

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



Main applications

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

Fluids handled

- Clean water (without solids)
- Slightly aggressive fluid

Operating data

Operating properties

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

Designation

Example: Como C 2/2

Designation key

Code	Description
Comeo	Type series
C	Material variant
C	C Pump casing made of cast stainless steel

Code	Description
C	G Pump casing made of cast iron
2	Size, flow rate [m ³ /h] at BEP 2, 4, 6
2	Number of stages ²⁾

Design details

Design

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

Installation

- Horizontal installation

Drive

- Single-phase AC motor or three-phase motor
- To IEC 60034-7
- Efficiency class IE3 to IEC 60034-30 (for three-phase motors ≥ 0.75 kW)
- Frequency 50/60 Hz
- 2 poles
- Thermal class F
- IP55 enclosure
- Mode of operation: continuous operation S1
- Thermal circuit breaker with automatic reset and start-up for single-phase AC motor

Shaft seal

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

1) Optional: -20 to +55 °C

2) Default: stages 2, 4 und 6; optional: intermediate stages 1, 3 and 5

Materials

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 V E F F	B V P F F
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	Lock washer	X	1.4401	
932	Circlip	X	1.4571	
950	Spring	X	1.4401	

Comparison of materials

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 resistant 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

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

Size	50 Hz		60 Hz	
	Min.	Max.	Min.	Max.
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

Certifications

Overview

Label	Valid in:	Note
	France	For material variant cast stainless steel
	United Kingdom	For material variant cast stainless steel

Selection information

Minimum flow rate / maximum flow rate

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

Programme overview / selection tables

Shaft seal

Mechanical seal material – Comeo C

Code to EN 12756	Description	Material	Code	Comment
B	Primary ring	Carbon graphite	Ca	Resin-impregnated
V	Mating ring	Aluminium oxide	Ce	Ceramics
E	Elastomer	EPDM	EPDM	Ethylene propylene rubber ³⁾
F	Spring	Chrome nickel steel	CrNi steel	-
F	Other metal parts	Chrome nickel steel	CrNi steel	-

Mechanical seal material – Comeo G

Code to EN 12756	Description	Material	Code	Comment
B	Primary ring	Carbon graphite	Ca	Resin-impregnated
V	Mating ring	Aluminium oxide	Ce	Ceramics
P	Elastomer	NBR	NBR	Nitrile butadiene rubber
F	Spring	Chrome nickel steel	CrNi steel	-
F	Other metal parts	Chrome nickel steel	CrNi steel	-

3) To ACS / WRAS

Technical data
Comeo C, 1~230 V, 50 Hz

50 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
	[rpm]	[kW]	Tolerance		1~230 V							
			[%]		[A]							
2/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229175	13,1
2/4	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229176	13,8
2/6	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48229177	15,9
4/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229178	13,1
4/4	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48229179	15,3
4/6	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48229180	20
6/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48239930	13,4
6/4	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48239931	19,7
6/6	2800	1,50	4,80	0,95	+/-10	76,00	58,00	1 × M20 × 1,5	20	8,99	48239932	23,1

Comeo C, 1~230 V, 60 Hz

60 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
	[rpm]	[kW]	Tolerance		1~230 V							
			[%]		[A]							
2/2	3450	0,37	4,50	0,95	+/-10	74,00	64,00	1 × M18 × 1,5	20	2,30	48239933	13,1
2/4	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48239934	15,2
2/6	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48239935	17,4
4/2	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48239936	14,5
4/4	3400	1,10	4,80	0,96	+/-10	79,00	72,00	1 × M20 × 1,5	20	6,30	48239937	19,3
4/6	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48239938	22,7
6/2	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48239939	16,3
6/4	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48239940	22,4
6/6	3420	2,20	4,50	0,95	+/-10	77,00	78,00	1 × M20 × 1,5	20	13,10	48239941	25,1

Comeo C, 230/400 V, 50 Hz

50 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
	[rpm]	[kW]	Tolerance		230/400 V							
			[%]		[A]							
2/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239960	13,1
2/4	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239961	13,8
2/6	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48239962	15,9
4/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239963	13,1
4/4	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48239964	15,3
4/6	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48256815	20
6/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239966	13,4
6/4	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48256816	19,7
6/6	2900	1,50	7,70	0,88	+/-10	84,20	63,00	2 × M25 × 1,5	25	5,08/2,92	48256817	23,1

