

Multistage Horizontal Centrifugal Pump

Type Series Booklet
DPHM(C)



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Type Series Booklet DPHM(C)

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Centrifugal Pumps

Multistage Horizontal Centrifugal Pumps

DPHM(C)



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]	≤ 10,8
Head	H [m]	≤ 79,5
Fluid temperature	T [°C]	≥ -10
		≤ +60
Ambient temperature	T [°C]	≥ -20
		≤ +40 ¹⁾
Pressure class	PN [bar]	≤ 10

Designation

Example: DPHMC 2/2

Table 2: Designation key

Code	Description
DPHM	Type series
C	Material variant
	C Pump casing made of cast iron

¹ Optional: ≤ +55 °C

² Standard: 2, 4 and 6; optional: 1, 3 and 5 intermediate stages

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

Design details

Design

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

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

Materials

Table 3: Overview of materials depending on material variant

Part No.	Description	In contact with water	DPHM	DPHMC
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	BVEFF	BVPPF
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 4: 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 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

Table 6: Minimum flow rate and maximum flow rate Q [m³/h] at a fluid temperature ≤ 20 °C

Size	Q			
	50 Hz		60 Hz	
	min. [m ³ /h]	max. [m ³ /h]	min. [m ³ /h]	max. [m ³ /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

Certifications

Table 5: 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.

Overview of product features / selection tables**Shaft seal****Table 7:** Mechanical seal material – DPHM

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	-

Table 8: Mechanical seal material – DPHMC

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

DPHM, 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	290029451020MX	13,1
2/4	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	290029451040MX	13,8
2/6	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	290029451060MX	15,9
4/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	290049451020MX	13,1
4/4	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	290049451040MX	15,3
4/6	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	290049451060MX	20
6/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	290069451020MX	13,4
6/4	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	290069451040MX	19,7
6/6	2800	1,50	4,80	0,95	+/-10	76,00	58,00	1 × M20 × 1,5	20	8,99	290069451060MX	23,1

DPHM, 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	290029461020MX	13,1
2/4	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	290029461040MX	15,2
2/6	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	290029461060MX	17,4
4/2	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	290049461020MX	14,5
4/4	3400	1,10	4,80	0,96	+/-10	79,00	72,00	1 × M20 × 1,5	20	6,30	290049461040MX	19,3
4/6	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	290049461060MX	22,7
6/2	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	290069461020MX	16,3
6/4	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	290069461040MX	22,4
6/6	3420	2,20	4,50	0,95	+/-10	77,00	78,00	1 × M20 × 1,5	20	13,10	290069461060MX	25,1

DPHM, 230/400 V, 50 Hz

Table 11: 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]			[%]	[%]	[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	290029451020C	13,1
2/4	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290029451040C	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	290029451060C	15,9
4/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290049451020C	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	290049451040C	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	290049451060U	20
6/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290069451020C	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	290069451040U	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	290069451060U	23,1

DPHM, 230/400 V, 60 Hz

Table 12: 60 Hz

Size	n [rpm]	P _N [kW]	I _A /I _N	cos φ	V _N	η	L _p [dB]	Cable gland	Maximum frequency of starts [h ⁻¹]	I _N	Mat. No.	[kg]
					Tolerance [%]					230/400 V [A]		
2/2	3300	0,37	6,00	0,78	+20/-5	75,70	67,00	1 × M20 × 1,5	20	1,54/0,89	290029461020C	13,1
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	290029461040C	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	290029461060U	17,4
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	290049461020C	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	290049461040U	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	290049461060U	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	290069461020U	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	290069461040U	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	290069461060U	25,1

DPHMC, 1~230 V, 50 Hz

Table 13: 50 Hz

Size	n [rpm]	P _N [kW]	I _A /I _N	cos φ	V _N	η	L _p [dB]	Cable gland	Maximum frequency of starts [h ⁻¹]	I _N	Mat. No.	[kg]
					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	290028451020MX	13,1
2/4	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	290028451040MX	13,8
2/6	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	290028451060MX	15,9
4/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	290048451020MX	13,1
4/4	2760	0,55	3,90	0,92	+/-10	70,00	56,00	1 × M18 × 1,5	20	3,69	290048451040MX	15,3
4/6	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	290048451060MX	20
6/2	2750	0,37	3,70	0,92	+/-10	67,00	58,00	1 × M18 × 1,5	20	2,60	290068451020MX	13,4
6/4	2790	1,10	4,30	0,95	+/-10	75,00	58,00	1 × M20 × 1,5	20	6,68	290068451040MX	19,7
6/6	2800	1,50	4,80	0,95	+/-10	76,00	58,00	1 × M20 × 1,5	20	8,99	290068451060MX	23,1

