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 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 [m³/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

[1] Optional: -20 to +55 °C

Designation

Example: DPHMC 2/2

Designation key

Code	Description	
DPHM	Type series	
C	Material variant	
	C	Pump casing made of cast iron
	-	Pump casing made of cast stainless steel
2	Size, flow rate [m³/h] at BEP	
	2, 4, 6	
2	Number of stages [2]	

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

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

Materials

Overview of materials depending on material variant

Part No.	Description	In contact with water	DPHM	DPHMC
10-6	Pump shroud	✗	1.4301	
101	Pump casing	✗	1.4308	EN-GJL-250
108.01/.04/.05	Stage casing	✗	1.4301	
160	Cover	✗	1.4301	
-	Shaft	✗	1.4541	
230	Impeller	✗	1.4301	
341	Drive lantern	-	EN-GJL-250	
412	O-ring	✗	EPDM	
433	Mechanical seal	✗	B V E F F	B V P F F
525.01/.03/.05	Spacer sleeve	✗	1.4305	
903.05	Vent plug	✗	1.4301 / EPDM	PEHD / TPE
905	Tie bolt	-	1.4057	
920.02/.03	Nut	✗	1.4301	
930.02	Lock washer	✗	1.4401	
932	Circlip	✗	1.4571	
950	Spring	✗	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

Certifications

Overview

Label	Effective in:	Comment
ATTESTATION DE CONFORMITÉ SANITAIRE ACS	France	For material variant cast stainless steel
WRAS APPROVED PRODUCT	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.

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

Overview of product features / selection tables

Shaft seal

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	-

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

50 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	V_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 1~230 V [A]	Mat. No.	[kg]
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

60 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	V_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 1~230 V [A]	Mat. No.	[kg]
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

50 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	U_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 230/400 V [A]	Mat. No.	[kg]
2/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	290029451020A	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	290029451040A	13,8

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	U_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 230/400 V [A]	Mat. No.	[kg]
2/6	2790	0,55	5,20	0,75	+/-10	77,60	58,00	1 × M20 × 1,5	20	2,31/1,33	290029451060A	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	290049451020A	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	290049451040A	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	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	290069451020A	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

60 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	U_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 230/400 V [A]	Mat. No.	[kg]
2/2	3300	0,37	3,90	0,78	+20/-5	75,70	58,00	1 × M20 × 1,5	20	1,54/0,89	290029461020A	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	290029461040A	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	56,00	1 × M20 × 1,5	20	2,29/1,32	290049461020A	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

50 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	V_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 1~230 V [A]	Mat. No.	[kg]
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

60 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	V_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 1~230 V [A]	Mat. No.	[kg]
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

50 Hz

Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	U_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 230/400 V [A]	Mat. No.	[kg]
2/2	2750	0,37	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	290028451020A	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	290028451040A	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	290028451060A	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	290048451020A	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	290048451040A	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	4,60	0,78	+/-10	74,20	58,00	1 × M20 × 1,5	20	1,64/0,94	290068451020A	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