Comeo C, 230/400 V, 60 Hz

60 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					230/400 V		
	[rpm]	[kW]	[%]	[%]	[dB]	[h ⁻¹]	[A]					
2/2	3300	0,37	3,90	0,78	+20/-5	75,70	58,00	1 × M20 × 1,5	20	1,54/0,89	48239969	13,1
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	56,00	1 × M20 × 1,5	20	2,29/1,32	48239970	15,2
2/6	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48256818	17,4
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	56,00	1 × M20 × 1,5	20	2,29/1,32	48239972	14,5
4/4	3440	1,10	6,70	0,81	+20/-5	82,90	60,00	2 × M20 × 1,5	25	4,72/2,72	48256819	19,3
4/6	3500	1,50	6,70	0,89	+20/-5	84,4	66,00	2 × M25 × 1,5	25	5,01/2,88	48256820	22,7
6/2	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48256821	16,3
6/4	3500	1,50	6,70	0,89	+20/-5	84,4	66,00	2 × M25 × 1,5	25	5,01/2,88	48256822	22,4
6/6	3500	2,20	6,70	0,90	+20/-5	86,10	66,00	1 × M25 × 1,5	25	7,12/4,09	48256823	25,1

Comeo G, 1~230 V, 50 Hz

50 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					1~230 V		
	[rpm]	[kW]	[%]	[%]	[dB]	[h ⁻¹]	[A]					
2/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229157	13,1
2/4	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229158	13,8
2/6	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48229159	15,9
4/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229160	13,1
4/4	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	48229161	15,3
4/6	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48229162	20
6/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	48229163	13,4
6/4	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	48229164	19,7
6/6	2800	1,50	4,80	0,95	+/-10	76,00	58,00	1 × M20 × 1,5	20	8,99	48229165	23,1

Comeo G, 1~230 V, 60 Hz

60 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					1~230 V		
	[rpm]	[kW]	[%]	[%]	[dB]	[h ⁻¹]	[A]					
2/2	3450	0,37	4,50	0,95	+/-10	74,00	64,00	1 × M18 × 1,5	20	2,30	48229166	13,1
2/4	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48229167	15,2
2/6	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48229168	17,4
4/2	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	48229169	14,5
4/4	3400	1,10	4,80	0,96	+/-10	79,00	72,00	1 × M20 × 1,5	20	6,30	48229170	19,3
4/6	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48229171	22,7
6/2	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	48229172	16,3
6/4	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	48229173	22,4
6/6	3420	2,20	4,50	0,95	+/-10	77,00	78,00	1 × M20 × 1,5	20	13,10	48229174	25,1

Comeo G, 230/400 V, 50 Hz

50 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					230/400 V		
	[rpm]	[kW]			[%]					[A]		
2/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239942	13,1
2/4	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239943	13,8
2/6	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48239944	15,9
4/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239945	13,1
4/4	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	48239946	15,3
4/6	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48256806	20
6/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	48239948	13,4
6/4	2855	1,10	7,00	0,80	+/-10	82,70	60,00	2 × M20 × 1,5	25	4,22/2,43	48256807	19,7
6/6	2900	1,50	7,70	0,88	+/-10	84,20	63,00	2 × M25 × 1,5	25	5,08/2,92	48256808	23,1