DPHMC, 1~230 V, 60 Hz

Table 14: 60 Hz

Size	n [rpm]	P _N [kW]	I _A /I _N	cos φ	V _N	η	L _p [dB]	Cable gland	Maximum frequency of starts [h ⁻¹]	I _N	Mat. No.	[kg]
					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	290028461020MX	13,1
2/4	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	290028461040MX	15,2
2/6	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	290028461060MX	17,4
4/2	3420	0,55	3,80	0,96	+/-10	74,00	65,00	1 × M18 × 1,5	20	3,35	290048461020MX	14,5
4/4	3400	1,10	4,80	0,96	+/-10	79,00	72,00	1 × M20 × 1,5	20	6,30	290048461040MX	19,3
4/6	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	290048461060MX	22,7
6/2	3420	0,75	4,30	0,97	+/-10	75,00	68,00	1 × M20 × 1,5	20	4,50	290068461020MX	16,3
6/4	3420	1,50	4,70	0,95	+/-10	76,00	75,00	1 × M20 × 1,5	20	9,10	290068461040MX	22,4
6/6	3420	2,20	4,50	0,95	+/-10	77,00	78,00	1 × M20 × 1,5	20	13,10	290068461060MX	25,1

DPHMC, 230/400 V, 50 Hz

Table 15: 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	[%]	[dB]			230/400 V		
2/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290028451020C	13,1
2/4	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290028451040C	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	290028451060C	15,9
4/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290048451020C	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	290048451040C	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	290048451060U	20
6/2	2750	0,37	5,50	0,78	+/-10	74,20	64,00	1 × M20 × 1,5	20	1,64/0,94	290068451020C	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	290068451040U	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	290068451060U	23,1

DPHMC, 230/400 V, 60 Hz

Table 16: 60 Hz

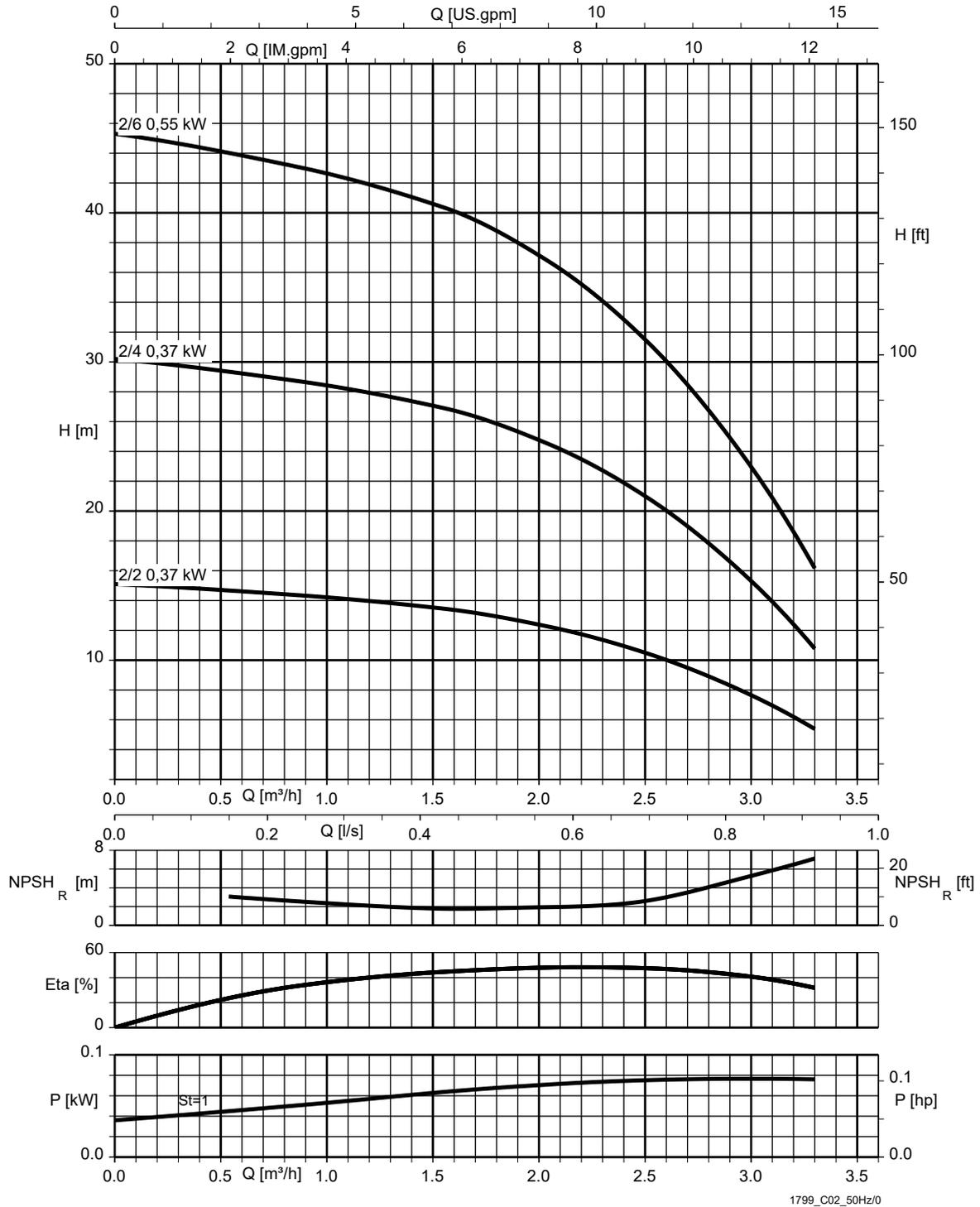
Size	n	P _N	I _A /I _N	cos φ	U _N	η	L _p	Cable gland	Maximum frequency of starts	I _N	Mat. No.	[kg]
	[rpm]	[kW]			Tolerance	[%]	[dB]			230/400 V		
2/2	3300	0,37	6,00	0,78	+20/-5	75,70	67,00	1 × M20 × 1,5	20	1,54/0,89	290028461020C	13,1
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	290028461040C	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	290028461060U	17,4
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	58,00	1 × M20 × 1,5	20	2,29/1,32	290048461020C	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	290048461040U	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	290048461060U	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	290068461020U	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	290068461040U	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	290068461060U	25,1



