

TECHNICAL DATA BROSchURE
60Hz

herborner.**F-N**

100% COATING = 0% CORROSION!



Certified to
NSF/ANSI Standard 50



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TECHNICAL DESCRIPTIONS

Use

With its 100% coating, the herborner.F-N is particularly well suited for to use in swimming pool leisure centers, water parks and amusement parks. In addition, they can be used for any application where a perfect and clean environment is required and the pump cannot introduce corrosive substances to the medium. These include industrial areas and water treatment facilities. Since the coating is approved for swimming pools and drinking water, it can be used practically anywhere.

The coating thickness of up to 3.9×10^{-2} inches provides an extremely smooth surface. Hydraulic efficiency is thus improved by up to 10%, saving energy over years.

Coating

A 100% coating of all necessary, medium-contacting parts and susceptible parts prevents corrosion and protects against corrosive substances. Corrosion damage to the pump and system components is then avoided.

Impeller protector

Special impeller protectors made of durable plastic prevent the impeller from rusting (after shutdown) and ensure quiet operation.

The version with a very small gap allows for high efficiency.

Mechanical seal protector

The mechanical seal seat is 100% protected against corrosion. Corrosion wells are prevented in the intermediate casing around the O-ring seat of the mechanical seal. This improvement in corrosion stability leads to a reduction in life cycle costs.

X-Lock system

The X-Lock system allows internal threads to be 100% coated in cast parts to prevent corrosion in the threads.

Service and maintenance

Only stainless steel screw connections are used, keeping the components easy to maintain for years.

Seal Guard system (option)

In general, a mechanical seal breaks after just a few seconds of dry running. The innovative and maintenance-free Seal Guard system greatly exceeds this time by offsetting lack of lubrication with a media reservoir. The primary mechanical seal is thus effectively protected against dry running.

Impeller

Dynamically balanced impellers ensure vibration-free running and contribute significantly to the long service life of the pump. By correcting the diameter, all impellers can reach any operating point within the characteristic diagram.



Closed multi vane impellers are used for clean to lightly contaminated pumped media.

Construction

The robust and stable type of construction continues to be used consistently. The rear pull-out design allows the interchangeable module to be easily replaced. Variable flange positions in 45° increments also offer optimum design possibilities.

TECHNICAL DESCRIPTIONS

Economic efficiency

Generously dimensioned shafts and bearings prolong the lifetime of the pump. The motors also come with a relubrication unit starting from 1.5 HP.

These technological improvements over standard motors considerably reduce the life cycle cost of the pump.

Motor shaft

The high-alloy, stainless steel motor shaft with high bending stiffness ensures minimum deflection. This minimizes leaks in the sealing, increasing the lifetime of the motor shaft.

Shaft seal

The shaft seal is a maintenance-free, bidirectional mechanical seal made of wear-resistant silicon carbide (SiC).

With the Seal Guard system version, a mechanical seal made from wear-resistant silicon carbide (SiC) seals at the pump side and another mechanical seal made of carbon/chrome molybdenum casting seals on the drive side. To lubricate and cool the mechanical seals, the intermediate casing is filled with NSF H1 lubricant. This oil seal even allows for short-term dry running.

All motors are equipped on the pump side with a special sealing against splash water.

By-pass channel

This ensures that the mechanical seal is optimally flushed with pumped medium. The sliding surfaces receive the necessary lubricating and cooling medium, which effectively increase the lifetime of the mechanical seal.

Installation

The pumps are delivered in horizontal and vertical installations with the “motor facing up”.



Horizontal installation of the pump



Vertical installation of the pump

Performance range

Speed	$Q_{\max}$ [US.gpm]	$H_{\max}$ [ft]
1,800 rpm	2,450	258

Noise

The noise is determined by complex factors such as size, materials, operating and installation conditions. Already during development, hydraulic measures and a solid construction were implemented to influence noise behavior. The maximum sound pressure level is mostly determined by the drive motors from air, magnetic and bearing noise. Lowest noise development levels is during operation near to Q_{optimal} (best efficiency).

TECHNICAL DESCRIPTIONS

Motor

A surface-cooled three-phase motor with squirrel-cage is used, which corresponds to energy-efficiency class NEMA Premium.

Design	C-Face
Speed	1,800 rpm
Frequency	60 Hz
Voltage	208-230 V/ 460 V
Service factor	1.15
Number of phases	3

The motors have a PTC thermistor ex-works.

The motor can be ordered with an external frequency converter. Using a frequency converter is recommended.

Frequency control of the pumps is possible depending on the operating conditions.

from 30 to 60 Hz

General data

- Media temperature range from +23 to 140 °F; higher temperatures by request
- Explosion-proof version from +23 to +104 °F
- Ambient temperature range: +23 to +104 °F
- Pumped medium H₂S-free, up to 1000 oz/gal chloride ions
- Density of the pumped medium up to maximum 8.76 lb/gal
- Viscosity of the pumped medium up to maximum 1.88 x 10⁻⁵ sq ft/s

Output can be adjusted for different operating conditions according to customer specifications.

Special configurations

- Different voltage and/or mains frequency
- Different insulation class
- Elevated ambient temperature
- Higher protection type
- Enhanced tropical and moisture protection
- Special materials
- Special paint finish for all uncoated components
- Permanent magnet motors with the highest efficiency (herborner.F-N-PM)
- Heat exchanger motor with diffusion of motor waste heat to the medium (herborner.F-N-C)
- Explosion-proof version (ATEX)
- Customer-specific solutions

TECHNICAL DESCRIPTIONS

Model designation

FN032-200A-0054N-W2B-V



Number	Name	Type key identification	Meaning
1	Design	FN	herborner.F-N
2	Nominal diameter pressure flange	032	1 ¼
		040	1 ½
		050	2
		065	2 ½
		080	3
		100	4
		125	5
		150	6
		200	8
3	Design dimension	200	Design dimension
4	Version	A-Z	Type
5	Motor power	010	1 hp
		015	1.5 hp
		020	2 hp
		030	3 hp
		050	5 hp
		075	7.5 hp
		100	10 hp
		150	15 hp
		200	20 hp
		250	25 hp
		300	30 hp
		400	40 hp
		500	50 hp
		600	60 hp
		750	75 hp

TECHNICAL DESCRIPTIONS

Number	Name	Type key identification	Meaning
		1000	100 hp
6	Speed	4	1,800 rpm
7	Motor type	N	NEMA Premium with reinforced bearings
8	Type of material	W2B	See type of material
		W30	See type of material
		W40	See type of material
		W60	See type of material
9	Flange position	V	Front (standard)
		VL	Center between front and left
		L	Left
		VR	Center between front and left
		R	Right

TECHNICAL DESCRIPTIONS

Type of material

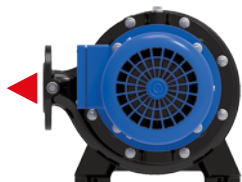
Individual parts	W2B	W30	W40	W60
Impeller protector	POM/FKM	POM	POM	POM
Pump casing	AISI A48-40B ¹⁾	C90700	ASTM A351 CF8M	ASTM A890 Grade 1B
Intermediate casing	AISI A48-40B ¹⁾	C90700	ASTM A351 CF8M	ASTM A890 Grade 1B
Casing cover	AISI A48-40B ¹⁾	C90700	ASTM A351 CF8M	ASTM A890 Grade 1B
Impeller	C95800	C95800	ASTM A351 CF8M	ASTM A890 Grade 1B
Mechanical seal	SiC/SiC/FKM	SiC/SiC/FKM	SiC/SiC/FKM	SiC/SiC/FKM
Carbon Mechanical seal	Chrome steel/carbon/NBR	Chrome steel/carbon/NBR	Chrome steel/carbon/NBR	Chrome steel/carbon/NBR
Seal cover	AISI A48-40B	AISI A48-40B	ASTM A351 CF8M	ASTM A890 Grade 1B
Motor shaft	AISI 316Ti	AISI 316Ti	AISI 316Ti or 318LN	AISI 316Ti or 318LN
Mechanical seal protector	C95800	-	-	-

1) With thick film coating

TECHNICAL DESCRIPTIONS

Flange position ¹⁾

Picture L



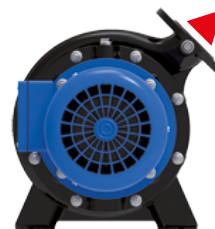
Picture VL



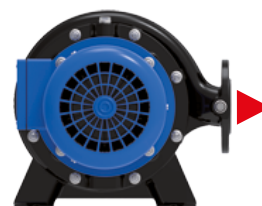
Picture V (Standard)



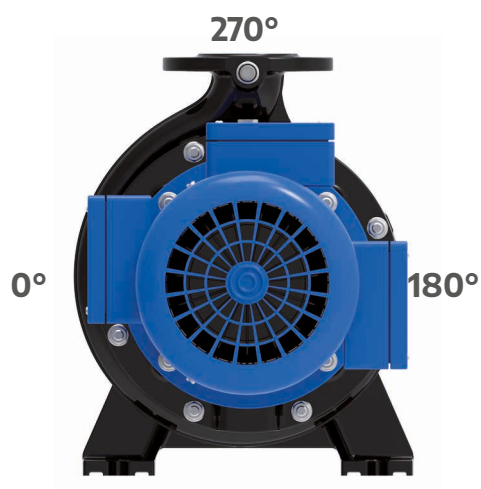
Picture VR



Picture R



Junction box position

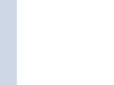


Junction box position for standard version on the fan of the motor seen left (0°).

¹⁾ See versions

VERSIONS

1,800 rpm

Type	P ₂ [hp]	Version			Flange position					Accessories (option)	
		with blind hole thread ¹⁾	with flange ¹⁾	with base rail	L	VL	V	VR	R	Seal Guard System	Variable frequency drive (Wall- mounted)
											
FN032-200A	1	●	-	-	○	○	●	○	○	○	○
FN032-200A	1.5	●	-	-	○	○	●	○	○	○	○
FN032-200A	2	●	-	-	○	○	●	○	○	○	○
FN032-200A	3	●	-	-	○	○	●	○	○	○	○
FN032-250A	3	●	-	-	○	○	●	○	○	○	○
FN032-250A	5	●	-	-	○	○	●	○	○	○	○
FN040-160A	1	●	-	-	○	○	●	○	○	○	○
FN040-160A	1.5	●	-	-	○	○	●	○	○	○	○
FN040-220A	2	●	-	-	○	○	●	○	○	○	○
FN040-220A	3	●	-	-	○	○	●	○	○	○	○
FN040-270A	5	●	-	-	○	○	●	○	○	○	○
FN040-270A	7.5	●	-	-	○	○	●	○	○	○	○
FN040-270A	10	●	-	-	○	○	●	○	○	○	○
FN050-140A	1	●	-	-	○	○	●	○	○	○	○
FN050-140A	1.5	●	-	-	○	○	●	○	○	○	○
FN050-140A	2	●	-	-	○	○	●	○	○	○	○
FN050-160A	1	●	-	-	○	○	●	○	○	○	○
FN050-160A	1.5	●	-	-	○	○	●	○	○	○	○
FN050-160A	2	●	-	-	○	○	●	○	○	○	○
FN050-190A	3	●	-	-	○	○	●	○	○	○	○
FN050-190A	5	●	-	-	○	○	●	○	○	○	○
FN050-240A	3	●	-	-	○	○	●	○	○	○	○

● Standard

○ Option

- not executable

¹⁾ Suction side

VERSIONS

1,800 rpm

Type	P ₂ [hp]	Version			Flange position					Accessories (option)	
		with blind hole thread ¹⁾	with flange ¹⁾	with base rail	L	VL	V	VR	R	Seal Guard System	Variable frequency drive (Wall- mounted)
											
FN050-240A	5	●	-	-	○	○	●	○	○	○	○
FN050-240B	5	●	-	-	○	○	●	○	○	○	○
FN065-200A	2	●	-	-	○	○	●	○	○	○	○
FN065-200A	3	●	-	-	○	○	●	○	○	○	○
FN065-200A	5	●	-	-	○	○	●	○	○	○	○
FN065-220A	5	●	-	-	○	○	●	○	○	○	○
FN065-220A	7.5	●	-	-	○	○	●	○	○	○	○
FN065-240A	5	●	-	-	○	○	●	○	○	○	○
FN065-240A	7.5	●	-	-	○	○	●	○	○	○	○
FN065-270A	7.5	●	-	-	○	○	●	○	○	○	○
FN065-270A	10	●	-	-	○	○	●	○	○	○	○
FN065-270C	10	●	-	-	○	○	●	○	○	○	○
FN065-300B	15	●	-	-	○	○	●	○	○	○	○
FN065-300B	20	●	-	-	○	○	●	○	○	○	○
FN080-170A	2	-	●	-	○	○	●	○	○	○	○
FN080-170A	3	-	●	-	○	○	●	○	○	○	○
FN080-170A	5	-	●	-	○	○	●	○	○	○	○
FN080-210A	5	●	-	-	○	○	●	○	○	○	○
FN080-210A	7.5	●	-	-	○	○	●	○	○	○	○
FN080-210A	10	●	-	-	○	○	●	○	○	○	○
FN080-210A	15	●	-	-	○	○	●	○	○	○	○
FN080-255A	5	●	-	-	○	○	●	○	○	○	○

● Standard

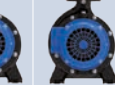
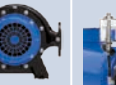
○ Option

- not executable

1) Suction side

VERSIONS

1,800 rpm

Type	P ₂ [hp]	Version			Flange position					Accessories (option)	
		with blind hole thread ¹⁾	with flange ¹⁾	with base rail	L	VL	V	VR	R	Seal Guard System	Variable frequency drive (Wall- mounted)
											
FN080-255A	7.5	●	-	-	○	○	●	○	○	○	○
FN080-255A	10	●	-	-	○	○	●	○	○	○	○
FN080-330A	20	●	-	-	○	○	●	○	○	○	○
FN080-330A	25	●	-	-	○	○	●	○	○	○	○
FN080-330A	30	●	-	-	○	○	●	○	○	○	○
FN080-330A	40	●	-	●	-	-	●	-	-	○	○
FN100-180A	5	-	●	-	-	-	●	○	○	○	○
FN100-180A	7.5	-	●	-	○	○	●	○	○	○	○
FN100-210A	10	-	●	-	○	○	●	○	○	○	○
FN100-210A	15	-	●	-	○	○	●	○	○	○	○
FN100-240A	10	●	-	-	○	○	●	○	○	○	○
FN100-240A	15	●	-	-	○	○	●	○	○	○	○
FN100-270A	10	●	-	-	○	○	●	○	○	○	○
FN100-270A	15	●	-	-	○	○	●	○	○	○	○
FN100-330A	30	●	-	-	○	○	●	○	○	○	○
FN100-330A	40	●	-	-	○	○	●	○	○	○	○
FN100-330C	20	●	-	-	○	○	●	○	○	○	○
FN100-330C	25	●	-	-	○	○	●	○	○	○	○
FN125-250A	5	-	●	-	○	○	●	○	○	○	○
FN125-250A	7.5	-	●	-	○	○	●	○	○	○	○
FN125-250A	10	-	●	-	○	○	●	○	○	○	○
FN125-250A	15	-	●	-	○	○	●	○	○	○	○

● Standard

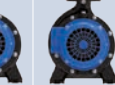
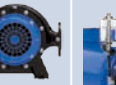
○ Option

- not executable

1) Suction side

VERSIONS

1,800 rpm

Type	P ₂ [hp]	Version			Flange position					Accessories (option)	
		with blind hole thread ¹⁾	with flange ¹⁾	with base rail	L	VL	V	VR	R	Seal Guard System	Variable frequency drive (Wall- mounted)
											
FN125-270A	15	●	-	-	○	○	●	○	○	○	○
FN125-270A	20	●	-	-	○	○	●	○	○	○	○
FN125-270A	25	●	-	-	○	○	●	○	○	○	○
FN125-270B	20	●	-	-	-	-	●	○	○	○	○
FN125-270B	25	●	-	-	-	-	●	○	○	○	○
FN125-270B	30	●	-	-	-	-	●	○	○	○	○
FN125-270B	40	-	●	●	-	-	●	-	-	○	○
FN150-250A	10	-	●	-	-	-	●	-	-	○	○
FN150-250A	15	-	●	-	-	-	●	-	-	○	○
FN150-250A	20	-	●	-	-	-	●	-	-	○	○
FN150-270B	25	-	●	-	-	-	●	-	-	○	○
FN150-270B	30	-	●	-	-	-	●	-	-	○	○
FN150-270B	40	-	●	●	-	-	●	-	-	○	○
FN150-300A	25	-	●	-	-	-	●	-	-	○	○
FN150-300A	30	-	●	-	-	-	●	-	-	○	○
FN150-300A	40	-	●	●	-	-	●	-	-	○	○
FN150-400A	60	●	-	●	○	○	●	○	○	○	○
FN150-400A	75	●	-	●	○	○	●	○	○	○	○
FN150-400A	100	●	-	●	○	○	●	○	○	○	○
FN200-250A	15	-	●	-	-	-	●	-	-	○	○
FN200-250A	20	-	●	-	-	-	●	-	-	○	○

● Standard

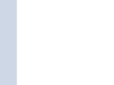
○ Option

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1) Suction side

VERSIONS

1,800 rpm

Type	P ₂ [hp]	Version			Flange position					Accessories (option)	
		with blind hole thread ¹⁾	with flange ¹⁾	with base rail	L	VL	V	VR	R	Seal Guard System	Variable frequency drive (Wall- mounted)
											
FN200-250A	25	-	●	-	-	-	●	-	-	○	○
FN200-270B	20	-	●	-	-	-	●	○	○	○	○
FN200-270B	30	-	●	-	-	-	●	○	○	○	○
FN200-270B	40	-	●	●	-	-	●	○	○	○	○
FN200-350A	75	-	●	●	-	-	●	○	○	○	○

