

**TECHNICAL DATA BROCHURE
60Hz**

herborner.**F-N-C**

100 % COATING = 0 % CORROSION!



Certified to
NSF/ANSI Standard 50



TABLE OF CONTENTS

TECHNICAL DESCRIPTIONS.....	3
VERSIONS	9
CHARACTERISTIC CURVES 1800 RPM.....	13
DN 32	13
DN 40	14
DN 50.....	15
DN 65.....	17
DN 80	20
DN 100	22
DN 125.....	25
DN 150	27
DN 200.....	29
DIMENSIONS • WEIGHTS.....	31
Version with blind hole thread/flange.....	31
TECHNICAL DATA	36
EXPLODED VIEW.....	40
ACCESSORIES.....	41

TECHNICAL DESCRIPTIONS

Use

With its 100% coating, the herborner.F-N-C is particularly well suited for 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 pursued 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.

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	2,850	115

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 medium-cooled heat exchanger motor is used. This results in the majority of its heat to the medium being fed back via an integrated cooling system which the medium is fed through.

Design	C- Face
Speed	1,800 rpm
Frequency	60 Hz
Connection ≤ 5 hp	460 $\blacktriangle$ V
Connection ≥ 7.5 hp	460 $\triangle$ V

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 (460 V)

General data

- Delivery temperature +104 °F
- Ambient temperature range: +23° to 104 °F
- Pumped medium H₂S-free, up to 1,000 oz/gal chloride ions
- Density of the pumped medium up to maximum 8.76 lb/gal₃
- Viscosity of the pumped medium up to maximum 1.88×10^{-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)
- Asynchronous motors with energy class NEMA Premium (herborner.F-N)
- Customer-specific solutions

TECHNICAL DESCRIPTIONS

Model designation

FN032-200A-0304C-W2B-V

1	2	3	4	5	6	7	8	9

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	Diameter centering
4	Version	A-Z	Design version
5	Motor power	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
6	Speed	4	1,800 rpm
7	Motor type	C	Heat exchanger motor
8	Type of material	W2B	See type of material
		W30	See type of material
		W40	See type of material

TECHNICAL DESCRIPTIONS

Number	Name	Type key identification	Meaning
9	Flange position	W60	See type of material
		V	Front (standard)
		VL	Center between front and left
		L	Left
		VR	Center between front and right
		R	Right

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	-	-	-

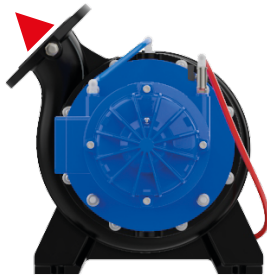
TECHNICAL DESCRIPTIONS

Flange position ¹⁾

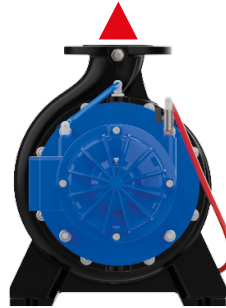
Picture L



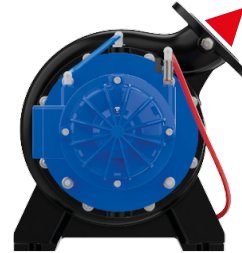
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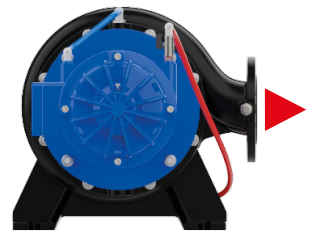
Picture V (Standard)



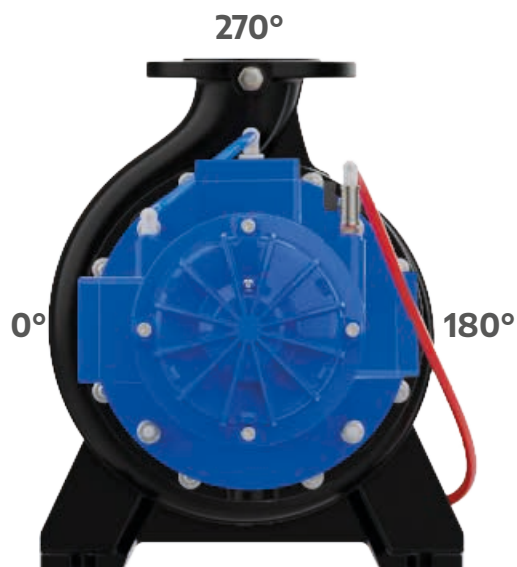
Picture VR



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 [kW]	Version		Flange position					Accessories (option)	
		with blind hole thread 1)	with flange 1)	L	VL	V	VR	R	Seal Guard System	Variable fre- quency drive (Wall-moun- ted)
										
FN032-250A	3	●	-	○	○	●	○	○	○	○
FN032-250A	5	●	-	○	○	●	○	○	○	○
FN032-250B	5	●	-	○	○	●	○	○	○	○
FN040-220A	3	●	-	○	○	●	○	○	○	○
FN040-270A	5	●	-	○	○	●	○	○	○	○
FN040-270A	7.5	●	-	○	○	●	○	○	○	○
FN040-270A	10	●	-	○	○	●	○	○	○	○
FN040-270B	5	●	-	○	○	●	○	○	○	○
FN050-190A	3	●	-	○	○	●	○	○	○	○
FN050-190A	5	●	-	○	○	●	○	○	○	○
FN050-190B	5	●	-	○	○	●	○	○	○	○
FN050-240A	3	●	-	○	○	●	○	○	○	○
FN050-240A	5	●	-	○	○	●	○	○	○	○
FN050-240B	5	●	-	○	○	●	○	○	○	○
FN065-200A	3	●	-	○	○	●	○	○	○	○
FN065-200A	5	●	-	○	○	●	○	○	○	○
FN065-220A	5	●	-	○	○	●	○	○	○	○
FN065-220A	7.5	●	-	○	○	●	○	○	○	○
FN065-220B	5	●	-	○	○	●	○	○	○	○
FN065-240A	7.5	●	-	○	○	●	○	○	○	○
FN065-270A	7.5	●	-	○	○	●	○	○	○	○
FN065-270A	10	●	-	○	○	●	○	○	○	○

● Standard

○ Option

- not executable

1) Suction side

VERSIONS

1,800 rpm

Type	P ₂ [kW]	Version		Flange position					Accessories (option)	
		with blind hole thread ¹⁾	with flange ¹⁾	L	VL	V	VR	R	Seal Guard System	Variable frequency drive (Wall-mounted)
										