60 Hz

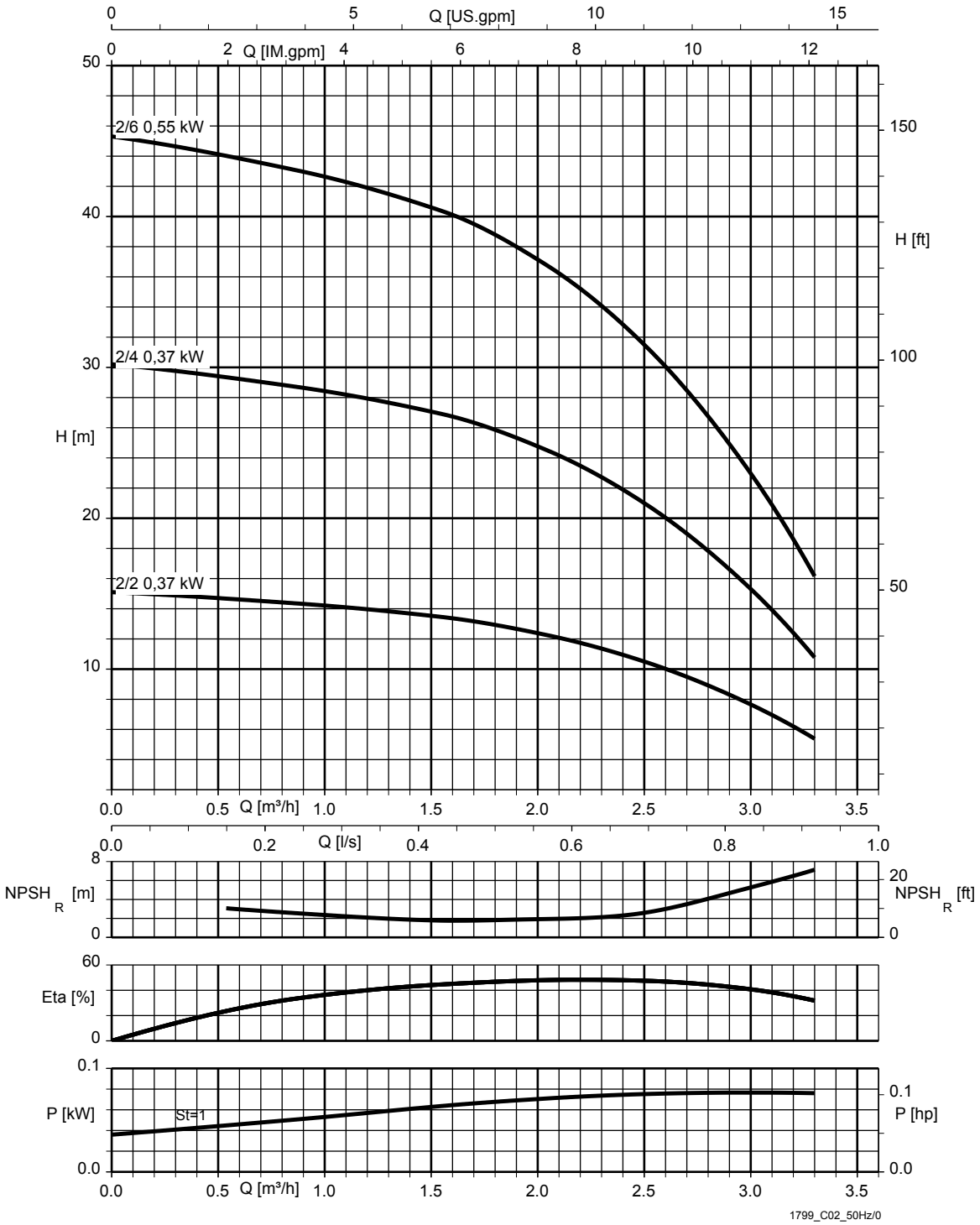
Size	n [rpm]	P_N [kW]	I_A/I_N	cos φ	U_N Tolerance [%]	η [%]	L_p [dB]	Cable gland	Maximum frequency of starts [h^{-1}]	I_N 230/400 V [A]	Mat. No.	[kg]
2/2	3300	0,37	3,90	0,78	+20/-5	75,70	58,00	1 × M20 × 1,5	20	1,54/0,89	290028461020A	13,1
2/4	3345	0,55	4,40	0,75	+20/-5	77,60	56,00	1 × M20 × 1,5	20	2,29/1,32	290028461040A	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

Size	n	P_N	I_A/I_N	cos φ	U_N Tolerance	η	L_p	Cable gland	Maximum frequency of starts	I_N 230/400 V	Mat. No.	[kg]
	[rpm]	[kW]			[%]	[%]	[dB]		[h^{-1}]	[A]		
4/2	3345	0,55	4,40	0,75	+20/-5	77,60	56,00	1 × M20 × 1,5	20	2,29/1,32	290048461020A	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