● Standard

○ Option

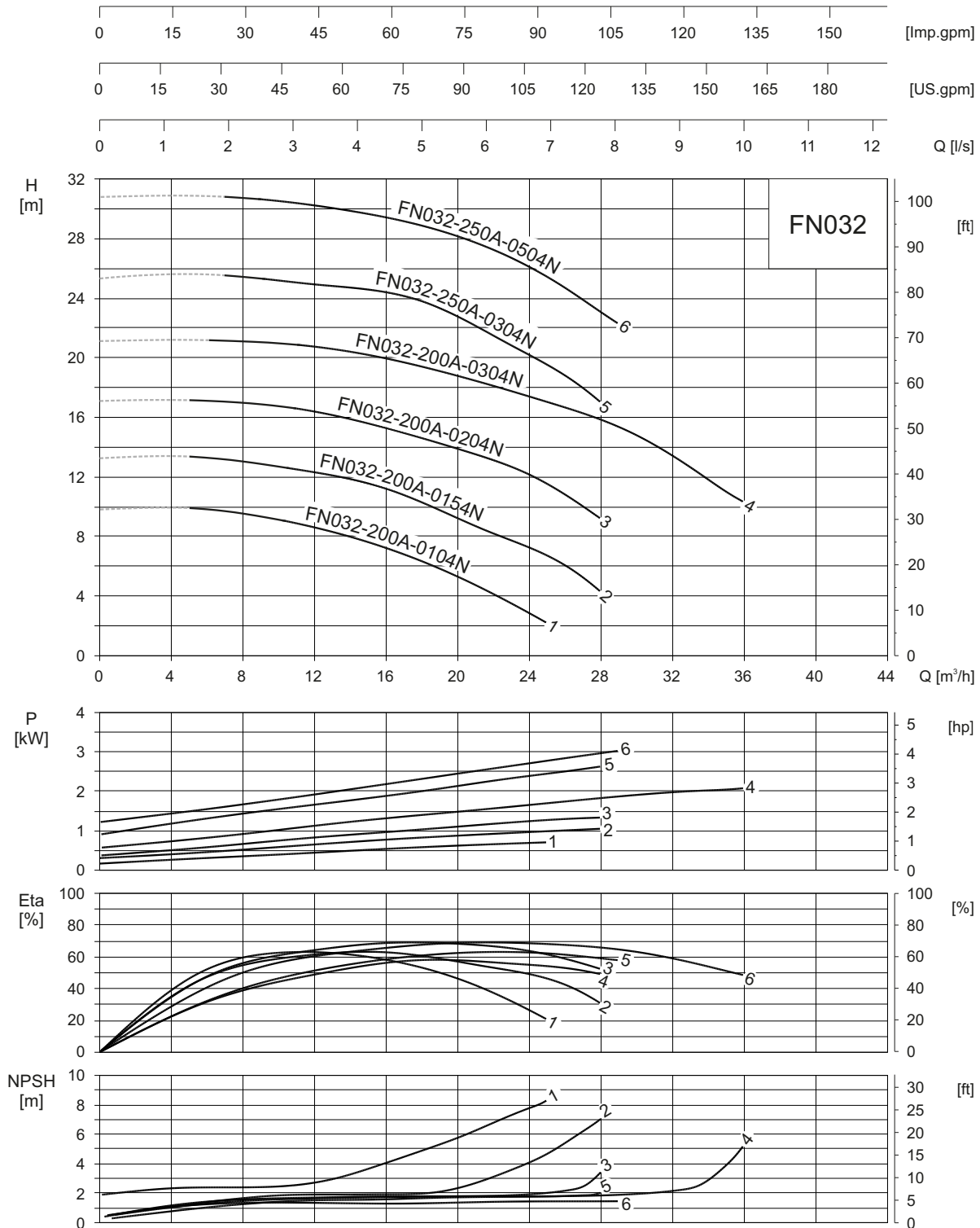
- not executable

¹⁾ Suction side

CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

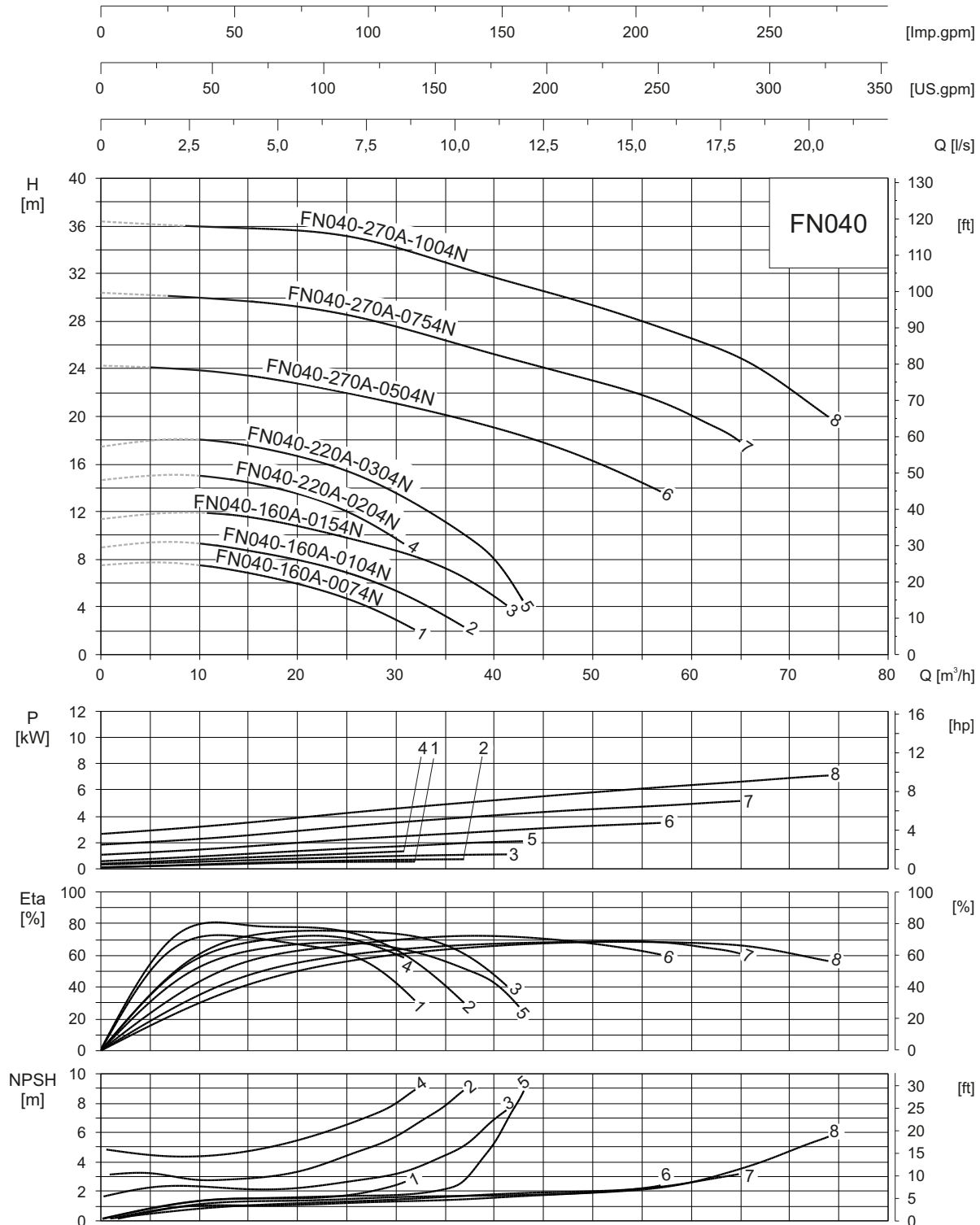
DN 32



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

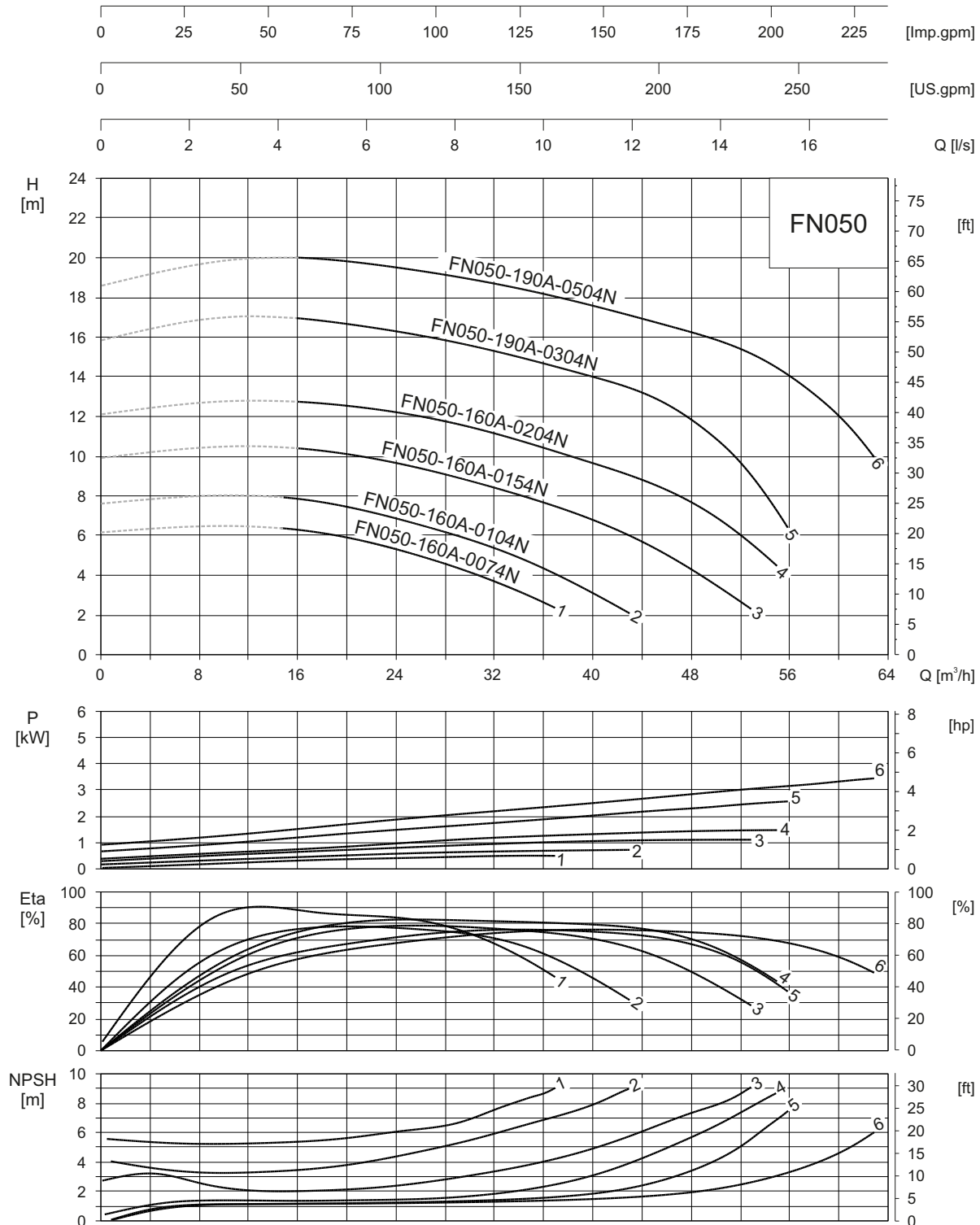
DN 40



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

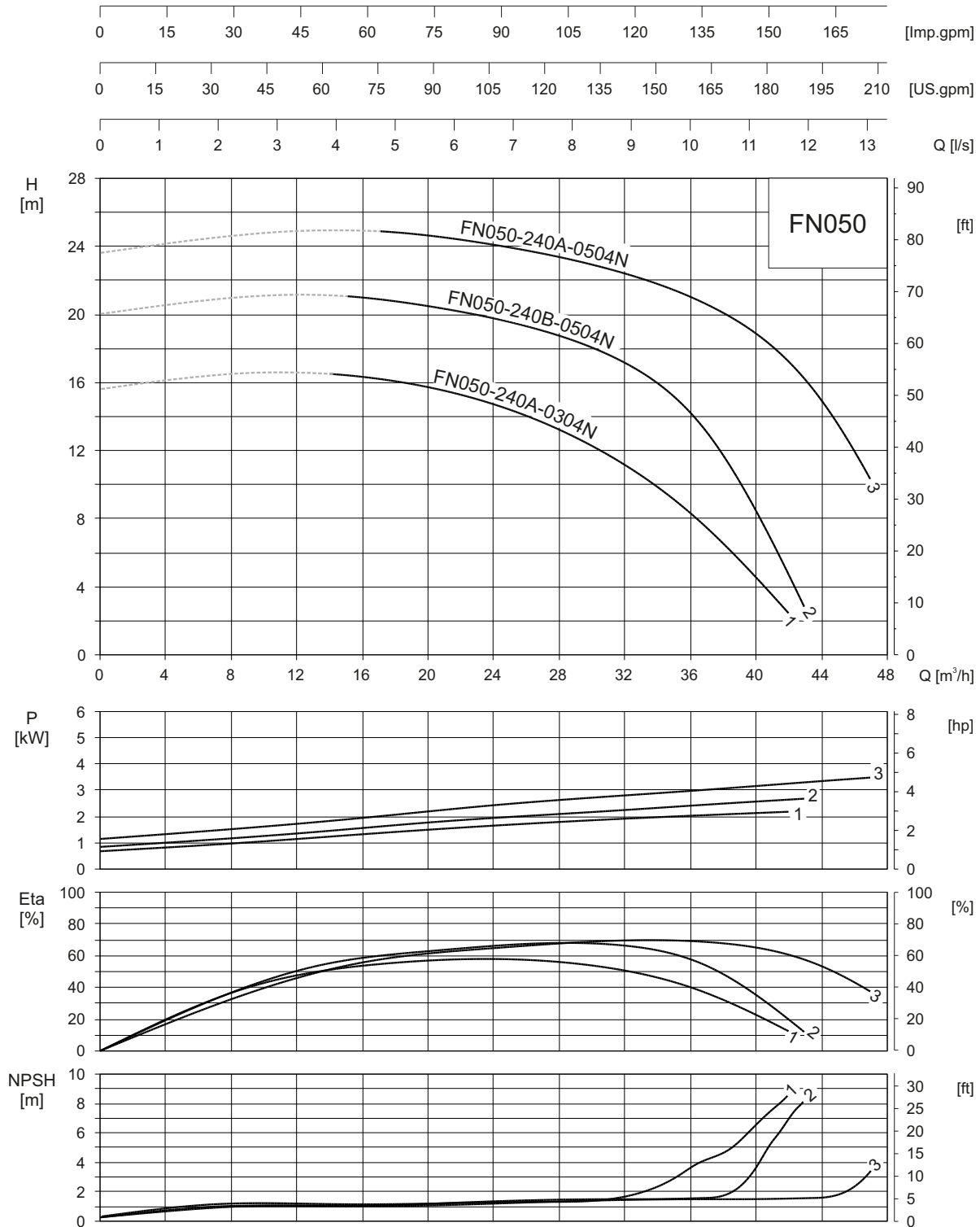
DN 50



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

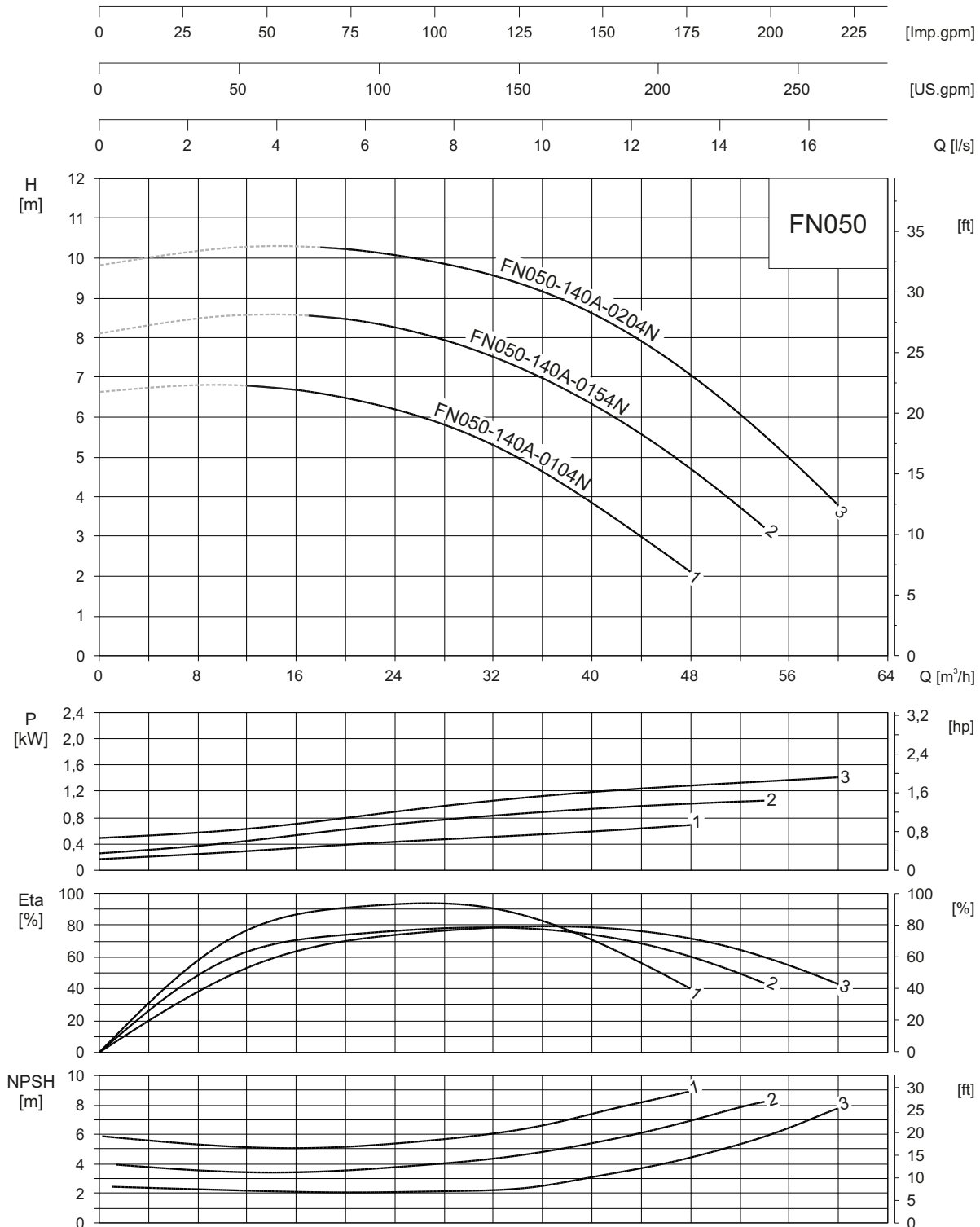
DN 50



