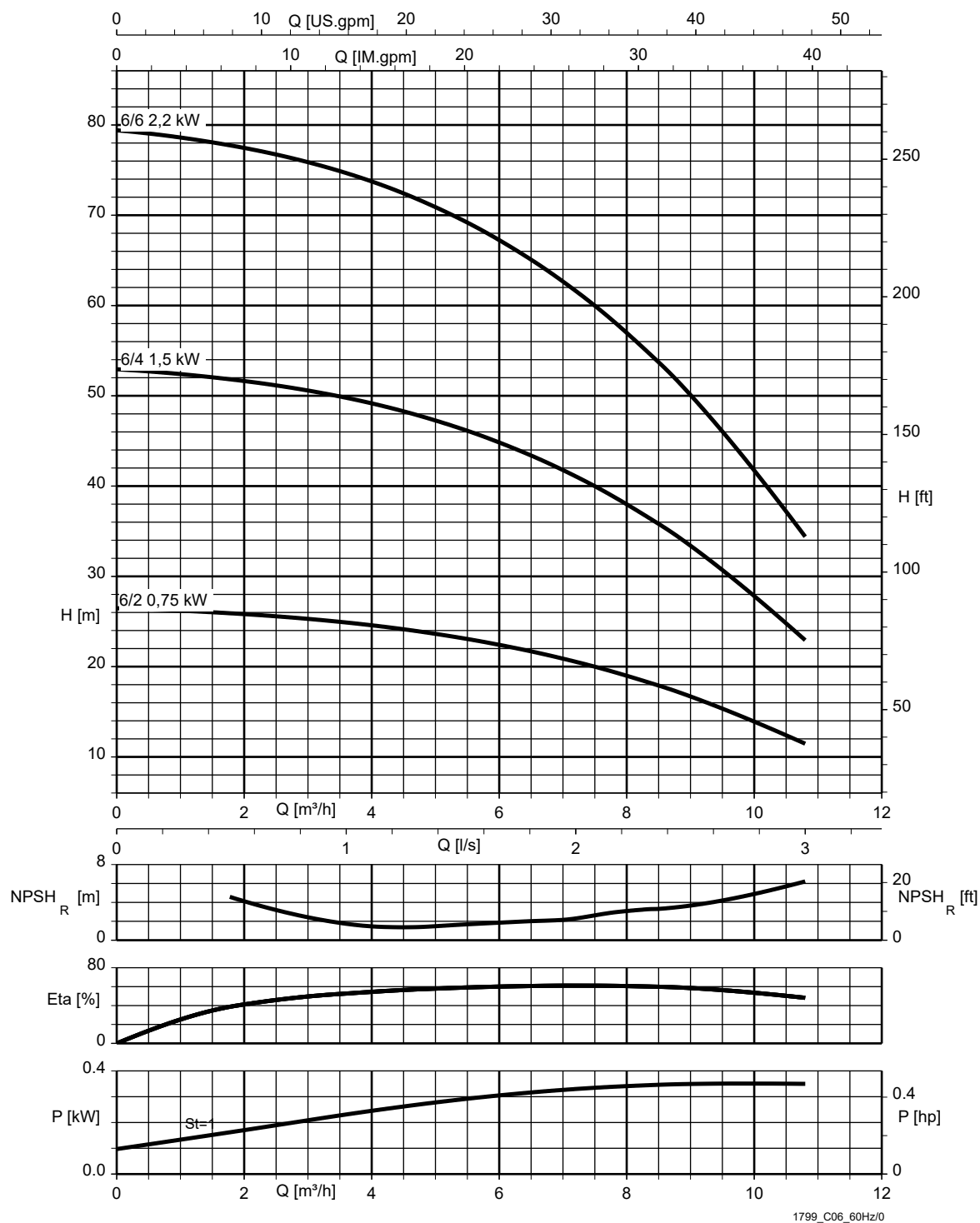
St = 1 P per stage

Comeo; 4; $n \approx 3500$ rpm



St = 1 | P per stage

Comeo; 6; $n \approx 3500$ rpm



St = 1 | P per stage

Dimensions and connections

Dimensions

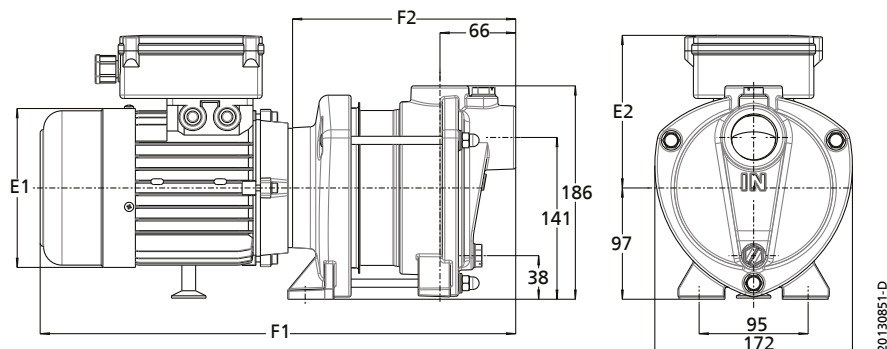


Fig. 1: Dimensions [mm]

Table 17: Dimensions, 1~230 V, 50 Hz

Size	P _N [kW]	E1 [mm]	E2 [mm]	F1 [mm]	F2 [mm]
2/2	0,37	138,50	110,00	372,50	151,50
2/4	0,37	138,50	110,00	405,00	184,00
2/6	0,55	138,50	110,00	448,00	227,00
4/2	0,37	138,50	110,00	372,50	151,50
4/4	0,55	138,50	110,00	405,00	184,00
4/6	1,10	159,00	155,00	473,00	227,00
6/2	0,37	138,50	110,00	372,50	151,50
6/4	1,10	159,00	155,00	440,50	194,50
6/6	1,50	176,50	160,00	529,50	244,50

Table 18: Dimensions, 1~230 V, 60 Hz

Size	P _N [kW]	E1 [mm]	E2 [mm]	F1 [mm]	F2 [mm]
2/2	0,37	138,50	110,00	372,50	151,50
2/4	0,55	138,50	110,00	405,00	184,00
2/6	0,75	159,00	155,00	473,00	227,00
4/2	0,55	138,50	110,00	372,50	151,50
4/4	1,10	159,00	155,00	430,00	184,00
