

Блочные центробежные насосы с покрытием herborner.D-PM

Технические характеристики



По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Воронеж (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Technical descriptions.....	3	Characteristic curves 3000 rpm	29
Versions.....	8	DN 25.....	29
1500 rpm	8	DN 32.....	30
3000 rpm.....	11	DN 40.....	31
Characteristic curves 1500 rpm	13	DN 50.....	32
DN 25.....	13	Dimensions • Weights	33
DN 32.....	14	Technical data	35
DN 40.....	16	Exploded view.....	38
DN 50.....	17	Accessories	39
DN 65.....	20		
DN 80.....	23		
DN 100.....	25		
DN 125.....	26		
DN 150.....	27		
DN 200.....	28		



Use

The **herborner.D-PM** with its 100% coating is particularly suited for use in swimming complexes, leisure and adventure pools, theme parks, industrial plants and ship technology. The inline version of the block pump is intended for direct installation into a pipeline. The coating is approved for use in swimming pools and for drinking water, making it the right choice for just about any application.

The coating thickness of up to 1000 µm ensures an extremely smooth surface. This increases hydraulic efficiency by up to 10%, saving energy for years.

Coating

Corrosion protection and protection against aggressive media thanks to the 100% coating of all relevant parts at risk from corrosion and that come in contact with the medium. Corrosion damage to the pump or system components is thereby prevented.

Impeller protector

Special impeller protector made of highly durable plastic protects the impeller from seizing up due to corrosion (after standstill periods) and ensures that the pump runs quietly.

The version with a particularly small gap achieves high efficiency.

Mechanical seal protector

The seat of the mechanical seal is fully protected against corrosion. This prevents corrosion cavities forming in the intermediate casing in the area of the O-ring seat of the mechanical seal. Improving corrosion stability leads to reduced life cycle costs.

X-Lock-System

With the X-Lock-System, it is possible to achieve 100% coating of the internal threads in cast parts in order to avoid corrosion in the threads.

Service and maintenance

Only stainless steel screwed connections are used, allowing trouble-free maintenance of components for years.

Seal-Guard-System (optional)

Normally, a mechanical seal is defective after a few seconds of dry running. The innovative and maintenance-free Seal-Guard-System has a reserve medium supply for such cases that compensates for insufficient lubrication for a much longer period of time. Thus, the primary mechanical seal is effectively protected against dry running.

Impellers

Dynamically balanced impellers ensure vibration-free running and contribute significantly to the long lifetime of the pump. By correcting the diameter, all impellers can reach any duty point within the set of performance curves.



Closed multi vane impellers for clean to slightly soiled pumped media are used.

Construction

The robust and stable type of construction was consistently continued. The dynamic process design for easy disassembling of the interchangeable module is also an integral element. Variable flange positions in intervals of 45° also offer optimal design flexibility.

Venting

Simple ventilation of the pump in vertical installation by means of a ball valve to remove air accumulation and avoid dry running of the mechanical seal.

Efficiency

An extended lifetime is achieved through liberally dimensioned shafts and bearings. The 4-pole motors are also equipped with a relubrication unit from 1.1 kW.

These technological improvements reduce the life cycle costs of the pump significantly compared to standard motors.

Motor shaft

The rigid motor shaft made from high-alloy stainless steel ensures minimal deflection. In this way, seal leaks can be minimised and the service life of the motor shaft increased.

Shaft sealing

A maintenance-free mechanical seal is used for shaft sealing. It is independent of the direction of rotation and made from wear-resistant silicon carbide (SiC).

For the versions with the Seal-Guard-System, a mechanical seal made from wear-resistant silicon carbide (SiC) is used for sealing on the pump side and a mechanical seal in the form of cast carbon/chromium molybdenum on the drive side. The intermediate casing is filled with NSF H1 lubricating oil to lubricate and cool the mechanical seals. This oil even enables a short-term dry run.

All motors are equipped with a special seal for splash-proofing on the pump side.

By-pass channel

The mechanical seal is flushed optimally by the pumped medium through this channel. This gives the sliding surfaces the required lubricating and cooling medium thereby, extending the lifetime of the mechanical seal.

Installation

The pumps can be integrated into a piping system both horizontally and vertically with "Motor to the top".



Horizontal installation of the pump



Vertical installation of the pump

Optionally, a pump support for simple ground attachment can be included in delivery.



Vertical installation of the pump with pump support.

Output range

Speed	Q _{max} [m³/h]	H _{max} [m]
1500 rpm	650	61
3000 rpm	110	75

Noise

Noise emission is determined by complex influencing factors such as size, materials, operating and installation conditions. As early as the development stage, hydraulic measures and solid construction are used to reduce noise emission. The maximum sound pressure level is generally determined by air, magnetic and bearing noise from the drive motors. Noise levels are below the permissible limit curves specified for electrical motors as defined by DIN EN 60034-9. Noise emission during operation close to Q_{optimal} (optimal efficiency) is minimal.

Motor

A permanently energised surface-cooled synchronous motor is used. The motors continuously achieve the motor efficiency of energy class IE4. Synchronous motors require a frequency converter in order to operate because they cannot start up independently.

Design	IM B5/V1
Protection type	IP55
Speed	1500 rpm 3000 rpm
Connection	Δ 300 - 400 V
Insulation class EN 60034-1	F (155 °C)

The motors are fitted with a PTC thermistor as standard.

The motor is optionally available with an integrated or external frequency converter.

Frequency regulation of pumps is available and depends upon the working conditions.

1500 rpm: 900 - 1500 rpm

General data

Media temperature range from -5 to +60 °C
Explosion-proof version from -5 to +40 °C,
Ambient temperature range from -5 to +40 °C
Pumped medium free of H₂S, up to 1000 mg/l of chloride ions
Certificate of performance according to DIN EN ISO 9906, Class 2
Density of the pumped medium up to max. 1050 kg/m³
Viscosity of the pumped medium up to max. 1.75 mm²/s

In case of deviating application conditions, the output is corrected in accordance with customer-specific requirements.

Special configurations

Different insulation class
Heightened ambient temperature
Higher protection type
Enhanced tropical and moisture protection
Special materials
Special paint finish for all uncoated components

Asynchronous motors with efficiency class IE2 or IE3 (**herborner.D**)
Heat exchanger motor with heat transfer from motor to swimming pool water (**herborner.D-C**)
Customer-specific solutions

Model designation

D040-220A-0114P-W2B-L-EX

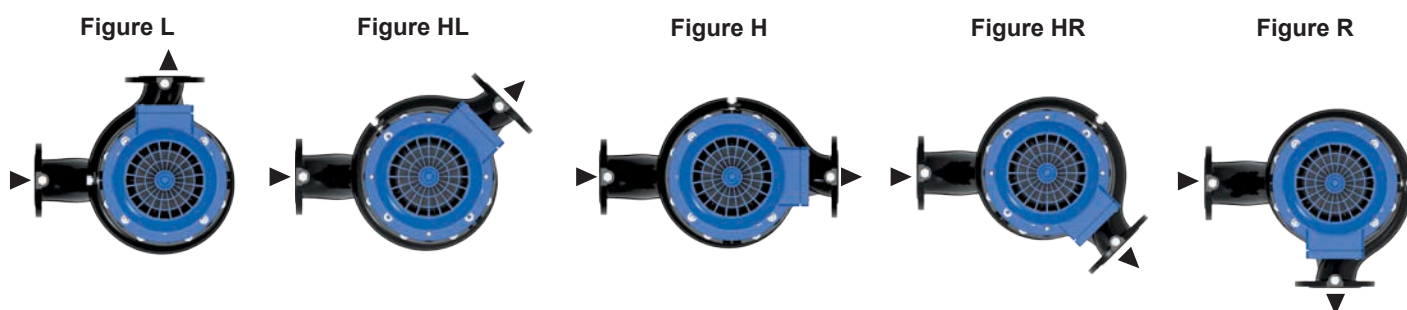
1 2 3 4 5 6 7 8 9 10

Number	Designation	Type code marking	Meaning
1	Design	D	herborner.D
2	Nominal diameter of pressure flange	025	DN 25
		032	DN 32
		040	DN 40
		050	DN 50
		065	DN 65
		080	DN 80
		100	DN 100
		125	DN 125
		150	DN 150
		200	DN 200
3	Construction dimensions	220	Centering diameter
4	Version	A-Z	Design version
5	Motor rating	003	0.37 kW
		005	0.55 kW
		007	0.75 kW
		011	1.1 kW
		015	1.5 kW
		022	2.2 kW
		030	3 kW
		040	4 kW
		055	5.5 kW
		075	7.5 kW
		110	11 kW
		150	15 kW
		185	18.5 kW
		220	22 kW
		300	30 kW
		370	37 kW
		450	45 kW
		550	55 kW
6	Speed	4	1500 rpm
		2	3000 rpm
7	Motor model	P	Permanent magnet motor
8	Materials	W2B	See materials
		W30	See materials
9	Flange position	L	Left
		RrL	Centred between the rear and left
		Rr	Rear
		RrR	Centred between the rear and right
		R	Right
10	Permitted use		Standard
		EX	Explosion protection

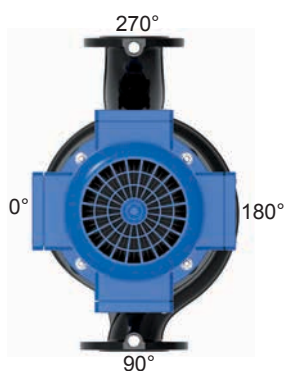
Materials

¹⁾	Individual components	W2B ²⁾	W30 ²⁾
025	Impeller protector	POM/FKM	POM
101	Pump casing	EN-GJL-250 ³⁾ (EN-JL1040)	CuSn10 (CC480K)
113	Intermediate casing	EN-GJL-250 ³⁾ (EN-JL1040)	CuSn10 (CC480K)
161	Casing cover	EN-GJL-250 ³⁾ (EN-JL1040)	CuSn10 (CC480K)
181	Pump support	EN-GJL-250 (EN-JL1040)	EN-GJL-250 (EN-JL1040)
230	Impeller	CuAl10Fe5Ni5-C (CC333G)	CuAl10Fe5Ni5-C (CC333G)
433.1	Mechanical seal	SiC/SiC/FKM	SiC/SiC/FKM
433.2	Mechanical seal	Carbon/CrMo cast/NBR	Carbon/CrMo cast/NBR
471	Seal cover	EN-GJL-250 (EN-JL1040)	EN-GJL-250 (EN-JL1040)
819	Motor shaft	X6CrNiMoTi17-12-2 (1.4571)	X6CrNiMoTi17-12-2 (1.4571)
	Mechanical seal protector	CuSn12-C (CC483K)	CuSn12-C (CC483K)

Flange position ^{4) 5)}



Terminal box alignment



¹⁾ See exploded view (page 31)

²⁾ Other material pairings upon request

³⁾ With thick coating

⁴⁾ The position of the terminal box may vary for versions with a frequency converter for direct mounting.

⁵⁾ See Versions (page 8)

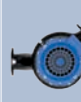
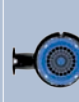
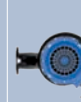
1500 rpm

Model	P ₂ [kW]			Flange position					Accessories		
		without pump support	with pump support	L	RrL	Rr	RrR	R	Seal-Guard-System	frequency converter (direct installation)	frequency converter (wall installation)
											
D025-125A	0,37	●	○	○	○	●	○	○	-	○	○
D025-160A	0,37	●	○	○	○	●	○	○	-	○	○
D025-200A	0,55	●	○	○	○	●	○	○	○	○	○
D025-200A	0,75	●	○	○	○	●	○	○	○	○	○
D025-200A	1,1	●	○	○	○	●	○	○	○	○	○
D032-160A	0,37	●	○	○	○	●	○	○	-	○	○
D032-200A	0,55	●	○	○	○	●	○	○	○	○	○
D032-200A	0,75	●	○	○	○	●	○	○	○	○	○
D032-200A	1,1	●	○	○	○	●	○	○	○	○	○
D032-250A	1,1	●	○	○	○	●	○	○	○	○	○
D032-250A	1,5	●	○	○	○	●	○	○	○	○	○
D032-250A	2,2	●	○	○	○	●	○	○	○	○	○
D032-250A	3	●	○	○	○	●	○	○	○	○	○
D032-250A	4	●	○	○	○	●	○	○	○	○	○
D032-250A	2,2	●	○	○	○	●	○	○	○	○	○
D040-160A	0,37	●	○	○	○	●	○	○	-	○	○
D040-160A	0,55	●	○	○	○	●	○	○	○	○	○
D040-160A	0,75	●	○	○	○	●	○	○	○	○	○
D040-220A	1,1	●	○	○	○	●	○	○	○	○	○
D040-220A	1,5	●	○	○	○	●	○	○	○	○	○
D040-270A	2,2	●	○	○	○	●	○	○	○	○	○
D040-270A	3	●	○	○	○	●	○	○	○	○	○
D040-270A	4	●	○	○	○	●	○	○	○	○	○
D040-270A	5,5	●	○	○	○	●	○	○	○	○	○
D050-140A	0,55	●	○	○	○	●	○	○	○	○	○
D050-140A	0,75	●	○	○	○	●	○	○	○	○	○
D050-140A	1,1	●	○	○	○	●	○	○	○	○	○
D050-140A	1,5	●	○	○	○	●	○	○	○	○	○
D050-160A	0,75	●	○	○	○	●	○	○	○	○	○
D050-160A	1,1	●	○	○	○	●	○	○	○	○	○
D050-190A	1,5	●	○	○	○	●	○	○	○	○	○
D050-190A	2,2	●	○	○	○	●	○	○	○	○	○
D050-190A	3	●	○	○	○	●	○	○	○	○	○
D050-240A	1,5	●	○	○	○	●	○	○	○	○	○
D050-240A	2,2	●	○	○	○	●	○	○	○	○	○
D050-240A	3	●	○	○	○	●	○	○	○	○	○
D050-300A	5,5	●	○	○	○	●	○	○	○	○	○
D065-200A	1,1	●	○	○	○	●	○	○	○	○	○
D065-200A	1,5	●	○	○	○	●	○	○	○	○	○
D065-200A	2,2	●	○	○	○	●	○	○	○	○	○
D065-220A	2,2	●	○	○	○	●	○	○	○	○	○
D065-220A	3	●	○	○	○	●	○	○	○	○	○
D065-220A	4	●	○	○	○	●	○	○	○	○	○
D065-240A	3	●	○	○	○	●	○	○	○	○	○
D065-240A	4	●	○	○	○	●	○	○	○	○	○
D065-270A	4	●	○	○	○	●	○	○	○	○	○
D065-270A	5,5	●	○	○	○	●	○	○	○	○	○

● Standard

○ Option

- cannot be implemented

Model	P ₂ [kW]			Flange position					Accessories		
		without pump support	with pump support	L	RrL	Rr	RrR	R	Seal- Guard- System	frequency converter (direct instal- lation)	frequency converter (wall installa- tion)
											
D065-270C	5,5	●	○	○	○	●	○	○	○	○	○
D065-300B	7,5	●	○	○	○	●	○	○	○	○	○
D065-300B	11	●	○	○	○	●	○	○	○	○	○
D080-170A	1,1	●	○	○	○	●	○	○	○	○	○
D080-170A	1,5	●	○	○	○	●	○	○	○	○	○
D080-170A	2,2	●	○	○	○	●	○	○	○	○	○
D080-210A	3	●	○	○	○	●	○	○	○	○	○
D080-210A	4	●	○	○	○	●	○	○	○	○	○
D080-210A	5,5	●	○	○	○	●	○	○	○	○	○
D080-255A	3	●	○	○	○	●	○	○	○	○	○
D080-255A	4	●	○	○	○	●	○	○	○	○	○
D080-255A	5,5	●	○	○	○	●	○	○	○	○	○
D080-330A	11	●	○	○	○	●	○	○	○	○	○
D080-330A	15	●	○	○	○	●	○	○	○	○	○
D080-330A	18,5	●	○	○	○	●	○	○	○	○	○
D080-330A	22	●	○	○	○	●	○	○	○	○	○
D100-180A	2,2	●	○	○	○	●	○	○	○	○	○
D100-180A	3	●	○	○	○	●	○	○	○	○	○
D100-180A	4	●	○	○	○	●	○	○	○	○	○
D100-200A	2,2	●	○	○	○	●	○	○	○	○	○
D100-200A	3	●	○	○	○	●	○	○	○	○	○
D100-200A	4	●	○	○	○	●	○	○	○	○	○
D100-210A	3	●	○	○	○	●	○	○	○	○	○
D100-210A	4	●	○	○	○	●	○	○	○	○	○
D100-210A	5,5	●	○	○	○	●	○	○	○	○	○
D100-210A	7,5	●	○	○	○	●	○	○	○	○	○
D100-240A	5,5	●	○	○	○	●	○	○	○	○	○
D100-240A	7,5	●	○	○	○	●	○	○	○	○	○
D100-270A	5,5	●	○	○	○	●	○	○	○	○	○
D100-270A	7,5	●	○	○	○	●	○	○	○	○	○
D100-270A	11	●	○	○	○	●	○	○	○	○	○
D100-330A	18,5	●	○	○	○	●	○	○	○	○	○
D100-330A	22	●	○	○	○	●	○	○	○	○	○
D100-330C	11	●	○	○	○	●	○	○	○	○	○
D100-330C	15	●	○	○	○	●	○	○	○	○	○
D125-360A	3	●	○	○	○	●	○	○	○	○	○
D125-250A	4	●	○	○	○	●	○	○	○	○	○
D125-250A	5,5	●	○	○	○	●	○	○	○	○	○
D125-250A	7,5	●	○	○	○	●	○	○	○	○	○
D125-270A	5,5	●	○	○	○	●	○	○	○	○	○
D125-270A	7,5	●	○	○	○	●	○	○	○	○	○
D125-270A	11	●	○	○	○	●	○	○	○	○	○
D125-270A	15	●	○	○	○	●	○	○	○	○	○
D125-270B	11	●	○	○	○	●	○	○	○	○	○
D125-270B	15	●	○	○	○	●	○	○	○	○	○
D125-270B	18,5	●	○	○	○	●	○	○	○	○	○
D125-270B	22	●	○	○	○	●	○	○	○	○	○