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

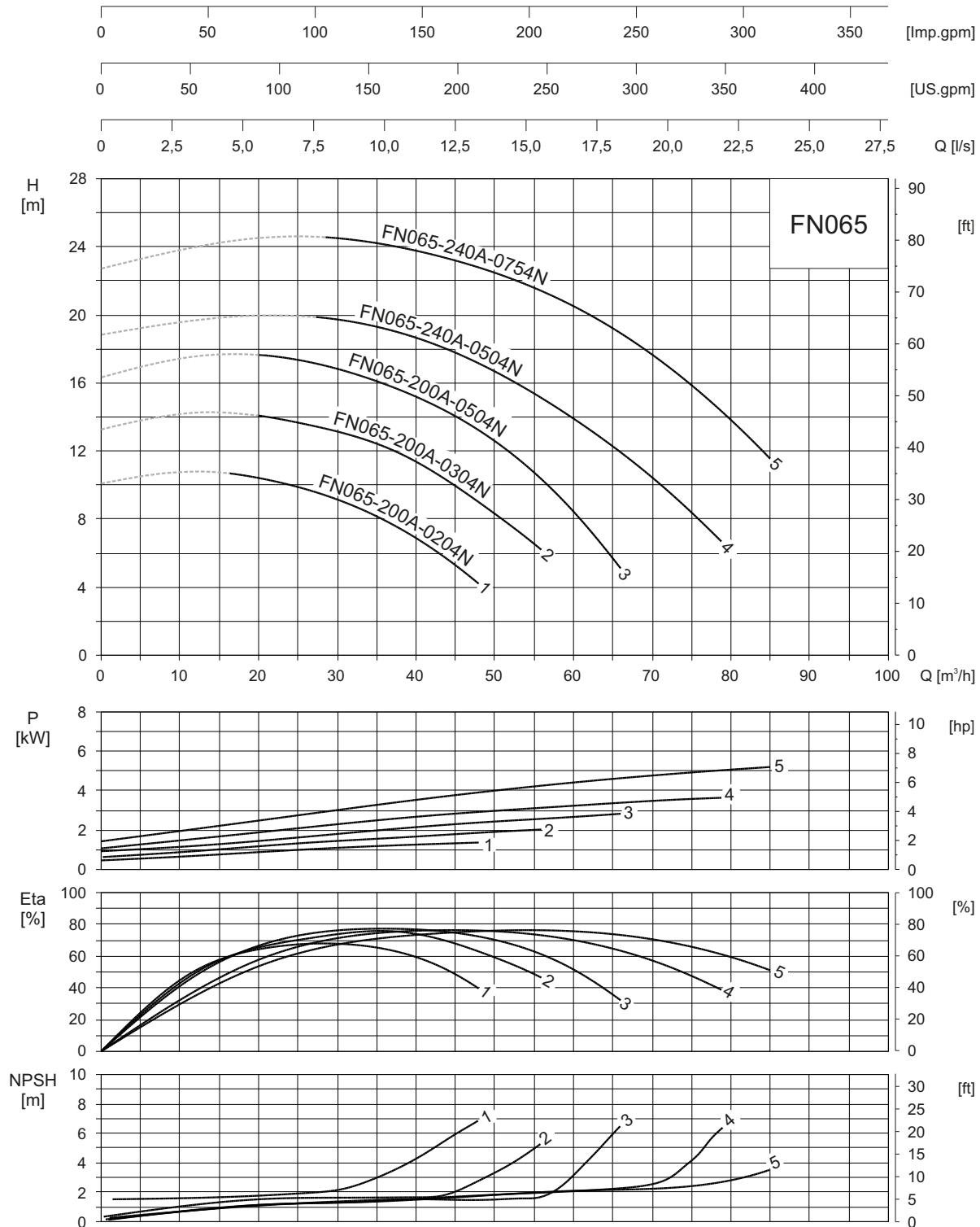
DN 50



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

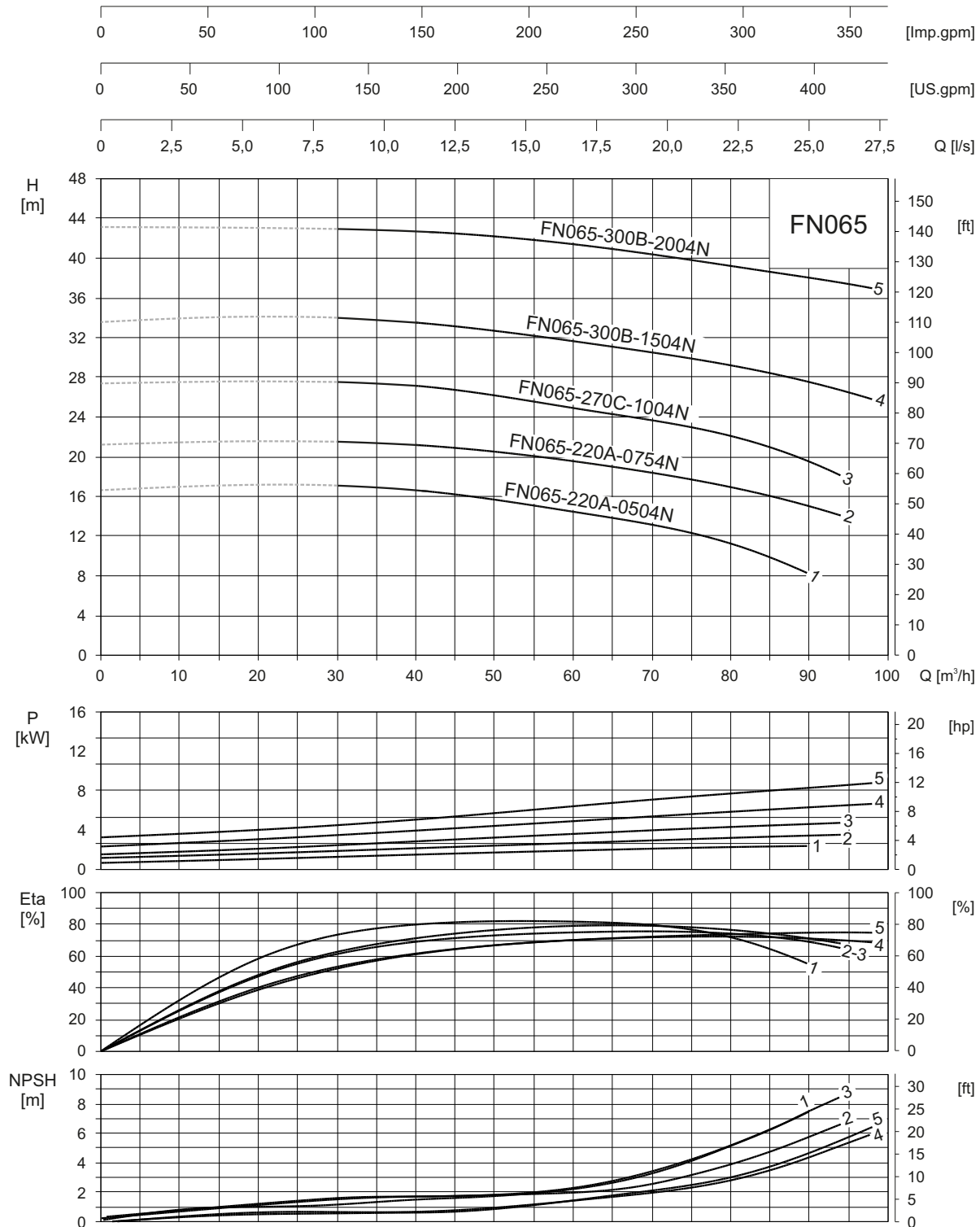
DN 65



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

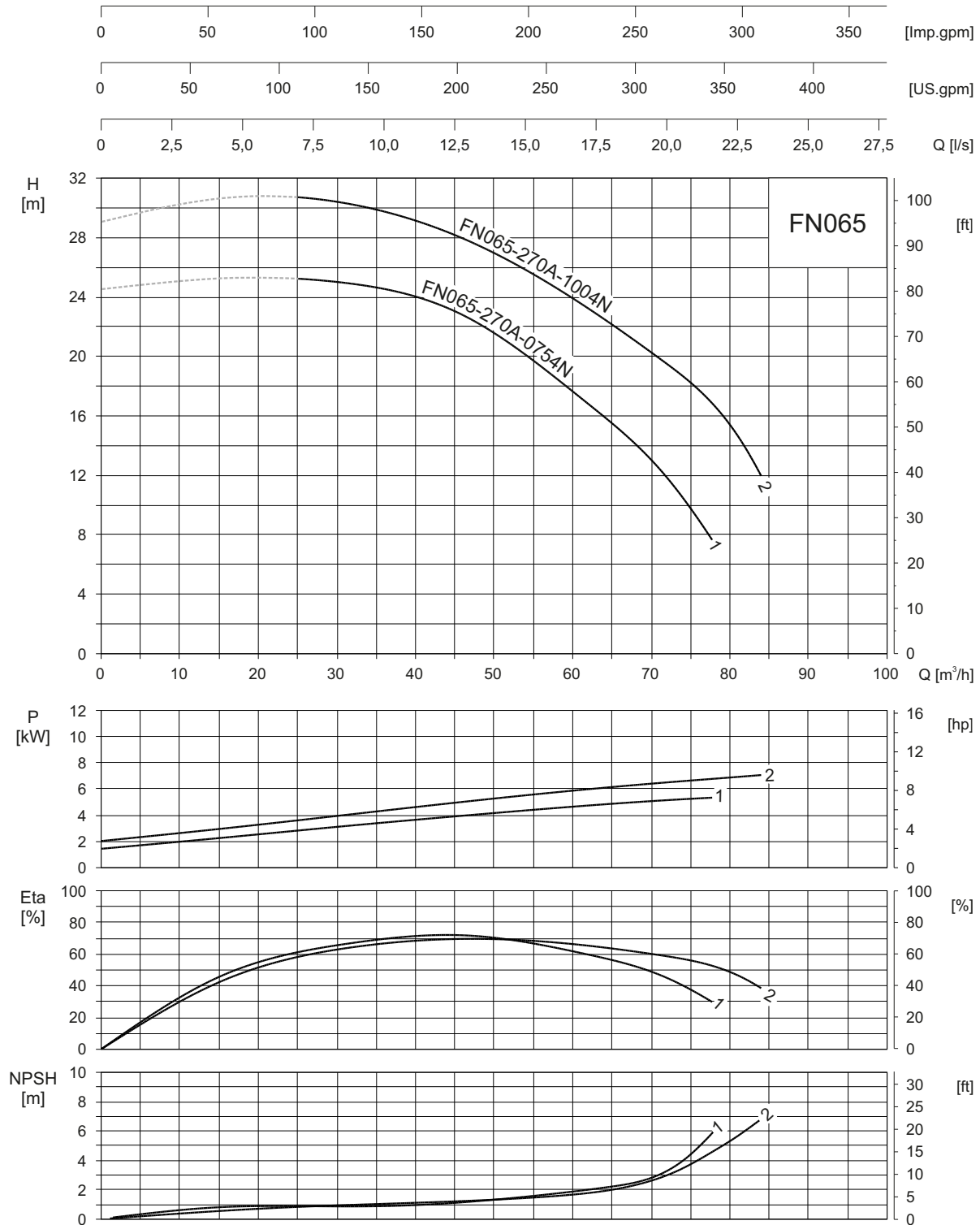
DN 65



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

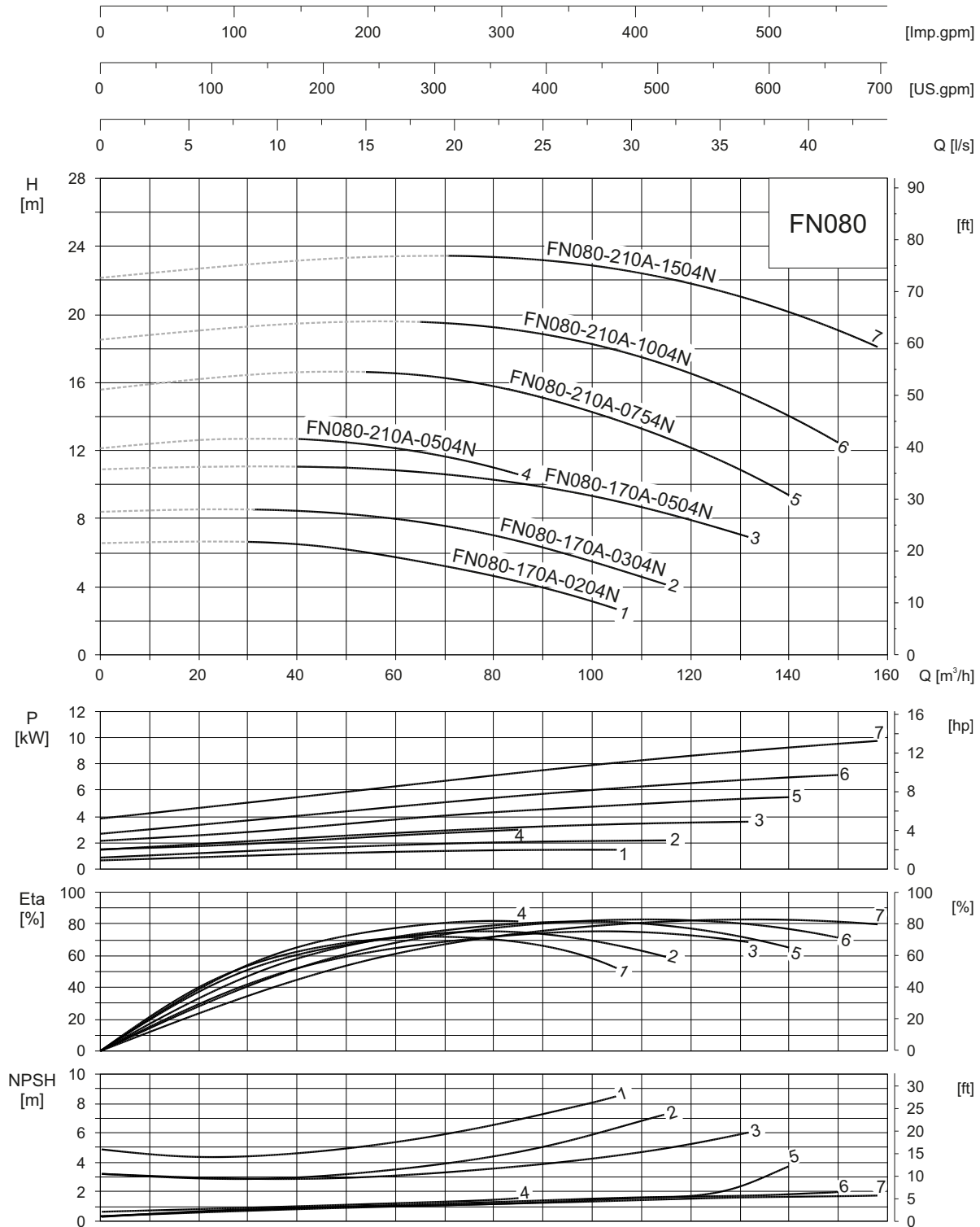
DN 65



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

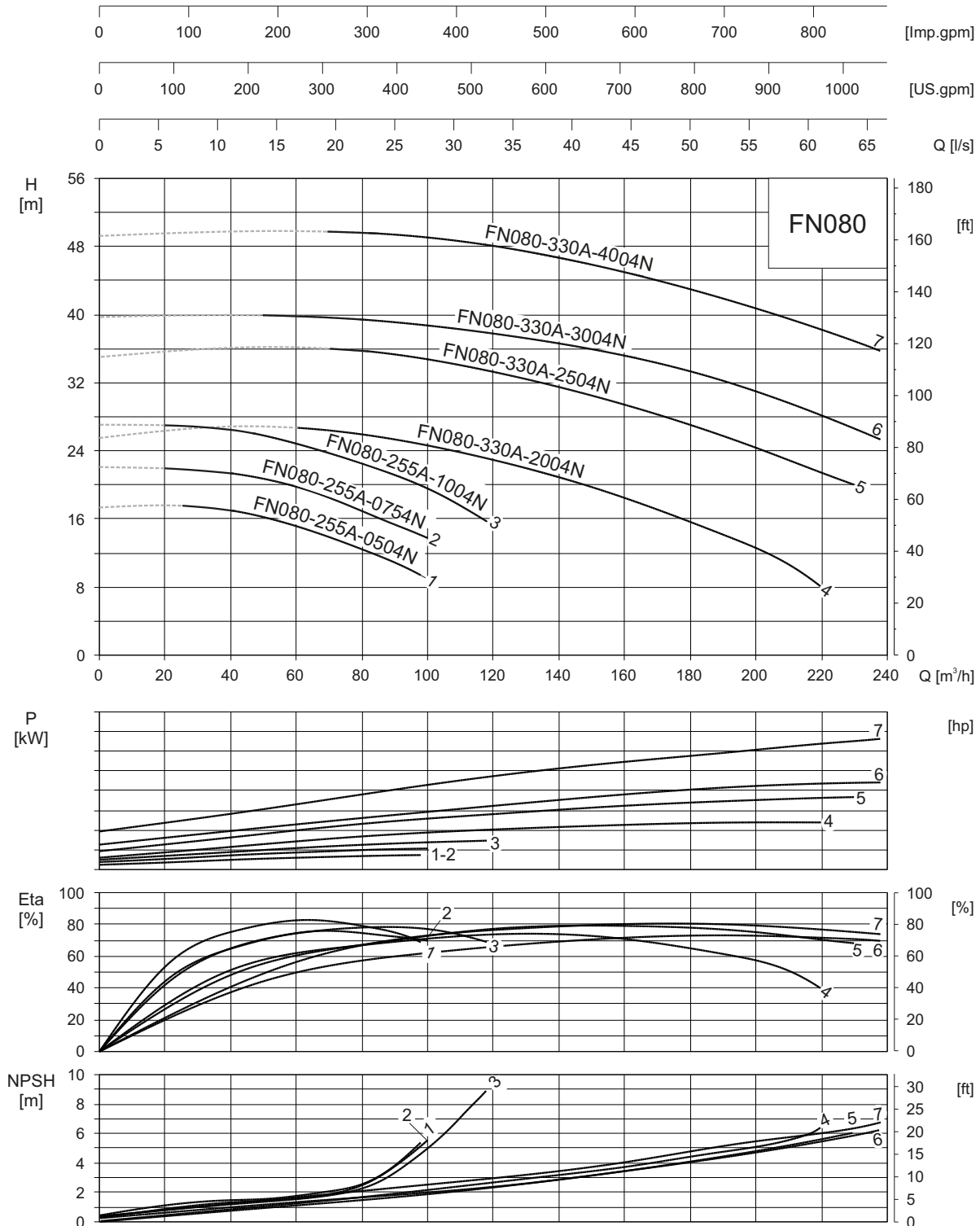
DN 80