4/6	1,50	176,50	160,00	512,00	227,00
6/2	0,75	159,00	155,00	397,50	151,50
6/4	1,50	176,50	160,00	479,50	194,50
6/6	2,20	176,50	160,00	529,50	244,50

Table 19: Dimensions, 230/400 V, 50 Hz

Size	P _N [kW]	E1 [mm]	E2 [mm]	F1 [mm]	F2 [mm]
2/2	0,37	138,00	109,00	372,50	151,50
2/4	0,37	138,00	109,00	405,00	184,00
2/6	0,55	138,00	109,00	448,00	227,00
4/2	0,37	138,00	109,00	372,50	151,50
4/4	0,55	138,00	109,00	405,00	184,00
4/6	1,10	157,00	133,00	487,00	227,00
6/2	0,37	138,00	109,00	372,50	151,50
6/4	1,10	157,00	133,00	454,50	194,50
6/6	1,50	180,00	145,00	497,50	244,50

Table 20: Dimensions, 230/400 V, 60 Hz

Size	P _N [kW]	E1 [mm]	E2 [mm]	F1 [mm]	F2 [mm]
2/2	0,37	138,00	109,00	372,50	151,50
2/4	0,55	138,00	109,00	405,00	184,00
2/6	0,75	157,00	133,00	484,00	227,00
4/2	0,55	138,00	109,00	372,50	151,50
4/4	1,10	157,00	133,00	444,00	184,00
4/6	1,50	180,00	145,00	480,00	227,00
6/2	0,75	157,00	133,00	408,50	151,50
6/4	1,50	180,00	145,00	447,50	194,50
6/6	2,20	180,00	145,00	529,50	244,50