● Standard

○ Option

- cannot be implemented

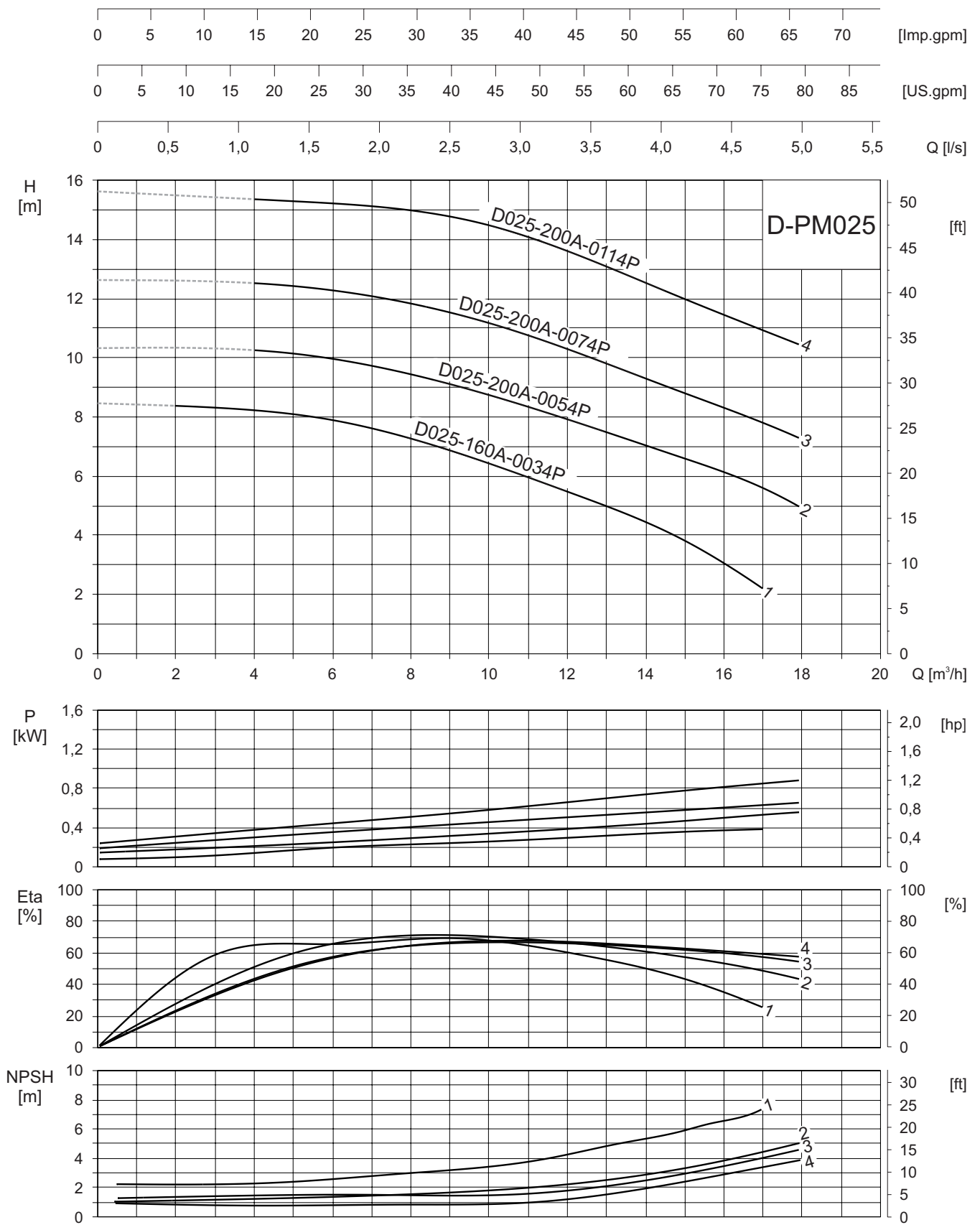
Model	P ₂ [kW]			Flange position					Accessories		
		without pump support	with pump support	L	RrL	Rr	RrR	R	Seal- Guard- System	frequency converter (direct instal- lation)	frequency converter (wall installa- tion)
											
D125-330A	22	●	○	○	○	●	○	○	○	○	○
D125-330A	30	●	○	○	○	●	○	○	○	○	○
D150-250A	5,5	●	○	○	○	●	○	○	○	○	○
D150-250A	7,5	●	○	○	○	●	○	○	○	○	○
D150-250A	11	●	○	○	○	●	○	○	○	○	○
D150-270B	11	●	○	○	○	●	○	○	○	○	○
D150-270B	15	●	○	○	○	●	○	○	○	○	○
D150-270B	18,5	●	○	○	○	●	○	○	○	○	○
D150-270B	22	●	○	○	○	●	○	○	○	○	○
D150-300A	15	●	○	○	○	●	○	○	○	○	○
D150-300A	18,5	●	○	○	○	●	○	○	○	○	○
D150-300A	22	●	○	○	○	●	○	○	○	○	○
D150-400A	37	●	○	○	○	●	○	○	○	○	○
D150-400A	45	●	○	○	○	●	○	○	○	○	○
D150-400A	55	●	○	○	○	●	○	○	○	○	○
D200-250A	5,5	●	○	○	○	●	○	○	○	○	○
D200-250A	7,5	●	○	○	○	●	○	○	○	○	○
D200-250A	11	●	○	○	○	●	○	○	○	○	○
D200-250A	15	●	○	○	○	●	○	○	○	○	○
D200-270B	11	●	○	○	○	●	○	○	○	○	○
D200-270B	15	●	○	○	○	●	○	○	○	○	○
D200-270B	18,5	●	○	○	○	●	○	○	○	○	○
D200-270B	22	●	○	○	○	●	○	○	○	○	○
D200-350A	30	●	○	○	○	●	○	○	○	○	○
D200-350A	37	●	○	○	○	●	○	○	○	○	○
D200-350A	45	●	○	○	○	●	○	○	○	○	○
D200-350A	55	●	○	○	○	●	○	○	○	○	○

3000 rpm

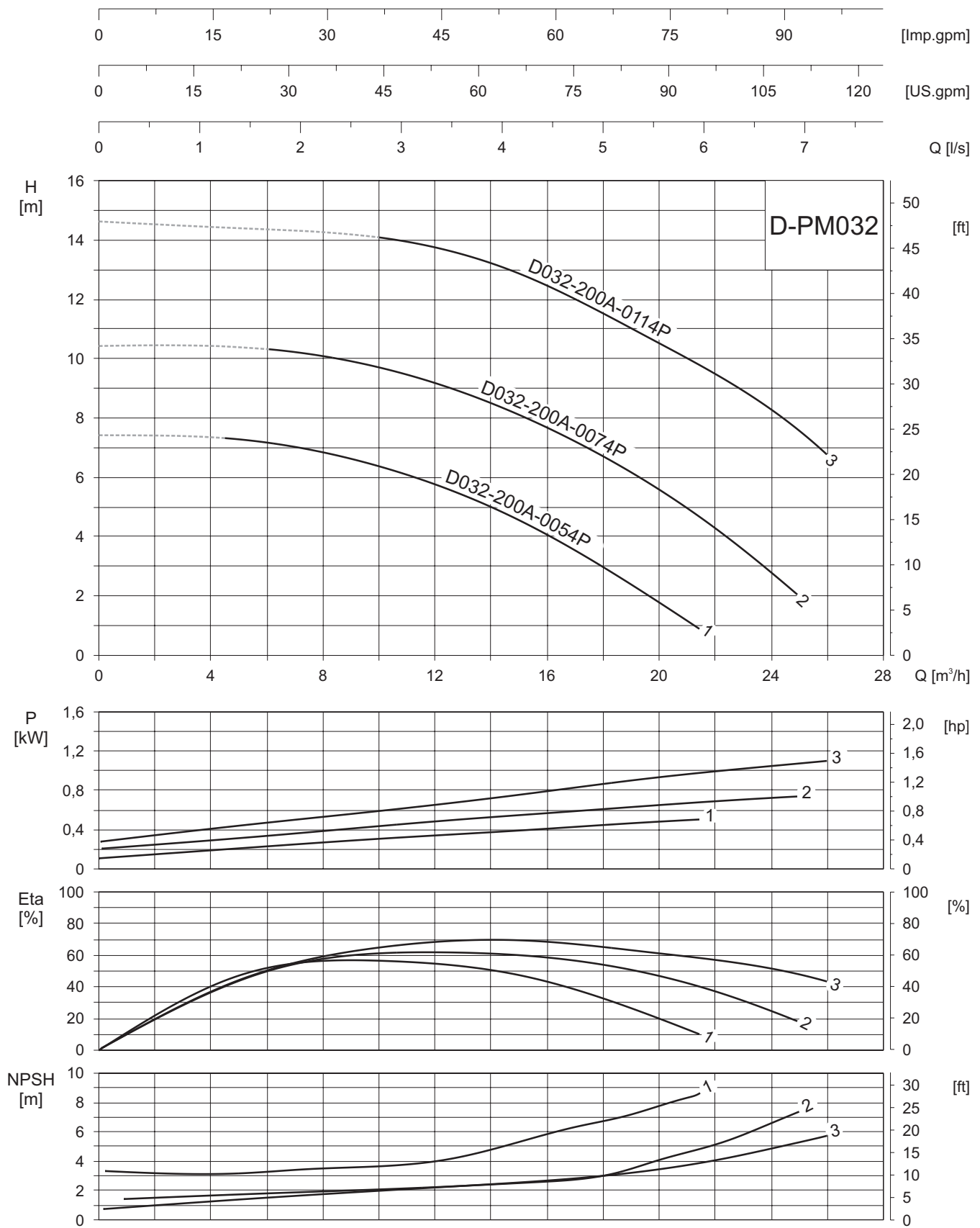
Model	P ₂ [kW]			Flange position					Accessories		
		without pump support	with pump support	L	RrL	Rr	RrR	R	Seal- Guard- System	frequency converter (direct instal- lation)	frequency converter (wall instal- lation)
											
D025-125A	2,2	●	○	○	○	●	○	○	○	○	○
D025-160A	1,1	●	○	○	○	●	○	○	○	○	○
D025-160A	1,5	●	○	○	○	●	○	○	○	○	○
D025-160A	2,2	●	○	○	○	●	○	○	○	○	○
D025-160A	3	●	○	○	○	●	○	○	○	○	○
D025-200A	5,5	●	○	○	○	●	○	○	○	○	○
D032-160A	1,1	●	○	○	○	●	○	○	○	○	○
D032-160A	1,5	●	○	○	○	●	○	○	○	○	○
D032-160A	2,2	●	○	○	○	●	○	○	○	○	○
D032-160A	3	●	○	○	○	●	○	○	○	○	○
D032-200A	5,5	●	○	○	○	●	○	○	○	○	○
D032-200A	7,5	●	○	○	○	●	○	○	○	○	○
D032-250A	11	●	○	○	○	●	○	○	○	○	○
D032-250A	15	●	○	○	○	●	○	○	○	○	○
D032-250A	18,5	●	○	○	○	●	○	○	○	○	○
D040-160A	2,2	●	○	○	○	●	○	○	○	○	○
D040-160A	3	●	○	○	○	●	○	○	○	○	○
D040-160A	4	●	○	○	○	●	○	○	○	○	○
D040-160A	5,5	●	○	○	○	●	○	○	○	○	○
D040-220A	7,5	●	○	○	○	●	○	○	○	○	○
D040-220A	11	●	○	○	○	●	○	○	○	○	○
D040-220A	15	●	○	○	○	●	○	○	○	○	○
D040-270A	7,5	●	○	○	○	●	○	○	○	○	○
D040-270A	11	●	○	○	○	●	○	○	○	○	○
D040-270A	15	●	○	○	○	●	○	○	○	○	○
D040-270A	18,5	●	○	○	○	●	○	○	○	○	○
D040-270A	22	●	○	○	○	●	○	○	○	○	○
D050-160A	1,5	●	○	○	○	●	○	○	○	○	○
D050-160A	2,2	●	○	○	○	●	○	○	○	○	○
D050-160A	3	●	○	○	○	●	○	○	○	○	○
D050-160A	4	●	○	○	○	●	○	○	○	○	○
D050-160A	5,5	●	○	○	○	●	○	○	○	○	○
D050-160A	7,5	●	○	○	○	●	○	○	○	○	○
D065-200A	11	●	○	○	○	●	○	○	○	○	○
D065-200A	15	●	○	○	○	●	○	○	○	○	○
D065-300B	11	●	○	○	○	●	○	○	○	○	○
D065-300B	15	●	○	○	○	●	○	○	○	○	○
D065-300B	18,5	●	○	○	○	●	○	○	○	○	○
D065-300B	22	●	○	○	○	●	○	○	○	○	○
D080-240A	11	●	○	○	○	●	○	○	○	○	○
D080-240A	15	●	○	○	○	●	○	○	○	○	○
D080-240A	18,5	●	○	○	○	●	○	○	○	○	○
D080-240A	22	●	○	○	○	●	○	○	○	○	○
D080-255A	5,5	●	○	○	○	●	○	○	○	○	○
D080-255A	7,5	●	○	○	○	●	○	○	○	○	○
D080-255A	11	●	○	○	○	●	○	○	○	○	○
D080-255A	15	●	○	○	○	●	○	○	○	○	○
D080-255A	18,5	●	○	○	○	●	○	○	○	○	○
D080-255A	22	●	○	○	○	●	○	○	○	○	○

Model	P ₂ [kW]	without pump support	with pump support	Flange position					Accessories		
				L 	RrL 	Rr 	RrR 	R 	Seal-Guard-System 	frequency converter (direct installation) 	frequency converter (wall installation) 
D100-330C	11	●	○	○	○	●	○	○	○	○	○
D100-330C	15	●	○	○	○	●	○	○	○	○	○
D100-330C	18,5	●	○	○	○	●	○	○	○	○	○
D100-330C	22	●	○	○	○	●	○	○	○	○	○
D125-250A	11	●	○	○	○	●	○	○	○	○	○
D125-250A	15	●	○	○	○	●	○	○	○	○	○
D125-250A	18,5	●	○	○	○	●	○	○	○	○	○
D125-250A	22	●	○	○	○	●	○	○	○	○	○