Characteristic curves

$n \approx 2900$ rpm

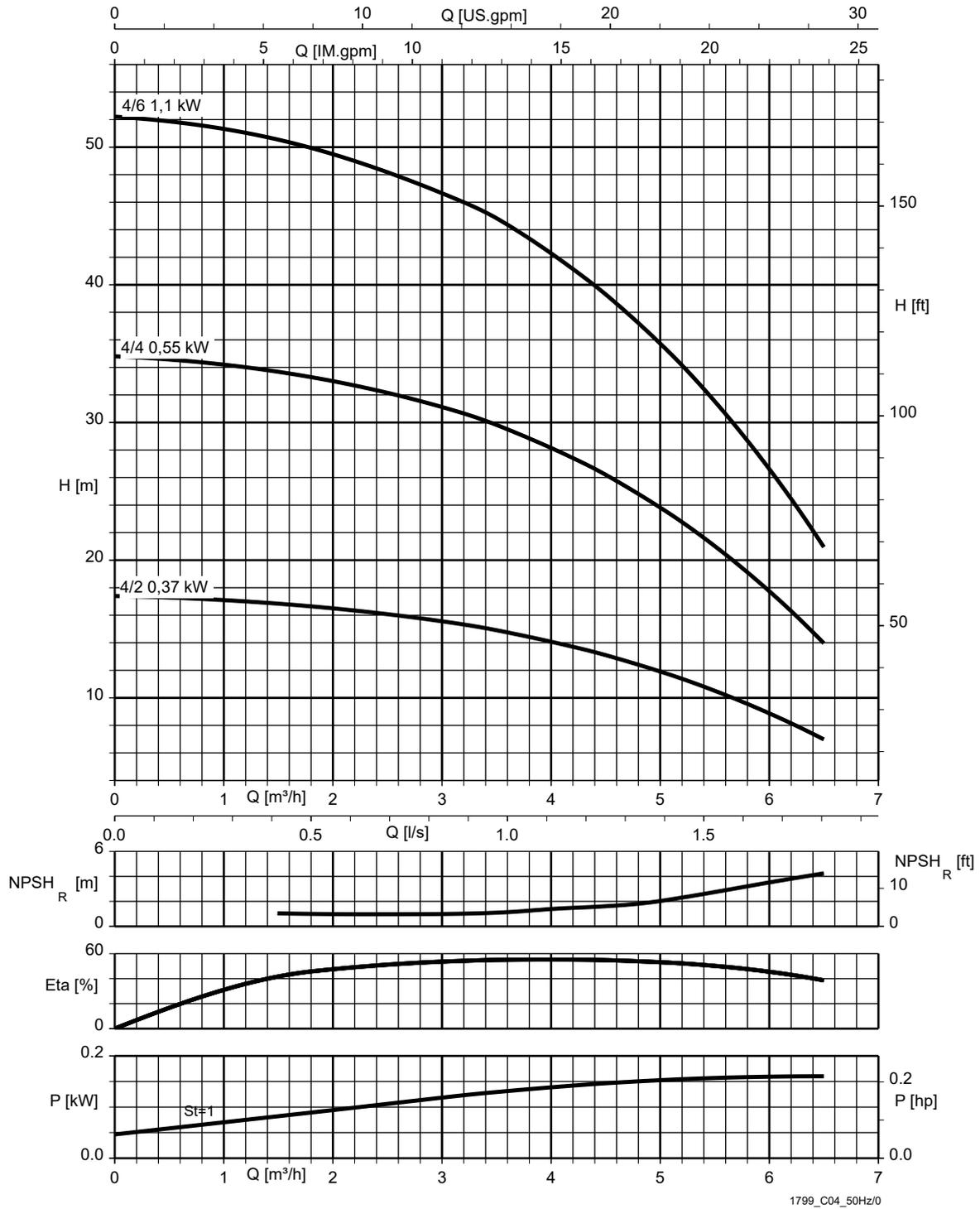
DPHM(C), 2, $n \approx 2900$ rpm



St = 1 | P per stage



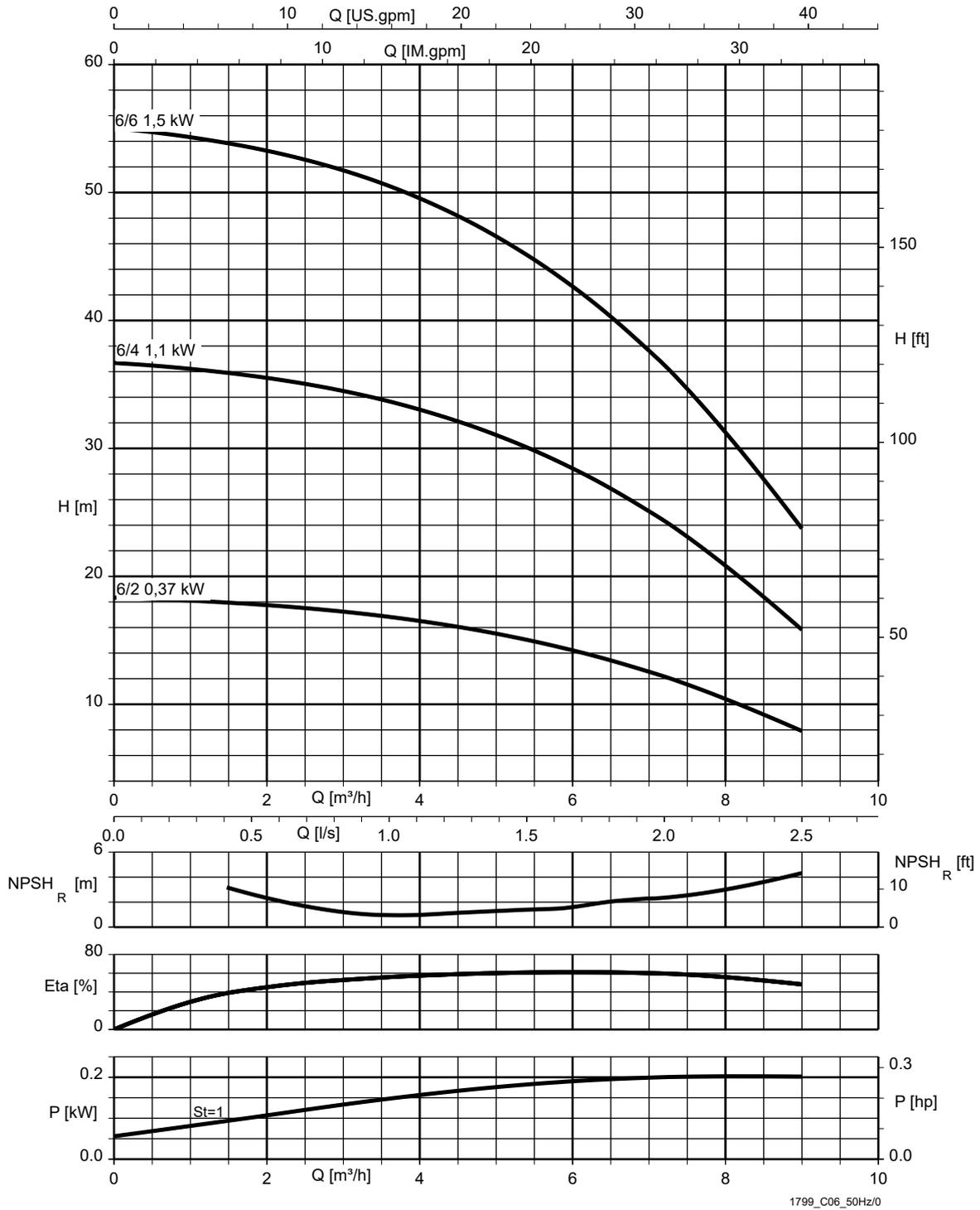