FN065-270C	10	●	-	○	○	●	○	○	○	○
FN065-300B	15	●	-	○	○	●	○	○	○	○
FN065-300B	20	●	-	○	○	●	○	○	○	○
FN080-170A	3	-	●	○	○	●	○	○	○	○
FN080-170A	5	-	●	○	○	●	○	○	○	○
FN080-210A	7.5	●	-	○	○	●	○	○	○	○
FN080-210A	10	●	-	○	○	●	○	○	○	○
FN080-255A	5	●	-	○	○	●	○	○	○	○
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	-	●	○	○	●	○	○	○	○
FN100-180B	5	-	●	○	○	●	○	○	○	○
FN100-210A	10	-	●	○	○	●	○	○	○	○
FN100-210A	15	-	●	-	-	●	○	○	○	○
FN100-240A	10	●	-	○	○	●	○	○	○	○
FN100-240A	15	●	-	○	○	●	○	○	○	○
FN100-270A	10	●	-	○	○	●	○	○	○	○

● Standard

○ Option

- not executable

1) Suction side

VERSIONS

1,800 rpm

Type	P ₂ [kW]	Version		Flange position					Accessories (option)	
		with blind hole thread 1)	with flange 1)	L	VL	V	VR	R	Seal Guard System	Variable fre- quency drive (Wall-moun- ted)
										
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	-	●	○	○	●	○	○	○	○
FN125-270A	15	●	-	○	○	●	○	○	○	○
FN125-270A	20	●	-	○	○	●	○	○	○	○
FN125-270A	25	●	-	○	○	●	○	○	○	○
FN125-270B	20	●	-	-	-	●	-	-	○	○
FN125-270B	25	●	-	-	-	●	-	-	○	○
FN125-270B	30	●	-	-	-	●	-	-	○	○
FN125-270B	40	●	-	-	-	●	-	-	○	○
FN125-330A	40	●	-	○	○	●	○	○	○	○
FN150-250A	10	-	●	-	-	●	-	-	○	○
FN150-250A	15	-	●	-	-	●	-	-	○	○
FN150-250A	20	-	●	-	-	●	-	-	○	○
FN150-270B	25	-	●	-	-	●	-	-	○	○
FN150-270B	30	-	●	-	-	●	-	-	○	○

● Standard

○ Option

- not executable

1) Suction side

VERSIONS

1,800 rpm

Type	P ₂ [kW]	Version		Flange position					Accessories (option)	
		with blind hole thread 1)	with flange 1)	L	VL	V	VR	R	Seal Guard System	Variable fre- quency drive (Wall-moun- ted)
										
FN150-270B	40	-	●	-	-	●	-	-	○	○
FN150-300A	25	-	●	-	-	●	-	-	○	○
FN150-300A	30	-	●	-	-	●	-	-	○	○
FN150-300A	40	-	●	-	-	●	-	-	○	○
FN200-250A	15	-	●	-	-	●	-	-	○	○
FN200-250A	20	-	●	-	-	●	-	-	○	○
FN200-250A	25	-	●	-	-	●	-	-	○	○
FN200-270B	20	-	●	-	-	●	-	-	○	○
FN200-270B	30	-	●	-	-	●	-	-	○	○
FN200-270B	40	-	●	-	-	●	-	-	○	○

● Standard

○ Option

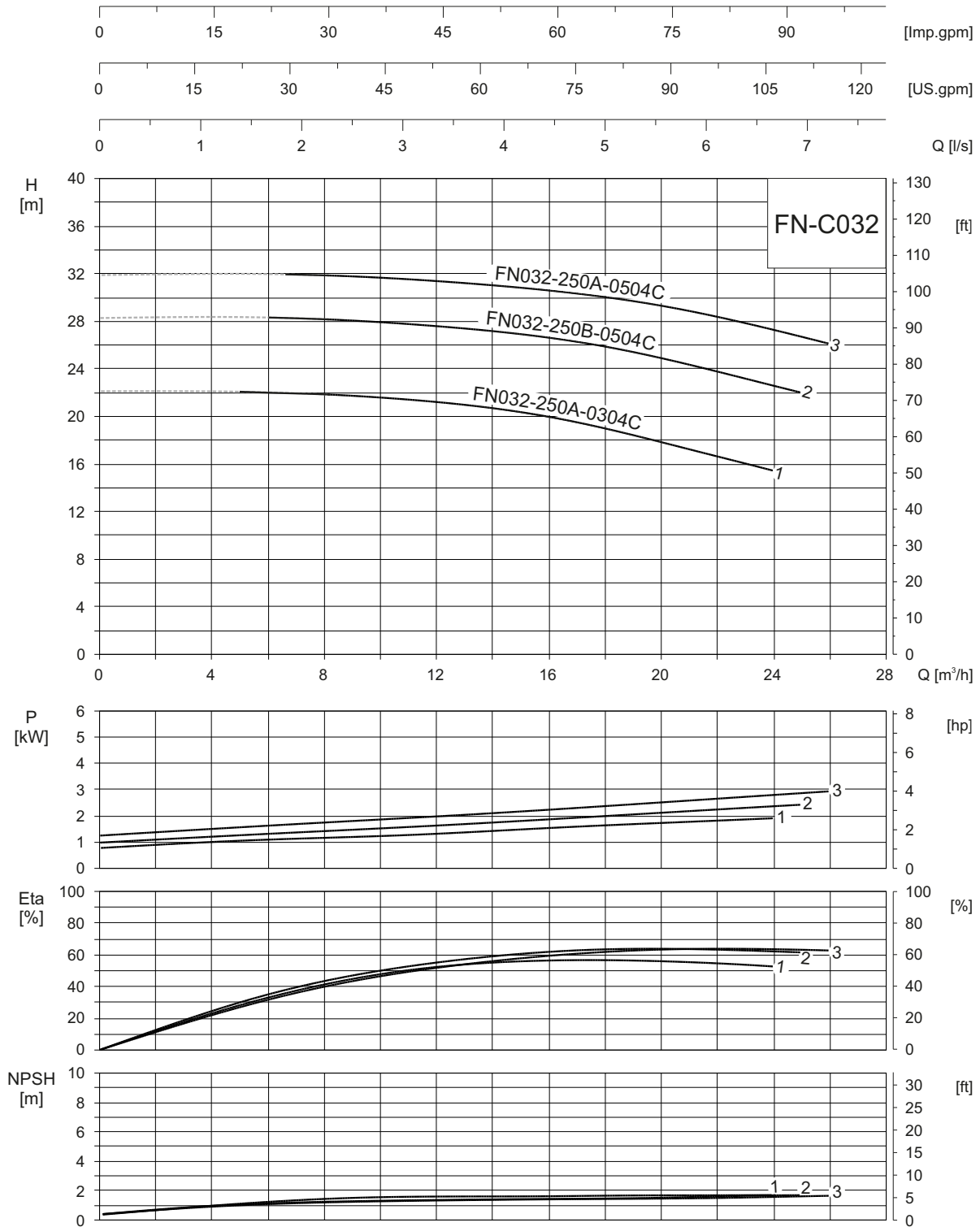
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1) Suction side

CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 50 Hz)

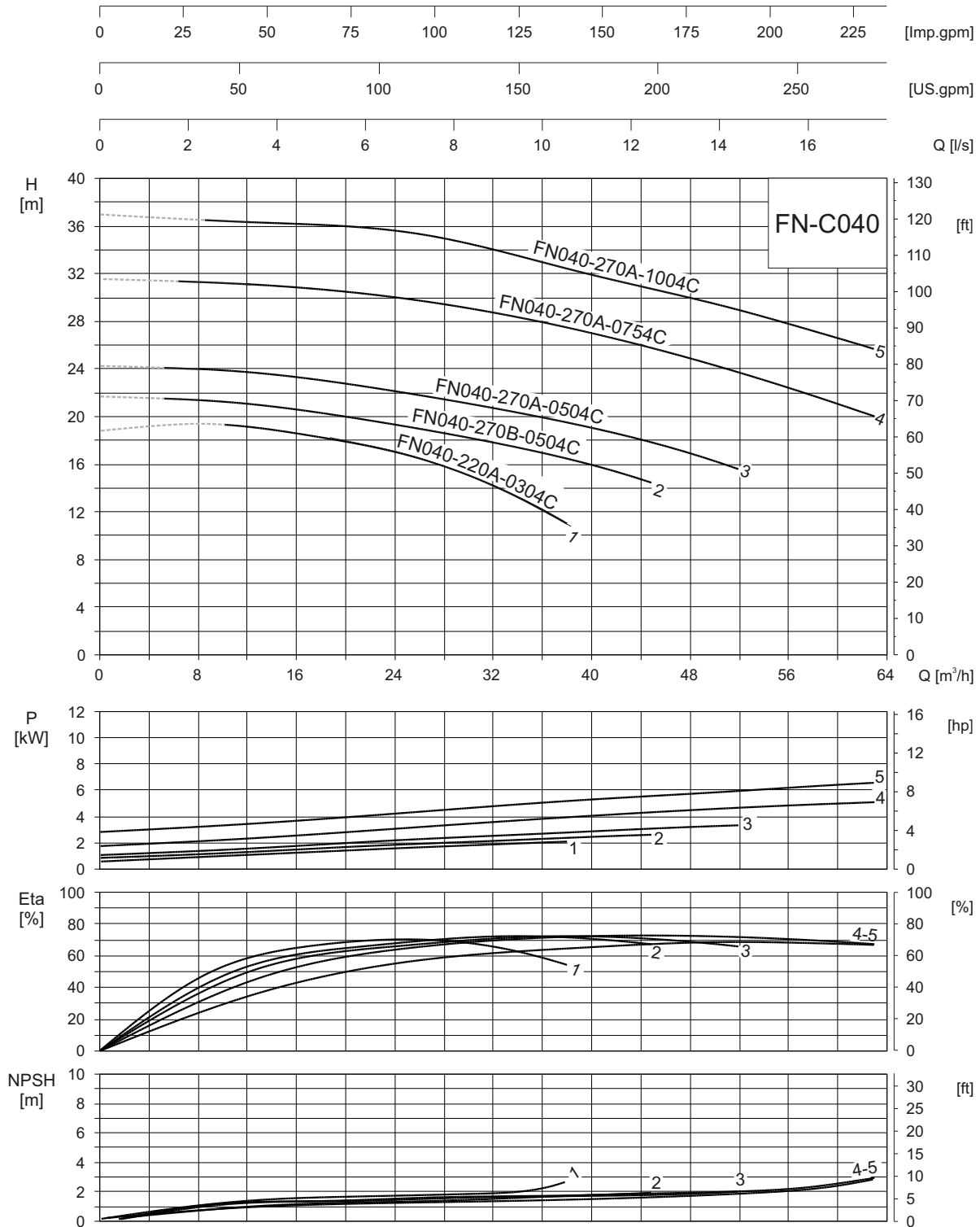
DN 32



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