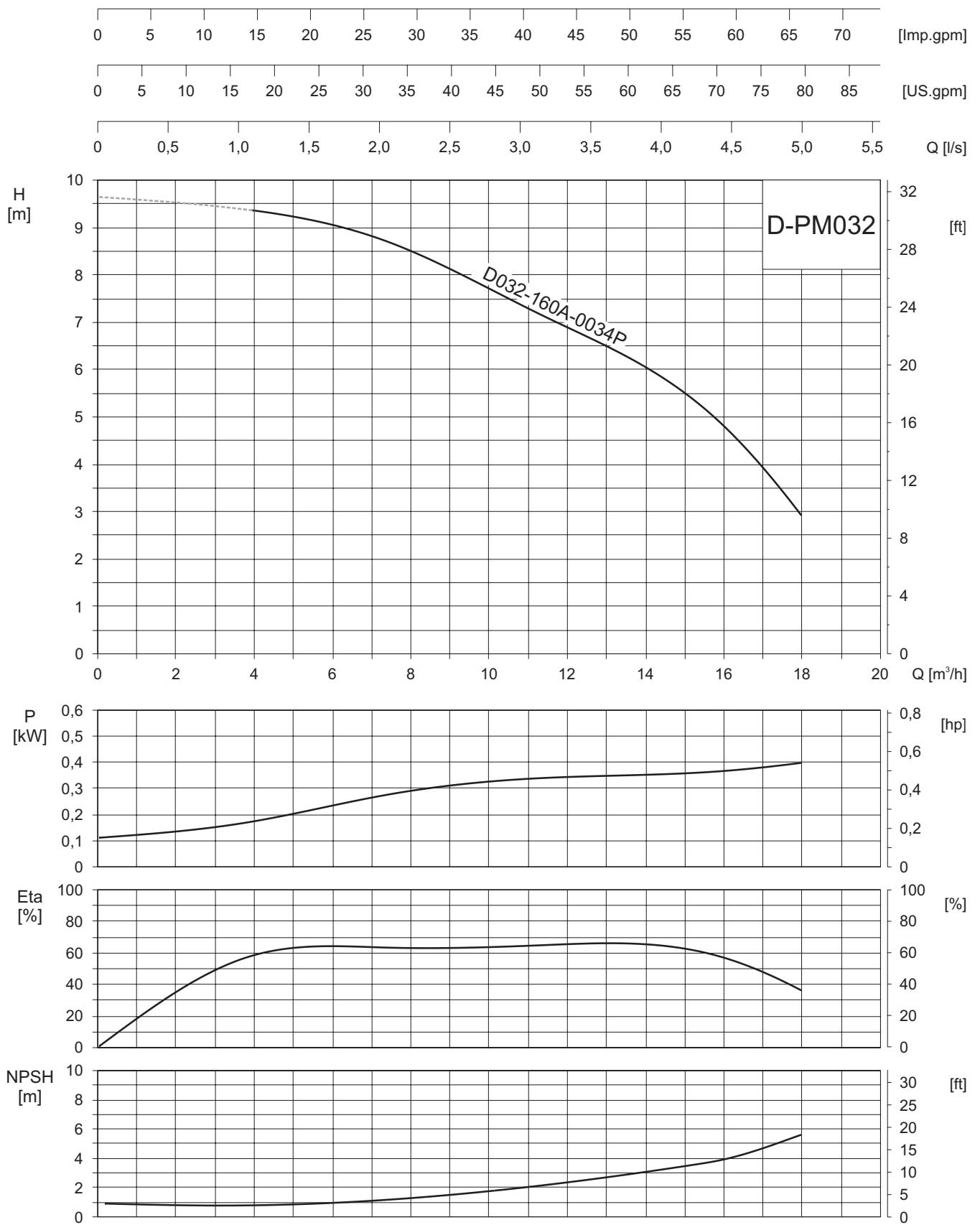
1500 rpm



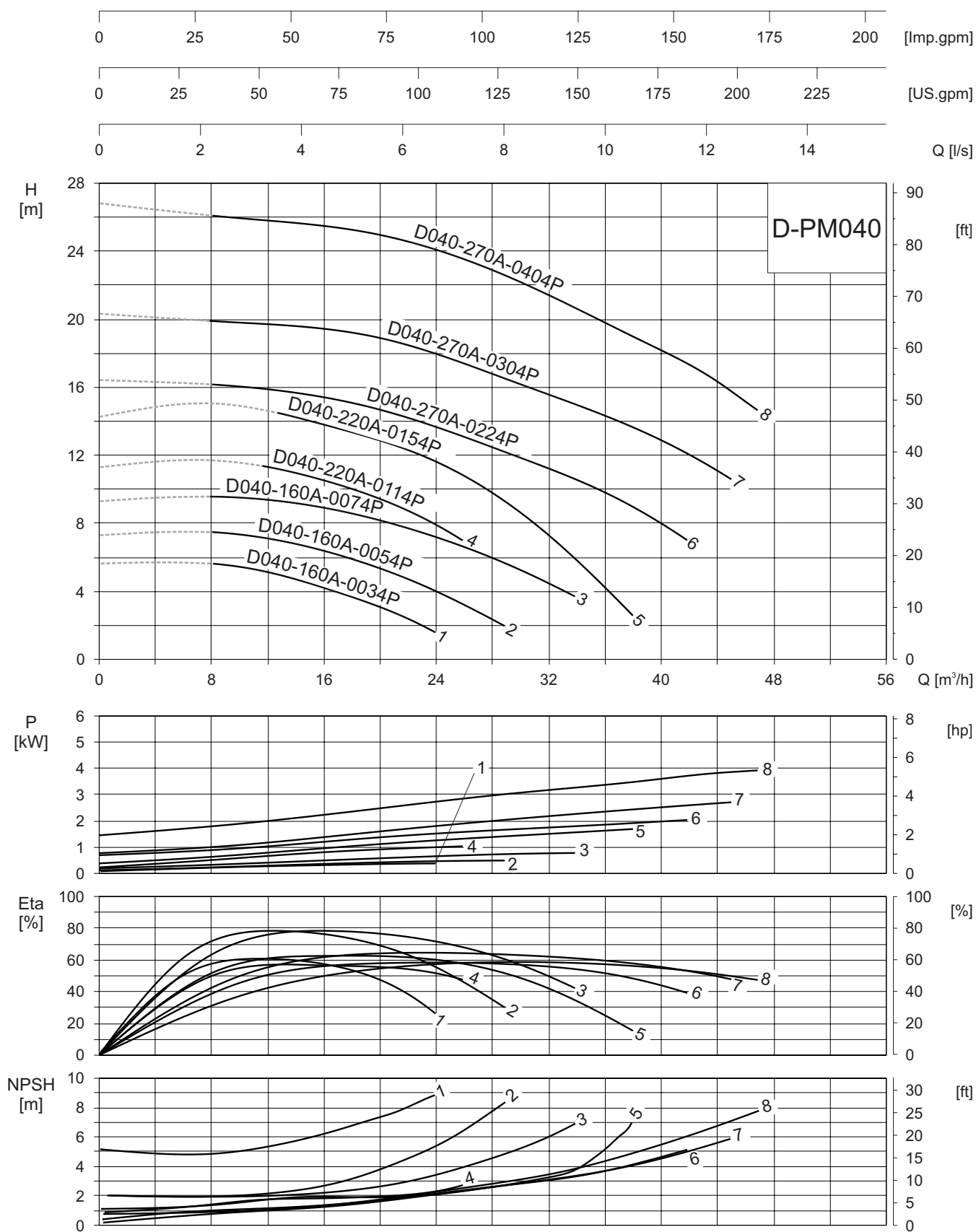
1500 rpm



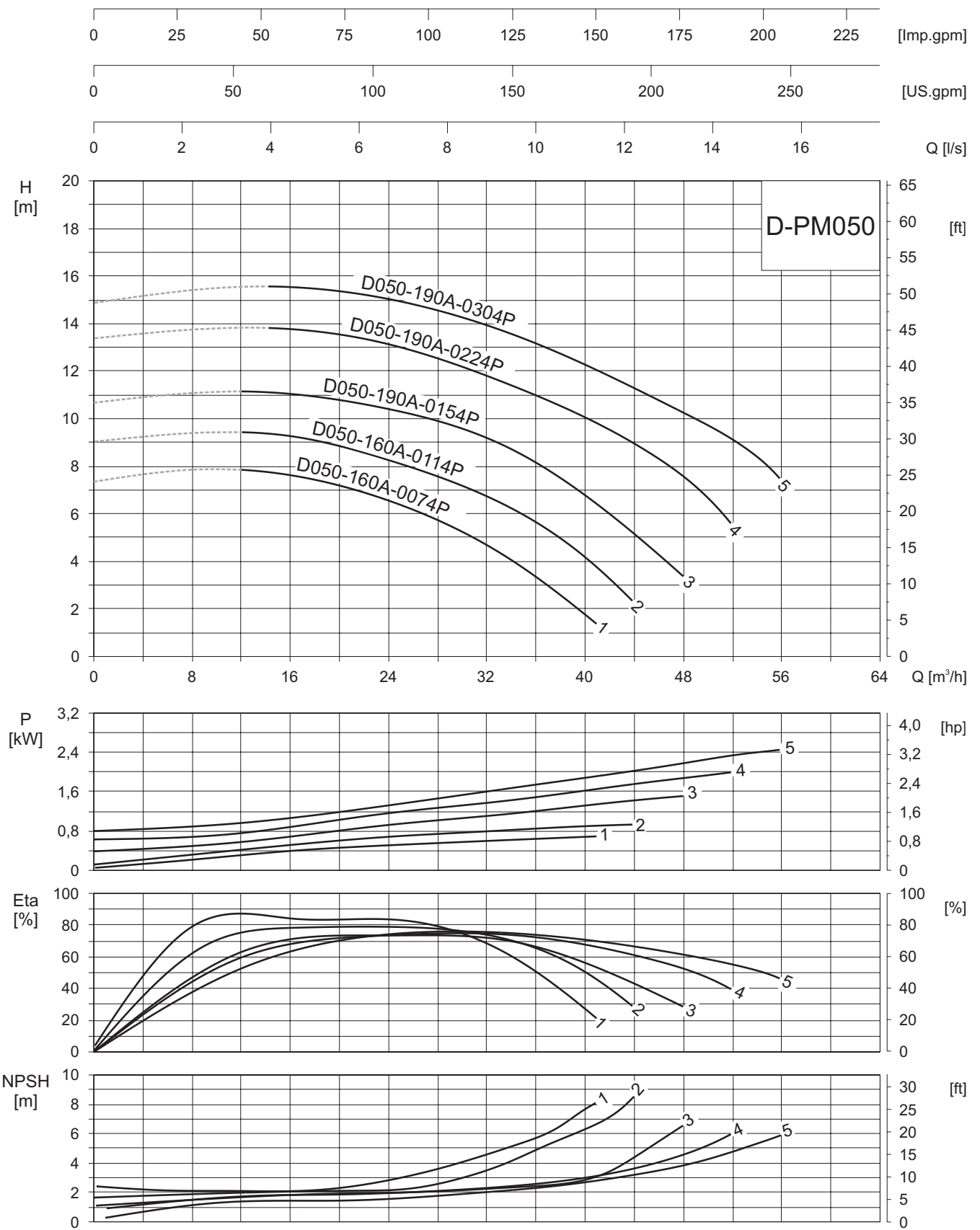
1500 rpm



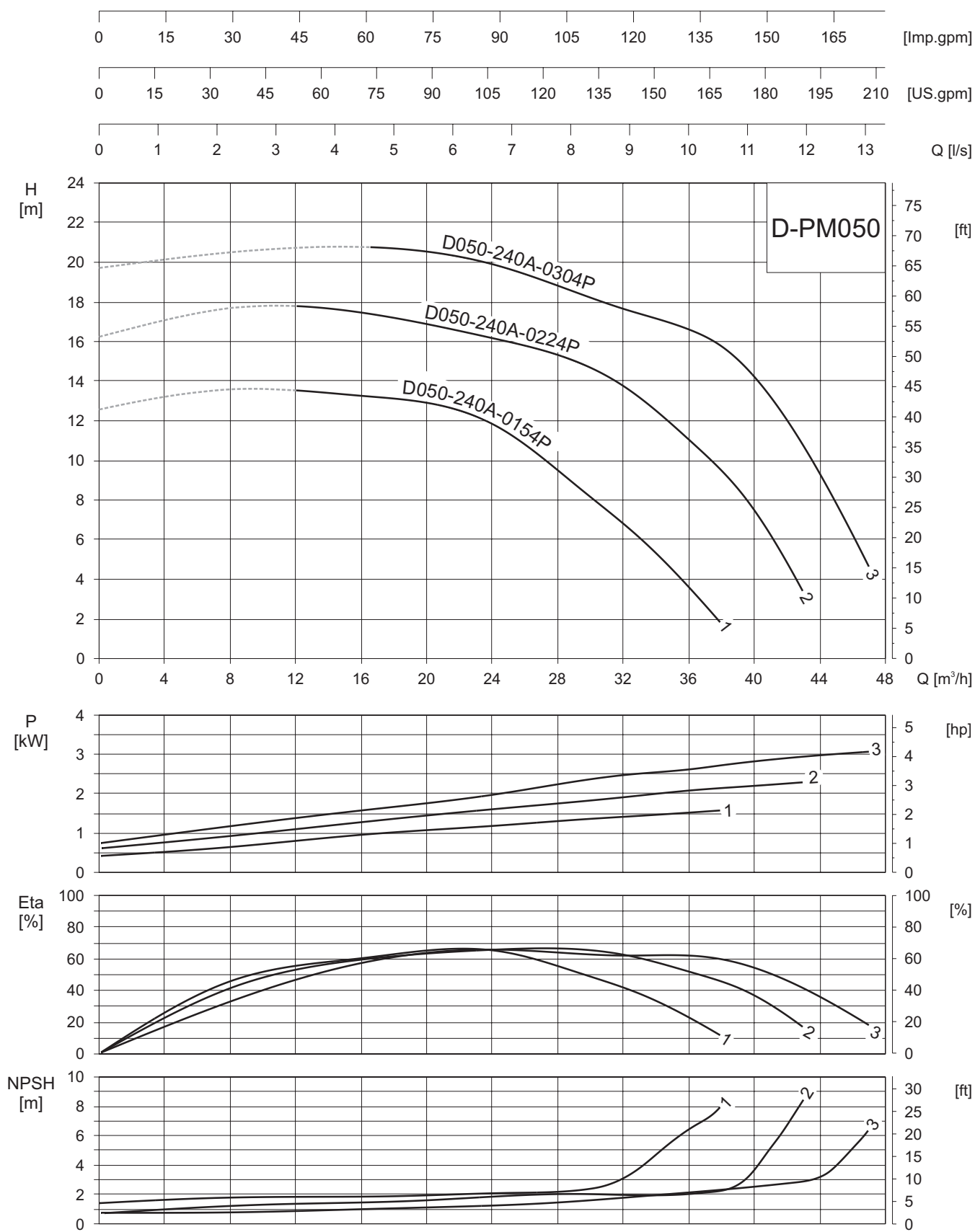
1500 rpm



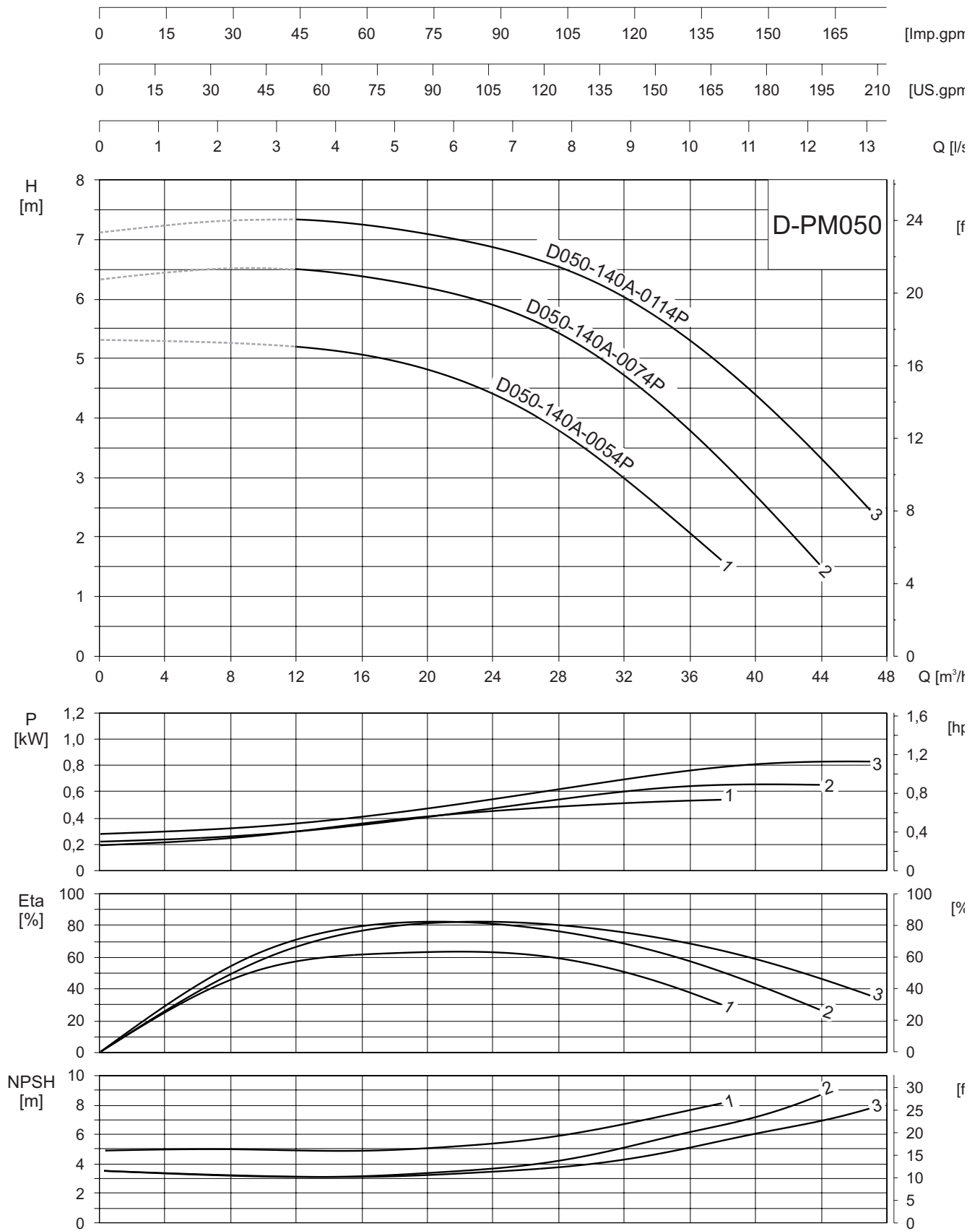
1500 rpm



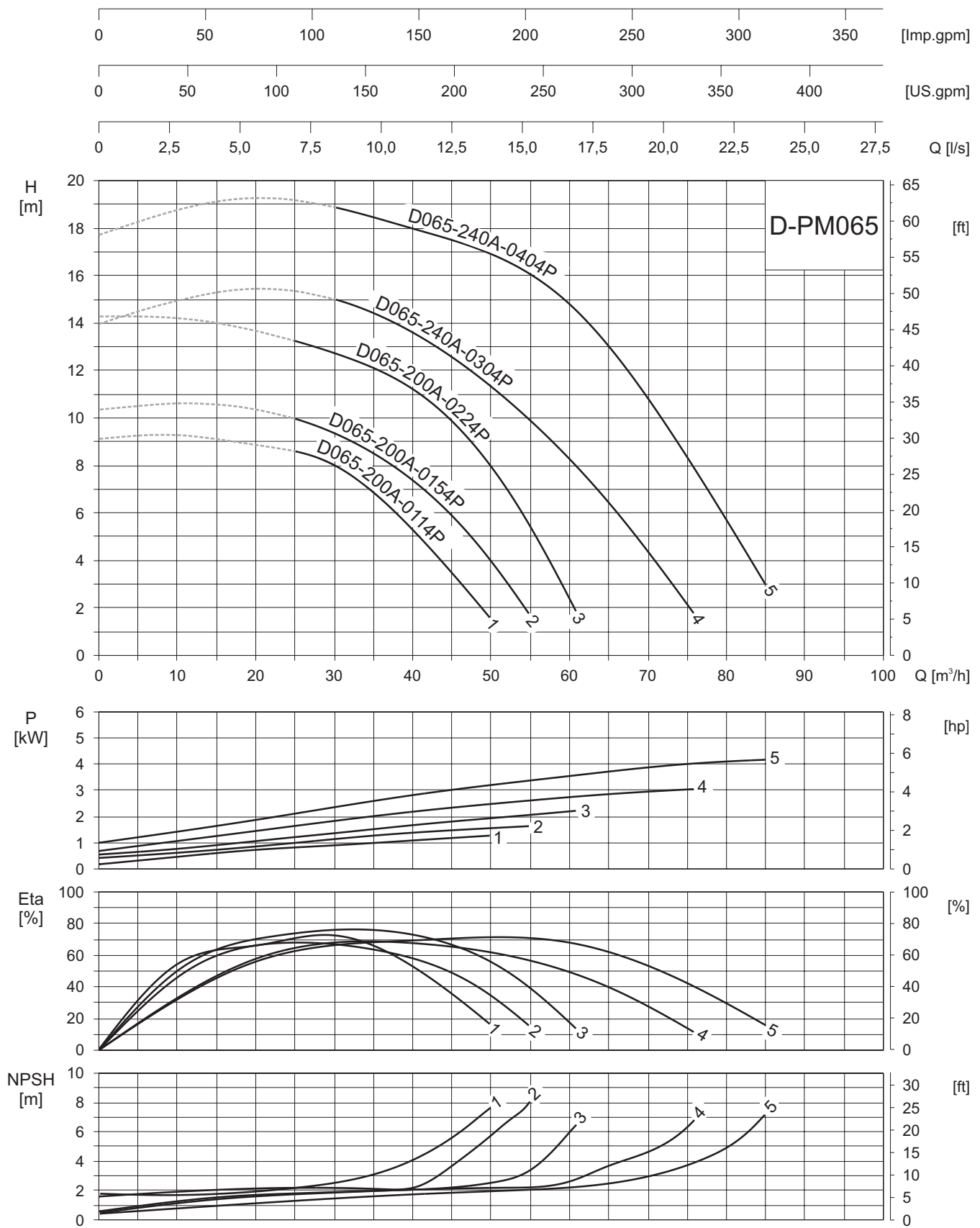
1500 rpm



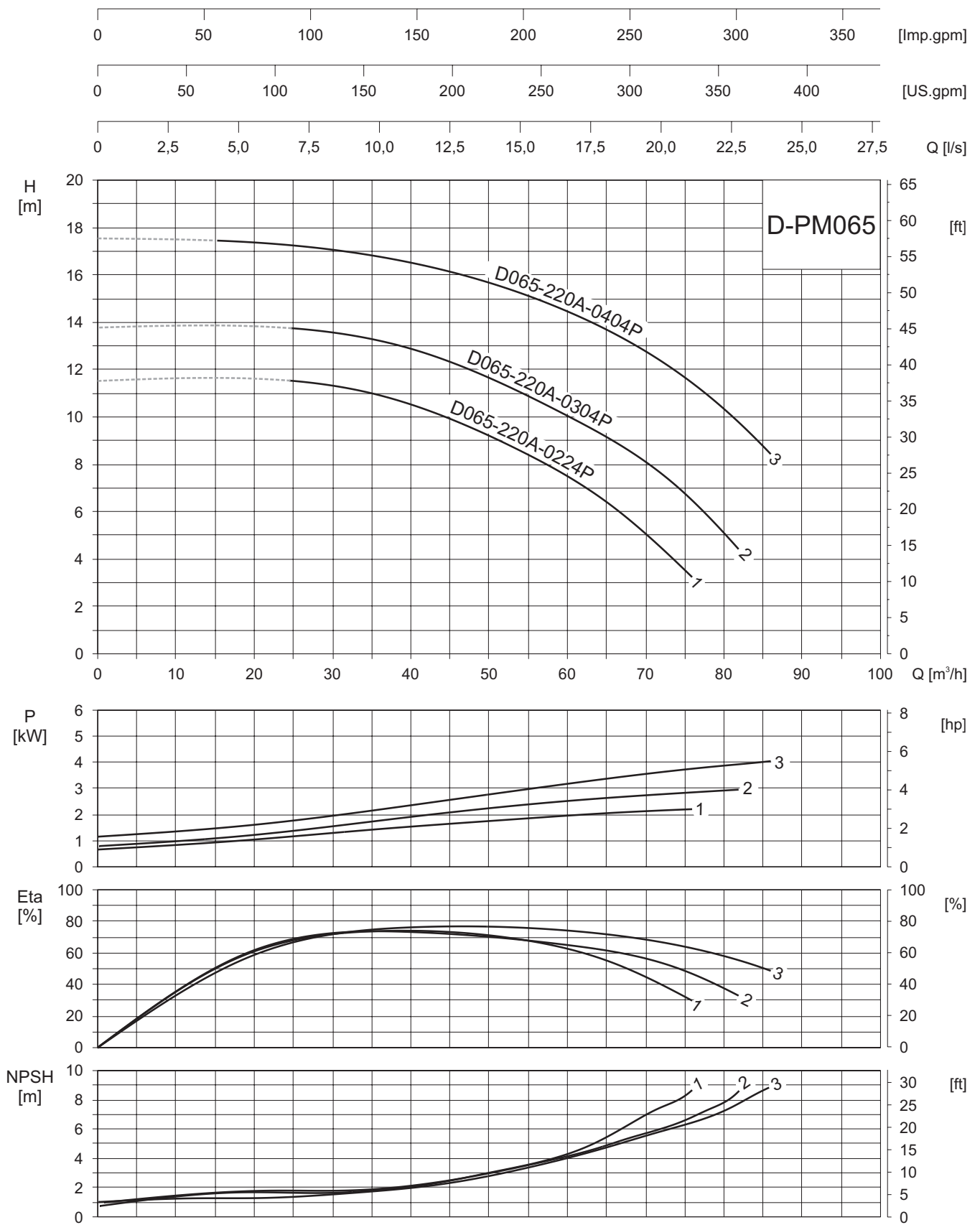
1500 rpm



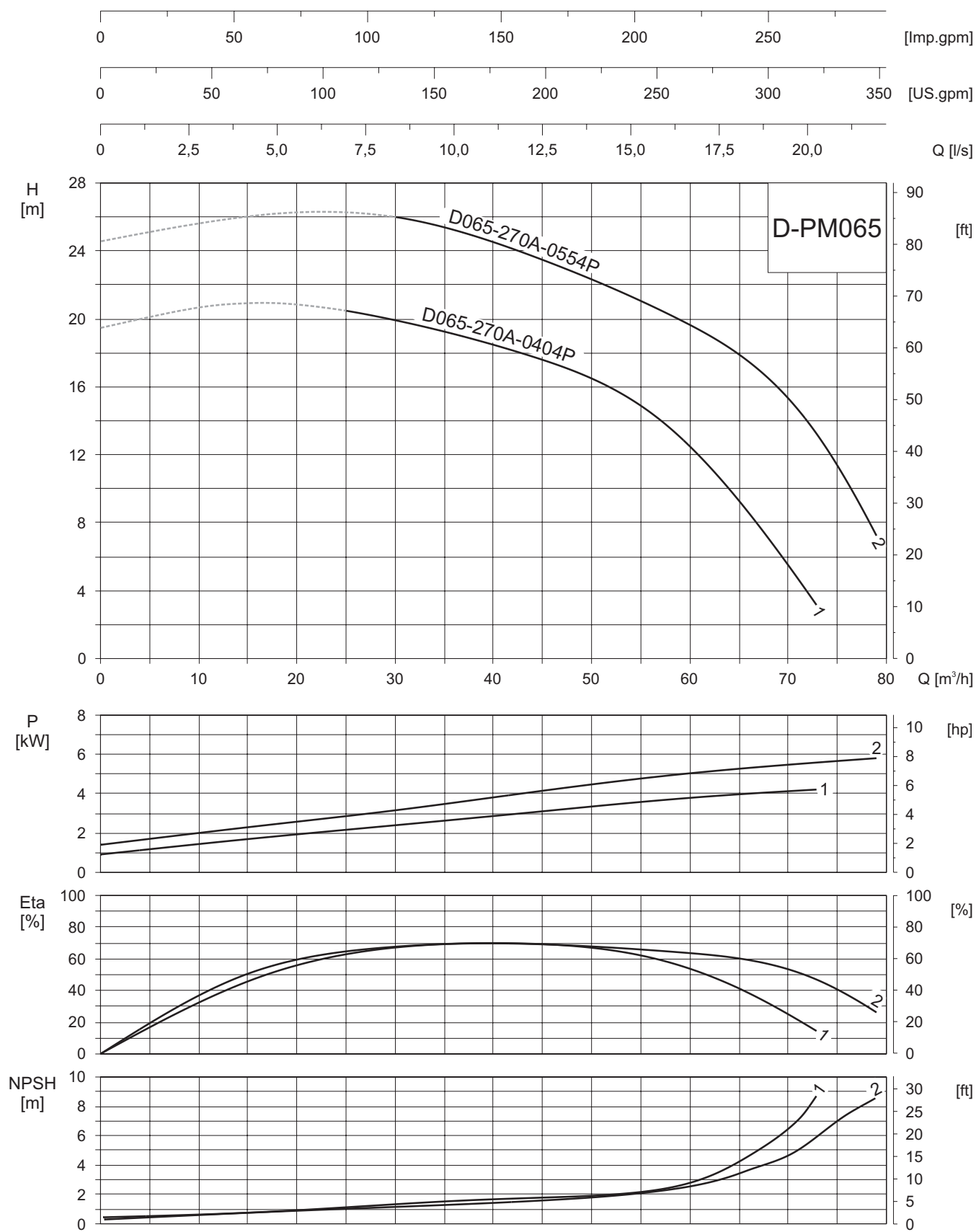
1500 rpm



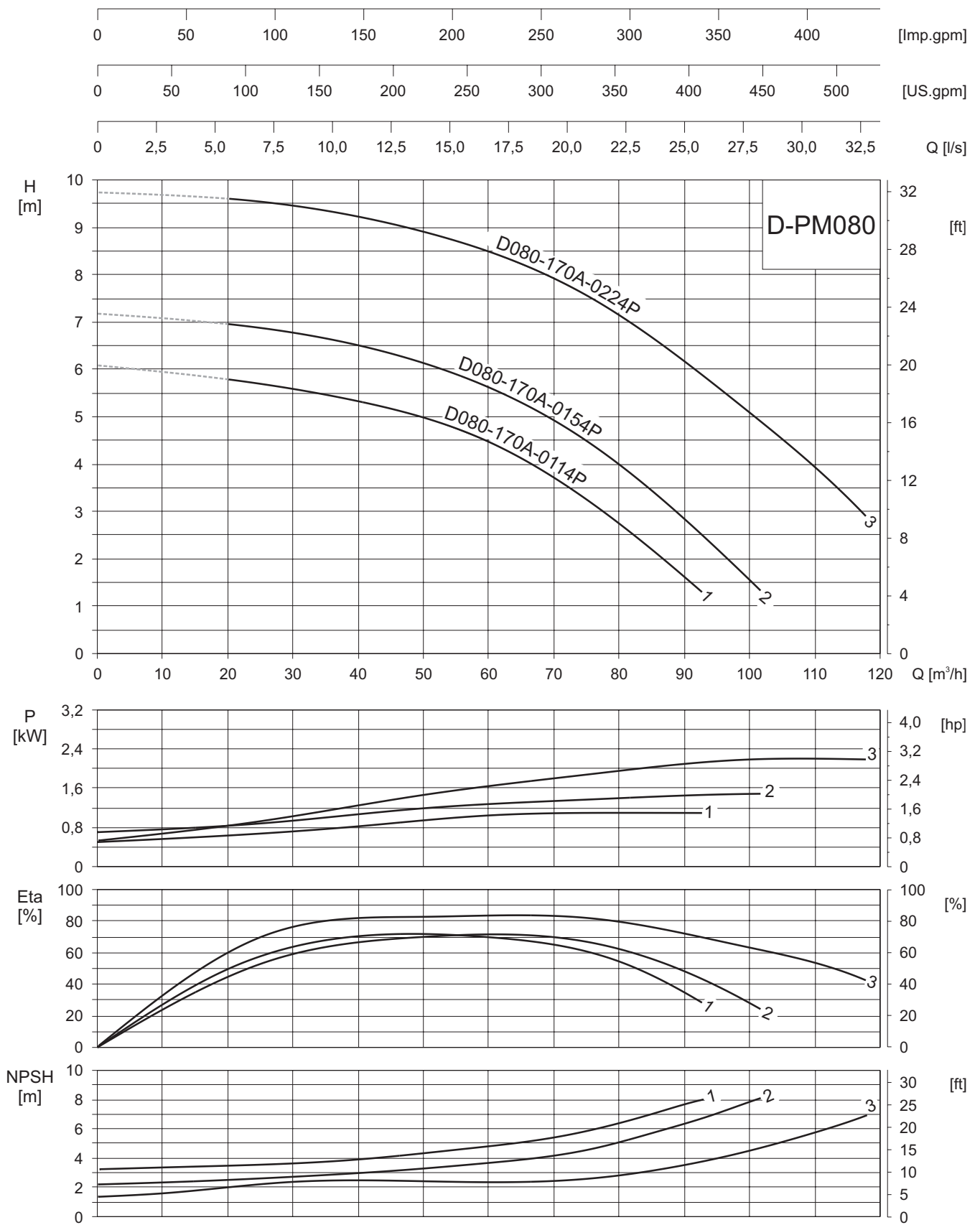
1500 rpm



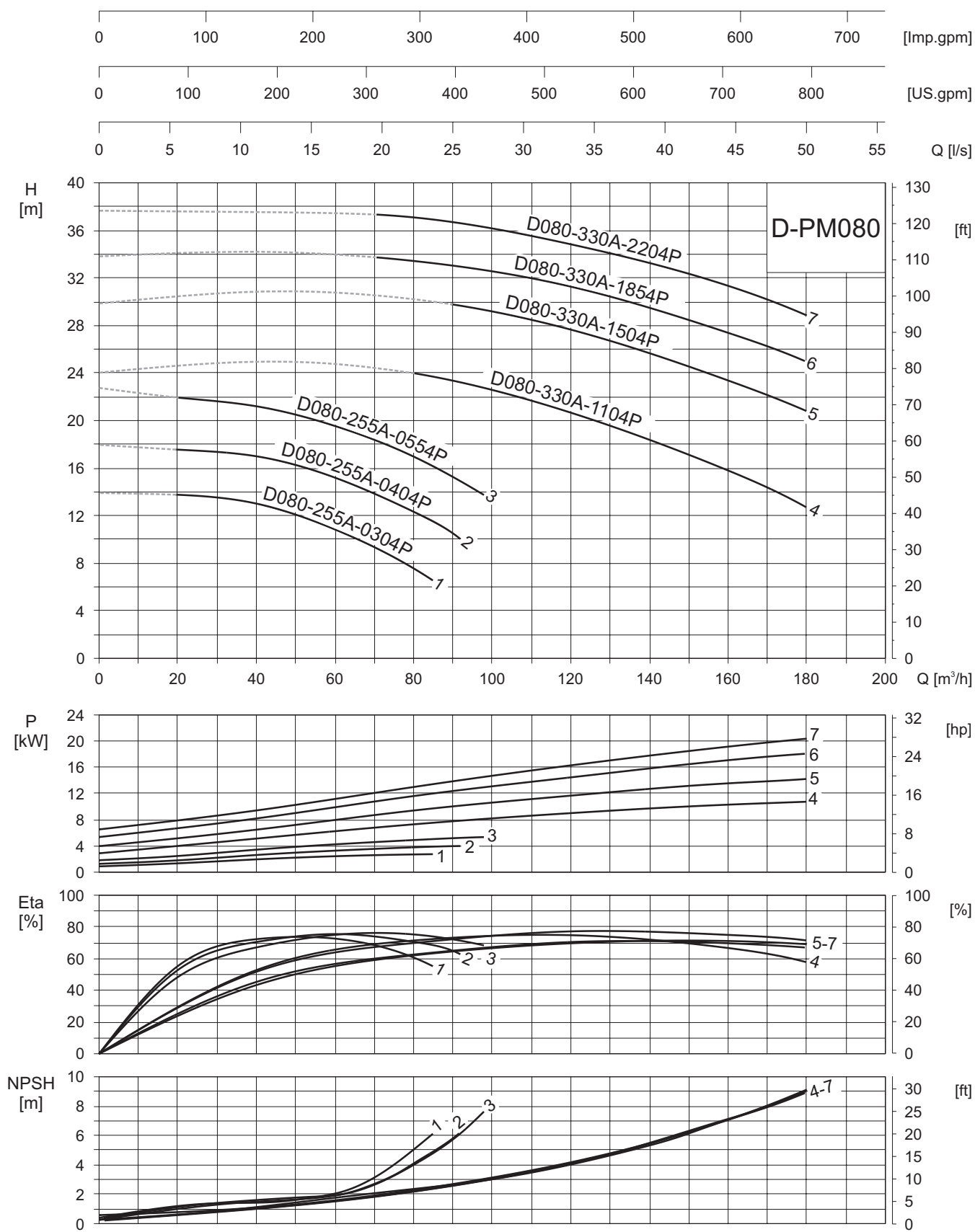
1500 rpm



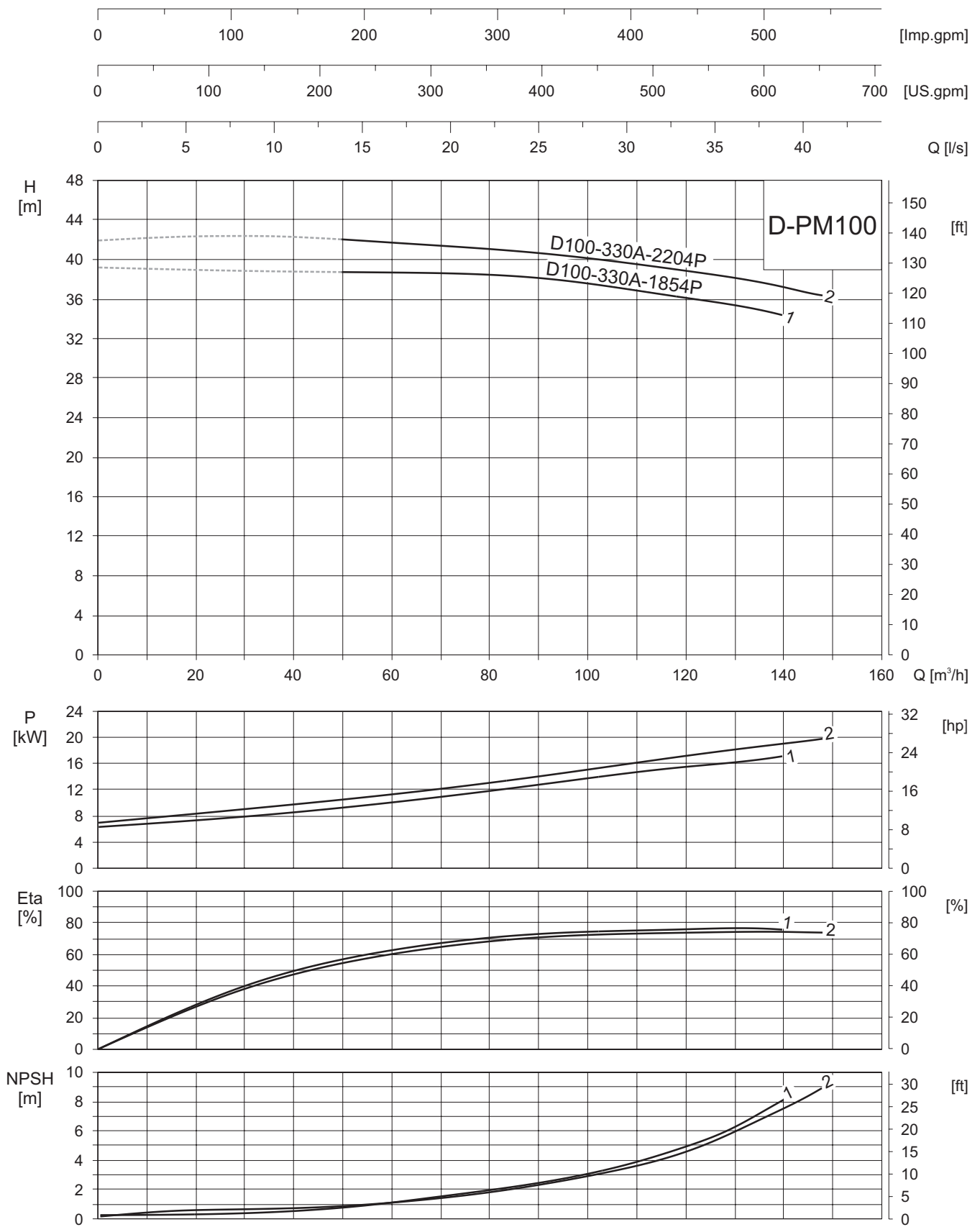
1500 rpm



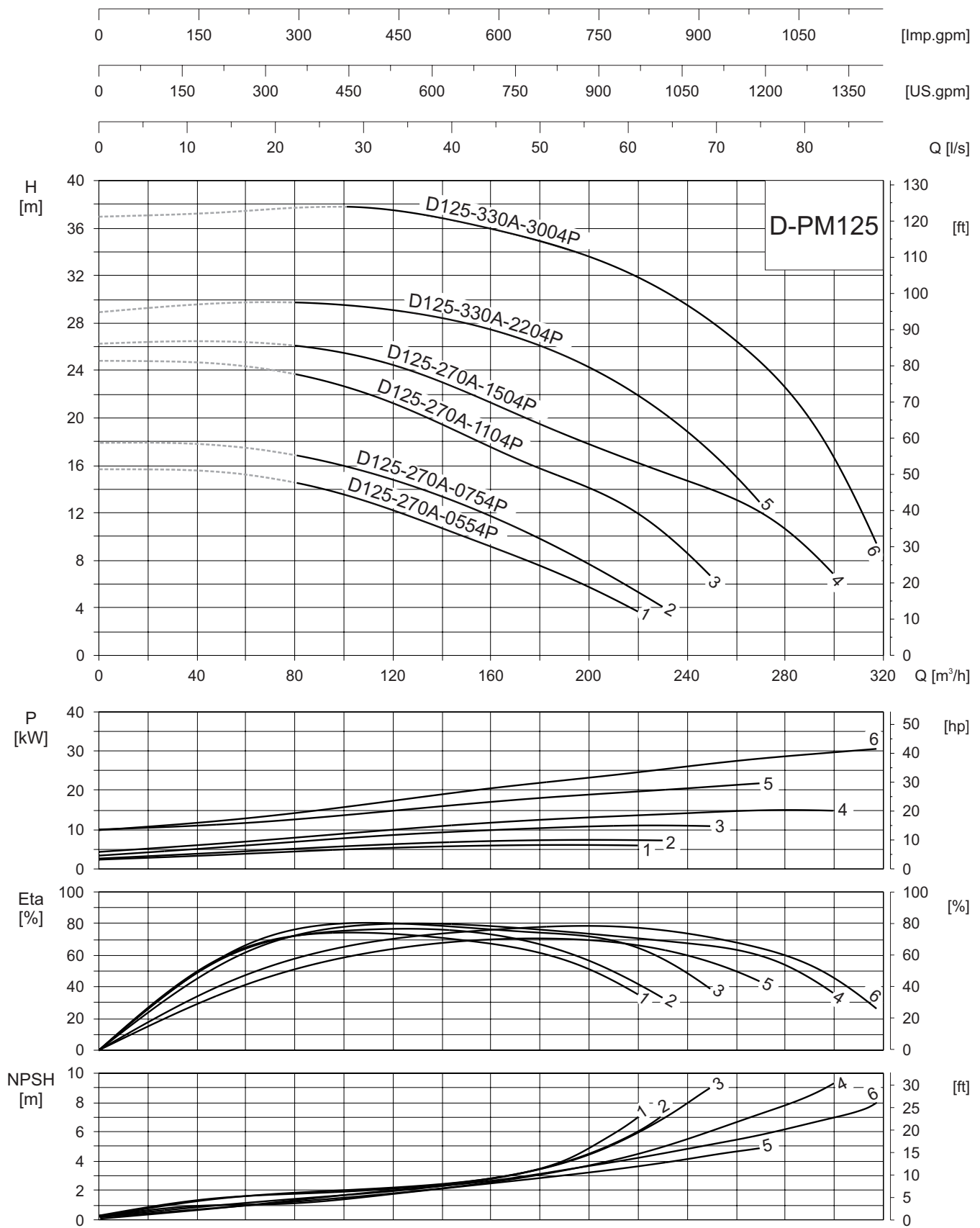
1500 rpm



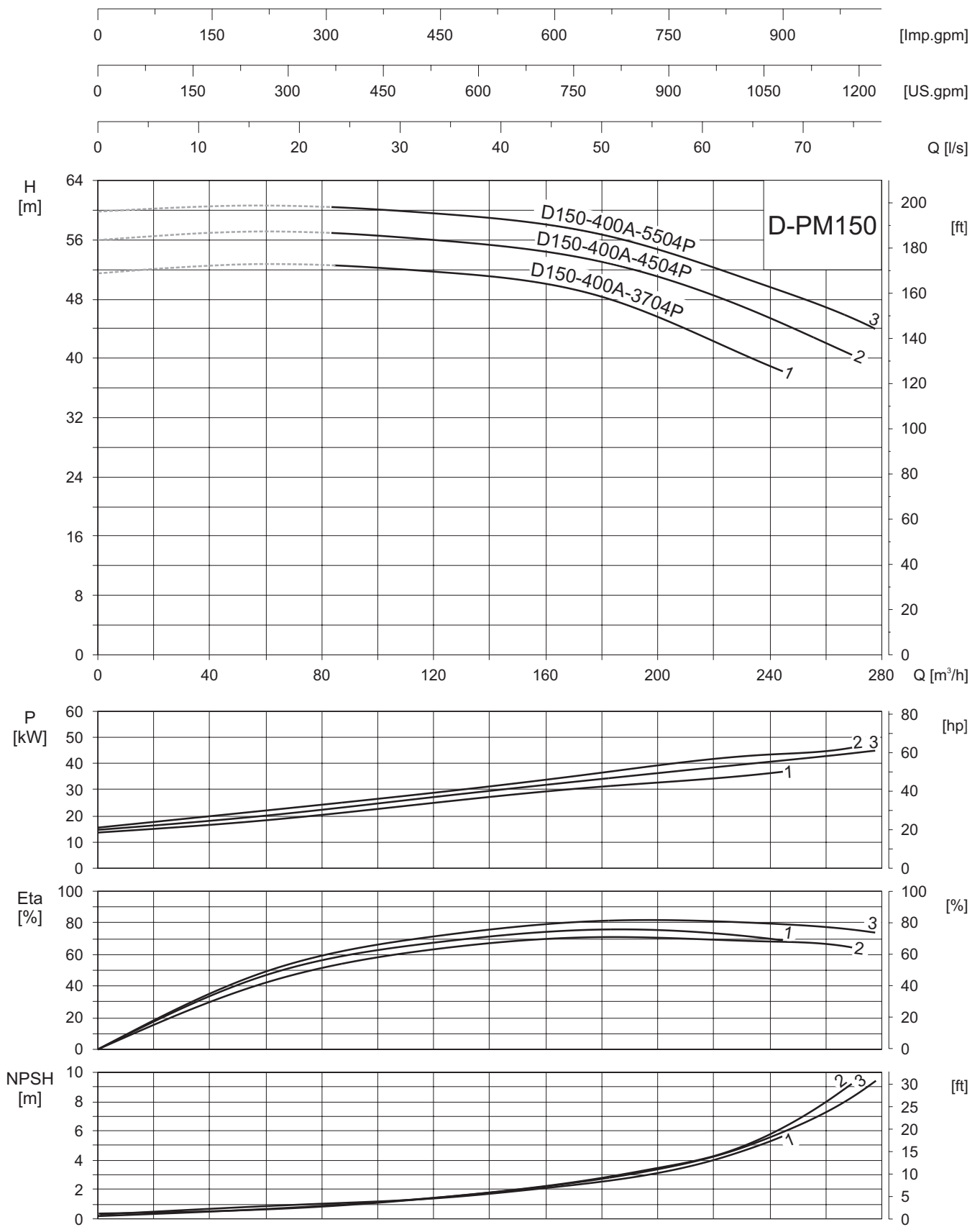
1500 rpm



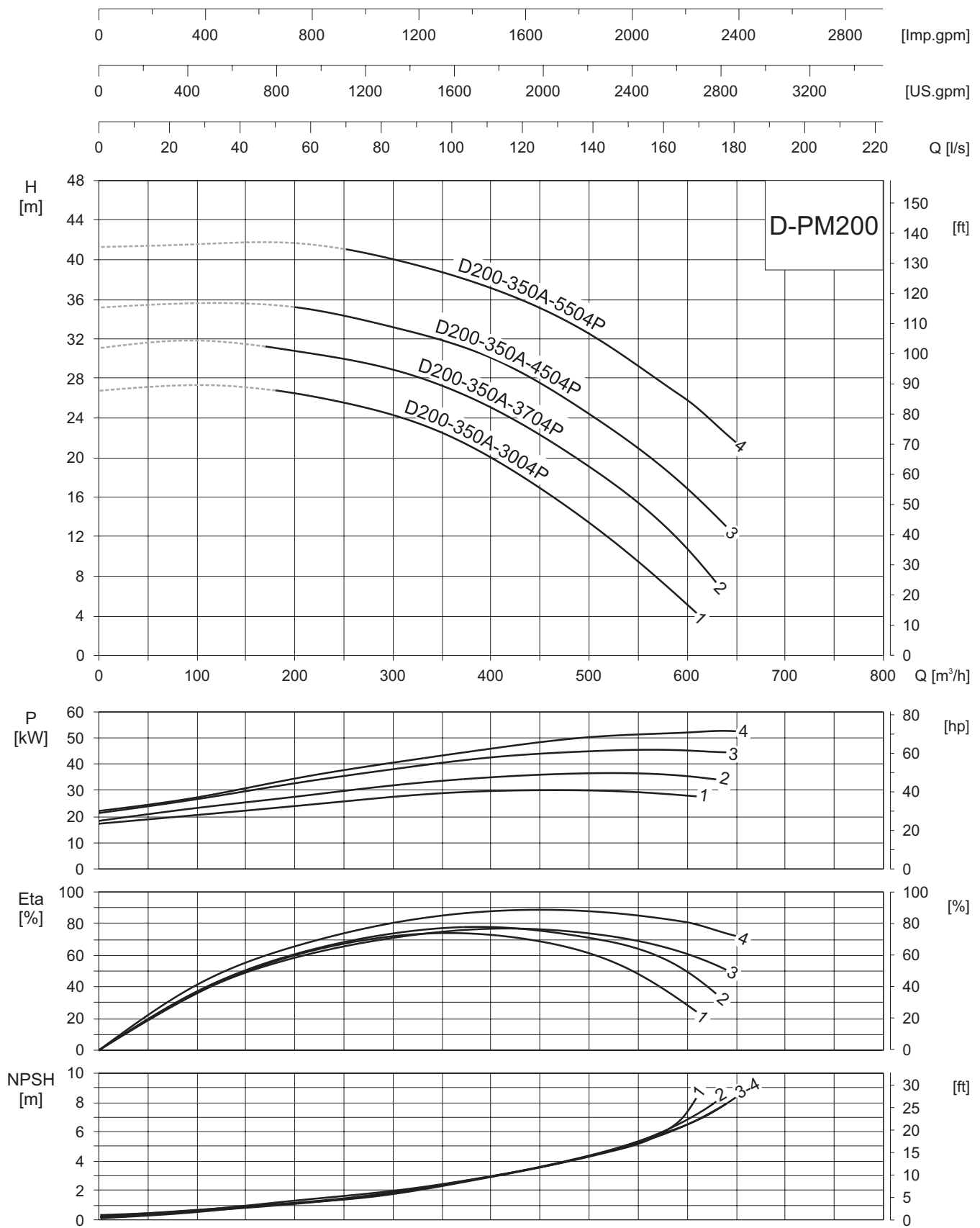
1500 rpm



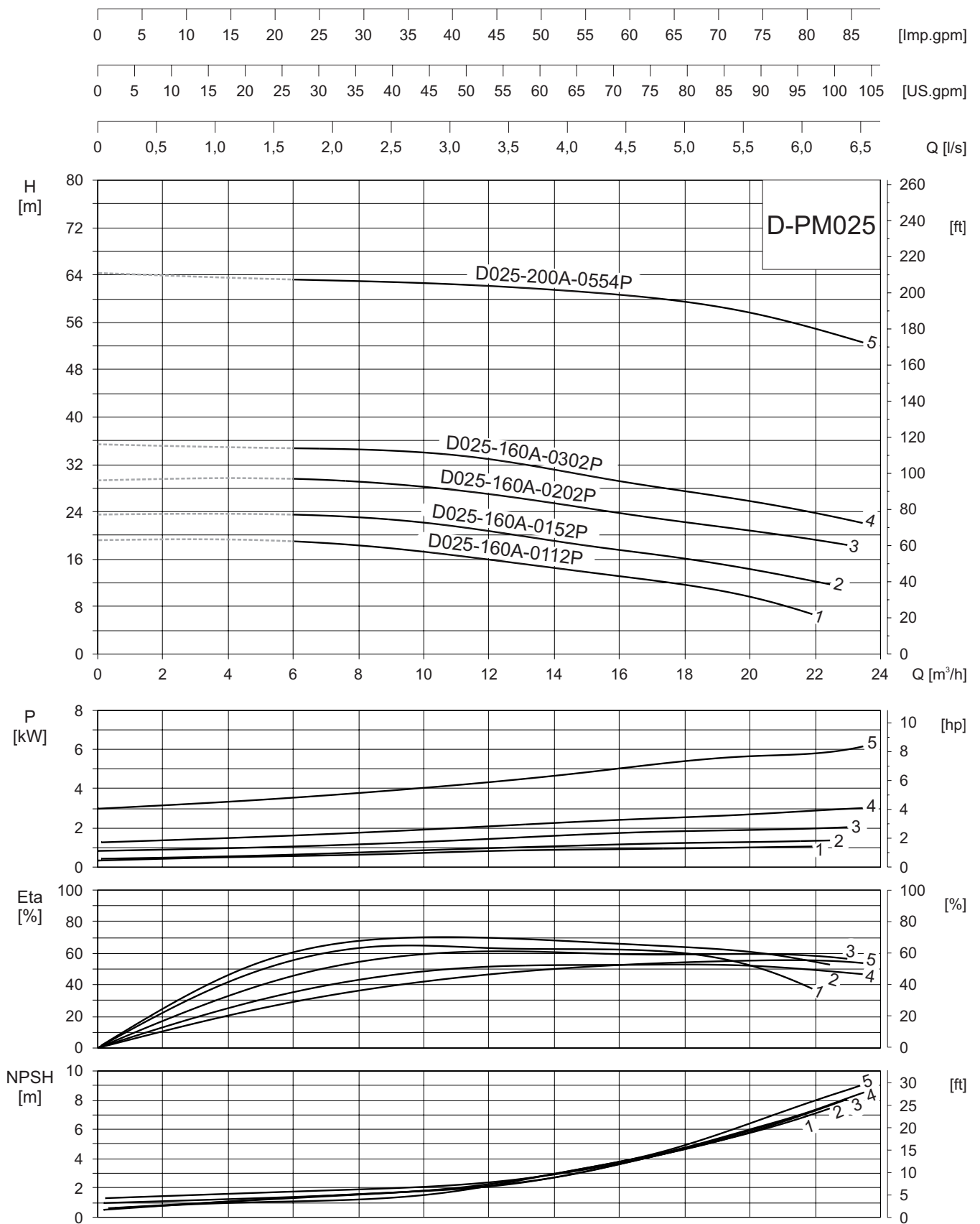
1500 rpm



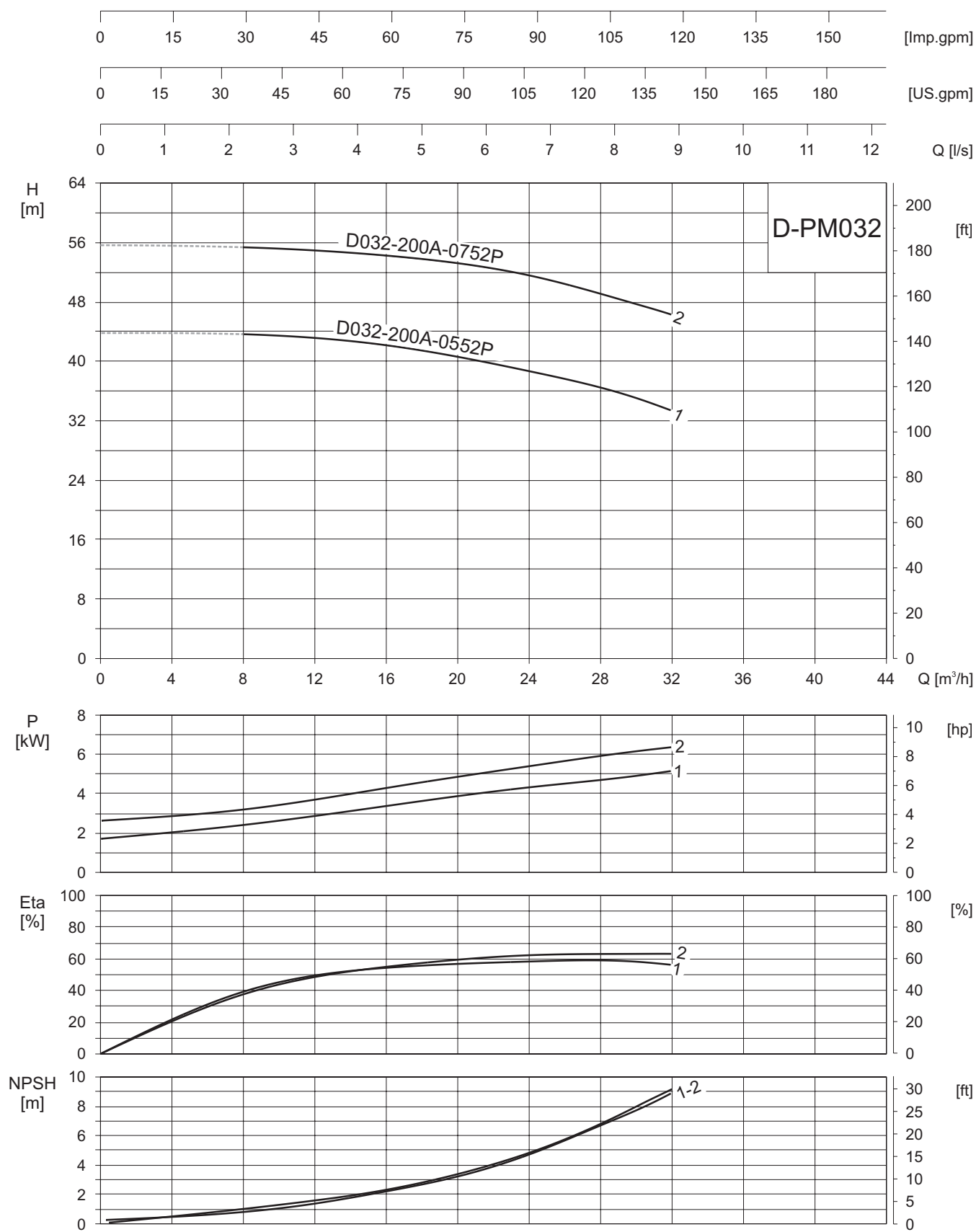
1500 rpm



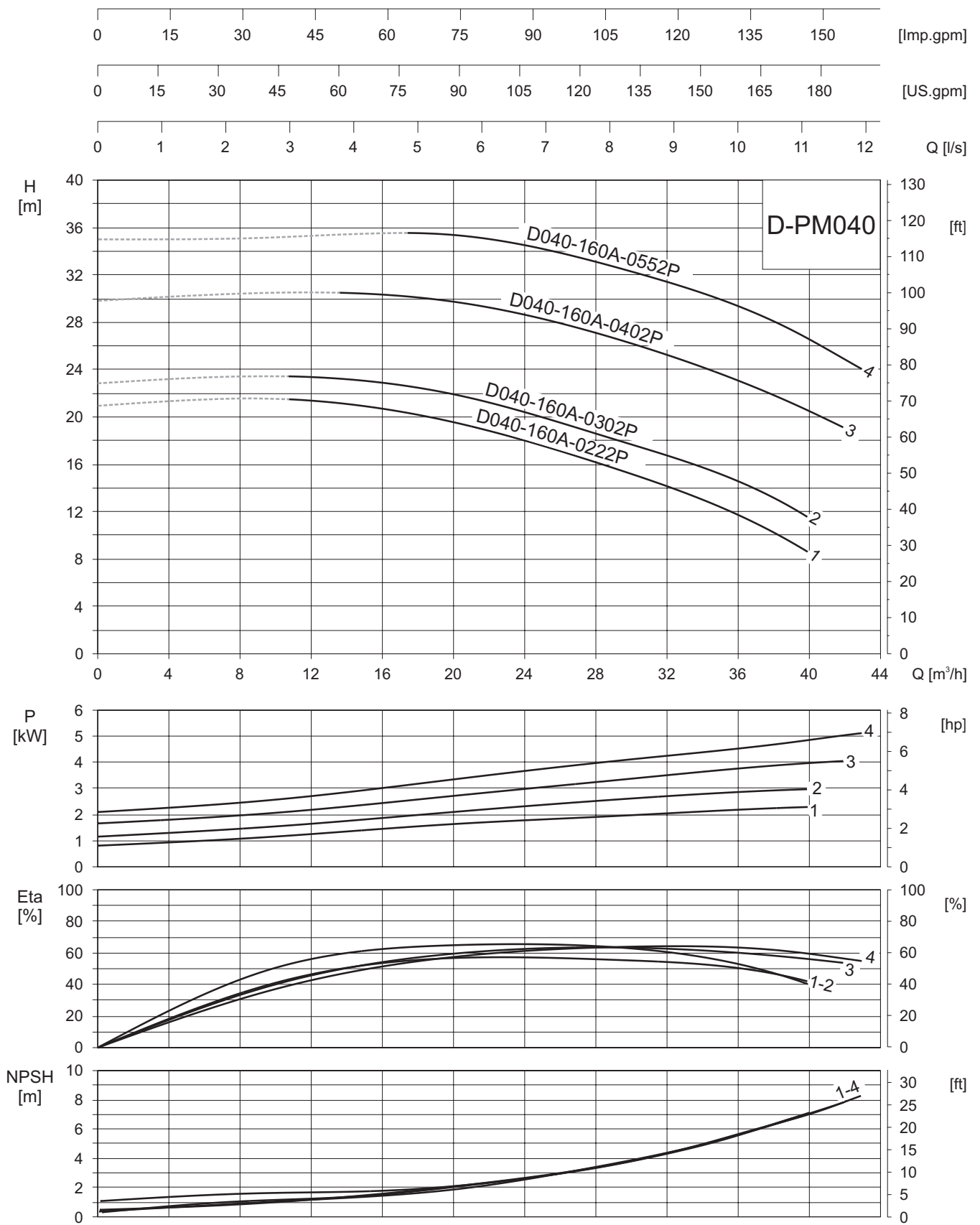
1500 rpm



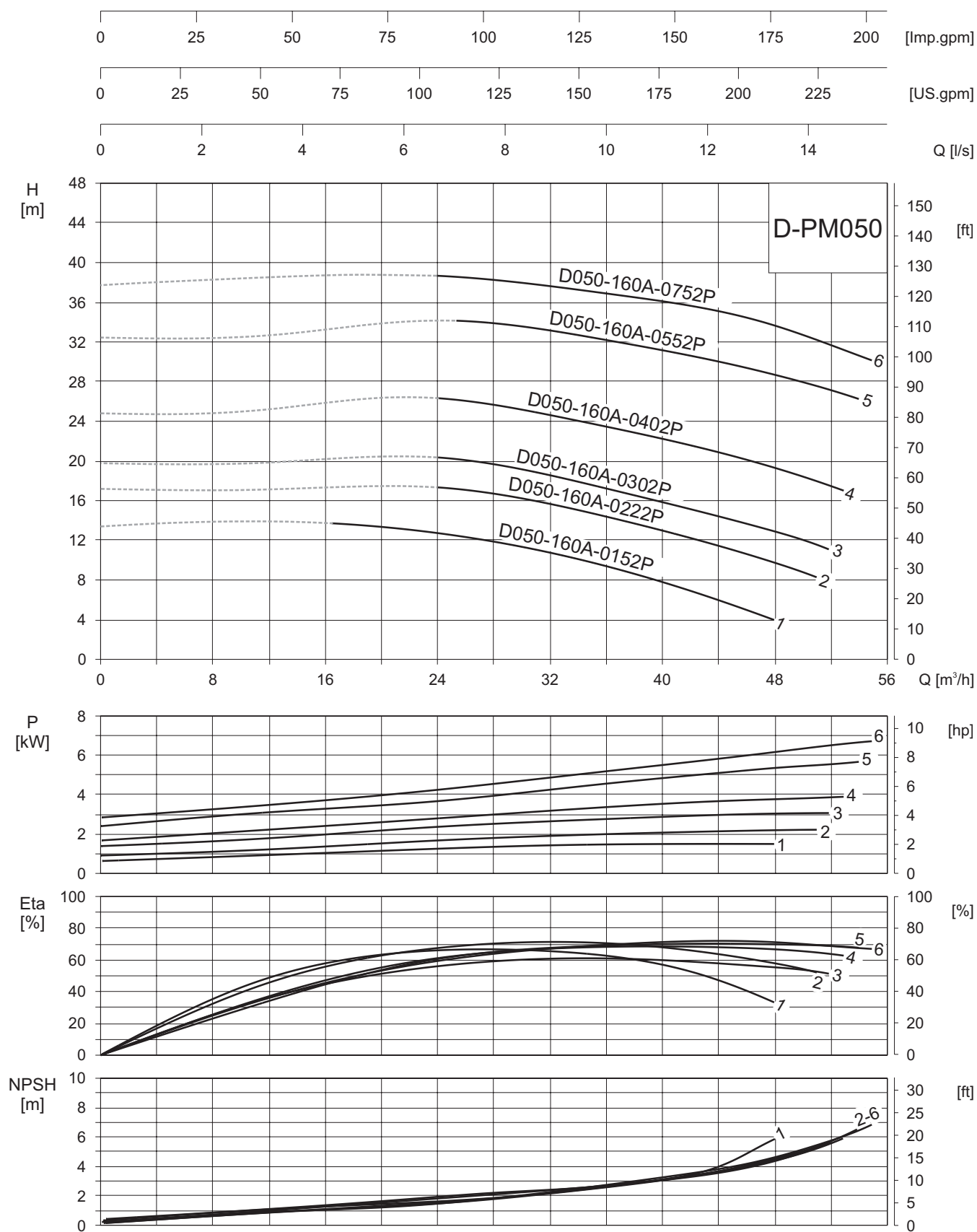
3000 rpm

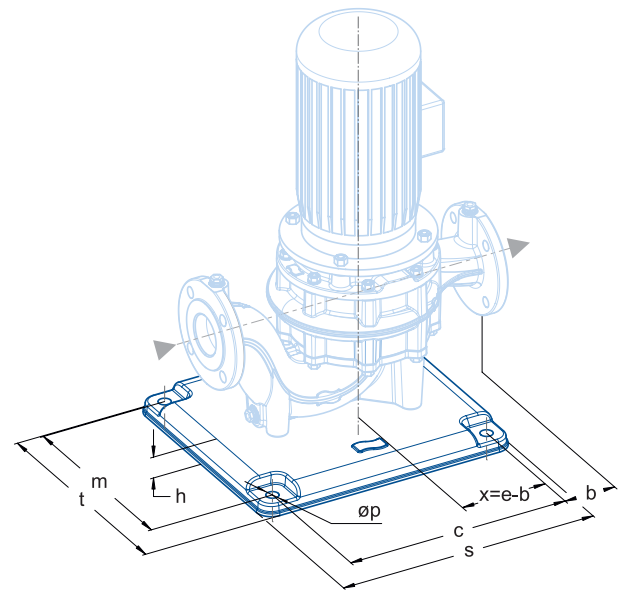
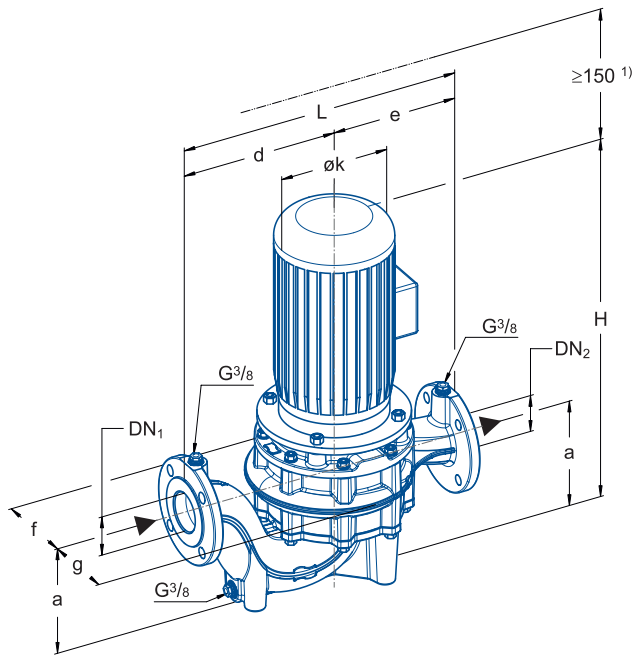


3000 rpm



3000 rpm





PM 1500 rpm

Typ	P2 [kW]	DN _{1/2}	H	L	a	b	c	d	e	fmax	gmax	h	Ø k	m	p	s	t	m ²⁾ [kg]	m ³⁾ [kg]
D025-125A	0,37	25	434	320	140	31	300	180	140	122	122	35	138	250	17	354	304	28	40
D025-160A	0,37	25	443	360	145	54	300	200	160	122	122	35	138	250	17	354	304	35	47
D025-200A	0,55	25	491	405	165	39	390	225	180	133	123	40	139	340	21	454	404	46	67
D025-200A	0,75	25	491	405	165	39	390	225	180	133	123	40	139	340	21	454	404	47	69
D025-200A	1,1	25	519	405	165	39	390	225	180	133	123	40	157	340	21	454	404	51	73
D032-160A	0,37	32	442	360	145	54	300	200	160	122	122	35	138	250	17	354	304	37	49
D032-200A	0,55	32	481	405	160	39	390	225	180	135	125	40	139	340	21	454	404	46	68
D032-200A	0,75	32	481	405	160	39	390	225	180	135	125	40	139	340	21	454	404	47	69
D032-200A	1,1	32	509	405	160	39	390	225	180	135	125	40	157	340	21	454	404	53	74
D032-250A	1,1	32	544	495	193	69	390	270	225	155	150	40	157	340	21	454	404	71	93