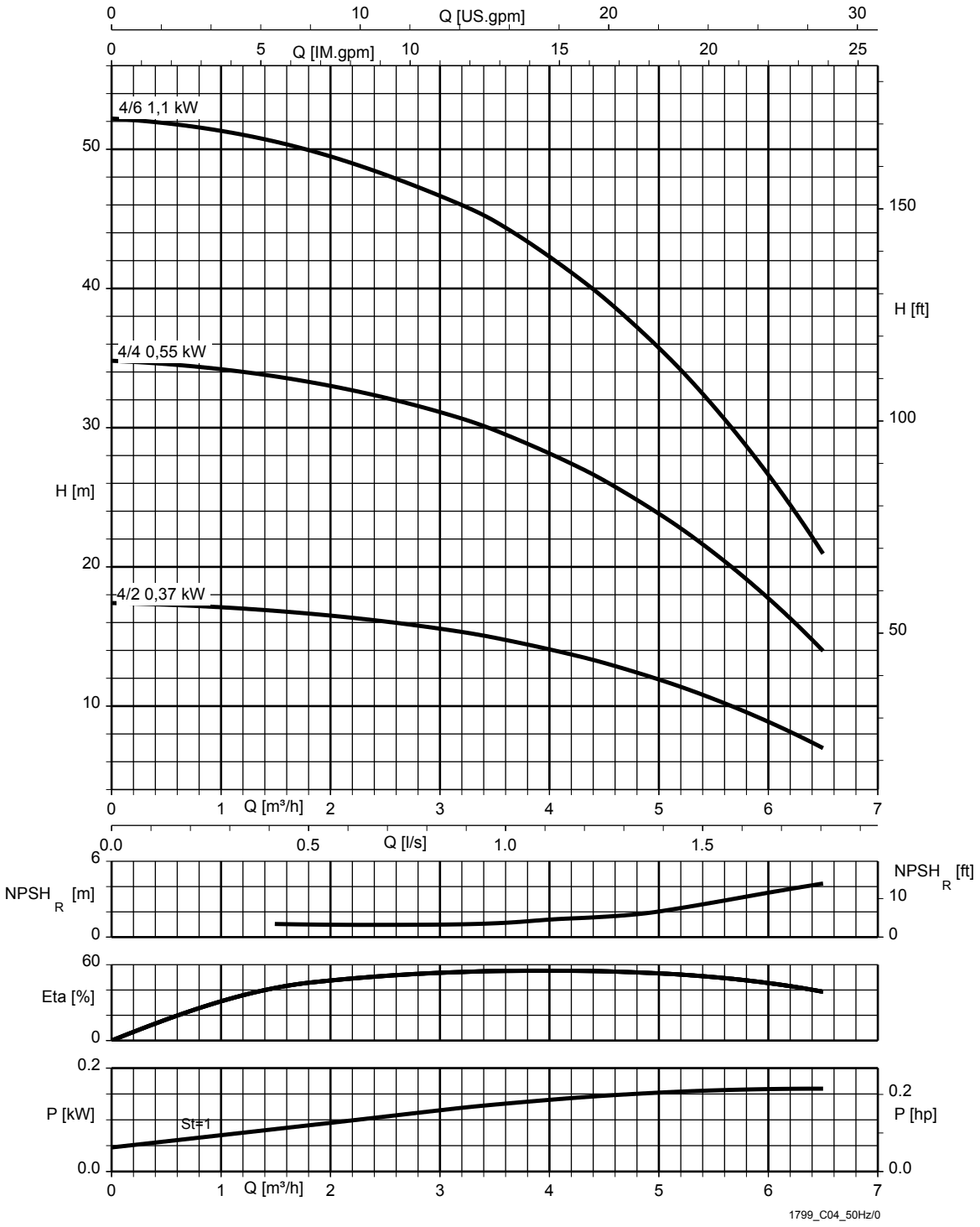
n ≈ 2900 rpm

DPHM(C), 2, n ≈ 2900 rpm



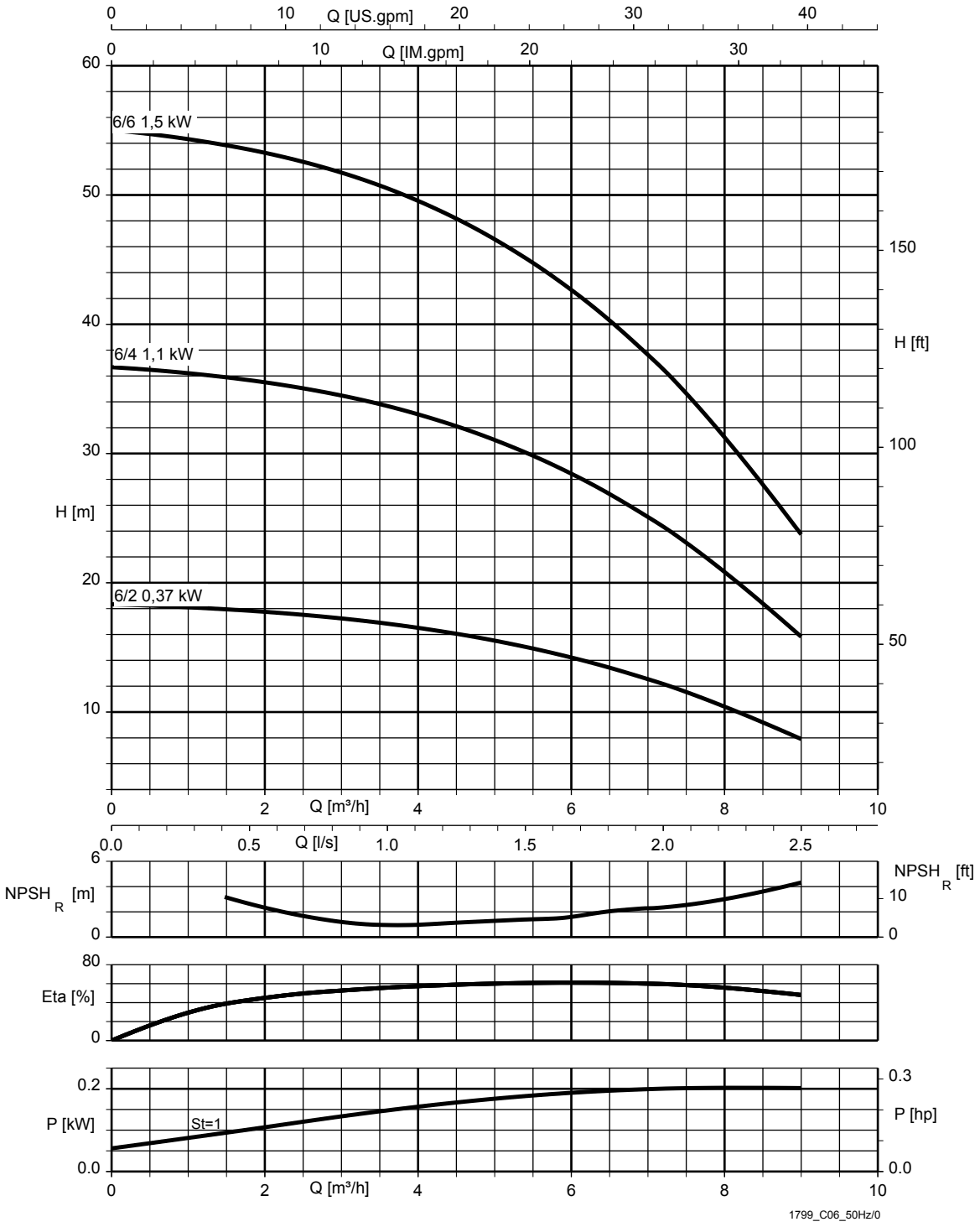
St = 1	P per stage

DPHM(C), 4, n ≈ 2900 rpm