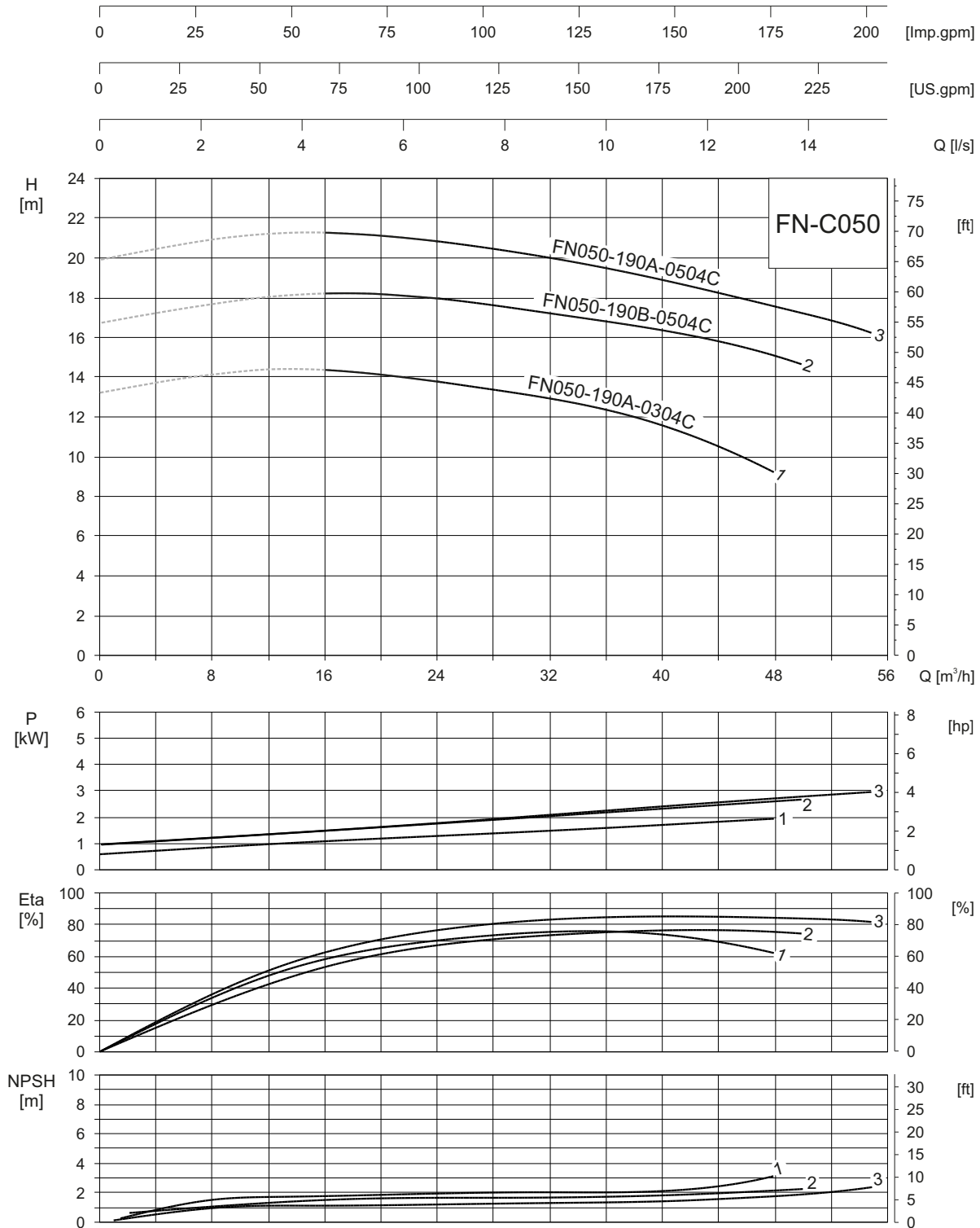
DN 40



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

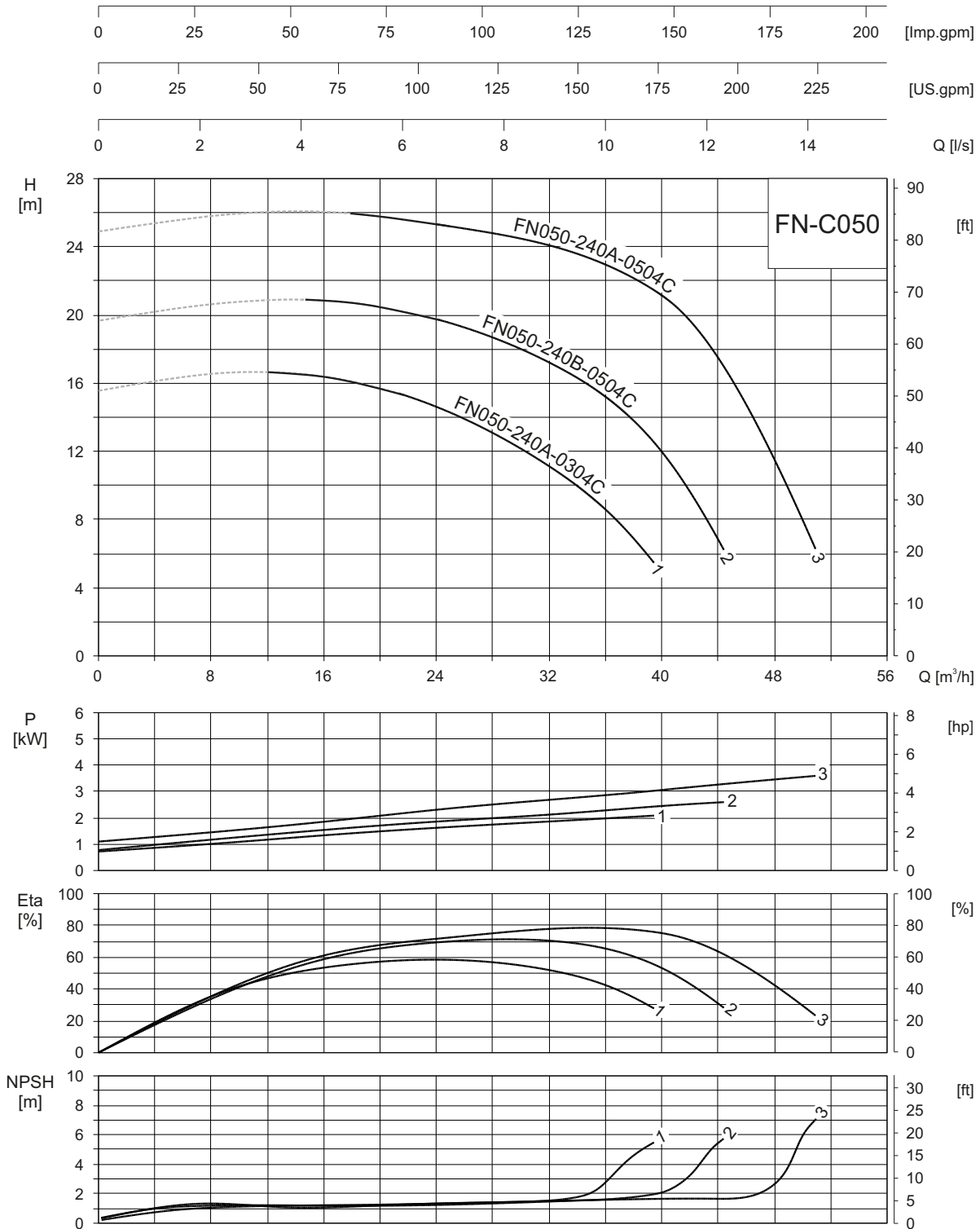
DN 50



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