Comeo G, 230/400 V, 60 Hz

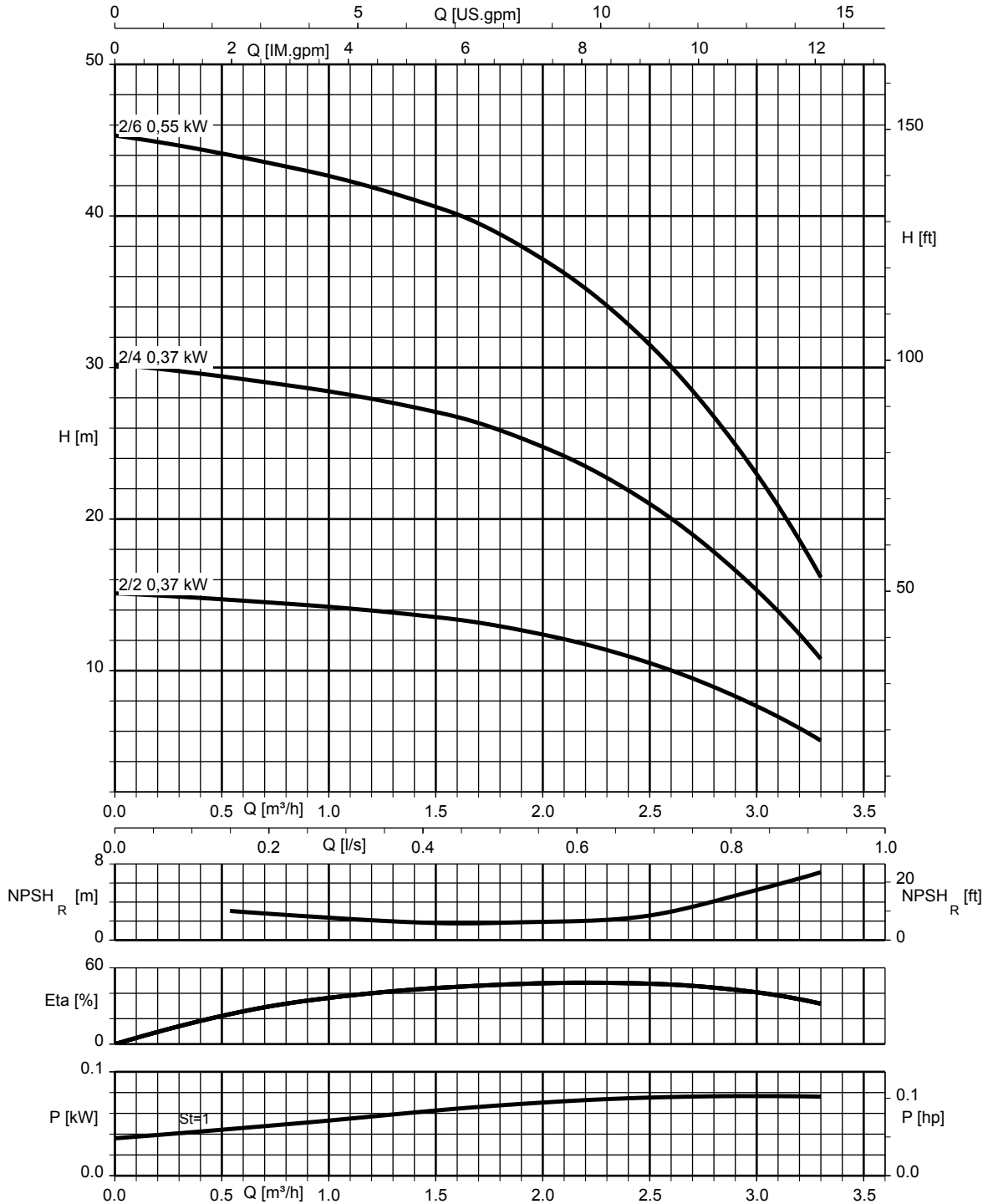
60 Hz

Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
					Tolerance					230/400 V		
	[rpm]	[kW]			[%]					[A]		
2/2	3300	0,37	3,90	0,78	+20/-5	75,70	58,00	1 × M20 × 1,5	20	1,54/0,89	48239951	13,1
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	56,00	1 × M20 × 1,5	20	2,29/1,32	48239952	15,2
2/6	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48256809	17,4
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	56,00	1 × M20 × 1,5	20	2,29/1,32	48239954	14,5
4/4	3440	1,10	6,70	0,81	+20/-5	82,90	60,00	2 × M20 × 1,5	25	4,72/2,72	48256810	19,3
4/6	3500	1,50	6,70	0,89	+20/-5	84,4	66,00	2 × M25 × 1,5	25	5,01/2,88	48256811	22,7
6/2	3440	0,75	6,50	0,80	+20/-5	80,90	60,00	2 × M20 × 1,5	25	2,87/1,65	48256812	16,3
6/4	3500	1,50	6,70	0,89	+20/-5	84,4	66,00	2 × M25 × 1,5	25	5,01/2,88	48256813	22,4
6/6	3500	2,20	6,70	0,90	+20/-5	86,10	66,00	1 × M25 × 1,5	25	7,12/4,09	48256814	25,1