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

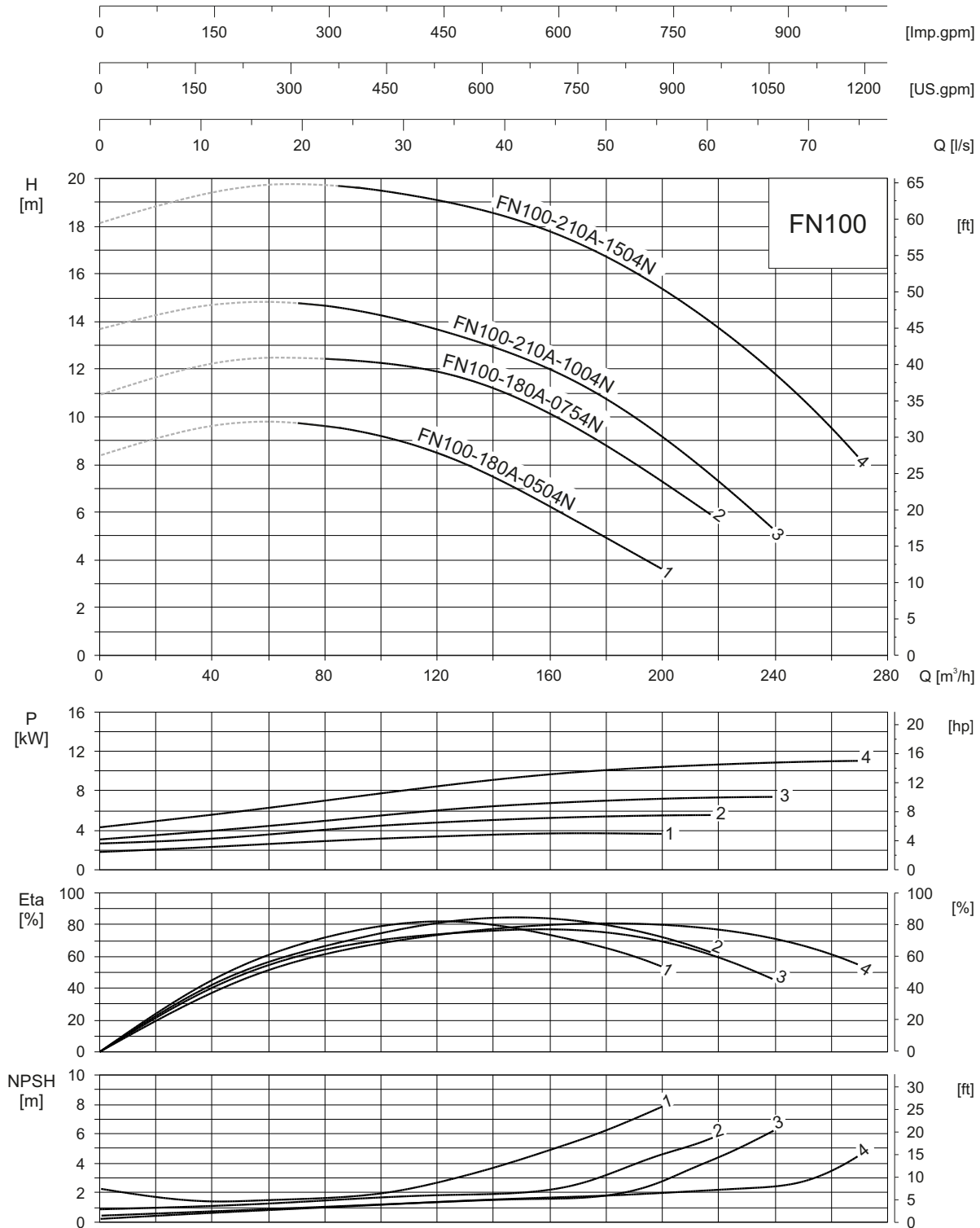
DN 80



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

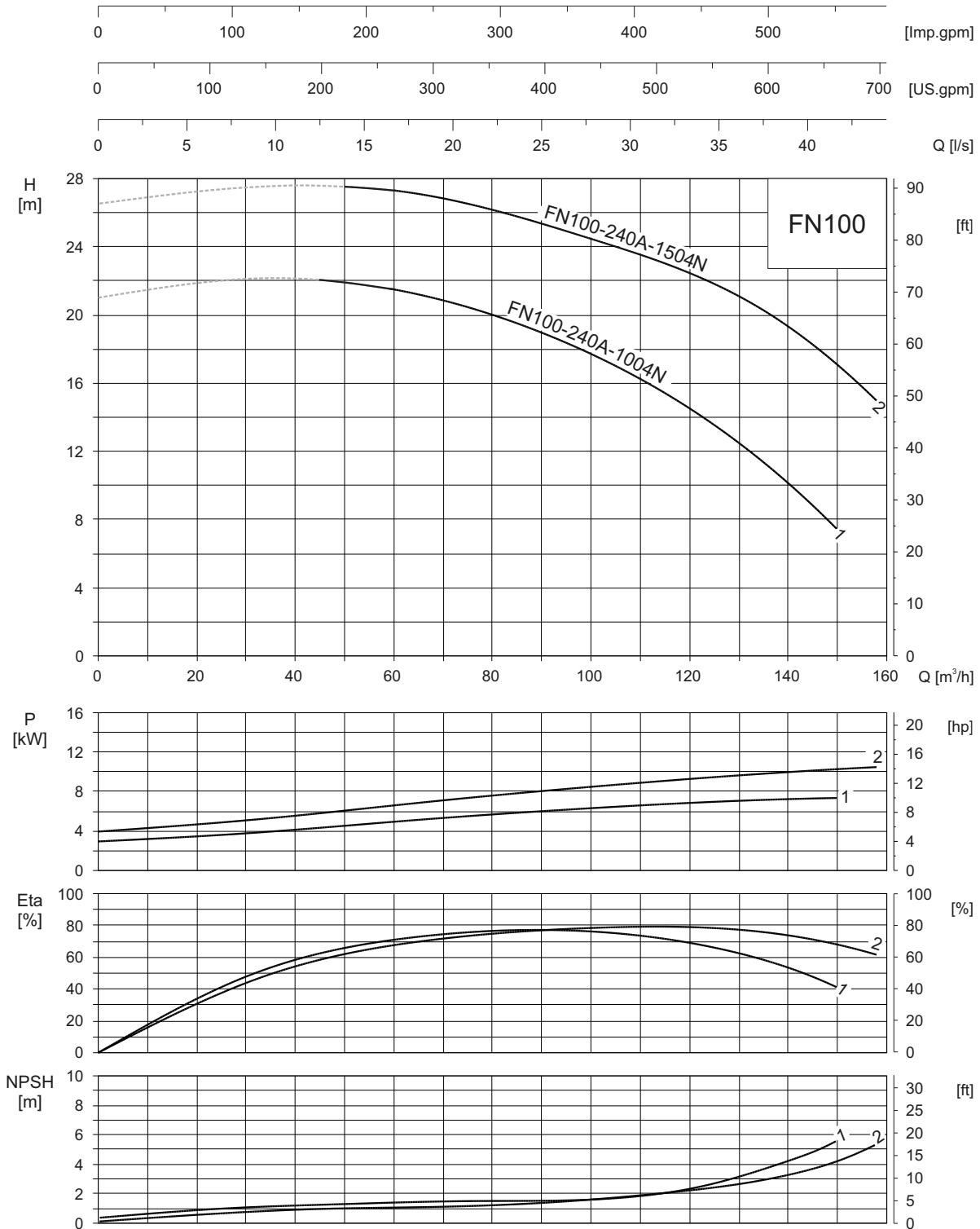
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

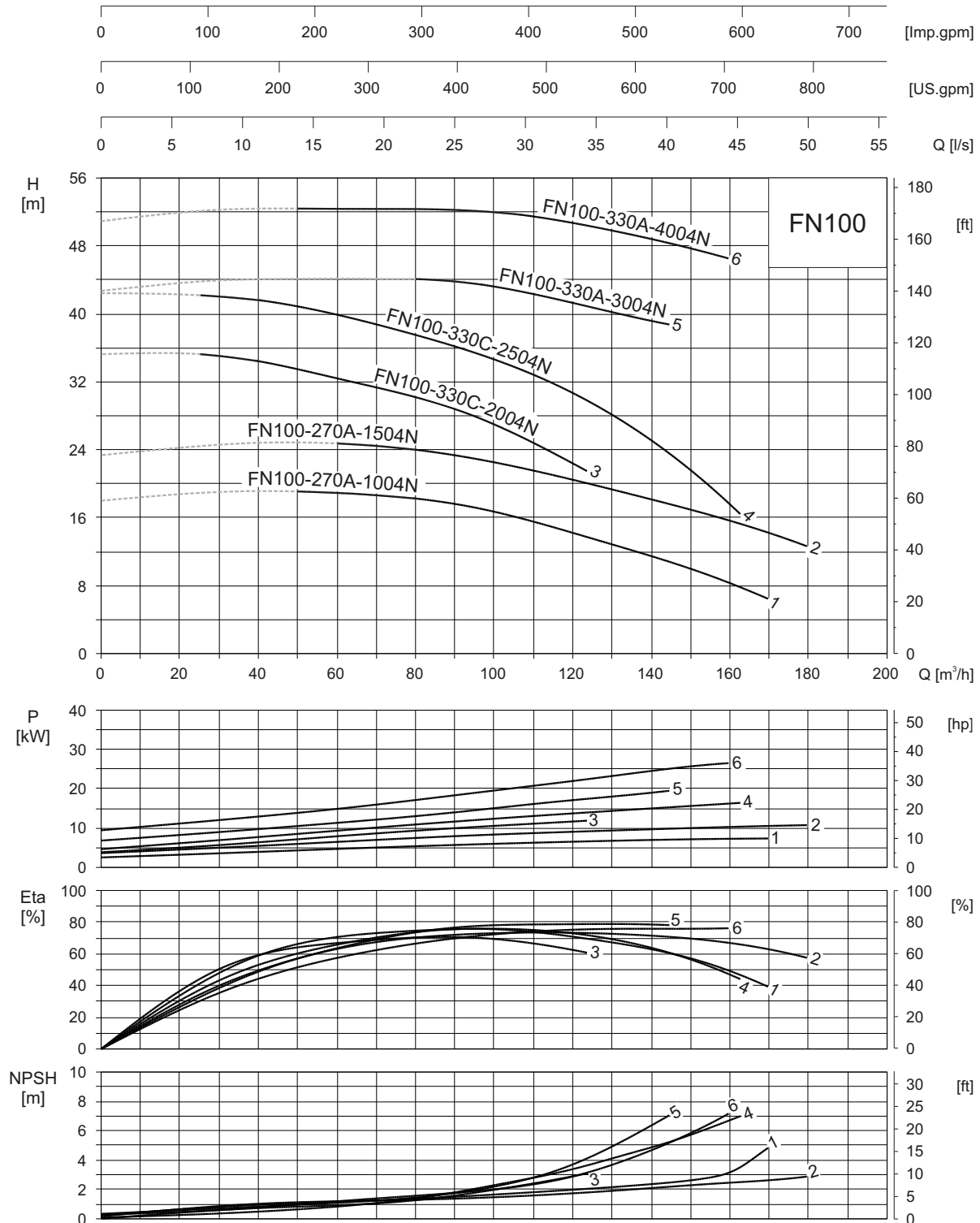
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

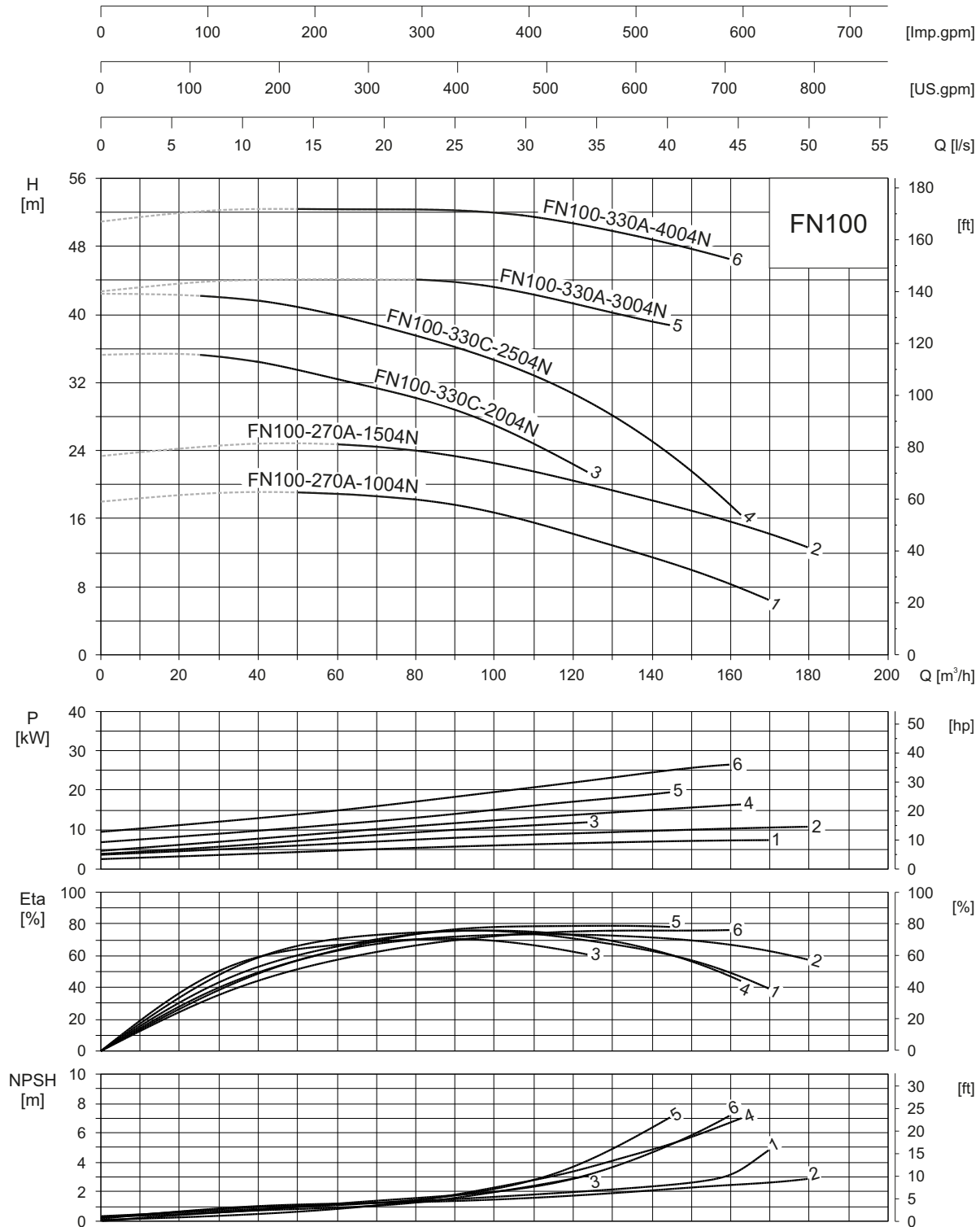
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

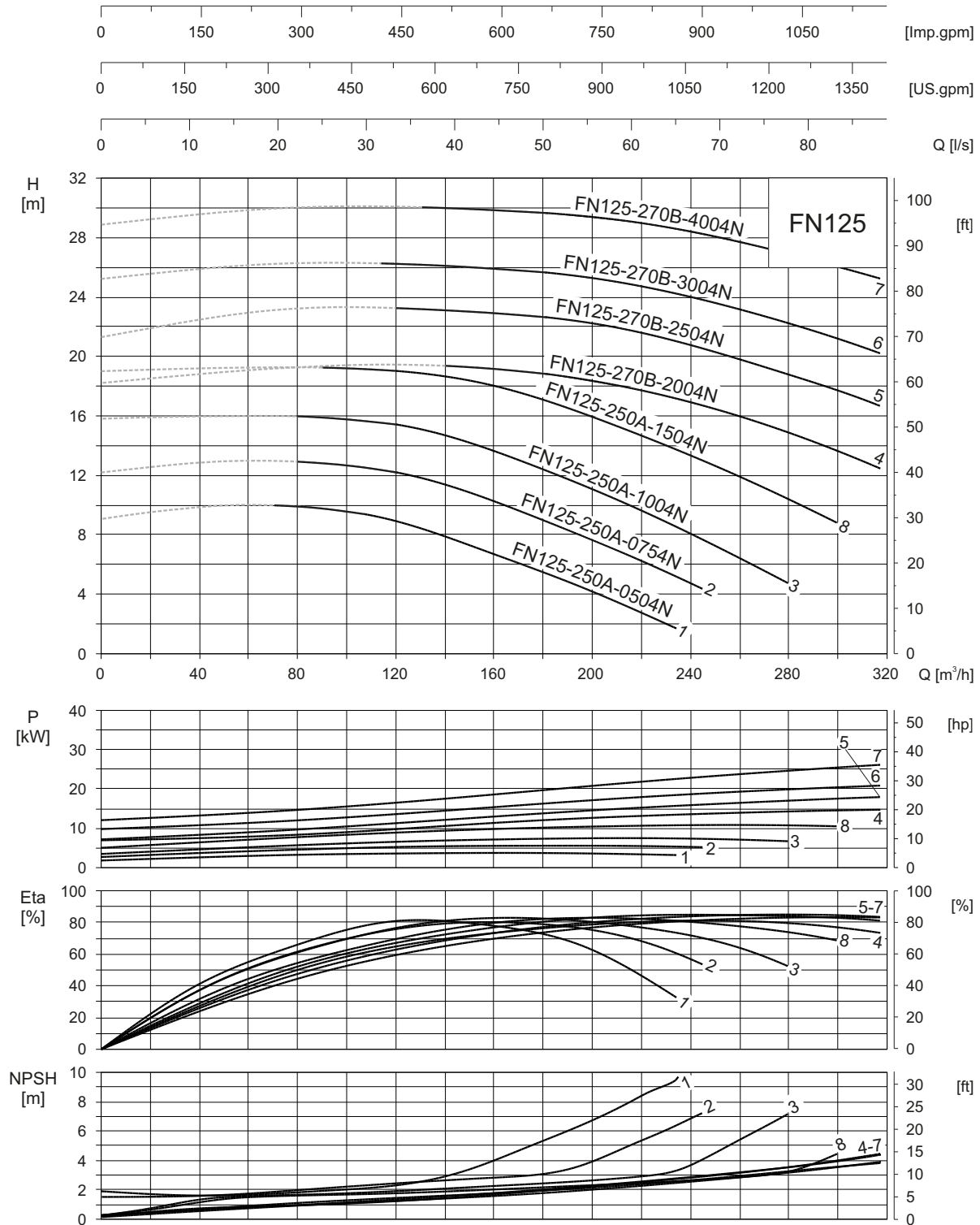
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