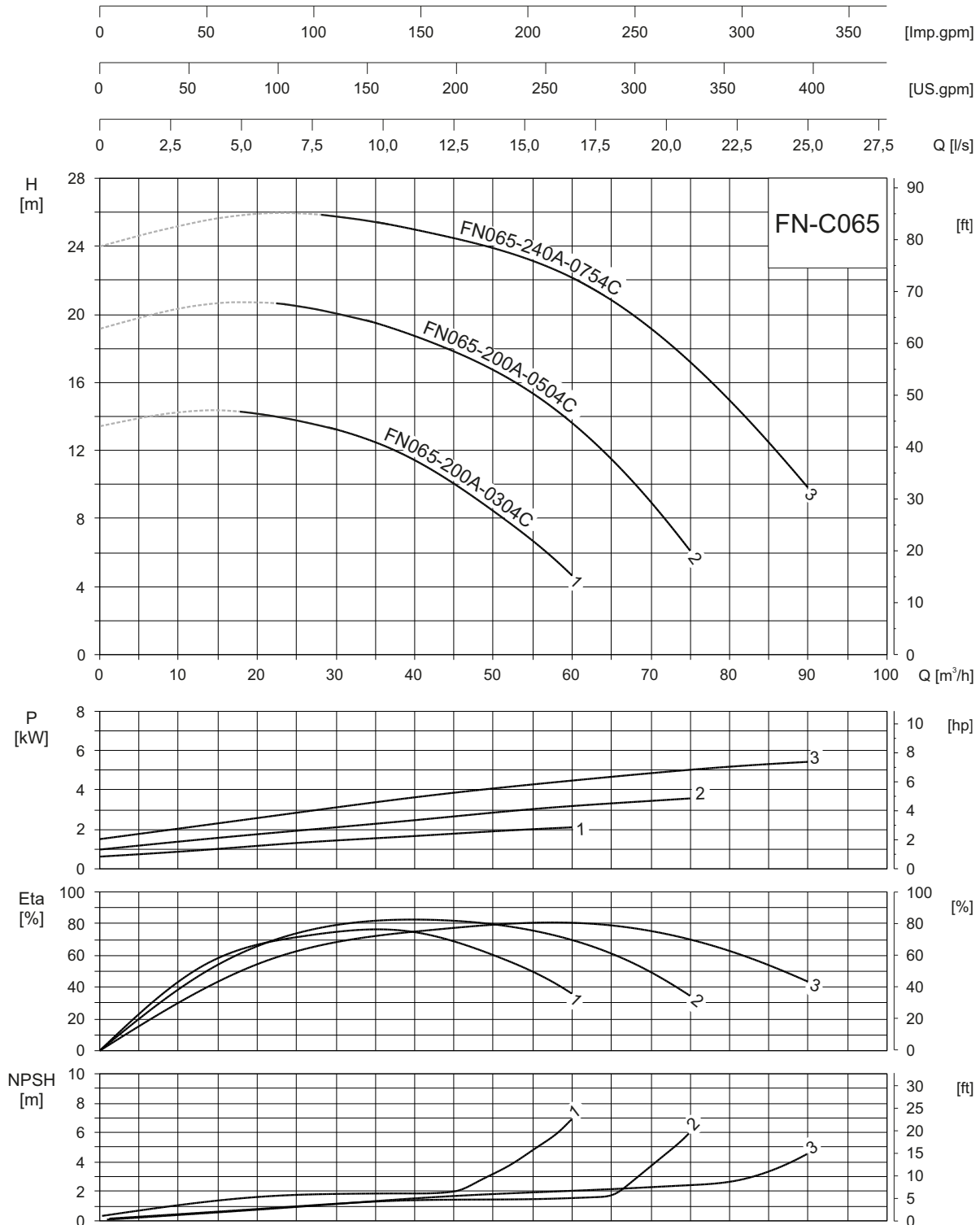
DN 50



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

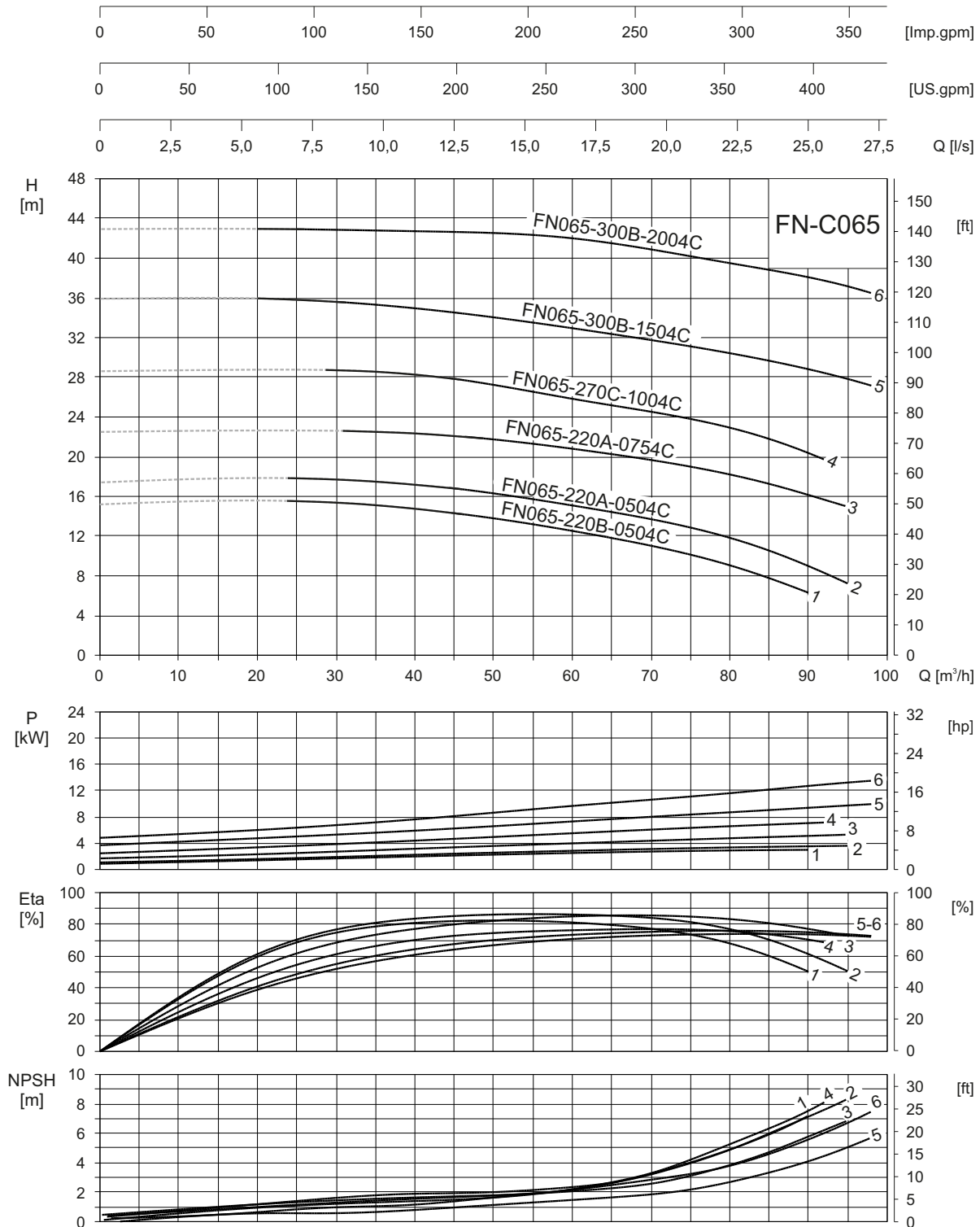
DN 65