Characteristic curves

$n \approx 2900$ rpm

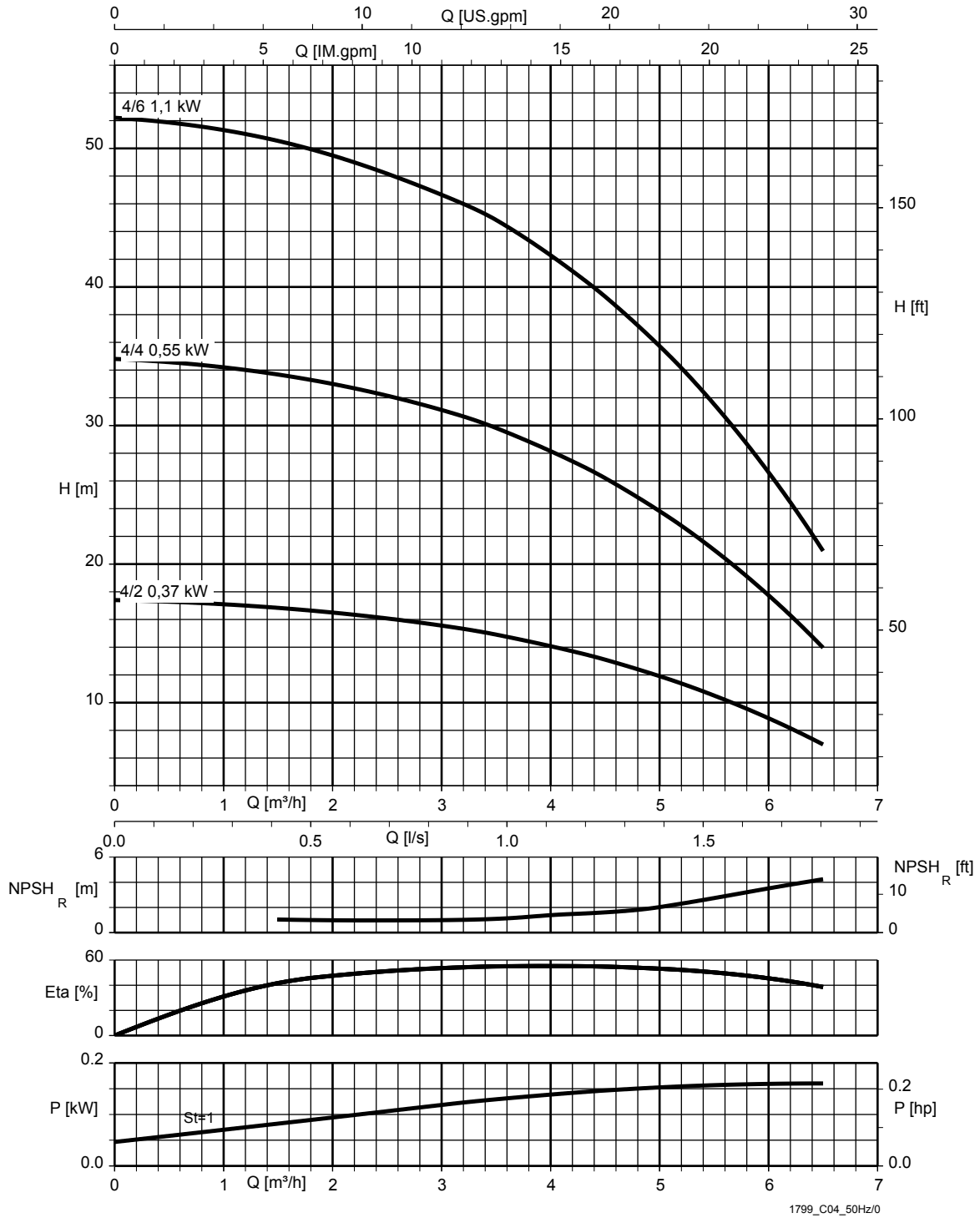
Comeo; 2; $n \approx 2900$ rpm



1799_C02_50Hz/0

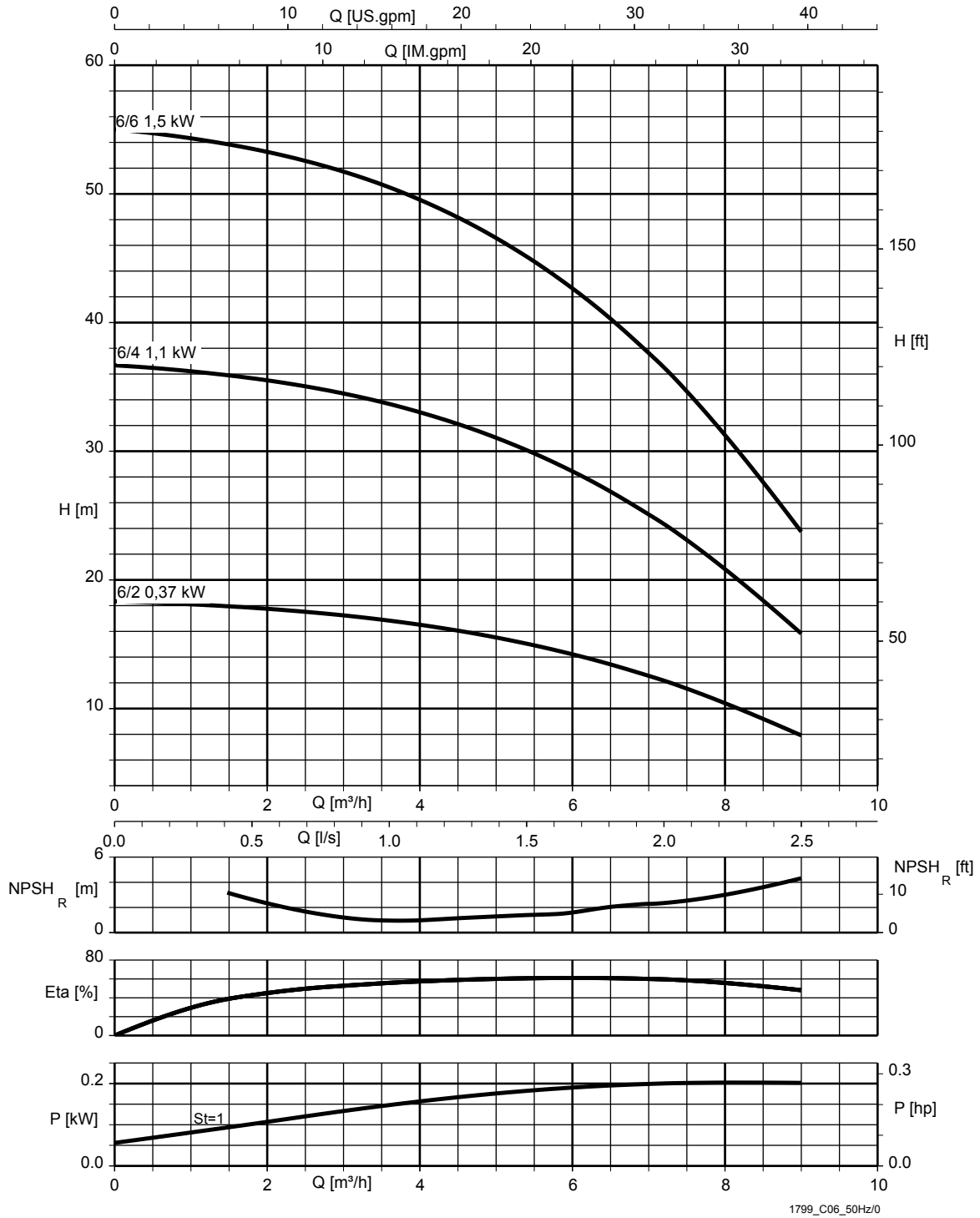