St = 1	P per stage

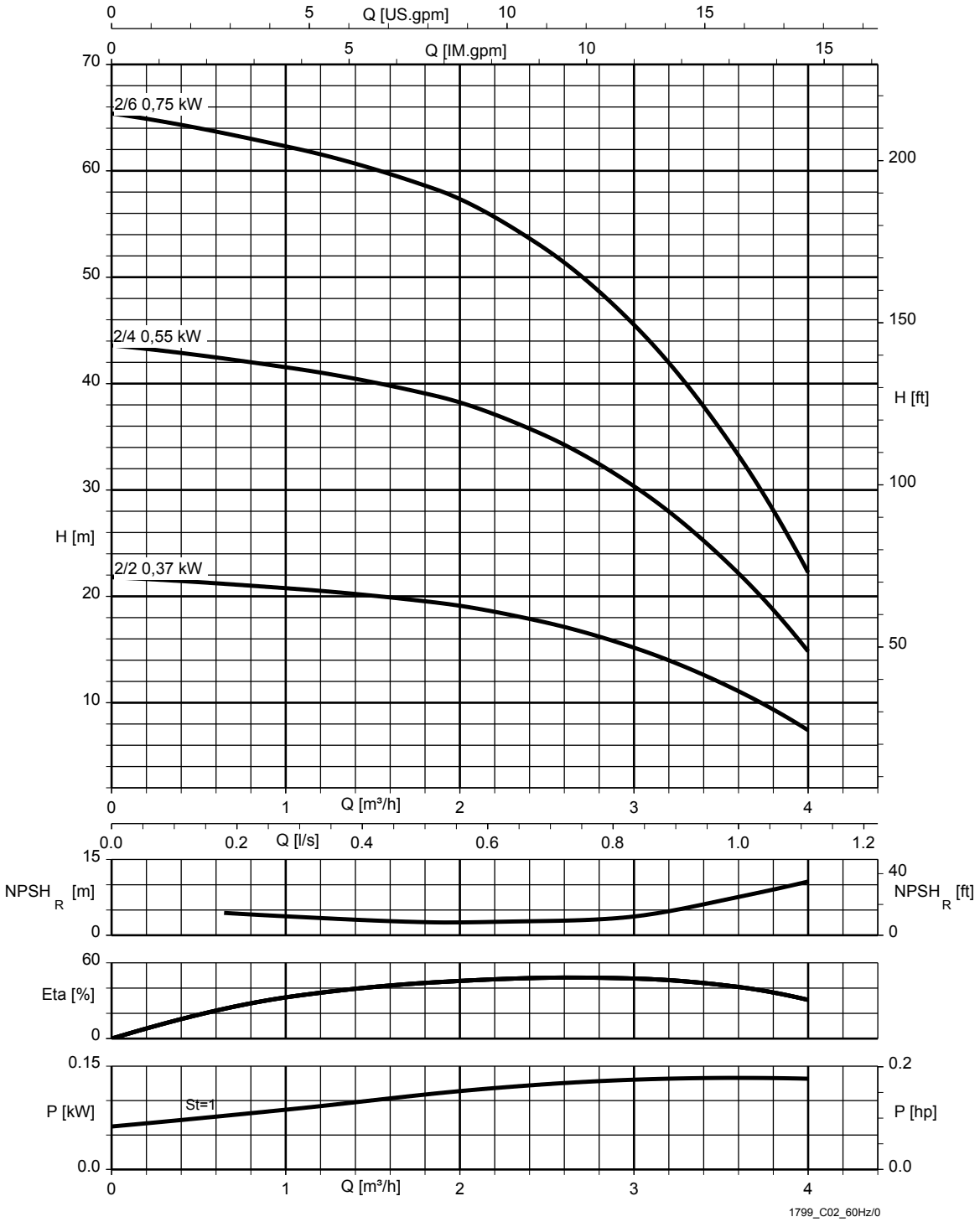
DPHM(C), 6, n ≈ 2900 rpm



St = 1	P per stage

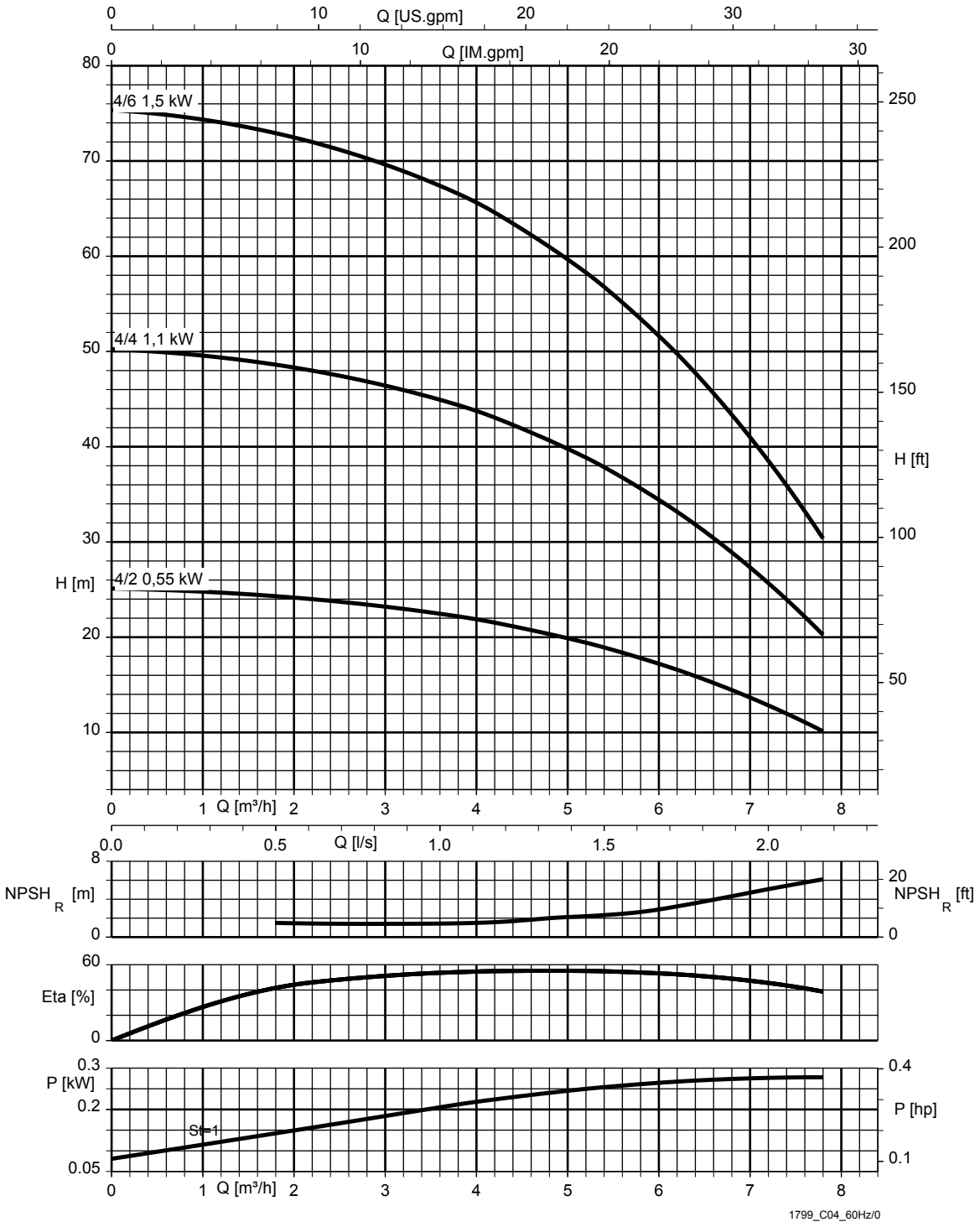
n ≈ 3500 rpm

DPHM(C), 2, n ≈ 3500 rpm