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

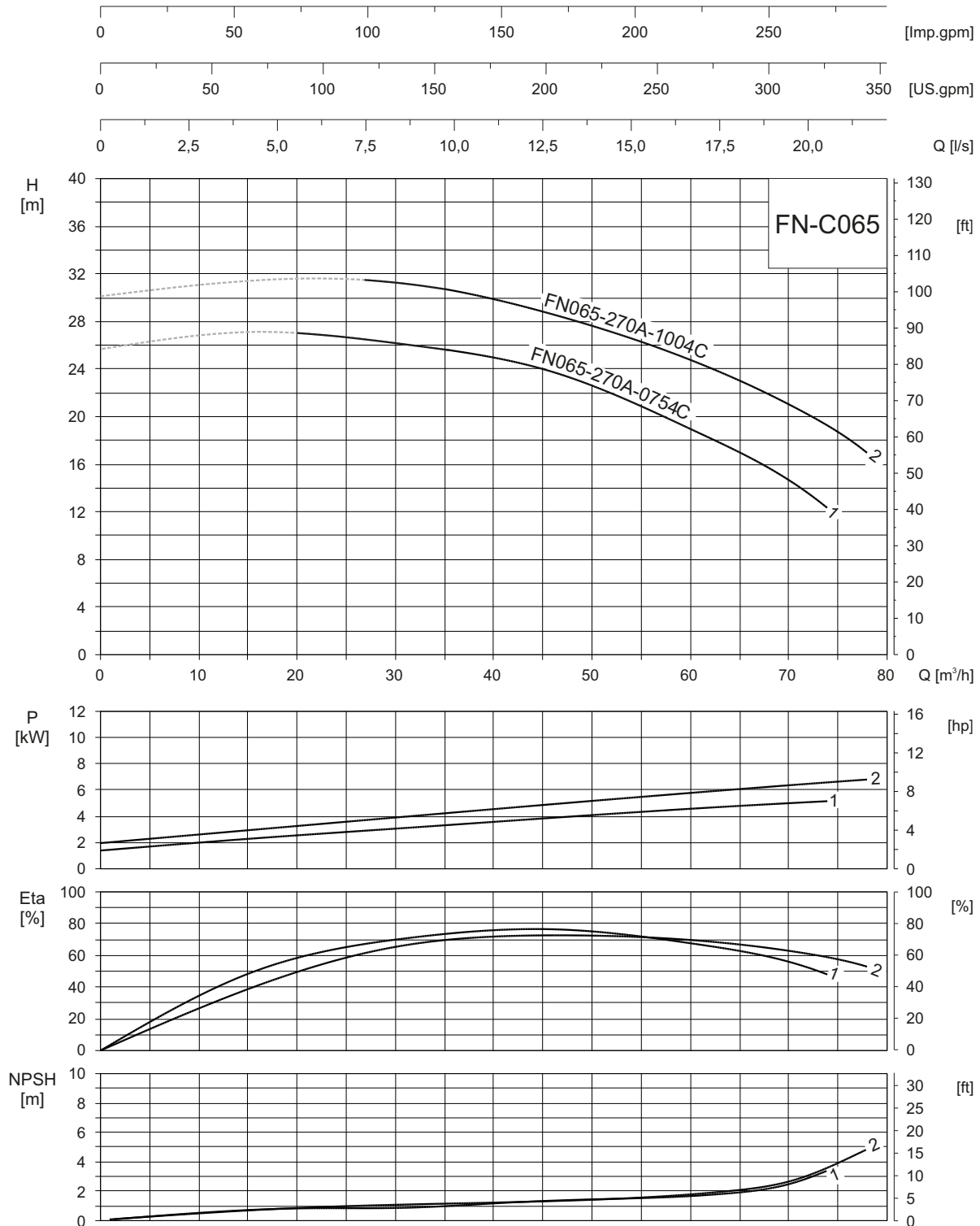
DN 65



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

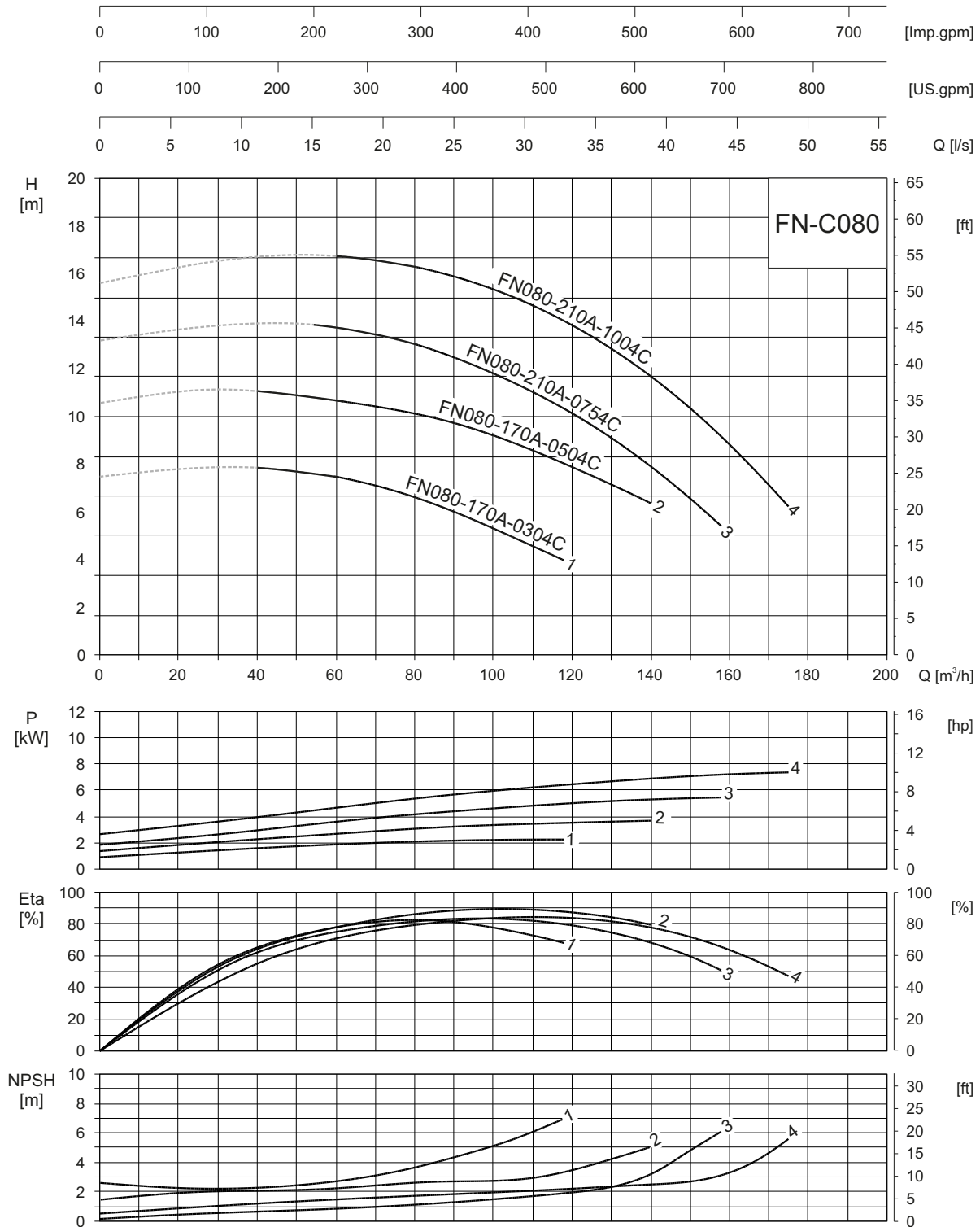