D032-250A	1,5	32	571	495	193	69	390	270	225	155	150	40	176	340	21	454	404	74	95
D032-250A	2,2	32	596	495	193	69	390	270	225	155	150	40	177	340	21	454	404	79	100
D032-250A	3	32	608	495	193	69	390	270	225	155	150	40	196	340	21	454	404	88	109
D032-250A	4	32	668	495	193	69	390	270	225	155	150	40	196	340	21	454	404	95	117
D032-250A	2,2	32	596	495	193	69	390	270	225	155	150	40	177	340	21	454	404	79	101
D040-160A	0,37	40	462	390	160	60	300	230	160	122	122	35	138	250	17	354	304	39	51
D040-160A	0,55	40	491	390	160	60	300	230	160	120	112	35	139	250	17	354	304	41	53
D040-160A	0,75	40	491	390	160	60	300	230	160	120	112	35	139	250	17	354	304	42	54
D040-220A	1,1	40	527	460	170	65	390	260	200	157	138	40	157	340	21	454	404	65	86
D040-220A	1,5	40	554	460	170	65	390	260	200	157	148	40	176	340	21	454	404	67	89
D040-270A	2,2	40	599	514	195	91	390	280	234	178	162	40	177	340	21	454	404	84	106
D040-270A	3	40	607	514	195	91	390	280	234	178	162	40	196	340	21	454	404	92	114
D040-270A	4	40	667	514	195	91	390	280	234	178	162	40	196	340	21	454	404	99	121
D040-270A	5,5	40	697	514	195	91	390	280	234	178	162	40	220	340	21	454	404	104	126
D050-140A	0,55	50	516	410	187	30	390	250	160	130	115	40	139	340	21	454	404	43	65
D050-140A	0,75	50	516	410	187	30	390	250	160	130	115	40	139	340	21	454	404	44	66
D050-140A	1,1	50	547	410	187	30	390	250	160	130	119	40	157	340	21	454	404	49	71
D050-140A	1,5	50	574	410	187	30	390	250	160	148	148	40	176	340	21	454	404	52	74
D050-160A	0,75	50	485	430	160	80	300	250	180	132	116	35	139	250	17	354	304	45	56
D050-160A	1,1	50	518	430	160	80	300	250	180	132	119	35	157	250	17	354	304	50	61
D050-190A	1,5	50	577	460	190	70	390	260	200	150	148	40	176	340	21	454	404	62	84
D050-190A	2,2	50	600	460	190	70	390	260	200	150	129	40	177	340	21	454	404	66	87
D050-190A	3	50	600	460	190	70	390	260	200	150	129	40	196	340	21	454	404	74	95

¹⁾ When dismantling the motor, ensure there is sufficient room for the lifting device.

²⁾ Total weight of the pump