DPHM(C), 4, n ≈ 2900 rpm



St = 1 | P per stage



DPHM(C), 6, n ≈ 2900 rpm

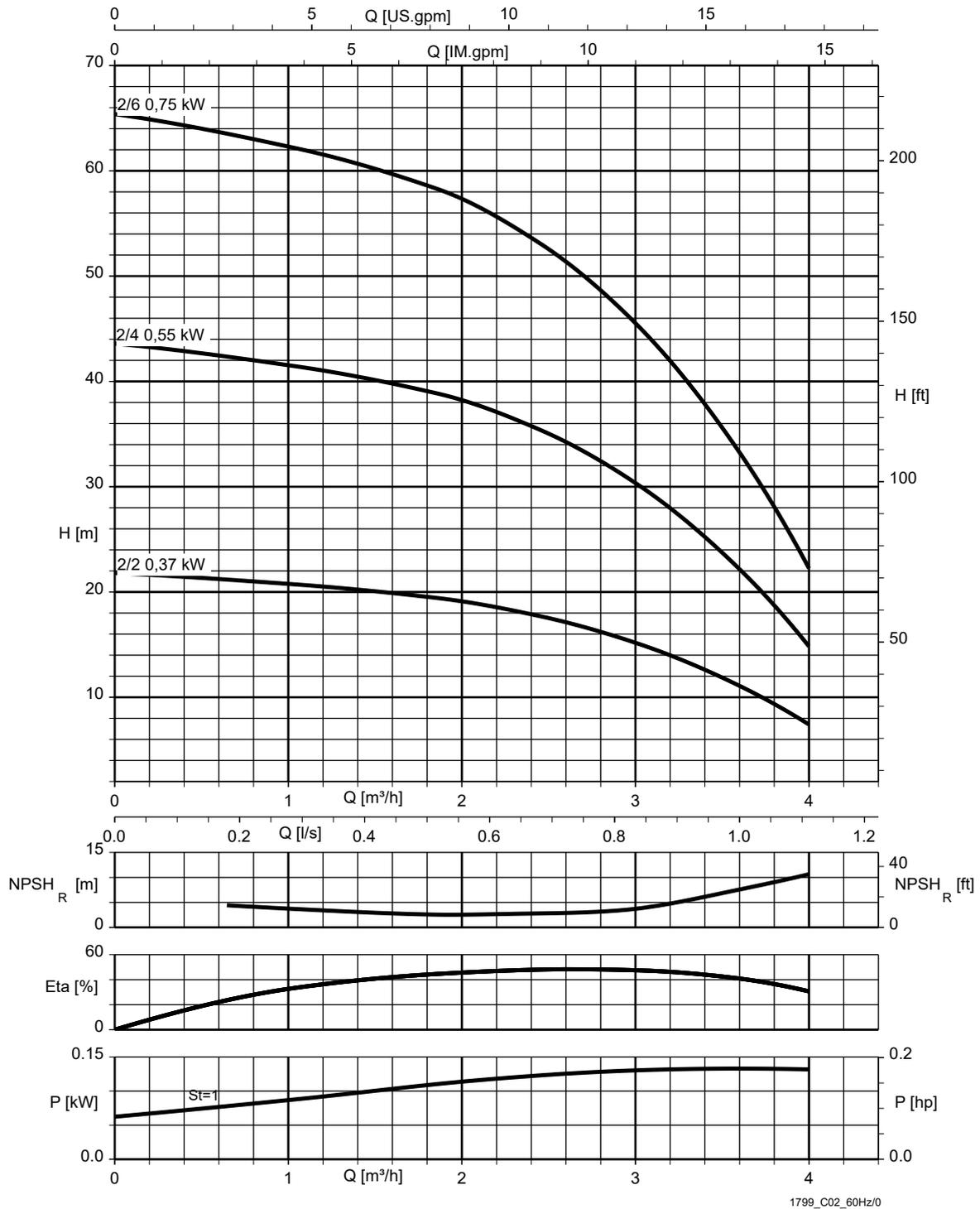


St = 1 | P per stage



$n \approx 3500$ rpm

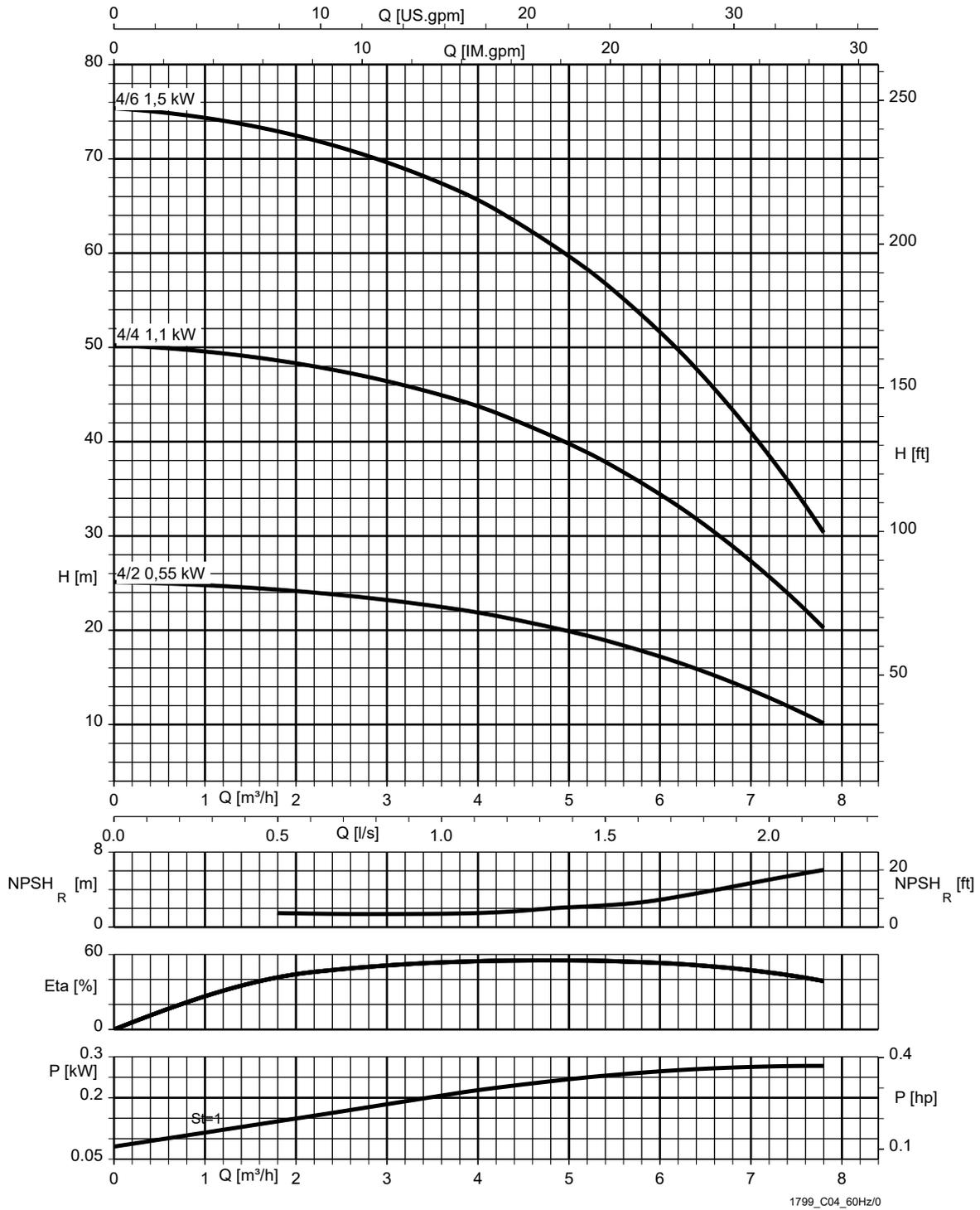