St = 1 | P per stage

Comeo; 4; n ≈ 2900 rpm



St = 1 | P per stage

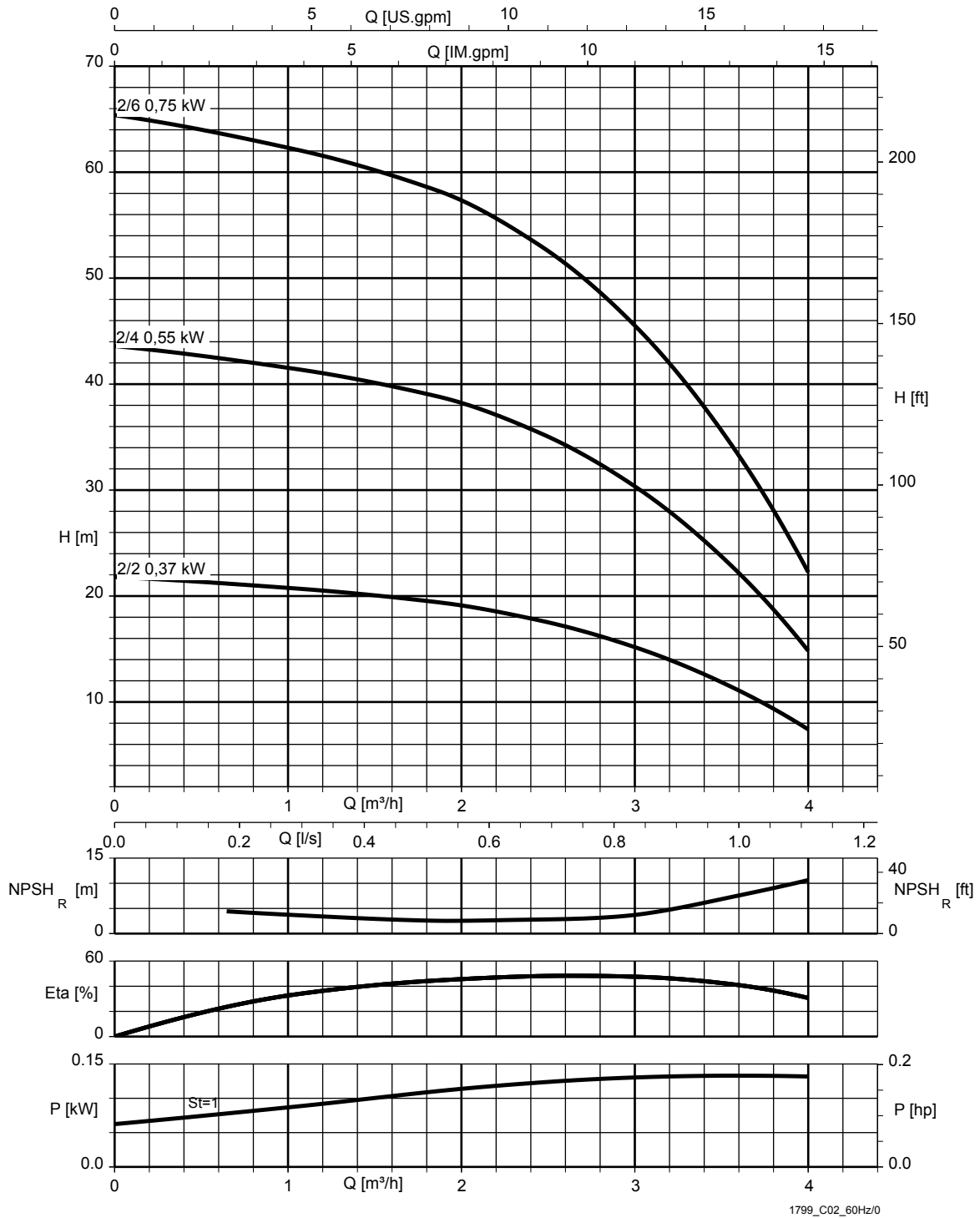
Comeo; 6; n ≈ 2900 rpm



St = 1 | P per stage