³⁾ Total weight of the pump with pump support

Flange connection dimensions according to DIN 2501 PN 10

Dimensions with frequency converter for direct installation on request.

Typ	P2 [kW]	DN _{1/2}	H	L	a	b	c	d	e	fmax	gmax	h	Ø k	m	p	s	t	m ²⁾ [kg]	m ³⁾ [kg]
D050-240A	1,5	50	565	500	185	77	390	280	220	170	150	40	176	340	21	454	404	67	88
D050-240A	2,2	50	590	500	185	77	390	280	220	170	150	40	177	340	21	454	404	72	94
D050-240A	3	50	600	500	185	77	390	280	220	170	150	40	196	340	21	454	404	81	103
D050-300A	5,5	50	715	600	210	55	630	320	280	195	180	45	220	530	25	704	604	129	180
D065-200A	1,1	65	570	505	193	90	390	280	225	150	135	40	157	340	21	454	404	71	93
D065-200A	1,5	65	597	505	193	90	390	280	225	150	148	40	176	340	21	454	404	74	95
D065-200A	2,2	65	610	505	193	90	390	280	225	150	135	40	177	340	21	454	404	78	100
D065-220A	2,2	65	585	533	170	165	300	283	250	170	146	35	177	250	17	354	304	74	86
D065-220A	3	65	585	533	170	165	300	283	250	170	146	35	196	250	17	354	304	81	92
D065-220A	4	65	645	533	170	165	300	283	250	170	146	35	196	250	17	354	304	88	100
D065-240A	3	65	622	560	205	105	390	310	250	184	156	40	196	340	21	454	404	92	114
D065-240A	4	65	682	560	205	105	390	310	250	184	156	40	196	340	21	454	404	100	121
D065-270A	4	65	682	560	205	95	390	320	240	184	161	40	196	340	21	454	404	107	128
D065-270A	5,5	65	712	560	205	95	390	320	240	184	161	40	220	340	21	454	404	112	134
D065-270C	5,5	65	714	570	205	105	390	320	250	192	173	40	220	340	21	454	404	114	136
D065-300B	7,5	65	761	615	225	130	390	340	275	211	200	40	258	340	21	454	404	159	180
D065-300B	11	65	845	615	225	130	390	340	275	211	202	40	260	340	21	454	404	183	204
D080-170A	1,1	80	580	545	220	95	390	320	225	165	137	40	157	340	21	454	404	67	88
D080-170A	1,5	80	607	545	220	95	390	320	225	165	148	40	176	340	21	454	404	69	91
D080-170A	2,2	80	645	545	220	95	390	320	225	165	137	40	177	340	21	454	404	76	97
D080-210A	3	80	654	595	240	115	390	345	250	188	160	40	196	340	21	454	404	93	115