Connections

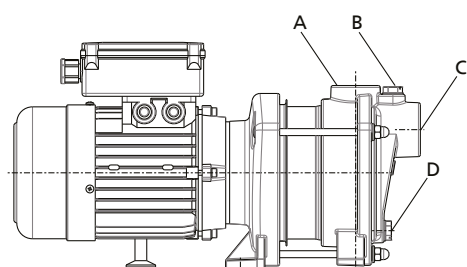


Fig. 2: Connections

A	Discharge nozzle (G 1), internal thread	C	Suction nozzle (G 1 1/4), internal thread
B	Screw filler plug (G 1/4)	D	Screw drain plug (G 1/4)

General assembly drawing with list of components

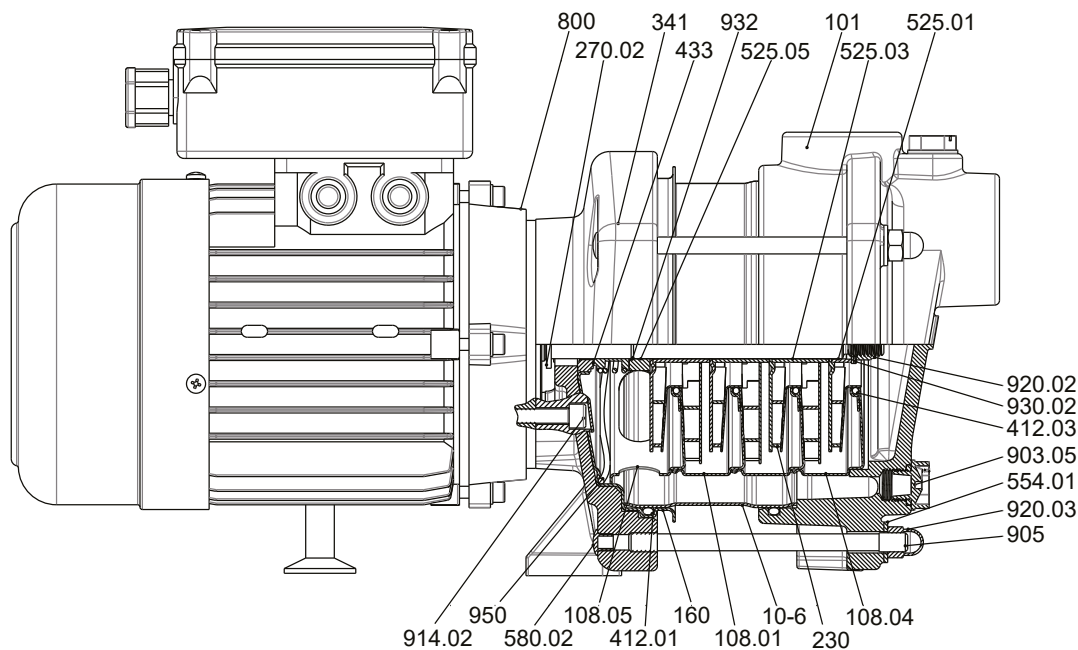


Fig. 3: General assembly drawing

Table 21: List of components

Part No.	Description	Part No.	Description
10-6	Pump shroud	554.01	Washer
101	Pump casing	580.02	Cap
108.01/.04/.05	Stage casing	800	Motor
160	Cover	903.05	Screw plug
230	Impeller	905	Tie bolt
270.02	Deflector	914.02	Hexagon socket head cap screw
341	Drive lantern	920.02/.03	Nut
412.01/.03	O-ring	930.02	Safety device
433	Mechanical seal	932	Circlip
525.01/.03/.05	Spacer sleeve	950	Spring



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