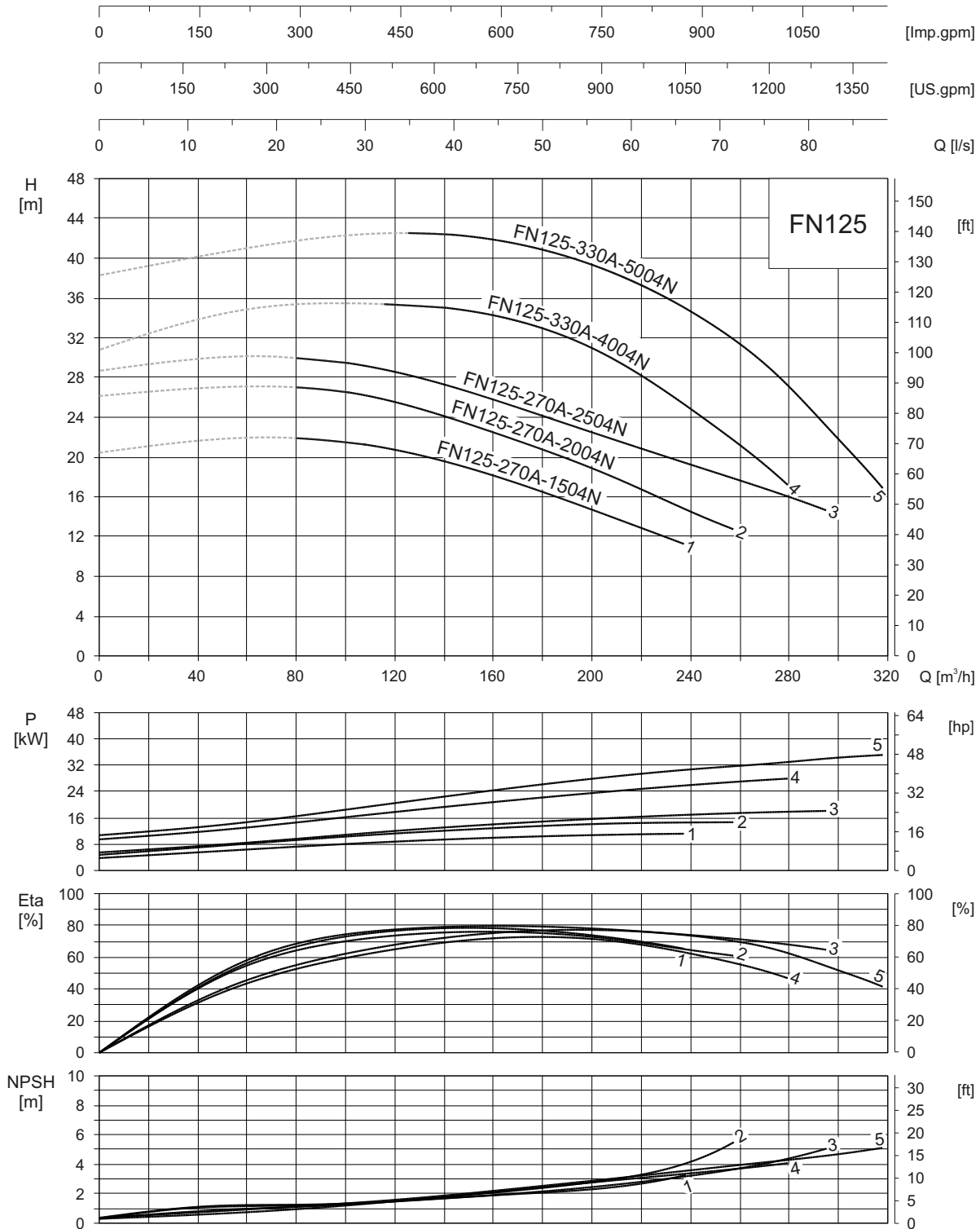
DN 125



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

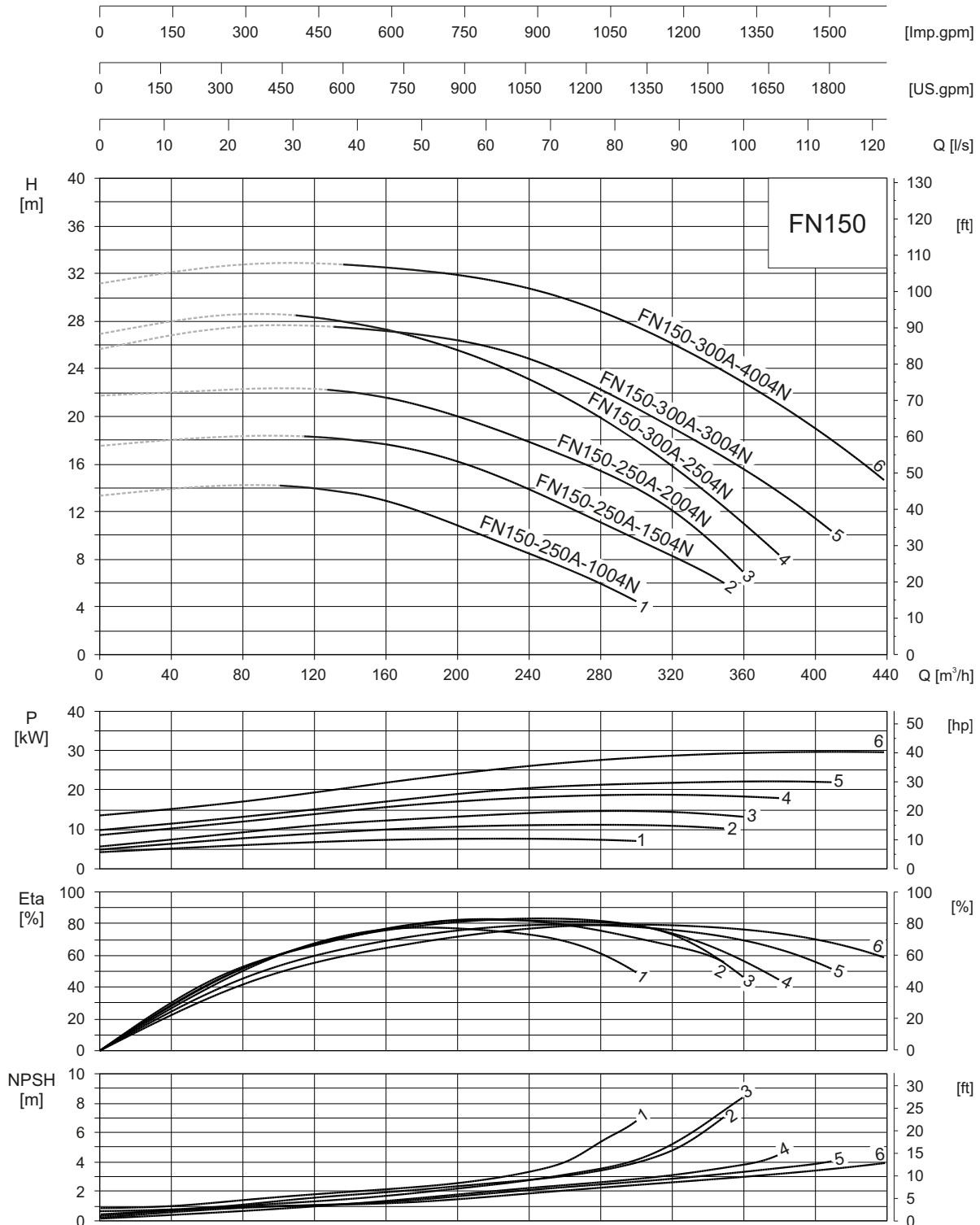
DN 125



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

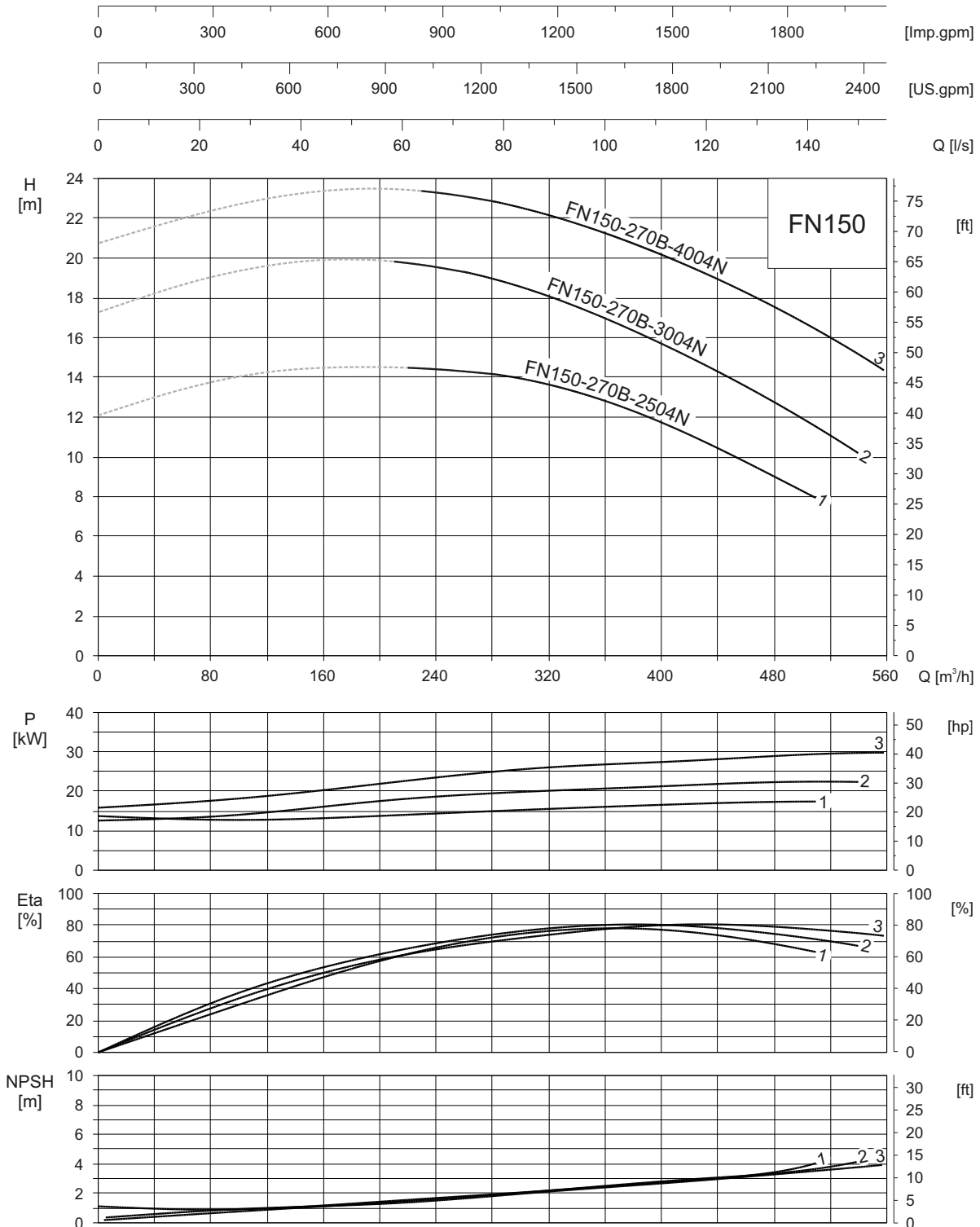
DN 150



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

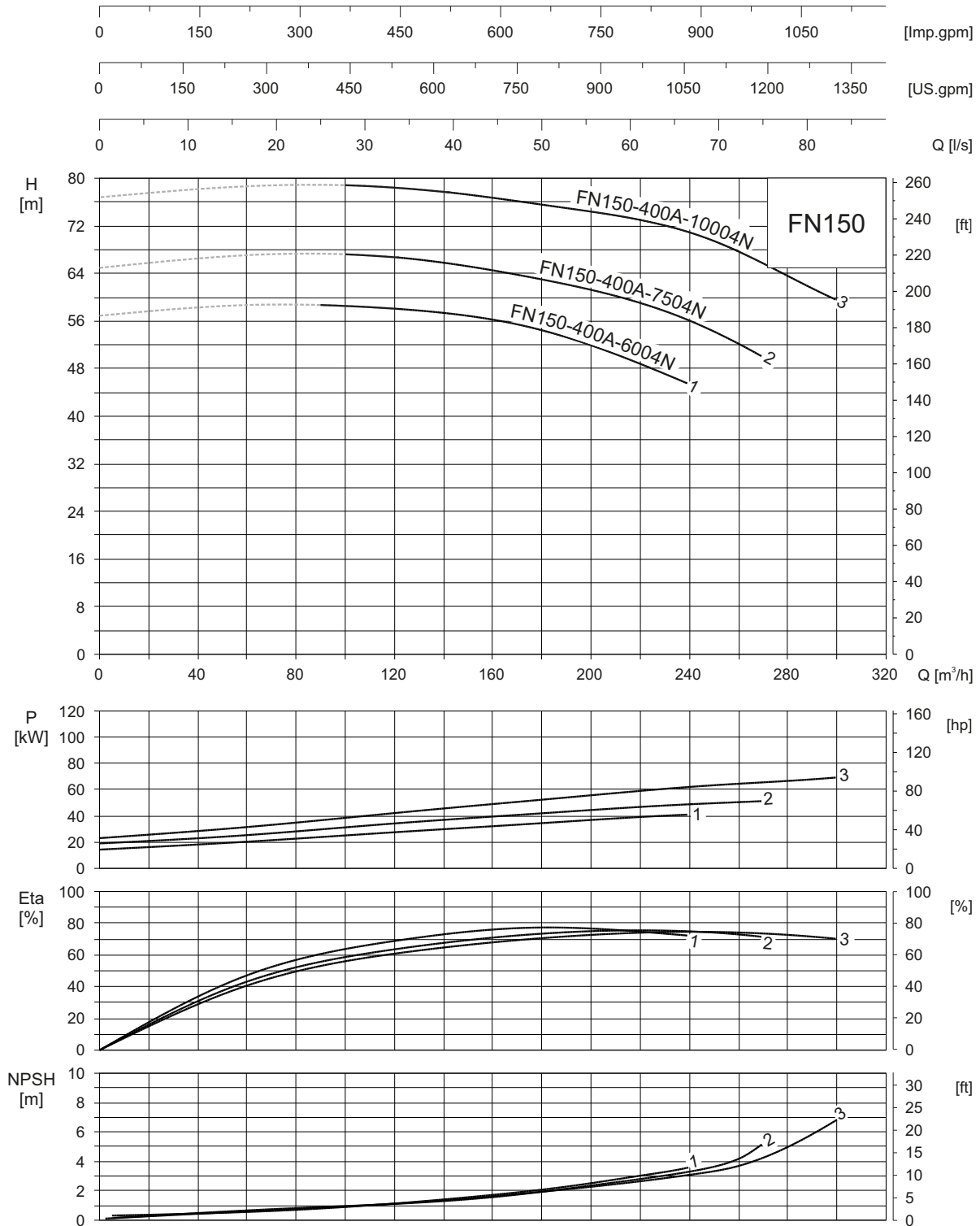
DN 150



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

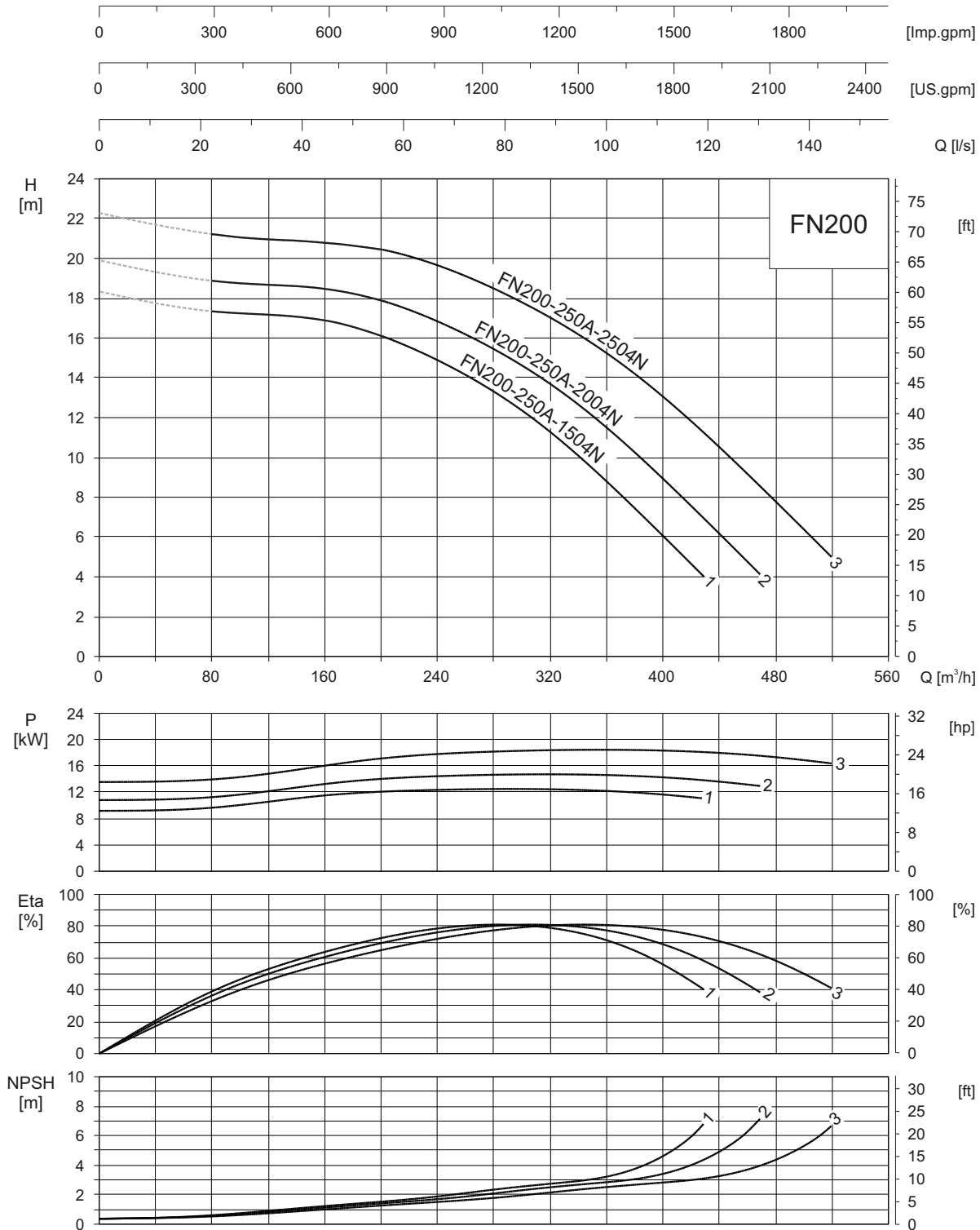
DN 150



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

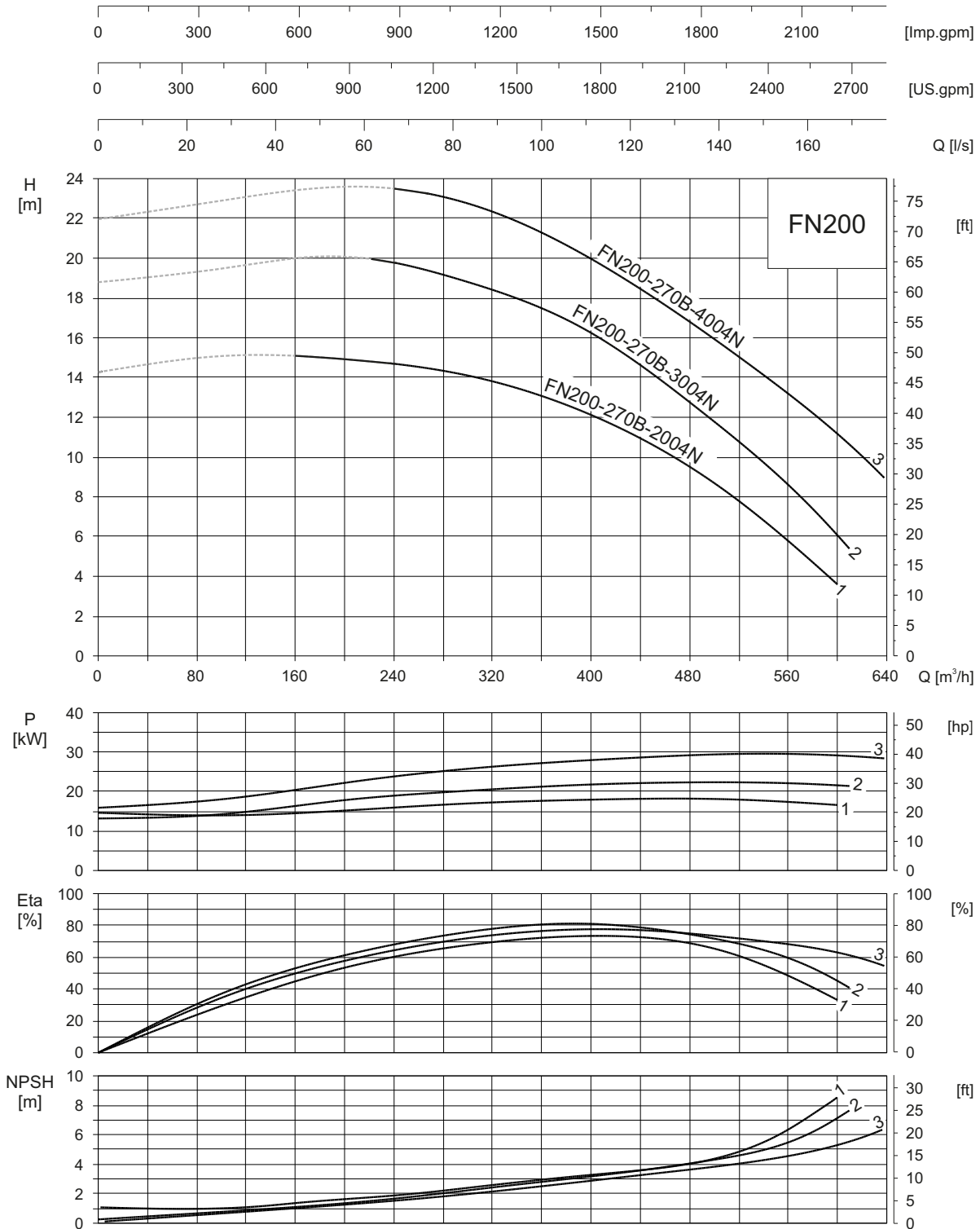
DN 200



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

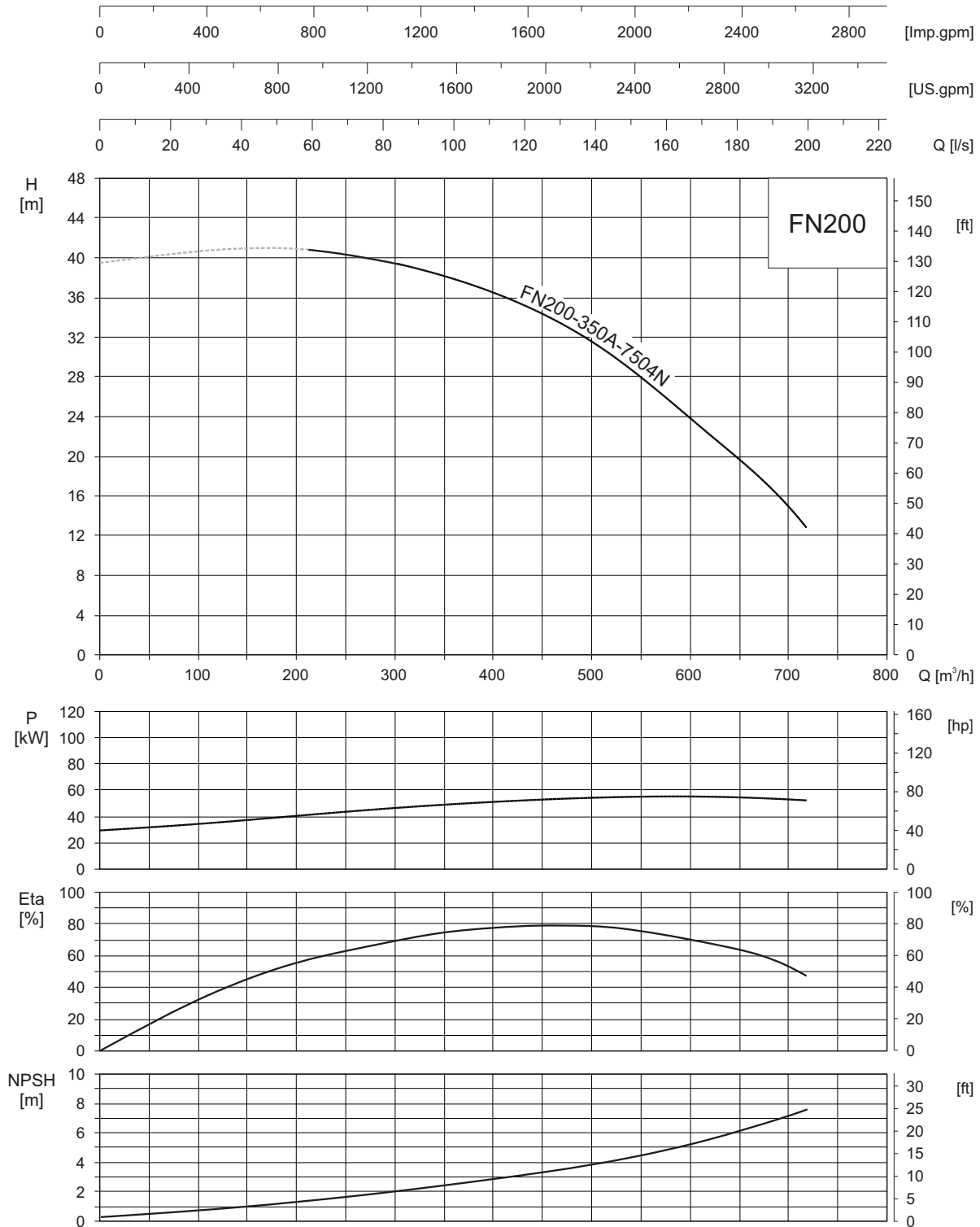
DN 200



CHARACTERISTIC CURVES 1,800 rpm

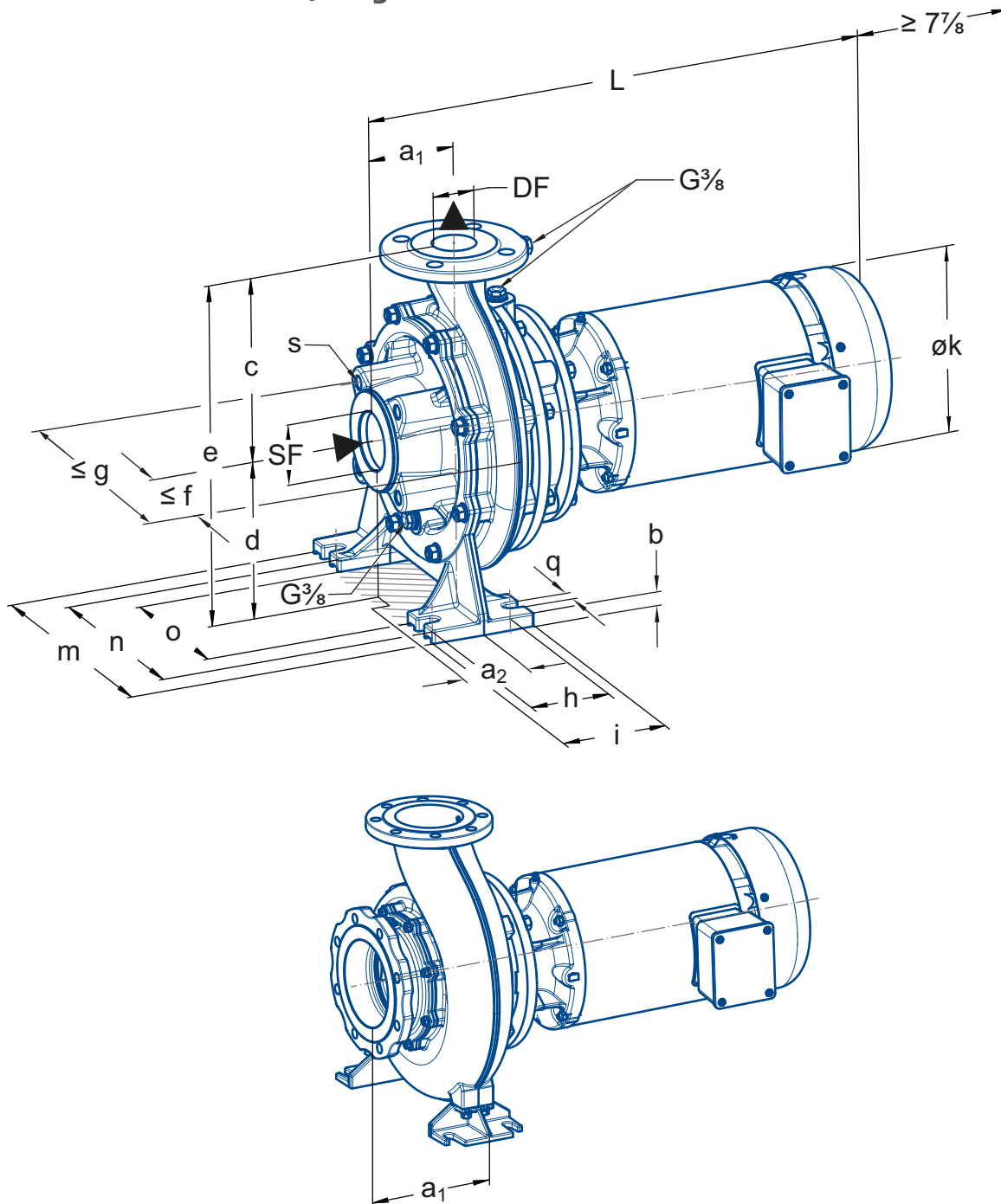
1,800 rpm (460 V - 60 Hz)

DN 200



DIMENSIONS • WEIGHTS

Version with blind hole thread/flange



Flange connection dimensions according to ANSI B16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

DIMENSIONS • WEIGHTS

1,800 rpm

	P ₂	DF	SF	L	a ₁	a ₂	b	c	d	e	≤f	≤g	h	i	Øk	m	n	o	q	s	m ¹⁾
	hp	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		lb
FN032-200A-0104N	1	1.25 (32)	2 (50)	18.34 (466)	3.19 (81)	1.54 (39)	0.51 (13)	7.09 (180)	6.3 (160)	13.39 (340)	5.75 (146)	10.87 (276)	2.76 (70)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	4x5/8"	110
FN032-200A-0154N	1,5	1.25 (32)	2 (50)	19.37 (492)	3.19 (81)	1.54 (39)	0.51 (13)	7.09 (180)	6.3 (160)	13.39 (340)	5.75 (146)	10.87 (276)	2.76 (70)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	4x5/8"	115
FN032-200A-0204N	2	1.25 (32)	2 (50)	18.3 (465)	3.19 (81)	1.54 (39)	0.51 (13)	7.09 (180)	6.3 (160)	13.39 (340)	5.75 (146)	10.87 (276)	2.76 (70)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	4x5/8"	113
FN032-200A-0304N	3	1.25 (32)	2 (50)	21.77 (553)	3.19 (81)	1.54 (39)	0.51 (13)	7.09 (180)	6.3 (160)	13.39 (340)	6.85 (174)	11.97 (304)	2.76 (70)	3.94 (100)	8.58 (218)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	4x5/8"	242
FN032-250A-0304N	3	1.25 (32)	2 (50)	22.57 (574)	3.96 (101)	1.81 (46)	0.59 (15)	8.86 (225)	7.09 (180)	15.94 (405)	6.85 (174)	12.95 (329)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	288
FN032-250A-0504N	5	1.25 (32)	2 (50)	24.03 (611)	3.96 (101)	1.81 (46)	0.59 (15)	8.86 (225)	7.09 (180)	15.94 (405)	6.85 (174)	12.93 (329)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	214
FN040-160A-0104N	1	1.5 (40)	2.5 (65)	18.33 (466)	2.87 (73)	1.02 (26)	0.47 (12)	6.3 (160)	5.2 (132)	11.5 (292)	5.75 (146)	10.06 (256)	2.76 (70)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	4x5/8"	97
FN040-160A-0154N	1,5	1.5 (40)	2.5 (65)	19.35 (492)	2.87 (73)	1.02 (26)	0.47 (12)	6.3 (160)	5.2 (132)	11.5 (292)	5.75 (146)	10.06 (256)	2.76 (70)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	4x5/8"	102
FN040-220A-0204N	2	1.5 (40)	2.5 (65)	19.4 (493)	3.98 (101)	2.17 (55)	0.51 (13)	7.87 (200)	6.3 (160)	14.17 (360)	6.22 (158)	11.73 (298)	2.76 (70)	3.94 (100)	7.2 (183)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	143
FN040-220A-0304N	3	1.5 (40)	2.5 (65)	22.87 (581)	3.98 (101)	2.17 (55)	0.51 (13)	7.87 (200)	6.3 (160)	14.17 (360)	6.85 (174)	12.36 (314)	2.76 (70)	3.94 (100)	8.58 (218)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	272
FN040-270A-0504N	5	1.5 (40)	2.5 (65)	24.5 (623)	3.98 (101)	2.05 (52)	0.51 (13)	9.19 (234)	7.09 (180)	16.28 (414)	6.97 (177)	13.46 (342)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	207
FN040-270A-0754N	7,5	1.5 (40)	2.5 (65)	25.05 (637)	3.98 (101)	2.05 (52)	0.51 (13)	9.19 (234)	7.09 (180)	16.28 (414)	8.03 (204)	14.53 (369)	3.74 (95)	4.92 (125)	10.28 (261)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	236
FN040-270A-1004N	10	1.5 (40)	2.5 (65)	26.7 (679)	3.98 (101)	2.05 (52)	0.51 (13)	9.19 (234)	7.09 (180)	16.28 (414)	8.03 (204)	14.53 (369)	3.74 (95)	4.92 (125)	10.28 (261)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	262
FN050-140A-0104N	1	2 (50)	2.5 (65)	20.47 (520)	5.04 (128)	3.15 (80)	0.71 (18)	6.3 (160)	5.2 (132)	11.5 (292)	5.75 (146)	10.2 (259)	2.56 (65)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	-	106
FN050-140A-0154N	1,5	2 (50)	2.5 (65)	21.49 (546)	5.04 (128)	3.15 (80)	0.71 (18)	6.3 (160)	5.2 (132)	11.5 (292)	5.75 (146)	10.2 (259)	2.56 (65)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	-	111
FN050-140A-0204N	2	2 (50)	2.5 (65)	20.55 (522)	5.04 (128)	3.15 (80)	0.71 (18)	6.3 (160)	5.2 (132)	11.5 (292)	5.75 (146)	10.2 (259)	2.56 (65)	3.94 (100)	7.2 (183)	9.45 (240)	7.48 (190)	5.51 (140)	0.59 (15)	-	111
FN050-160A-0104N	1	2 (50)	2.5 (65)	19.35 (492)	3.96 (101)	2.13 (54)	0.67 (17)	7.09 (180)	6.3 (160)	13.39 (340)	5.75 (146)	10.31 (262)	2.76 (70)	3.94 (100)	7.2 (183)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	111
FN050-160A-0154N	1,5	2 (50)	2.5 (65)	20.37 (518)	3.96 (101)	2.13 (54)	0.67 (17)	7.09 (180)	6.3 (160)	13.39 (340)	5.75 (146)	10.31 (262)	2.76 (70)	3.94 (100)	7.2 (183)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	116