D080-210A	4	80	714	595	240	115	390	345	250	188	160	40	196	340	21	454	404	100	122
D080-210A	5,5	80	744	595	240	115	390	345	250	188	160	40	220	340	21	454	404	118	140
D080-255A	3	80	641	630	230	135	390	350	280	190	167	40	196	340	21	454	404	114	136
D080-255A	4	80	701	630	230	135	390	350	280	190	167	40	196	340	21	454	404	121	143
D080-255A	5,5	80	731	630	230	135	390	350	280	190	167	40	220	340	21	454	404	117	139
D080-330A	11	80	896	715	265	90	630	400	315	248	214	45	260	530	25	704	604	224	275
D080-330A	15	80	933	715	265	90	630	400	315	248	243	45	313	530	25	704	604	253	304
D080-330A	18,5	80	1036	715	265	90	630	400	315	253	253	45	315	530	25	704	604	298	350
D080-330A	22	80	1062	715	265	90	630	400	315	263	263	45	350	530	25	704	604	324	376
D100-180A	2,2	100	688	630	260	162	390	350	280	185	140	40	177	340	21	454	404	93	115
D100-180A	3	100	694	630	260	162	390	350	280	185	140	40	196	340	21	454	404	99	121
D100-180A	4	100	754	630	260	162	390	350	280	185	140	40	196	340	21	454	404	107	128
D100-200A	2,2	100	692	655	280	162	390	375	280	220	164	40	177	340	21	454	404	92	114
D100-200A	3	100	697	655	280	162	390	375	280	220	164	40	196	340	21	454	404	100	121
D100-200A	4	100	757	655	280	162	390	375	280	220	164	40	196	340	21	454	404	107	129
D100-210A	3	100	697	645	280	162	390	365	280	197	163	40	196	340	21	454	404	101	123
D100-210A	4	100	757	645	280	162	390	365	280	197	163	40	196	340	21	454	404	109	130
D100-210A	5,5	100	787	645	280	162	390	365	280	197	163	40	220	340	21	454	404	127	148
D100-210A	7,5	100	810	645	280	162	390	365	280	200	200	40	258	340	21	454	404	153	174
D100-240A	5,5	100	746	650	245	135	390	370	280	202	166	40	220	340	21	454	404	122	144
D100-240A	7,5	100	769	650	245	135	390	370	280	202	200	40	258	340	21	454	404	148	170
D100-270A	5,5	100	756	640	255	152	390	370	270	198	172	40	220	340	21	454	404	129	151
D100-270A	7,5	100	779	640	255	152	390	370	270	200	200	40	258	340	21	454	404	155	177
D100-270A	11	100	891	640	255	152	390	370	270	202	202	40	260	340	21	454	404	185	207