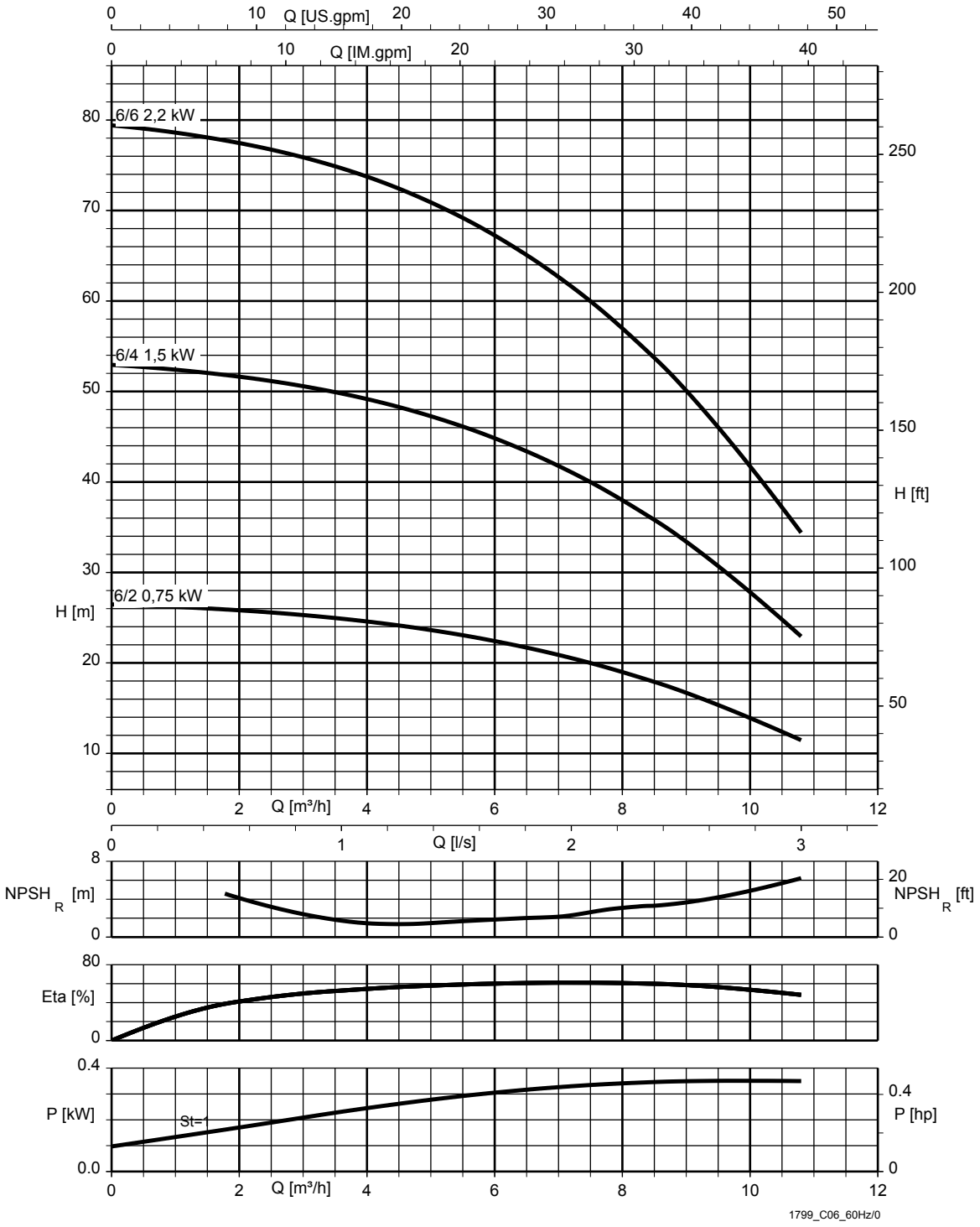
St = 1	P per stage

DPHM(C), 4, n ≈ 3500 rpm



St = 1	P per stage

DPHM(C), 6, n ≈ 3500 rpm



St = 1	P per stage

Dimensions and connections