FN050-160A-0204N	2	2 (50)	2.5 (65)	19.5 (496)	3.96 (101)	2.13 (54)	0.67 (17)	7.09 (180)	6.3 (160)	13.39 (340)	5.75 (146)	10.31 (262)	2.76 (70)	3.94 (100)	7.2 (183)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	113
FN050-190A-0304N	3	2 (50)	2.5 (65)	22.73 (578)	3.86 (98)	2.13 (54)	0.63 (16)	7.87 (200)	6.3 (160)	14.17 (360)	6.85 (174)	11.89 (302)	2.76 (70)	3.94 (100)	8.58 (218)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	250

1) Total weight of the pump
Flange connection according to ANSI B16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

DIMENSIONS • WEIGHTS

1,800 rpm

	P ₂	DF	SF	L	a ₁	a ₂	b	c	d	e	≤ f	≤ g	h	i	Ø k	m	n	o	q	s	m ¹⁾
	hp	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		lb
FN050-190A-0504N	5	2 (50)	2.5 (65)	23.68 (602)	3.86 (98)	2.13 (54)	0.63 (16)	7.87 (200)	6.3 (160)	14.17 (360)	6.85 (174)	11.89 (302)	2.76 (70)	3.94 (100)	8.58 (218)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	179
FN050-240A-0304N	3	2 (50)	2.5 (65)	22.78 (579)	4.15 (106)	2.44 (62)	0.67 (17)	8.66 (220)	7.09 (180)	15.75 (400)	6.85 (174)	12.76 (324)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	274
FN050-240A-0504N	5	2 (50)	2.5 (65)	24.09 (612)	4.15 (106)	2.44 (62)	0.67 (17)	8.66 (220)	7.09 (180)	15.75 (400)	6.85 (174)	12.76 (324)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	203
FN050-240B-0504N	5	2 (50)	2.5 (65)	24.09 (612)	4.15 (106)	2.44 (62)	0.67 (17)	8.66 (220)	7.09 (180)	15.75 (400)	6.85 (174)	12.76 (324)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	203
FN065-200A-0204N	2	2.5 (65)	3 (80)	20.05 (510)	3.96 (101)	1.34 (34)	0.67 (17)	8.86 (225)	7.09 (180)	15.94 (405)	5.94 (151)	11.18 (284)	3.74 (95)	4.92 (125)	7.2 (183)	12.6 (320)	9.84 (250)	6.69 (170)	0.59 (15)	8x5/8"	141
FN065-200A-0304N	3	2.5 (65)	3 (80)	23.52 (598)	3.96 (101)	1.34 (34)	0.67 (17)	8.86 (225)	7.09 (180)	15.94 (405)	6.85 (174)	12.09 (307)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	6.69 (170)	0.59 (15)	8x5/8"	270
FN065-200A-0504N	5	2.5 (65)	3 (80)	24.54 (624)	3.96 (101)	1.34 (34)	0.67 (17)	8.86 (225)	7.09 (180)	15.94 (405)	6.85 (174)	12.09 (307)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	6.69 (170)	0.59 (15)	8x5/8"	198
FN065-220A-0504N	5	2.5 (65)	3 (80)	23.76 (604)	3.96 (101)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	6.85 (174)	12.72 (323)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	203
FN065-220A-0754N	7,5	2.5 (65)	3 (80)	24.86 (632)	3.96 (101)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	8.03 (204)	13.9 (353)	3.74 (95)	4.92 (125)	10.28 (261)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	233
FN065-240A-0504N	5	2.5 (65)	3 (80)	23.44 (596)	3.8 (97)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	7.2 (183)	13.39 (340)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	205
FN065-240A-0754N	7,5	2.5 (65)	3 (80)	24.96 (634)	3.8 (97)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	8.03 (204)	14.21 (361)	3.74 (95)	4.92 (125)	10.28 (261)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	239
FN065-270A-0754N	7,5	2.5 (65)	3 (80)	25.03 (636)	3.96 (101)	2.05 (52)	0.67 (17)	9.45 (240)	7.87 (200)	17.32 (440)	8.03 (204)	14.53 (369)	4.72 (120)	6.3 (160)	10.28 (261)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	8x5/8"	270
FN065-270A-1004N	10	2.5 (65)	3 (80)	26.68 (678)	3.96 (101)	2.05 (52)	0.67 (17)	9.45 (240)	7.87 (200)	17.32 (440)	8.03 (204)	14.53 (369)	4.72 (120)	6.3 (160)	10.28 (261)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	8x5/8"	296
FN065-270C-1004N	10	2.5 (65)	3 (80)	26.96 (685)	4.09 (104)	2.05 (52)	0.67 (17)	9.84 (250)	7.87 (200)	17.72 (450)	8.03 (204)	14.84 (377)	4.72 (120)	6.3 (160)	10.28 (261)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	8x5/8"	299
FN065-300B-1504N	15	2.5 (65)	3 (80)	31.68 (805)	4.96 (126)	2.44 (62)	0.59 (15)	10.83 (275)	8.86 (225)	19.69 (500)	10.04 (255)	17.56 (446)	4.72 (120)	6.3 (160)	12.95 (329)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	453
FN065-300B-2004N	20	2.5 (65)	3 (80)	35.74 (908)	4.96 (126)	2.44 (62)	0.59 (15)	10.83 (275)	8.86 (225)	19.69 (500)	13.11 (333)	20.77 (528)	4.72 (120)	6.3 (160)	15.31 (389)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	538
FN080-170A-0204N	2	3 (80)	4 (100)	21.06 (535)	5.59 (142)	3.15 (80)	0.75 (19)	8.86 (225)	7.09 (180)	15.94 (405)	6.54 (166)	11.89 (302)	4.72 (120)	6.3 (160)	7.2 (183)	12.6 (320)	9.84 (250)	7.48 (190)	0.75 (19)	-	140
FN080-170A-0304N	3	3 (80)	4 (100)	24.52 (623)	5.59 (142)	3.15 (80)	0.75 (19)	8.86 (225)	7.09 (180)	15.94 (405)	6.85 (174)	12.2 (310)	4.72 (120)	6.3 (160)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.75 (19)	-	269
FN080-170A-0504N	5	3 (80)	4 (100)	26.61 (676)	5.59 (142)	3.15 (80)	0.75 (19)	8.86 (225)	7.09 (180)	15.94 (405)	6.85 (174)	12.2 (310)	4.72 (120)	6.3 (160)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.75 (19)	-	204
FN080-210A-0504N	5	3 (80)	4 (100)	24.96 (634)	4.94 (126)	2.8 (71)	0.75 (19)	9.84 (250)	7.48 (190)	17.32 (440)	7.4 (188)	13.7 (348)	3.74 (95)	4.92 (125)	8.58 (218)	13.58 (345)	11.02 (280)	8.46 (215)	0.59 (15)	8x5/8"	202