D100-330A	18,5	100	992	705	245	205	390	390	315	253	253	40	315	340	21	454	404	271	293
D100-330A	22	100	1018	705	245	205	390	390	315	263	263	40	350	340	21	454	404	298	319
D100-330C	11	100	869	710	250	90	630	395	315	225	202	45	260	530	25	704	604	211	262
D100-330C	15	100	906	710	250	90	630	395	315	243	243	45	313	530	25	704	604	240	291
D125-250A	3	125	702	810	290	165	630	455	355	260	188	45	196	530	25	704	604	144	196
D125-250A	4	125	762	810	290	165	630	455	355	260	188	45	196	530	25	704	604	152	203
D125-250A	5,5	125	792	810	290	165	630	455	355	260	188	45	220	530	25	704	604	156	208
D125-250A	7,5	125	815	810	290	165	630	455	355	260	200	45	258	530	25	704	604	183	234
D125-270A	5,5	125	756	729	245	239	390	374	355	209	181	40	220	340	21	454	404	136	158
D125-270A	7,5	125	779	729	245	239	390	374	355	209	200	40	258	340	21	454	404	162	184
D125-270A	11	125	868	729	245	239	390	374	355	209	202	40	260	340	21	454	404	188	210
D125-270A	15	125	905	729	245	239	390	374	355	243	243	40	313	340	21	454	404	217	239
D125-270B	11	125	936	805	310	165	630	450	355	260	212	45	260	530	25	704	604	213	264
D125-270B	15	125	973	805	310	165	630	450	355	260	243	45	313	530	25	704	604	242	293
D125-270B	18,5	125	1033	805	310	165	630	450	355	260	253	45	315	530	25	704	604	269	320
D125-270B	22	125	1059	805	310	165	630	450	355	263	263	45	350	530	25	704	604	295	346
D125-330A	22	125	1096	805	325	150	630	450	355	263	263	45	350	530	25	704	604	334	385
D125-330A	30	125	1074	805	325	150	630	450	355	270	270	45	400	530	25	704	604	384	436
D150-250A	5,5	150	826	875	320	205	630	500	375	277	203	45	220	530	25	704	604	175	226
D150-250A	7,5	150	849	875	320	205	630	500	375	277	203	45	258	530	25	704	604	201	252

1) When dismantling the motor, ensure there is sufficient room for the lifting device.

2) Total weight of the pump

3) Total weight of the pump with pump support

Flange connection dimensions according to DIN 2501 PN 10

Dimensions with frequency converter for direct installation on request.