Dimensions

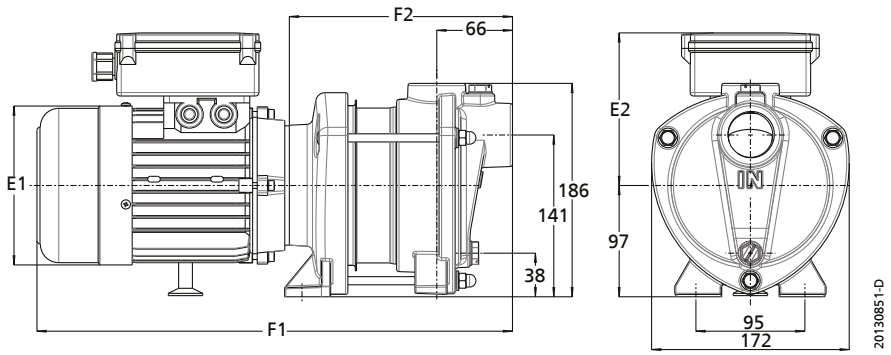


Fig. 1: Dimensions [mm]

Dimensions, 1~230 V, 50 Hz

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

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

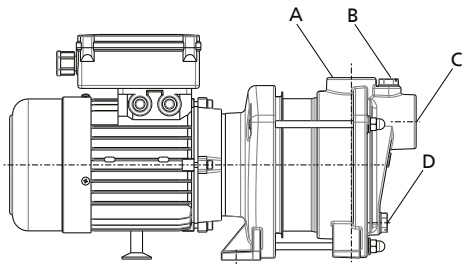


Fig. 2: Connections

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