1) Total weight of the pump

Flange connection according to ANSI B16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

DIMENSIONS • WEIGHTS

1,800 rpm

	P ₂	DF	SF	L	a ₁	a ₂	b	c	d	e	≤ f	≤ g	h	i	Ø k	m	n	o	q	s	m ¹⁾
	hp	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		lb
FN080-210A-0754N	7,5	3 (80)	4 (100)	26.06 (662)	4.94 (126)	2.8 (71)	0.75 (19)	9.84 (250)	7.48 (190)	17.32 (440)	8.03 (204)	14.33 (364)	3.74 (95)	4.92 (125)	10.28 (261)	13.58 (345)	11.02 (280)	8.46 (215)	0.59 (15)	8x5/8"	231
FN080-210A-1004N	10	3 (80)	4 (100)	27.71 (704)	4.94 (126)	2.8 (71)	0.75 (19)	9.84 (250)	7.48 (190)	17.32 (440)	8.03 (204)	14.33 (364)	3.74 (95)	4.92 (125)	10.28 (261)	13.58 (345)	11.02 (280)	8.46 (215)	0.59 (15)	8x5/8"	261
FN080-210A-1504N	15	3 (80)	4 (100)	31.09 (790)	4.94 (126)	2.8 (71)	0.75 (19)	9.84 (250)	7.48 (190)	17.32 (440)	10.04 (255)	16.52 (420)	3.74 (95)	4.92 (125)	12.95 (329)	13.58 (345)	11.02 (280)	8.46 (215)	0.59 (15)	8x5/8"	381
FN080-255A-0504N	5	3 (80)	4 (100)	24.84 (631)	4.94 (126)	2.68 (68)	0.67 (17)	11.02 (280)	7.87 (200)	18.9 (480)	7.48 (190)	14.02 (356)	4.72 (120)	6.3 (160)	8.58 (218)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	257
FN080-255A-0754N	7,5	3 (80)	4 (100)	25.94 (659)	4.94 (126)	2.68 (68)	0.67 (17)	11.02 (280)	7.87 (200)	18.9 (480)	8.03 (204)	14.57 (370)	4.72 (120)	6.3 (160)	10.28 (261)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	286
FN080-255A-1004N	10	3 (80)	4 (100)	27.6 (701)	4.94 (126)	2.68 (68)	0.67 (17)	11.02 (280)	7.87 (200)	18.9 (480)	8.03 (204)	14.57 (370)	4.72 (120)	6.3 (160)	10.28 (261)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	314
FN080-330A-2004N	20	3 (80)	4 (100)	36.1 (917)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	21.5 (546)	4.72 (120)	6.3 (160)	15.31 (389)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	601
FN080-330A-2504N	25	3 (80)	4 (100)	36.06 (916)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	21.5 (546)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	689
FN080-330A-3004N	30	3 (80)	4 (100)	38.22 (971)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	21.5 (546)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	676
FN100-180A-0504N	5	4 (100)	5 (125)	26.76 (680)	5.94 (151)	3.15 (80)	0.75 (19)	11.02 (280)	7.87 (200)	18.9 (480)	7.2 (183)	12.76 (324)	4.72 (120)	6.3 (160)	8.58 (218)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	242
FN100-180A-0754N	7,5	4 (100)	5 (125)	27.87 (708)	5.94 (151)	3.15 (80)	0.75 (19)	11.02 (280)	7.87 (200)	18.9 (480)	8.03 (204)	13.58 (345)	4.72 (120)	6.3 (160)	10.28 (261)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	272
FN100-210A-1004N	10	4 (100)	5 (125)	28.85 (733)	5.96 (152)	3.66 (93)	0.79 (20)	11.02 (280)	7.87 (200)	18.9 (480)	8.03 (204)	14.41 (366)	4.72 (120)	6.3 (160)	10.28 (261)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	272
FN100-210A-1504N	15	4 (100)	5 (125)	32.24 (819)	5.96 (152)	3.66 (93)	0.79 (20)	11.02 (280)	7.87 (200)	18.9 (480)	10.04 (255)	16.52 (420)	4.72 (120)	6.3 (160)	12.95 (329)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	392
FN100-240A-1004N	10	4 (100)	5 (125)	28.26 (718)	5.55 (141)	3.35 (85)	0.59 (15)	11.02 (280)	8.86 (225)	19.88 (505)	8.03 (204)	14.57 (370)	4.72 (120)	6.3 (160)	10.28 (261)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	308
FN100-240A-1504N	15	4 (100)	5 (125)	31.65 (804)	5.55 (141)	3.35 (85)	0.59 (15)	11.02 (280)	8.86 (225)	19.88 (505)	10.04 (255)	16.57 (421)	4.72 (120)	6.3 (160)	12.95 (329)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	427
FN100-270A-1004N	10	4 (100)	5 (125)	28.15 (715)	5.53 (141)	3.39 (86)	0.59 (15)	10.63 (270)	8.86 (225)	19.49 (495)	8.03 (204)	14.76 (375)	4.72 (120)	6.3 (160)	10.28 (261)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	328
FN100-270A-1504N	15	4 (100)	5 (125)	31.54 (801)	5.53 (141)	3.39 (86)	0.59 (15)	10.63 (270)	8.86 (225)	19.49 (495)	10.04 (255)	16.77 (426)	4.72 (120)	6.3 (160)	12.95 (329)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	448
FN100-330A-3004N	30	4 (100)	5 (125)	37.8 (960)	5.53 (141)	2.95 (75)	0.67 (17)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	21.34 (542)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	669
FN100-330A-4004N	40	4 (100)	5 (125)	37.8 (960)	5.53 (141)	2.95 (75)	0.67 (17)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	21.34 (542)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	750
FN100-330C-2004N	20	4 (100)	5 (125)	36.22 (920)	5.51 (140)	3.19 (81)	0.75 (19)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	20.98 (533)	4.72 (120)	6.3 (160)	15.31 (389)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	602
FN100-330C-2504N	25	4 (100)	5 (125)	36.18 (919)	5.51 (140)	3.19 (81)	0.75 (19)	12.4 (315)	9.84 (250)	22.24 (565)	13.11 (333)	20.98 (533)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	689

1) Total weight of the pump
Flange connection according to ANSI B16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

DIMENSIONS • WEIGHTS

1,800 rpm

	P ₂	DF	SF	L	a ₁	a ₂	b	c	d	e	≤f	≤g	h	i	Øk	m	n	o	q	s	m ¹⁾
	hp	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		lb
FN125-250A-0504N	5	5 (125)	6 (150)	25.53 (649)	5.57 (142)	-	0.55 (14)	13.98 (355)	12.4 (315)	26.38 (670)	10.2 (259)	17.64 (448)	4.72 (120)	6.3 (160)	8.58 (218)	15.75 (400)	12.4 (315)	9.45 (240)	0.71 (18)	-	294
FN125-250A-0754N	7,5	5 (125)	6 (150)	26.63 (677)	5.57 (142)	-	0.55 (14)	13.98 (355)	12.4 (315)	26.38 (670)	10.2 (259)	17.64 (448)	4.72 (120)	6.3 (160)	10.28 (261)	15.75 (400)	12.4 (315)	9.45 (240)	0.71 (18)	-	324
FN125-250A-1004N	10	5 (125)	6 (150)	28.29 (719)	5.57 (142)	-	0.55 (14)	13.98 (355)	12.4 (315)	26.38 (670)	10.2 (259)	17.64 (448)	4.72 (120)	6.3 (160)	10.28 (261)	15.75 (400)	12.4 (315)	9.45 (240)	0.71 (18)	-	349
FN125-250A-1504N	15	5 (125)	6 (150)	31.67 (805)	5.57 (142)	-	0.55 (14)	13.98 (355)	12.4 (315)	26.38 (670)	10.2 (259)	17.64 (448)	4.72 (120)	6.3 (160)	12.95 (329)	15.75 (400)	12.4 (315)	9.45 (240)	0.71 (18)	-	468
FN125-270A-1504N	15	5 (125)	6 (150)	31.9 (811)	5.53 (141)	3.03 (77)	0.59 (15)	13.98 (355)	9.84 (250)	23.82 (605)	10.04 (255)	17.13 (435)	4.72 (120)	6.3 (160)	12.95 (329)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	471
FN125-270A-2004N	20	5 (125)	6 (150)	36.26 (921)	5.53 (141)	3.03 (77)	0.59 (15)	13.98 (355)	9.84 (250)	23.82 (605)	13.11 (333)	20.77 (528)	4.72 (120)	6.3 (160)	15.31 (389)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	555
FN125-270A-2504N	25	5 (125)	6 (150)	36.22 (920)	5.53 (141)	3.03 (77)	0.59 (15)	13.98 (355)	9.84 (250)	23.82 (605)	13.11 (333)	20.49 (521)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	642
FN125-270B-2004N	20	5 (125)	6 (150)	36.57 (929)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	13.11 (333)	21.38 (543)	4.72 (120)	6.3 (160)	15.31 (389)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	566
FN125-270B-2504N	25	5 (125)	6 (150)	36.54 (928)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	13.11 (333)	21.38 (543)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	653
FN125-270B-3004N	30	5 (125)	6 (150)	36.97 (939)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	13.11 (333)	21.38 (543)	4.72 (120)	6.3 (160)	14.76 (375)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	630
FN150-250A-1004N	10	6 (150)	8 (200)	29.19 (742)	6.34 (161)	-	0.55 (14)	14.76 (375)	11.02 (280)	25.79 (655)	10.91 (277)	18.86 (479)	5.91 (150)	7.87 (200)	10.28 (261)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	382
FN150-250A-1504N	15	6 (150)	8 (200)	32.58 (828)	6.34 (161)	-	0.55 (14)	14.76 (375)	11.02 (280)	25.79 (655)	10.91 (277)	18.86 (479)	5.91 (150)	7.87 (200)	12.95 (329)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	501
FN150-250A-2004N	20	6 (150)	8 (200)	37.17 (945)	6.34 (161)	-	0.55 (14)	14.76 (375)	11.02 (280)	25.79 (655)	13.11 (333)	21.06 (535)	5.91 (150)	7.87 (200)	15.31 (389)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	588
FN150-270B-2504N	25	6 (150)	8 (200)	37.36 (949)	6.34 (161)	-	0.55 (14)	14.76 (375)	12.4 (315)	27.17 (690)	13.11 (333)	22.87 (581)	5.91 (150)	7.87 (200)	14.76 (375)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	664
FN150-270B-3004N	30	6 (150)	8 (200)	37.8 (960)	6.34 (161)	-	0.55 (14)	14.76 (375)	12.4 (315)	27.17 (690)	13.11 (333)	22.87 (581)	5.91 (150)	7.87 (200)	14.76 (375)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	646
FN150-300A-2504N	25	6 (150)	8 (200)	36.96 (939)	6.34 (161)	-	0.55 (14)	12.99 (330)	11.02 (280)	24.02 (610)	13.11 (333)	21.46 (545)	5.91 (150)	7.87 (200)	14.76 (375)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	693
FN150-300A-3004N	30	6 (150)	8 (200)	34.78 (884)	6.34 (161)	-	0.55 (14)	12.99 (330)	11.02 (280)	24.02 (610)	13.11 (333)	21.46 (545)	5.91 (150)	7.87 (200)	14.76 (375)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	687
FN200-250A-1504N	15	8 (200)	10 (250)	33.15 (842)	6.34 (161)	-	0.55 (14)	13.78 (350)	11.02 (280)	24.8 (630)	10.59 (269)	18.86 (479)	5.91 (150)	7.87 (200)	12.95 (329)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	512
FN200-250A-2004N	20	8 (200)	10 (250)	37.74 (959)	6.34 (161)	-	0.55 (14)	13.78 (350)	11.02 (280)	24.8 (630)	13.11 (333)	21.38 (543)	5.91 (150)	7.87 (200)	15.31 (389)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	579
FN200-250A-2504N	25	8 (200)	10 (250)	37.7 (958)	6.34 (161)	-	0.55 (14)	13.78 (350)	11.02 (280)	24.8 (630)	13.11 (333)	21.38 (543)	5.91 (150)	7.87 (200)	14.76 (375)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	666
FN200-270B-2004N	20	8 (200)	10 (250)	38.91 (989)	6.75 (172)	3.66 (93)	0.79 (20)	14.57 (370)	11.02 (280)	25.59 (650)	13.11 (333)	21.81 (554)	5.91 (150)	7.87 (200)	15.31 (389)	19.69 (500)	15.75 (400)	11.81 (300)	0.91 (23)	-	617

1) Total weight of the pump

Flange connection according to ANSI B16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

DIMENSIONS • WEIGHTS

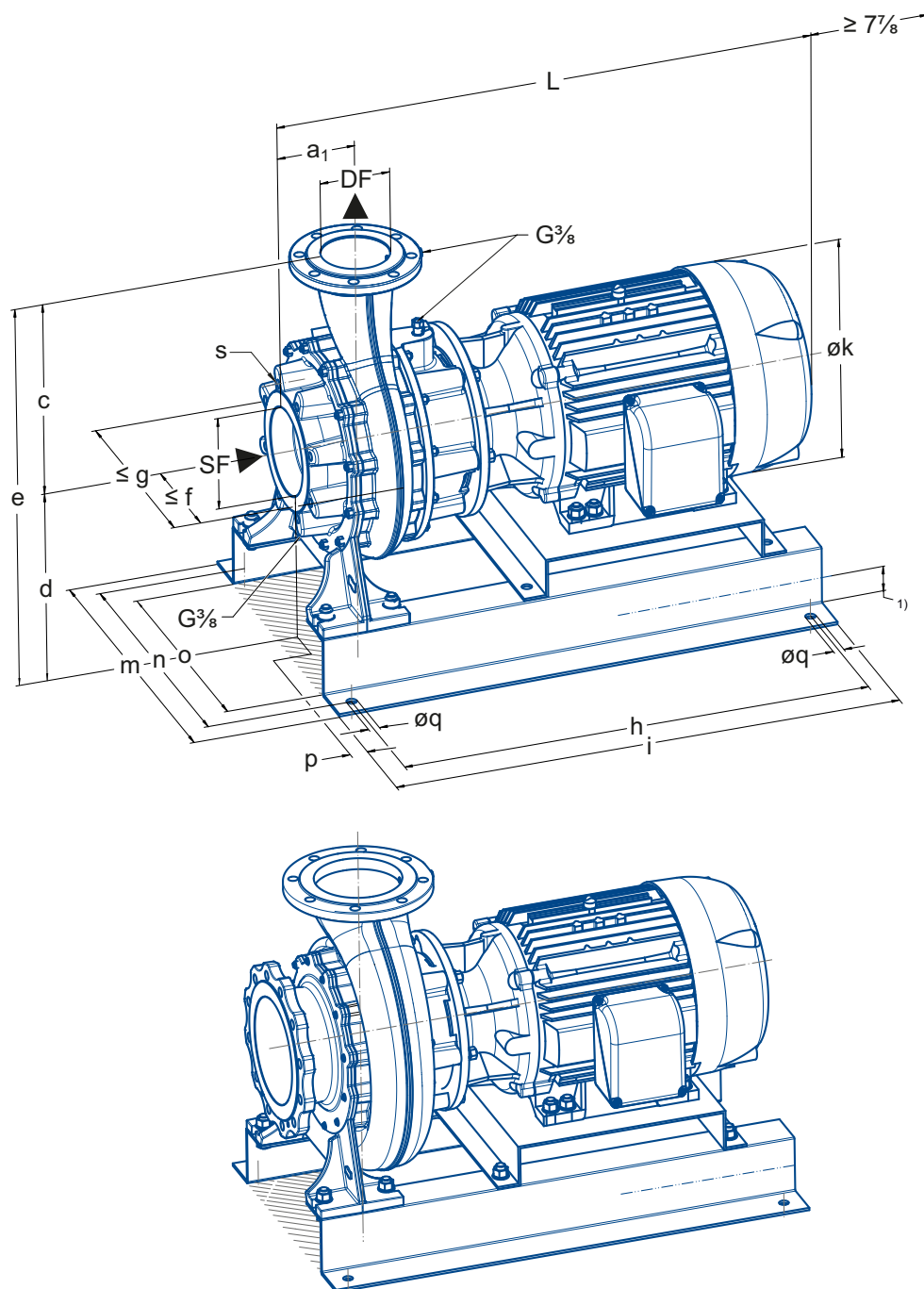
1,800 rpm

	P ₂	DF	SF	L	a ₁	a ₂	b	c	d	e	≤f	≤g	h	i	Ø k	m	n	o	q	s	m ¹⁾
	hp	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		lb
FN200-270B-3004N	30	8 (200)	10 (250)	39.67 (1008)	6.75 (172)	3.66 (93)	0.79 (20)	14.57 (370)	11.02 (280)	25.59 (650)	13.11 (333)	21.81 (554)	5.91 (150)	7.87 (200)	14.76 (375)	19.69 (500)	15.75 (400)	11.81 (300)	0.91 (23)	-	703

1) Total weight of the pump
Flange connection according to ANSI B16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

Version with blind hole thread/flange and base rail



1) Foundation the rail up to the middle of the rail.
Flange connection dimensions according to ANSI B 16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