DPHM(C), 2, $n \approx 3500$ rpm



St = 1 | P per stage



DPHM(C), 4, $n \approx 3500$ rpm

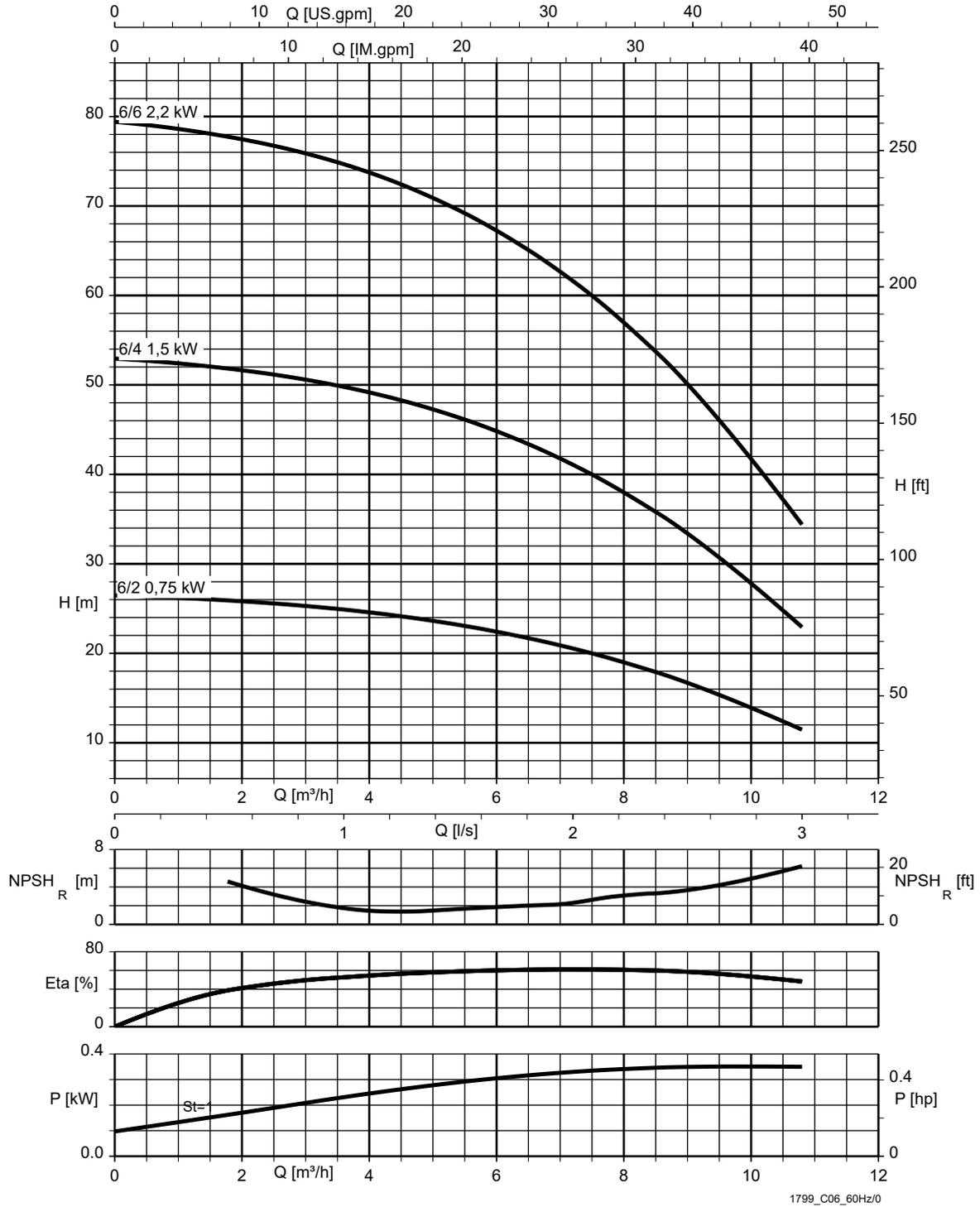


1799_C04_60Hz/0

St = 1 | P per stage



DPHM(C), 6, n ≈ 3500 rpm