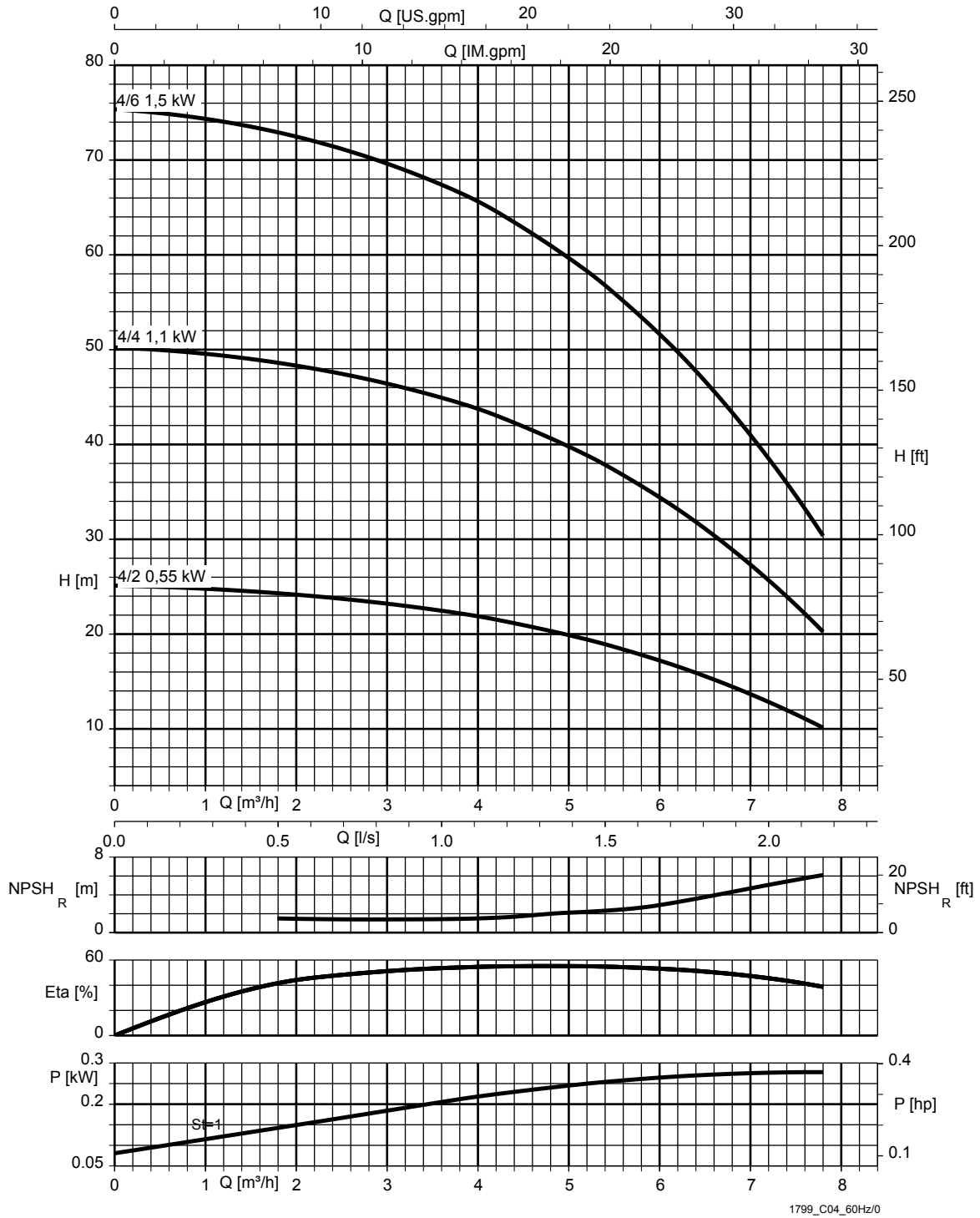
$n \approx 3500$ rpm

Comeo; 2; $n \approx 3500$ rpm



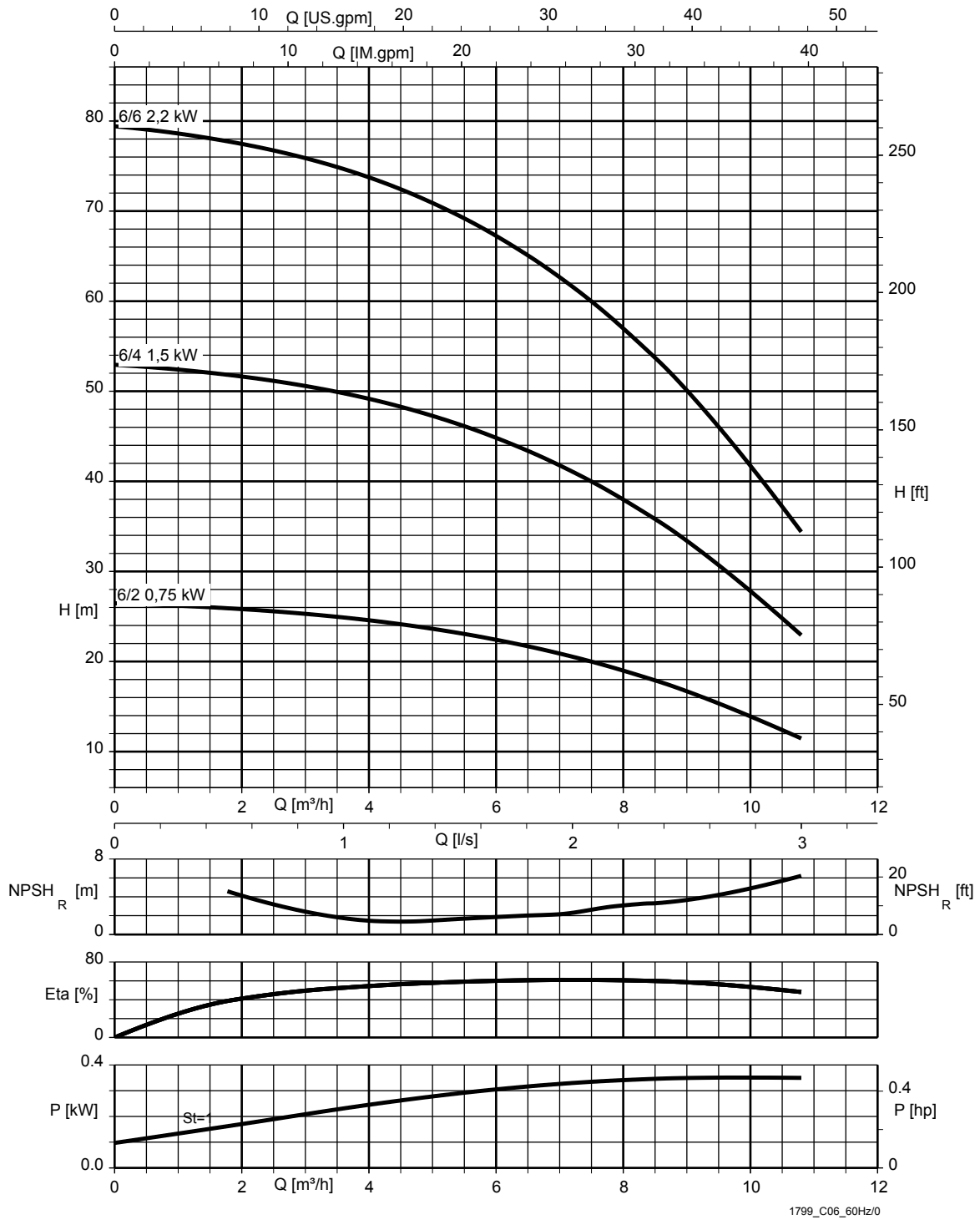
St = 1 | P per stage

Comeo; 4; $n \approx 3500$ rpm



St = 1 | P per stage

Comeo; 6; n ≈ 3500 rpm



St = 1 | P per stage

Dimensions and connections

Dimensions

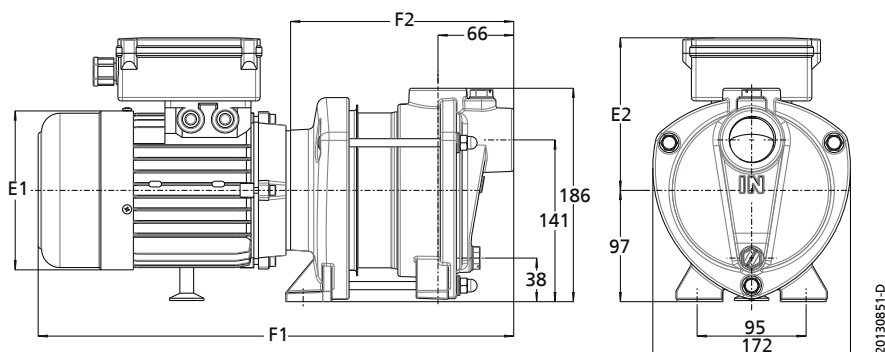


Fig. 1: Dimensions [mm]