Typ	P2 [kW]	DN _{1/2}	H	L	a	b	c	d	e	fmax	gmax	h	Ø k	m	p	s	t	m ²⁾ [kg]	m ³⁾ [kg]
D150-250A	11	150	942	875	320	205	630	500	375	277	203	45	260	530	25	704	604	229	281
D150-270B	11	150	997	925	370	200	630	550	375	313	247	45	260	530	25	704	604	250	302
D150-270B	15	150	1034	925	370	200	630	550	375	313	247	45	313	530	25	704	604	280	331
D150-270B	18,5	150	1094	925	370	200	630	550	375	313	253	45	315	530	25	704	604	307	358
D150-270B	22	150	1120	925	370	200	630	550	375	313	263	45	350	530	25	704	604	333	384
D150-300A	15	150	996	825	340	125	630	495	330	268	243	45	313	530	25	704	604	268	319
D150-300A	18,5	150	1093	825	340	125	630	495	330	268	253	45	315	530	25	704	604	303	355
D150-300A	22	150	1119	825	340	125	630	495	330	268	263	45	350	530	25	704	604	330	381
D150-400A	37	150	1260	951	360	214	630	500	451	305	305	45	392	530	25	704	604	544	595
D150-400A	45	150	1300	951	360	214	630	500	451	305	305	45	392	530	25	704	604	575	627
D150-400A	55	150	1282	951	360	214	630	500	451	364	364	45	438	530	25	704	604	654	705
D200-250A	5,5	200	900	890	380	180	630	540	350	268	212	45	220	530	25	704	604	193	245
D200-250A	7,5	200	923	890	380	180	630	540	350	268	212	45	258	530	25	704	604	219	271
D200-250A	11	200	1016	890	380	180	630	540	350	268	212	45	260	530	25	704	604	245	296
D200-250A	15	200	1053	890	380	180	630	540	350	268	243	45	313	530	25	704	604	274	325
D200-270B	11	200	1045	920	390	195	630	550	370	286	221	45	260	530	25	704	604	259	311
D200-270B	15	200	1082	920	390	195	630	550	370	286	243	45	313	530	25	704	604	289	340
D200-270B	18,5	200	1151	920	390	195	630	550	370	286	253	45	315	530	25	704	604	318	369
D200-270B	22	200	1177	920	390	195	630	550	370	286	263	45	350	530	25	704	604	344	396
D200-350A	30	200	1171	958	352	205	630	558	400	333	270	45	400	530	25	704	604	450	502
D200-350A	37	200	1184	958	352	205	630	558	400	333	305	45	392	530	25	704	604	507	558
D200-350A	45	200	1224	958	352	205	630	558	400	333	305	45	392	530	25	704	604	539	590
D200-350A	55	200	1206	958	352	205	630	558	400	364	364	45	438	530	25	704	604	617	669

PM 3000 rpm

Typ	P2 [kW]	DN _{1/2}	H	L	a	b	c	d	e	fmax	gmax	h	Ø k	m	p	s	t	m ²⁾ [kg]	m ³⁾ [kg]
D025-125A	2,2	25	545	320	140	31	300	180	140	176	176	35	176	250	17	354	304	40	52
D025-160A	1,1	25	471	360	145	54	300	200	160	139	139	35	139	250	17	354	304	39	50
D025-160A	1,5	25	522	360	145	54	300	200	160	157	157	35	157	250	17	354	304	43	54
D025-160A	2,2	25	547	360	145	54	300	200	160	176	176	35	176	250	17	354	304	45	57
D025-160A	3	25	556	360	145	54	300	200	160	177	177	35	177	250	17	354	304	52	63
D025-200A	5,5	25	671	405	165	39	390	225	180	196	196	40	196	340	21	454	404	75	97
D032-160A	1,1	32	481	360	145	54	300	200	160	139	139	35	139	250	17	354	304	43	55
D032-160A	1,5	32	531	360	145	54	300	200	160	157	157	35	157	250	17	354	304	47	59
D032-160A	2,2	32	556	360	145	54	300	200	160	176	176	35	176	250	17	354	304	50	61
D032-160A	3	32	556	360	145	54	300	200	160	177	177	35	177	250	17	354	304	54	65
D032-200A	5,5	32	660	405	160	39	390	225	180	196	196	40	196	340	21	454	404	75	97
D032-200A	7,5	32	660	405	160	39	390	225	180	196	196	40	196	340	21	454	404	83	105
D032-250A	11	32	793	495	193	69	390	270	225	258	258	40	258	340	21	454	404	127	148
D032-250A	15	32	807	495	193	69	390	270	225	258	258	40	258	340	21	454	404	150	171
D032-250A	18,5	32	893	495	193	69	390	270	225	313	313	40	313	340	21	454	404	179	201
D040-160A	2,2	40	566	390	160	60	300	230	160	176	176	35	176	250	17	354	304	49	60
D040-160A	3	40	576	390	160	60	300	230	160	177	177	35	177	250	17	354	304	56	67
D040-160A	4	40	636	390	160	60	300	230	160	196	196	35	196	250	17	354	304	63	74
D040-160A	5,5	40	671	390	160	60	300	230	160	196	196	35	196	250	17	354	304	73	84
D040-220A	7,5	40	686	460	170	65	390	260	200	196	196	40	196	340	21	454	404	97	118
D040-220A	11	40	781	460	170	65	390	260	200	258	258	40	258	340	21	454	404	126	148
D040-220A	15	40	795	460	170	65	390	260	200	258	258	40	258	340	21	454	404	149	171
D040-270A	7,5	40	706	514	195	91	390	280	234	196	196	40	196	340	21	454	404	108	130
D040-270A	11	40	796	514	195	91	390	280	234	258	258	40	258	340	21	454	404	134	156
D040-270A	15	40	810	514	195	91	390	280	234	258	258	40	258	340	21	454	404	158	179
D040-270A	18,5	40	896	514	195	91	390	280	234	313	313	40	313	340	21	454	404	187	209
D040-270A	22	40	896	514	195	91	390	280	234	313	313	40	313	340	21	454	404	204	225
D050-160A	1,5	50	535	430	160	80	300	250	180	157	157	35	157	250	17	354	304	49	60
D050-160A	2,2	50	560	430	160	80	300	250	180	176	176	35	176	250	17	354	304	51	63
D050-160A	3	50	570	430	160	80	300	250	180	177	177	35	177	250	17	354	304	58	70
D050-160A	4	50	630	430	160	80	300	250	180	196	196	35	196	250	17	354	304	65	77
D050-160A	5,5	50	668	430	160	80	300	250	180	196	196	35	196	250	17	354	304	75	86
D050-160A	7,5	50	668	430	160	80	300	250	180	196	196	35	196	250	17	354	304	83	94
D065-200A	11	65	806	505	193	90	390	280	225	258	258	40	258	340	21	454	404	128	150
D065-200A	15	65	820	505	193	90	390	280	225	258	258	40	258	340	21	454	404	151	173
D065-300B	11	65	836	615	225	130	390	340	275	258	258	40	258	340	21	454	404	160	181

¹⁾ When dismantling the motor, ensure there is sufficient room for the lifting device.

²⁾ Total weight of the pump

³⁾ Total weight of the pump with pump support

Flange connection dimensions according to DIN 2501 PN 10

Dimensions with frequency converter for direct installation on request.

Type	P2 [kW]	DN _{1/2}	H	L	a	b	c	d	e	fmax	gmax	h	Ø k	m	p	s	t	m ²⁾ [kg]	m ³⁾ [kg]
D065-300B	15	65	850	615	225	130	390	340	275	258	258	40	258	340	21	454	404	183	204
D065-300B	18,5	65	936	615	225	130	390	340	275	313	313	40	313	340	21	454	404	212	234
D065-300B	22	65	936	615	225	130	390	340	275	313	313	40	313	340	21	454	404	229	251
D080-240A	11	80	842	650	235	135	390	370	280	258	258	40	258	340	21	454	404	148	169
D080-240A	15	80	856	650	235	135	390	370	280	258	258	40	258	340	21	454	404	171	192
D080-240A	18,5	80	942	650	235	135	390	370	280	313	313	40	313	340	21	454	404	200	222
D080-240A	22	80	942	650	235	135	390	370	280	313	313	40	313	340	21	454	404	217	239
D080-255A	5,5	80	742	630	230	135	390	350	280	196	196	40	196	340	21	454	404	112	134
D080-255A	7,5	80	742	630	230	135	390	350	280	196	196	40	196	340	21	454	404	120	142
D080-255A	11	80	832	630	230	135	390	350	280	258	258	40	258	340	21	454	404	147	169
D080-255A	15	80	846	630	230	135	390	350	280	258	258	40	258	340	21	454	404	170	192
D080-255A	18,5	80	932	630	230	135	390	350	280	313	313	40	313	340	21	454	404	200	221
D080-255A	22	80	932	630	230	135	390	350	280	313	313	40	313	340	21	454	404	216	238
D100-330C	11	100	856	710	250	90	630	395	315	258	258	45	258	530	25	704	604	184	236
D100-330C	15	100	870	710	250	90	630	395	315	258	258	45	258	530	25	704	604	207	259
D100-330C	18,5	100	956	710	250	90	630	395	315	313	313	45	313	530	25	704	604	237	288
D100-330C	22	100	956	710	250	90	630	395	315	313	313	45	313	530	25	704	604	254	305
D125-250A	11	125	893	810	290	165	630	455	355	260	258	45	258	530	25	704	604	183	235
D125-250A	15	125	907	810	290	165	630	455	355	260	258	45	258	530	25	704	604	206	258
D125-250A	18,5	125	993	810	290	165	630	455	355	313	313	45	313	530	25	704	604	236	287
D125-250A	22	125	993	810	290	165	630	455	355	313	313	45	313	530	25	704	604	253	304

¹⁾ When dismantling the motor, ensure there is sufficient room for the lifting device.

²⁾ Total weight of the pump

³⁾ Total weight of the pump with pump support

Flange connection dimensions according to DIN 2501 PN 10

Dimensions with frequency converter for direct installation on request.

emod

75 Hz: 1500 rpm (350 V)

P ₂ [kW]	P ₁ [kW]	I [A]	dB(A)
0,37	0,45	0,7	52
0,55	0,68	1,03	52
0,75	0,85	1,25	52
1,1	1,28	1,88	52
1,5	1,69	1,69	55
2,2	2,44	3,75	55
3	3,35	5,0	55
4	4,44	6,7	55
5,5	5,98	9,2	59
7,5	8,15	12,9	59
11	11,89	18,8	63
15	16,3	26,5	63
18,5	19,94	30,0	63
22	23,4	36,0	63
30	31,85	50,0	65
37	39,19	63,0	65
45	47,47	71,0	68
55	58,14	94,0	68

150 Hz: 3000 rpm (350 V)

P ₂ [kW]	P ₁ [kW]	I [A]	dB(A)
1,5	1,65	2,4	61
2,2	2,42	3,8	67
3	3,28	5,1	67
4	4,3	6,7	67
5,5	5,93	8,9	67
7,5	8,06	12,5	67
11	11,83	17,6	74
15	15,96	24,3	74

VEM

50 Hz: 1500 rpm (280 - 380 V)

P ₂ [kW]	P ₁ [kW]	I [A]	dB(A)
0,37	0,5	1,0	45
0,55	0,68	1,3	47
0,75	0,91	1,7	47
1,1	1,3	2,4	52
1,5	1,73	3,3	52
2,2	2,43	4,5	53
3	3,28	5,7	53
4	4,33	7,9	56
5,5	5,91	10,6	61
7,5	7,98	13,3	63
11	11,69	19,5	63
15	15,82	26,0	65
18,5	19,47	32,3	65
22	23,06	38,5	67
30	31,38	52,5	67
37	38,7	62,0	70
45	47,02	76,6	70
55	57,41	93,0	71

100 Hz: 3000 rpm (280 - 380 V)

P ₂ [kW]	P ₁ [kW]	I [A]	dB(A)
1,5	1,7	3,0	59
2,2	2,5	5,2	59
3	3,24	5,9	62
4	4,39	7,8	64
5,5	5,95	10,5	68
7,5	8,06	14,6	68
11	11,96	18,8	69
15	16,29	24,5	70

Legend:

P₂: Rated power

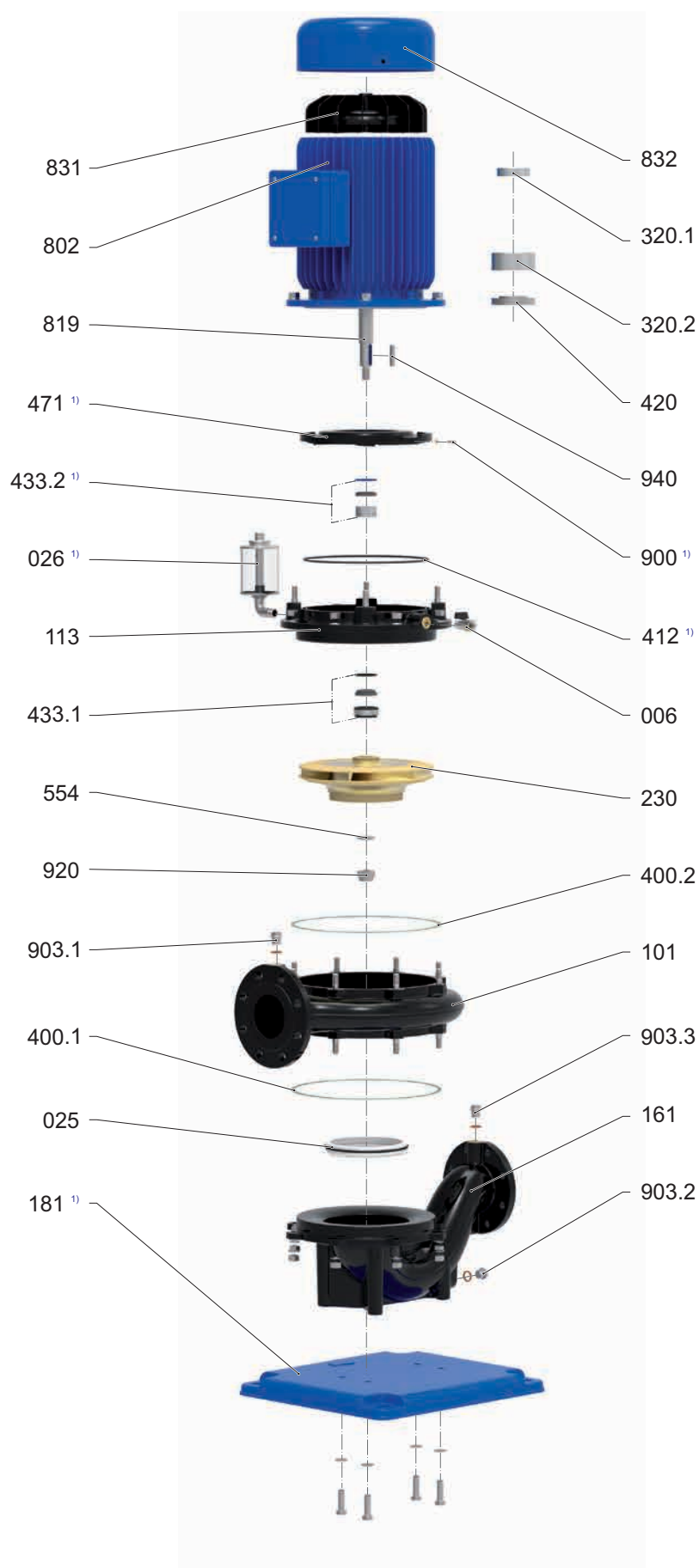
P₁: Efficiency

I: Rated current

dB(A): Sound pressure level of the entire pump. Tolerance ±3 dB(A)

Individual components

006	Ball valve
025	Impeller protector
026 ¹⁾	Seal-Guard-System
101	Pump casing
113	Intermediate casing
161	Casing cover
181 ¹⁾	Pump support
230	Impeller
320.1	Anti-friction bearing (non-drive side)
320.2	Anti-friction bearing (drive side)
400.1	Gasket
400.2	Gasket
412 ¹⁾	O-ring
420	Shaft seal ring
433.1	Mechanical seal
433.2 ¹⁾	Mechanical seal
471 ¹⁾	Seal cover
554	Washer
802	Block motor
819	Motor shaft
831	Fan
832	Fan hood
900 ¹⁾	Screw
901 ¹⁾	Hexagon screw
903.1	Screwed plug
903.2	Screwed plug
903.4	Drain plug
920	Nut
940	Key



¹⁾ Special design/accessories

Frequency converter

Frequency converters are used for the electronic regulation of motor speed which saves a significant quantity of energy. They also extend the service life of the system and reduce repair and maintenance costs.

Their main advantage is that through pump speed regulation the duty point can be adapted to the system requirements (e.g. night-time energy reduction in swimming pools), which compared to previous technical solutions and possibilities brings significant improvements for saving energy.

Frequency converters are used for direct installation (power up to 22 kW) and for installation in wall or switch cabinets (all ratings).



Seal-Guard-System

The Seal-Guard-System prevents dry running of the mechanical seal by means of a reserve medium supply.

As soon as the primary mechanical seal in a pump is not in contact with the medium (a situation which subsequently would result in dry running), the reserve medium supply compensates for this insufficient lubrication. The medium supply is introduced into the pump back wall and is sealed on the drive side against the motor by means of a further secondary mechanical seal. You can also see from this tank if the primary mechanical seal is leaking. This system is maintenance-free with the exception of a possible topping up of the reserve medium supply.

Through dry running protection for the primary mechanical seal by means of medium supply costs can be saved and therefore the life cycle costs lowered.



ETS X4

The electronic dry running protection system (ETS X4) prevents dry running of the mechanical seal by means of electronic monitoring. The air venting process is automated.

This allows a saving of replacement seals and their assembly, reduces standstill times considerably and therefore minimises the life cycle costs for the pump.

Please note that it is not possible to vent an entire system with the ETS.



Long-Life-Set

The Long-Life-Set consists of a grease gun with high-performance grease. By ensuring the relubrication of motor bearings, the service life of the bearings is noticeably increased and therefore the life cycle costs of the pump are significantly improved.



Analogue pressure display

The analogue pressure display is for indicating the pressure on the pressure side of the pump. This enables the operator to determine contamination of the filter strainer easily.



Digital pressure display

The digital pressure detector records the pressure on the pressure side of the pump. The value is displayed directly on the optional digital display.



По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93