DN 65



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

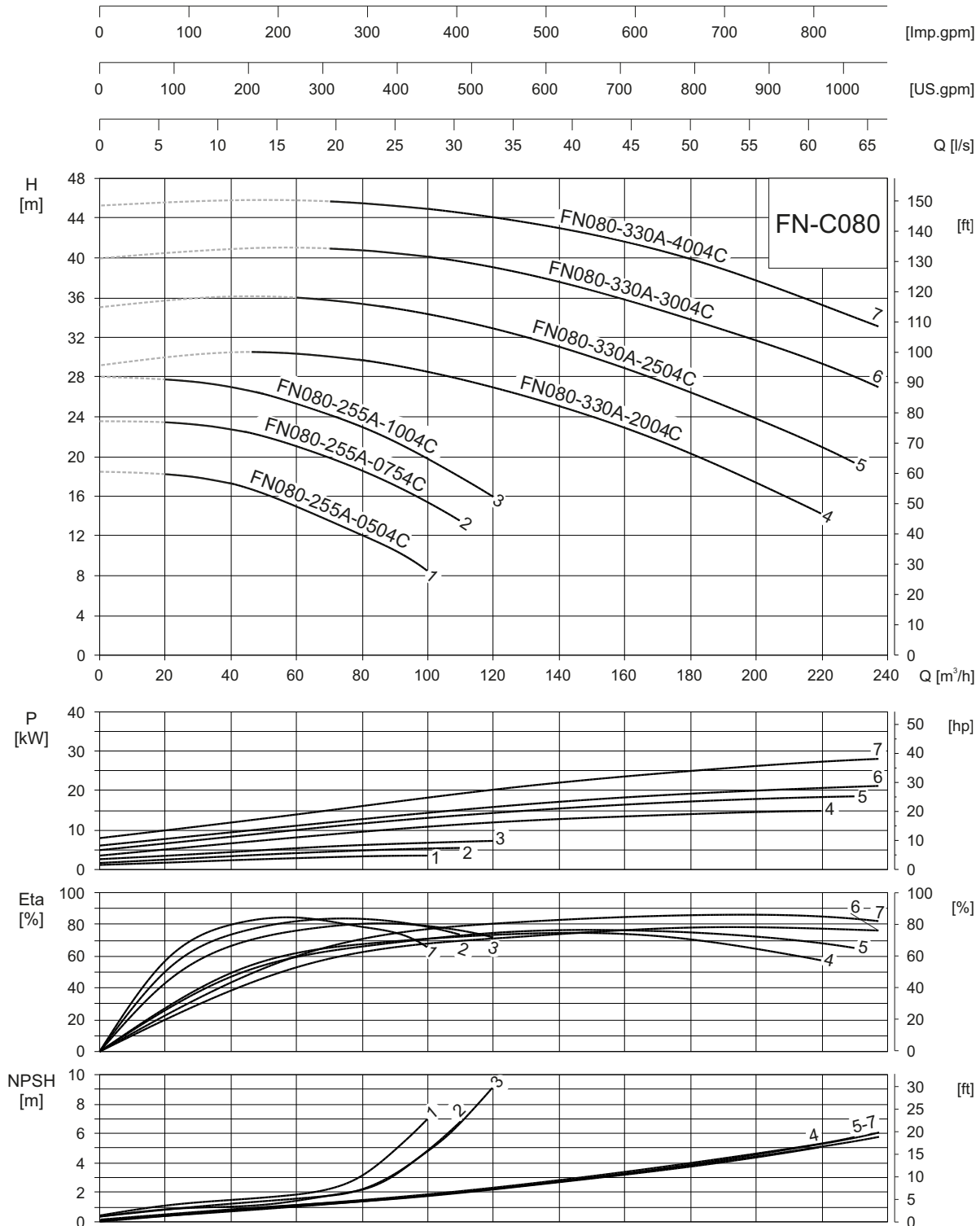
DN 80



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