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

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

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

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

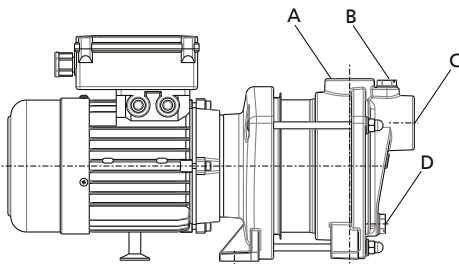


Fig. 2: Connections

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

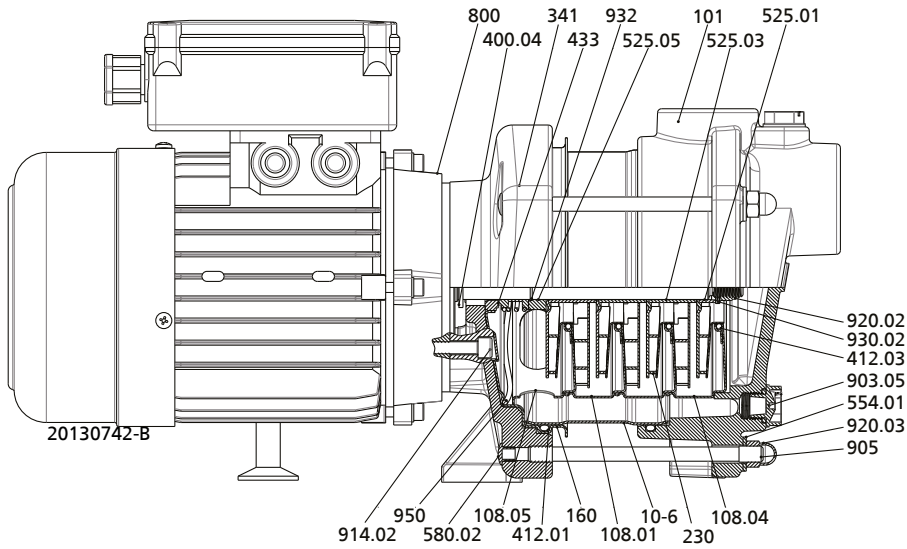


Fig. 3: General assembly drawing

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
341	Drive lantern	914.02	Hexagon socket head cap screw
400.04	Gasket	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

Detailed designation

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															

Position 1-7: designation

Code	Description
Comeo	Comeo

Position 24: drive

Code	Description
S	Standard IEC

Position 8-9: design

Code	Description
C	1.4308 (casing) / 1.4301 (hydraulic system)
G	EN-GJL-250 (casing) / 1.4301 (hydraulic system)

Position 25-27: motor rating and number of poles

Code	Description
071	IEC 071
080	IEC 080
090	IEC 090

Position 10: connection type

Code	Description
I	Internal thread

Position 28: pressure class

Code	Description
E	PN10

Position 11-13: size

Code	Description
002	Size 2
004	Size 4
006	Size 6

Position 29: mains frequency

Code	Description
5	50 Hz, 2-pole
6	60 Hz, 2-pole

Position 15-16: number of stages

Code	Description
01	1 stage
02	2 stages
03	3 stages
04	4 stages
05	5 stages
06	6 stages

Position 30: motor specification

Code	Description
C	230/400 V, three-phase motor (IE2)
M	230 V, single-phase AC motor
O	0.37/0.55 kW non-classified
U	230/400 V, three-phase motor (IE3)

Position 17: trimmed impellers

Code	Description
-	No trimmed impeller

Position 31: PumpMeter

Code	Description
W	Without PumpMeter

Position 18: generation

Code	Description
A	Generation from 2015

Position 32: standard design

Code	Description
X	One or several non-standard components

Position 19: standard of connection

Code	Description
4	Internal thread / EN ISO 228-1

Position 20: material variant

Code	Description
A	EN-GJL-250 (casing) / 1.4301 (hydraulic system)
B	1.4308 (casing) / 1.4301 (hydraulic system)

Position 21-22: seal code

Code	Description
31	B V P F F
32	B V E F F

Position 23: mechanical seal design

Code	Description
F	"Fixed" design



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