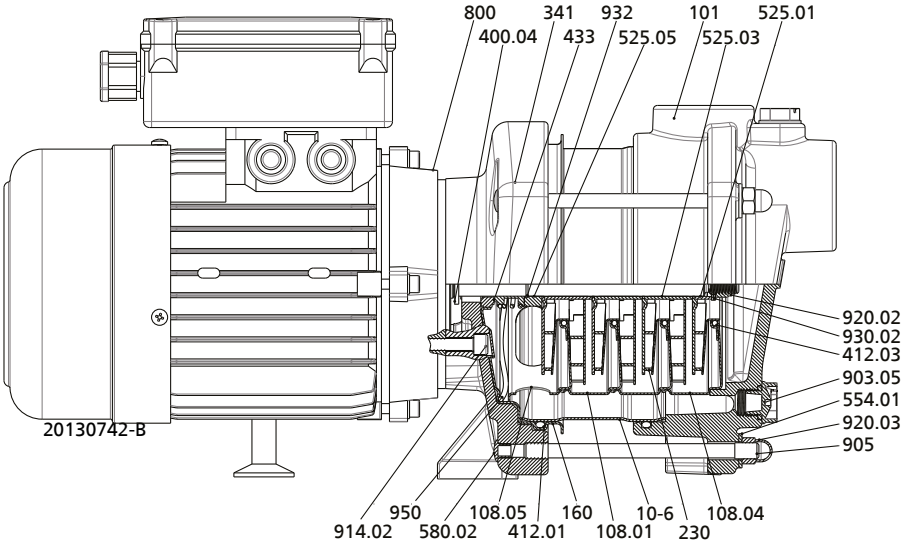


Fig. 3: General assembly drawing

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

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