St = 1 | P per stage

Dimensions and connections

Dimensions

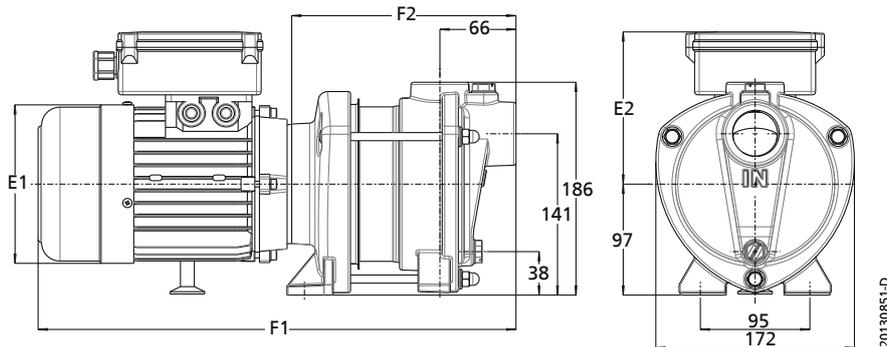


Fig. 1: Dimensions [mm]

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

Size	P_N	E1	E2	F1	F2
	[kW]	[mm]	[mm]	[mm]	[mm]
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

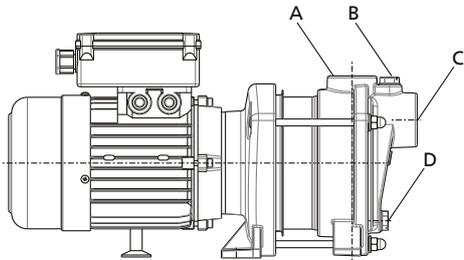


Fig. 2: Connections

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