DIMENSIONS • WEIGHTS

1,800 rpm

	P ₂	DF	SF	L	a ₁	c	d	e	≤ f	≤ g	h	i	Ø k	m	n	o	p	q	s	m ²⁾
	hp	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		lb
FN080-330A-4004N	40	3 (80)	4 (100)	38.22 (971)	4.92 (125)	12.4 (315)	15.35 (390)	27.76 (705)	13.11 (333)	21.5 (546)	41.34 (1050)	44.88 (1140)	14.76 (375)	29.13 (740)	25.51 (648)	21.42 (544)	-1.02 (-26)	0.91 (23)	8x5/8"	935
FN125-270B-4004N	40	5 (125)	6 (150)	36.97 (939)	5.55 (141)	13.98 (355)	15.35 (390)	29.33 (745)	13.11 (333)	21.38 (543)	41.34 (1050)	44.88 (1140)	14.76 (375)	29.13 (740)	25.51 (648)	21.42 (544)	-0.39 (-10)	0.91 (23)	8x3/4"	889
FN125-330A-4004N	40	5 (125)	6 (150)	37.8 (960)	12.32 (313)	13.19 (335)	16.54 (420)	29.72 (755)	13.11 (333)	21.54 (547)	41.34 (1050)	44.88 (1140)	14.76 (375)	29.13 (740)	25.51 (648)	21.42 (544)	-0.98 (-25)	0.91 (23)	8x3/4"	949
FN125-330A-5004N	50	5 (125)	6 (150)	39.61 (1007)	12.32 (313)	13.19 (335)	16.54 (420)	29.72 (755)	14.09 (358)	22.52 (572)	41.34 (1050)	44.88 (1140)	16.85 (428)	29.13 (740)	25.51 (648)	21.42 (544)	-0.98 (-25)	0.91 (23)	8x3/4"	898
FN150-270B-4004N	40	6 (150)	8 (200)	37.8 (960)	6.34 (161)	14.76 (375)	17.91 (455)	20.28 (515)	13.11 (333)	22.87 (581)	41.34 (1050)	44.88 (1140)	14.76 (375)	29.13 (740)	25.51 (648)	21.42 (544)	2.34 (60)	0.91 (23)	-	905
FN150-300A-4004N	40	6 (150)	8 (200)	34.78 (884)	6.34 (161)	12.99 (330)	16.54 (420)	18.5 (470)	13.11 (333)	21.46 (545)	41.34 (1050)	44.88 (1140)	14.76 (375)	29.13 (740)	25.51 (648)	21.42 (544)	2.34 (60)	0.91 (23)	-	946
FN150-400A-6004N	60	6 (150)	8 (200)	46.04 (1170)	6.32 (161)	17.72 (450)	17.91 (455)	35.63 (905)	18.11 (460)	27.97 (711)	41.34 (1050)	44.88 (1140)	19.72 (501)	29.13 (740)	25.51 (648)	21.42 (544)	-0.83 (-21)	0.91 (23)	8x3/4"	1616
FN150-400A-7504N	75	6 (150)	8 (200)	46.04 (1170)	6.32 (161)	17.72 (450)	17.91 (455)	35.63 (905)	18.11 (460)	27.97 (711)	41.34 (1050)	44.88 (1140)	19.72 (501)	29.13 (740)	25.51 (648)	21.42 (544)	-0.83 (-21)	0.91 (23)	8x3/4"	1671
FN150-400A-10004N	100	6 (150)	8 (200)	49.27 (1252)	6.32 (161)	17.72 (450)	17.91 (455)	35.63 (905)	19.13 (486)	30.47 (774)	41.34 (1050)	44.88 (1140)	22.68 (576)	29.13 (740)	25.51 (648)	21.42 (544)	-0.83 (-21)	0.91 (23)	8x3/4"	2161
FN200-270B-4004N	40	8 (200)	10 (250)	39.67 (1008)	6.75 (172)	14.57 (370)	16.54 (420)	31.1 (790)	13.11 (333)	21.81 (554)	41.34 (1050)	44.88 (1140)	14.76 (375)	29.13 (740)	25.51 (648)	21.42 (544)	-0.28 (-7)	0.91 (23)	-	962
FN200-350A-7504N	75	8 (200)	10 (250)	46.63 (1185)	8.27 (210)	15.75 (400)	17.91 (455)	33.66 (855)	18.11 (460)	28.46 (723)	41.34 (1050)	44.88 (1140)	19.72 (501)	29.13 (740)	25.51 (648)	21.42 (544)	0.83 (21)	0.91 (23)	-	1626

- 1) Foundation the rail up to the middle of the rail.
 - 2) Total weight of the pump
- Flange connection according to ANSI B 16.5 Class 150

For a clear identification of the cover version (flange or blind hole thread), observe the specification of the studs.

TECHNICAL DATA

IE3 - 60 Hz: 1,800 rpm

Motor power (hp)	Voltage (V)	Frequency (Hz)	Maximum current consumption (A) at (208-)230 V	Maximum current consumption (A) at 460 V	Maximum power consumption (hp)
1	230/460	60	3	1.5	1 1/8
1.5	230/460	60	4.4	2.2	1 3/4
2	230/460	60	5.8	2.9	2 1/3
3	230/460	60	8.4	4.2	3 3/8
5	230/460	60	5	2.5	2 1/4
5	230/460	60	5	2.5	2 1/4
7.5	208-230/460	60	20.8-21.4	10.7	8 1/4
10	208-230/460	60	25.4-24	12	10 1/2
15	208-230/460	60	38-36.8	18.4	16 3/4
20	230/460	60	48	24	21 1/2
25	230/460	60	60	30	27
30	208-230/460	60	78-76	38	32 1/2
40	230/460	60	96	48	42 5/8
50	208-230/460	60	126-122	61	52 3/4
60	230/460	60	136	68	63 1/4
75	230/460	60	171	85.9	79
100	230/460	60	224	112	104 1/8

TECHNICAL DATA

Noise emission

Motor power (hp)	Noise emission dB (A)
1	50
1.5	55
2	63
3	66
5	71
7.5	71
10	72
15	74

Motor power (hp)	Noise emission dB (A)
20	74
25	76
30	76
40	78
50	78
60	79
75	80
100	81

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

Pumpe performance

Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN032-200A-0104N-W2B	FN032-200A	1	1,800	50.1	28.8	0.71	5.63
FN032-200A-0154N-W2B	FN032-200A	1.5	1,800	65.5	38.1	0.75	6.38
FN032-200A-0204N-W2B	FN032-200A	2	1,800	76.9	48.5	0.68	7.09
FN032-200A-0304N-W2B	FN032-200A	3	1,800	95	59.9	0.71	7.87
FN032-250A-0304N-W2B	FN032-250A	3	1,800	82.7	76.9	0.75	8.46
FN032-250A-0504N-W2B	FN032-250A	5	1,800	98.4	88.7	0.69	9.25
FN040-160A-0104N-W2B	FN040-160A	1	1,800	51.5	30.1	0.58	5.39
FN040-160A-0154N-W2B	FN040-160A	1.5	1,800	96.9	34.2	0.71	5.98
FN040-220A-0204N-W2B	FN040-220A	2	1,800	95.7	42.9	0.71	6.69
FN040-220A-0304N-W2B	FN040-220A	3	1,800	105.2	51.6	0.77	7.28
FN040-270A-0504N-W2B	FN040-270A	5	1,800	167.7	63.9	0.79	8.58
FN040-270A-0754N-W2B	FN040-270A	7.5	1,800	233.4	73.2	0.89	9.41
FN040-270A-1004N-W2B	FN040-270A	10	1,800	233.1	93.7	0.85	10.2

TECHNICAL DATA

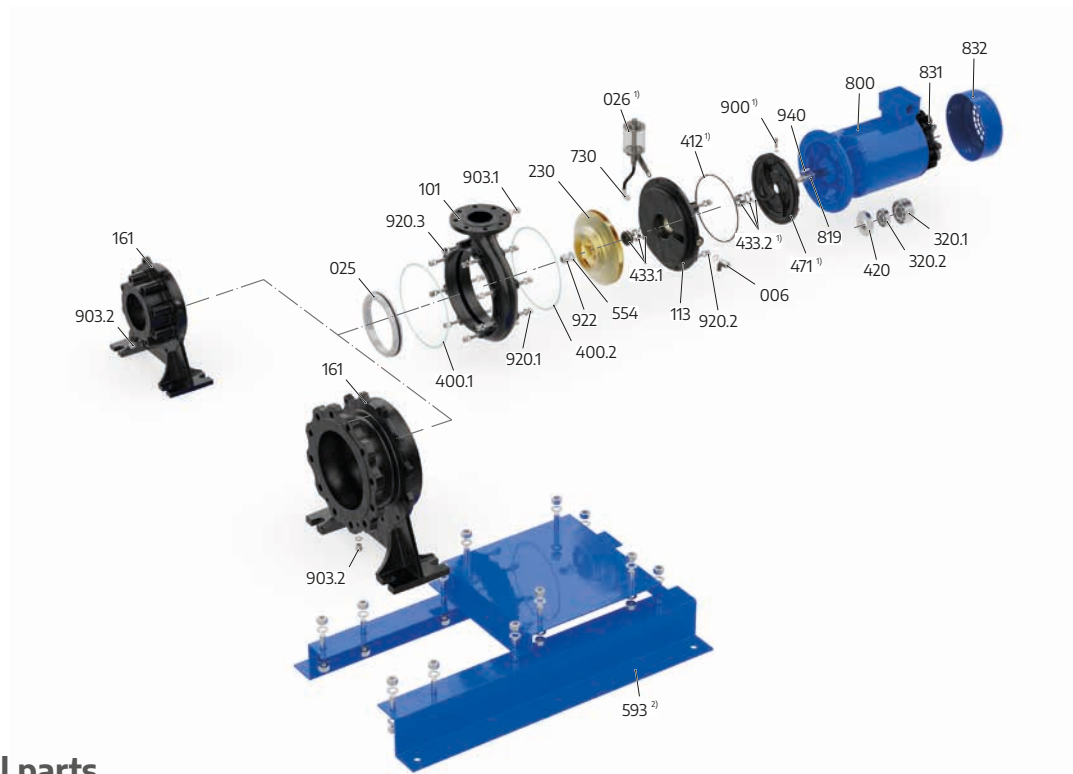
Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN050-140A-0104N-W2B	FN050-140A	1	1,800	117.8	19.5	0.61	4.72
FN050-140A-0154N-W2B	FN050-140A	1.5	1,800	137.7	24.9	0.75	5.16
FN050-140A-0204N-W2B	FN050-140A	2	1,800	160.3	29.9	0.75	5.51
FN050-160A-0104N-W2B	FN050-160A	1	1,800	88.9	24.4	0.69	5.12
FN050-160A-0154N-W2B	FN050-160A	1.5	1,800	112.7	31	0.72	5.75
FN050-160A-0204N-W2B	FN050-160A	2	1,800	111.7	39.6	0.66	6.22
FN050-190A-0304N-W2B	FN050-190A	3	1,800	149.7	49.2	0.77	6.61
FN050-190A-0504N-W2B	FN050-190A	5	1,800	175.8	57.7	0.77	7.17
FN050-240A-0304N-W2B	FN050-240A	3	1,800	103.6	48.8	0.91	7.2
FN050-240A-0504N-W2B	FN050-240A	5	1,800	147.6	72	0.79	8.46
FN050-240B-0504N-W2B	FN050-240B	5	1,800	127.7	62.3	0.78	7.87
FN065-200A-0204N-W2B	FN065-200A	2	1,800	124.5	30.9	0.83	5.75
FN065-200A-0304N-W2B	FN065-200A	3	1,800	156.5	40.5	0.8	6.42
FN065-200A-0504N-W2B	FN065-200A	5	1,800	158	52.3	0.74	7.01
FN065-220A-0504N-W2B	FN065-220A	5	1,800	234.9	50.1	0.76	7.28
FN065-220A-0754N-W2B	FN065-220A	7.5	1,800	287.5	62.2	0.82	8.07
FN065-240A-0504N-W2B	FN065-240A	5	1,800	196	58.6	0.78	7.76
FN065-240A-0754N-W2B	FN065-240A	7.5	1,800	238.5	71.4	0.81	8.54
FN065-270A-0754N-W2B	FN065-270A	7.5	1,800	193.7	76.4	0.81	8.74
FN065-270A-1004N-W2B	FN065-270A	10	1,800	207.9	90.7	0.81	9.37
FN065-270C-1004N-W2B	FN065-270C	10	1,800	305.8	77.9	0.84	9.06
FN065-300B-1504N-W2B	FN065-300B	15	1,800	342.5	96.9	0.88	9.84
FN065-300B-2004N-W2B	FN065-300B	20	1,800	415.2	123	0.85	11.02
FN080-170A-0204N-W2B	FN080-170A	2	1,800	300.5	17.4	0.86	5.12
FN080-170A-0304N-W2B	FN080-170A	3	1,800	347	23.3	0.88	5.67
FN080-170A-0504N-W2B	FN080-170A	5	1,800	450.1	30.2	0.9	6.46
FN080-210A-0504N-W2B	FN080-210A	5	1,800	352.7	36.1	0.82	6.3
FN080-210A-0754N-W2B	FN080-210A	7.5	1,800	431.5	47.4	0.86	7.13
FN080-210A-1004N-W2B	FN080-210A	10	1,800	487.7	57.2	0.84	7.13
FN080-210A-1504N-W2B	FN080-210A	15	1,800	583.5	68.4	0.86	8.27
FN080-255A-0504N-W2B	FN080-255A	5	1,800	279.4	48.3	0.79	7.68

TECHNICAL DATA

Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN080-255A-0754N-W2B	FN080-255A	7.5	1,800	304.7	61.1	0.87	8.58
FN080-255A-1004N-W2B	FN080-255A	10	1,800	386.4	70.5	0.85	9.25
FN080-330A-2004N-W2B	FN080-330A	20	1,800	576.8	71.7	0.95	9.45
FN080-330A-2504N-W2B	FN080-330A	25	1,800	655.6	100.4	0.9	10.91
FN080-330A-3004N-W2B	FN080-330A	30	1,800	767.2	111.3	0.89	12.44
FN080-330A-4004N-W2B	FN080-330A	40	1,800	833.2	137.7	0.98	12.99
FN100-180A-0504N-W2B	FN100-180A	5	1,800	535.9	27.6	0.83	5.98
FN100-180A-0754N-W2B	FN100-180A	7.5	1,800	650.6	35.5	0.84	6.54
FN100-210A-1004N-W2B	FN100-210A	10	1,800	693.4	39.8	0.92	7.17
FN100-210A-1504N-W2B	FN100-210A	15	1,800	796.5	54.7	0.91	7.99
FN100-240A-1004N-W2B	FN100-240A	10	1,800	391.9	62.6	0.88	8.39
FN100-240A-1504N-W2B	FN100-240A	15	1,800	498.9	76.1	0.88	9.29
FN100-270A-1004N-W2B	FN100-270A	10	1,800	418.1	56.5	0.91	7.72
FN100-270A-1504N-W2B	FN100-270A	15	1,800	494.8	69.9	0.95	8.62
FN100-330A-3004N-W2B	FN100-330A	30	1,800	567.4	132.3	0.85	11.38
FN100-330A-4004N-W2B	FN100-330A	40	1,800	607.3	160.9	0.87	12.4
FN100-330C-2004N-W2B	FN100-330C	20	1,800	385.2	95.7	0.91	10.24
FN100-330C-2504N-W2B	FN100-330C	25	1,800	429.8	114.9	0.86	11.18
FN125-250A-0504N-W2B	FN125-250A	5	1,800	571.2	27.8	0.84	6.34
FN125-250A-0754N-W2B	FN125-250A	7.5	1,800	694.7	34.1	0.88	7.17
FN125-250A-1004N-W2B	FN125-250A	10	1,800	724.7	43.1	0.86	7.72
FN125-250A-1504N-W2B	FN125-250A	15	1,800	880.1	52.3	0.89	8.5
FN125-270A-1504N-W2B	FN125-270A	15	1,800	664.1	62.7	0.91	8.5
FN125-270A-2004N-W2B	FN125-270A	20	1,800	690.8	74.6	0.94	9.37
FN125-270A-2504N-W2B	FN125-270A	25	1,800	712.1	84.1	0.91	9.57
FN125-270B-2004N-W2B	FN125-270B	20	1,800	1082.5	54.7	0.91	8.27
FN125-270B-2504N-W2B	FN125-270B	25	1,800	1059.2	68	0.88	8.82
FN125-270B-3004N-W2B	FN125-270B	30	1,800	1228.6	73.1	0.89	9.29
FN125-270B-4004N-W2B	FN125-270B	40	1,800	1322.8	85.3	0.91	9.88
FN125-330A-4004N-W2B	FN125-330A	40	1,800	785.2	108.5	1	10.12
FN125-330A-5004N-W2B	FN125-330A	50	1,800	916.9	125.1	1	10.63

TECHNICAL DATA

Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN150-250A-1004N-W2B	FN150-250A	10	1,800	802.7	38.9	0.92	7.32
FN150-250A-1504N-W2B	FN150-250A	15	1,800	949.6	50.5	0.89	8.35
FN150-250A-2004N-W2B	FN150-250A	20	1,800	952.8	62.9	0.9	8.98
FN150-270B-2504N-W2B	FN150-270B	25	1,800	1613.6	41.5	0.96	8.86
FN150-270B-3004N-W2B	FN150-270B	30	1,800	1679.6	53.5	0.92	8.7
FN150-270B-4004N-W2B	FN150-270B	40	1,800	1886	63.4	0.94	9.33
FN150-300A-2504N-W2B	FN150-300A	25	1,800	1085.2	74.3	0.91	9.84
FN150-300A-3004N-W2B	FN150-300A	30	1,800	1144.3	77.7	0.95	9.88
FN150-300A-4004N-W2B	FN150-300A	40	1,800	1299.8	91.4	0.96	10.59
FN150-400A-6004N-W2B	FN150-400A	60	1,800	803.6	177.7	0.9	13.19
FN150-400A-7504N-W2B	FN150-400A	75	1,800	966.3	193.9	0.94	14.09
FN150-400A-10004N-W2B	FN150-400A	100	1,800	1063.3	232	0.94	15.2
FN200-250A-1504N-W2B	FN200-250A	15	1,800	1245.7	43.2	0.9	8.46
FN200-250A-2004N-W2B	FN200-250A	20	1,800	1352.2	46.9	0.9	8.82
FN200-250A-2504N-W2B	FN200-250A	25	1,800	1513.7	52.5	0.92	9.37
FN200-270B-2004N-W2B	FN200-270B	20	1,800	1791.7	39.1	0.96	8.82
FN200-270B-3004N-W2B	FN200-270B	30	1,800	1701.2	54.8	0.92	8.78
FN200-270B-4004N-W2B	FN200-270B	40	1,800	1791.8	64.7	0.98	9.49
FN200-350A-7504N-W2B	FN200-350A	75	1,800	2062.6	109.6	0.99	12.13



Individual parts

006	Ball valve	471 ¹⁾	Seal cover
025	Impeller protector	554	Washer
026 ¹⁾	Seal-Guard-System	593 ²⁾	Rail
101	Pump casing	730	Pipe connection
113	Intermediate casing	800	Motor
161	Casing cover	819	Motor shaft
230	Impeller	831	Fan
320.1	Anti-friction bearing (non drive side)	832	Fan hood
320.2	Anti-friction bearing (drive side)	900 ¹⁾	Screw
400.1	Gasket	903.1	Screwed plug
400.2	Gasket	903.2	Screwed plug
412 ¹⁾	O-ring	920.1	Nut
420	Shaft seal ring	920.2	Nut
433.1	Mechanical seal	920.3	Nut
433.2 ¹⁾	Mechanical seal	922	Impeller nut
		940	Key

1) Special model/ accessories

2) Motor $\geq 440\text{lb}$

Variable frequency drive (VFD)

Frequency converters are used to electronically control the speed of motors and can produce significant energy savings. They also extend the service life of the plant and reduce repair and maintenance costs.

The primary advantage of a frequency converter is that controlling pump speed enables the operating point to be adjusted to best suit the system requirements (e.g., reduced night-time operation in swimming pools), which significantly improves energy use over earlier technical solutions and options. Used in wall or control cabinet mounting methods (all performance variables).



Seal Guard System (SGS)

The Seal Guard system uses a media reservoir to prevent the mechanical seal from dry running.

As soon as there is no medium on the primary mechanical seal of the pump, which leads to dry running, the lack of lubrication is offset by the media reservoir. The media reservoir is automatically replenished by a supply container. This container can also be used to detect primary mechanical seal leakage. Except for refilling the media reservoir, the system is entirely maintenance-free.

Using a media reservoir to protect the mechanical seal against dry running saves costs and, in turn, reduces life cycle costs.



Long Life Set

The Long Life set consists of a grease gun with high-performance grease. Keeping the motor bearings lubricated increases their lifetime considerably and therefore improves the life cycle costs of the pump.



Analog pressure sensor unit

The analog pressure sensor unit is used to display the pressure on the pressure side of the pump. This makes it easy to check how the pump is functioning.



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