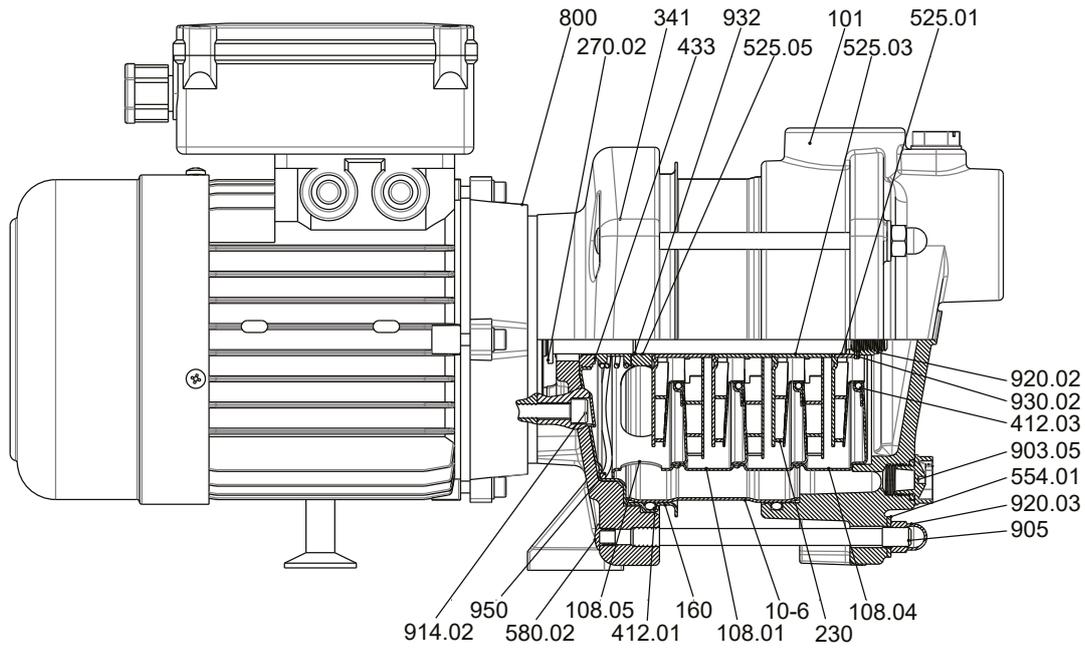


Fig. 3: General assembly drawing

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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