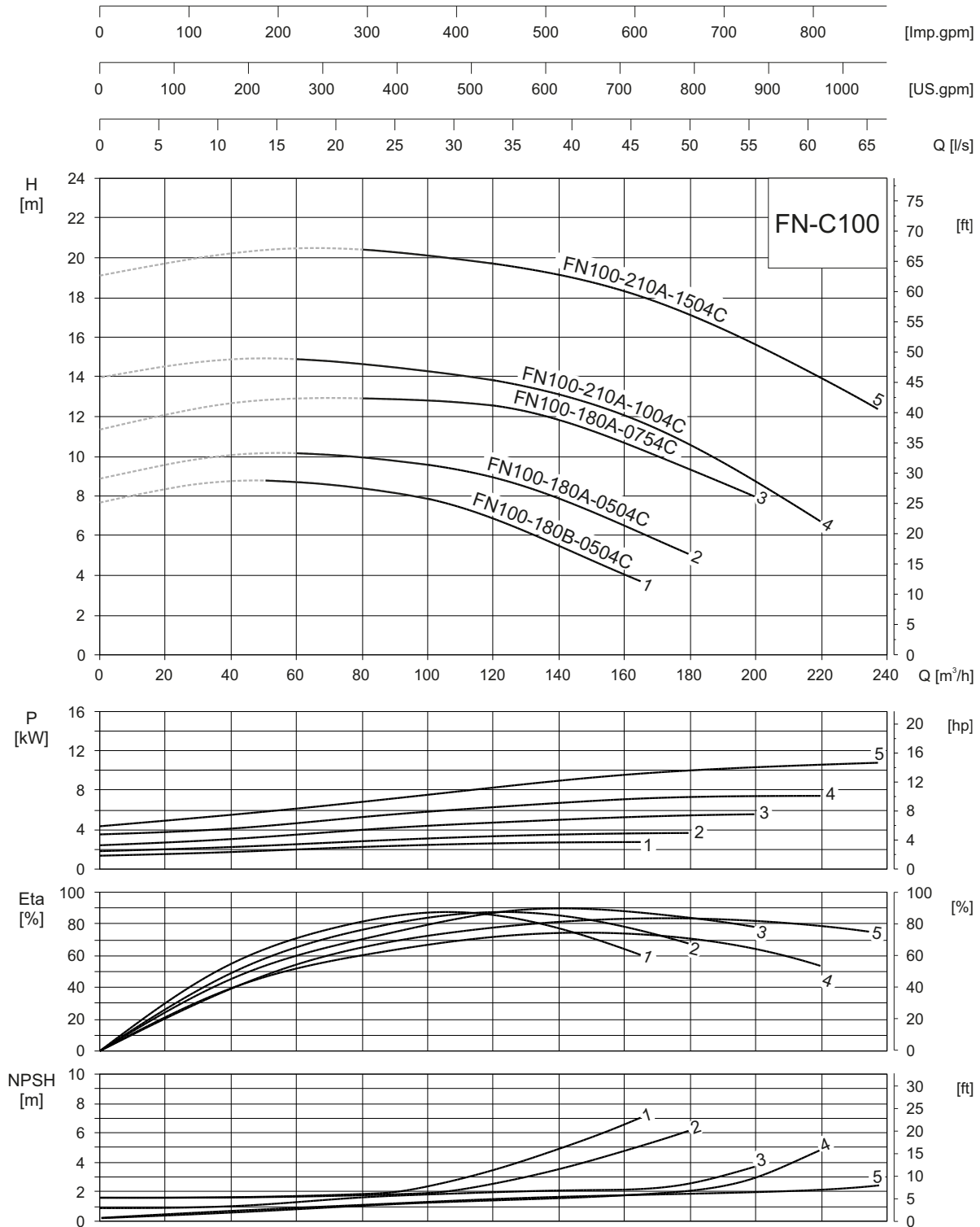
DN 80



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

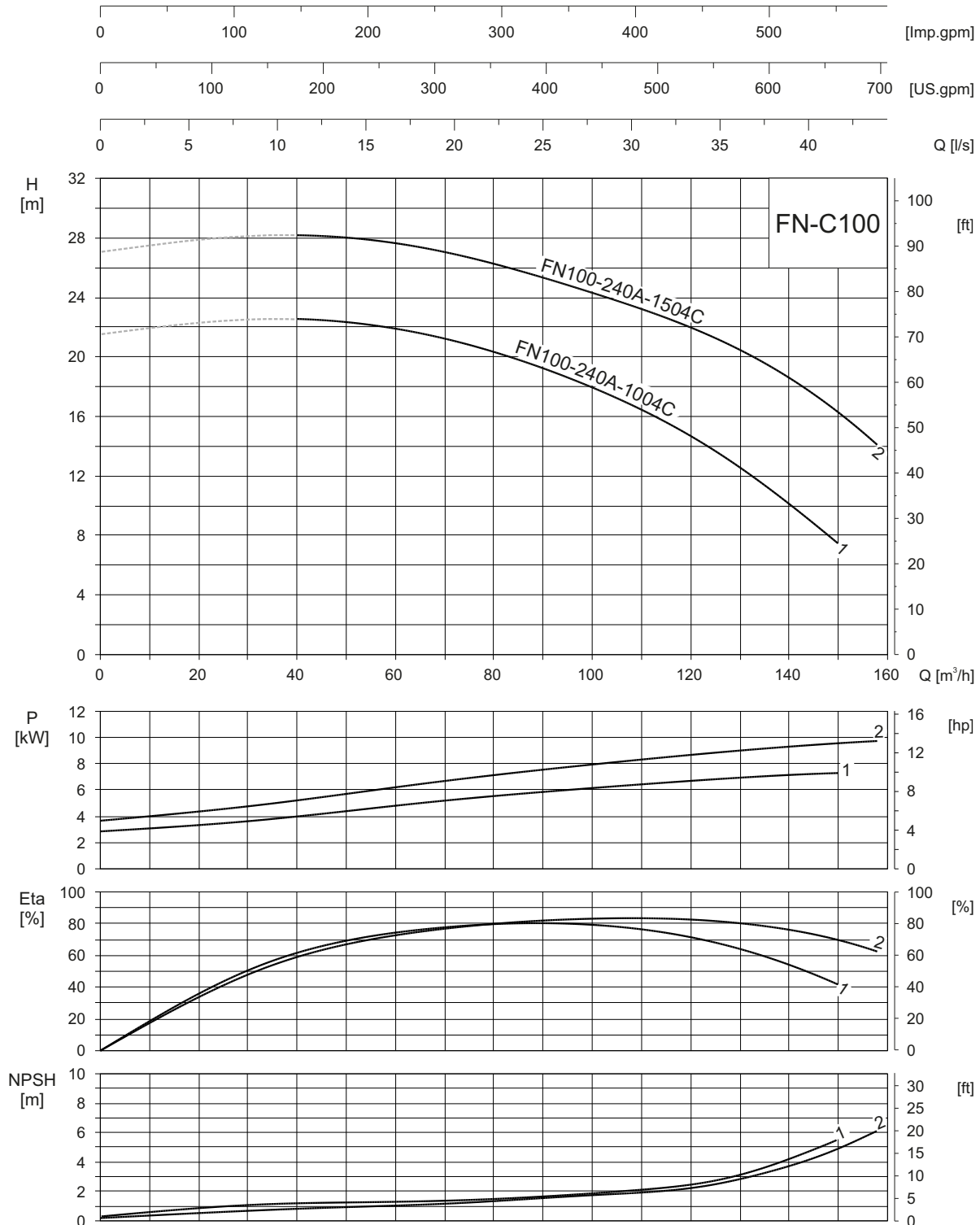
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

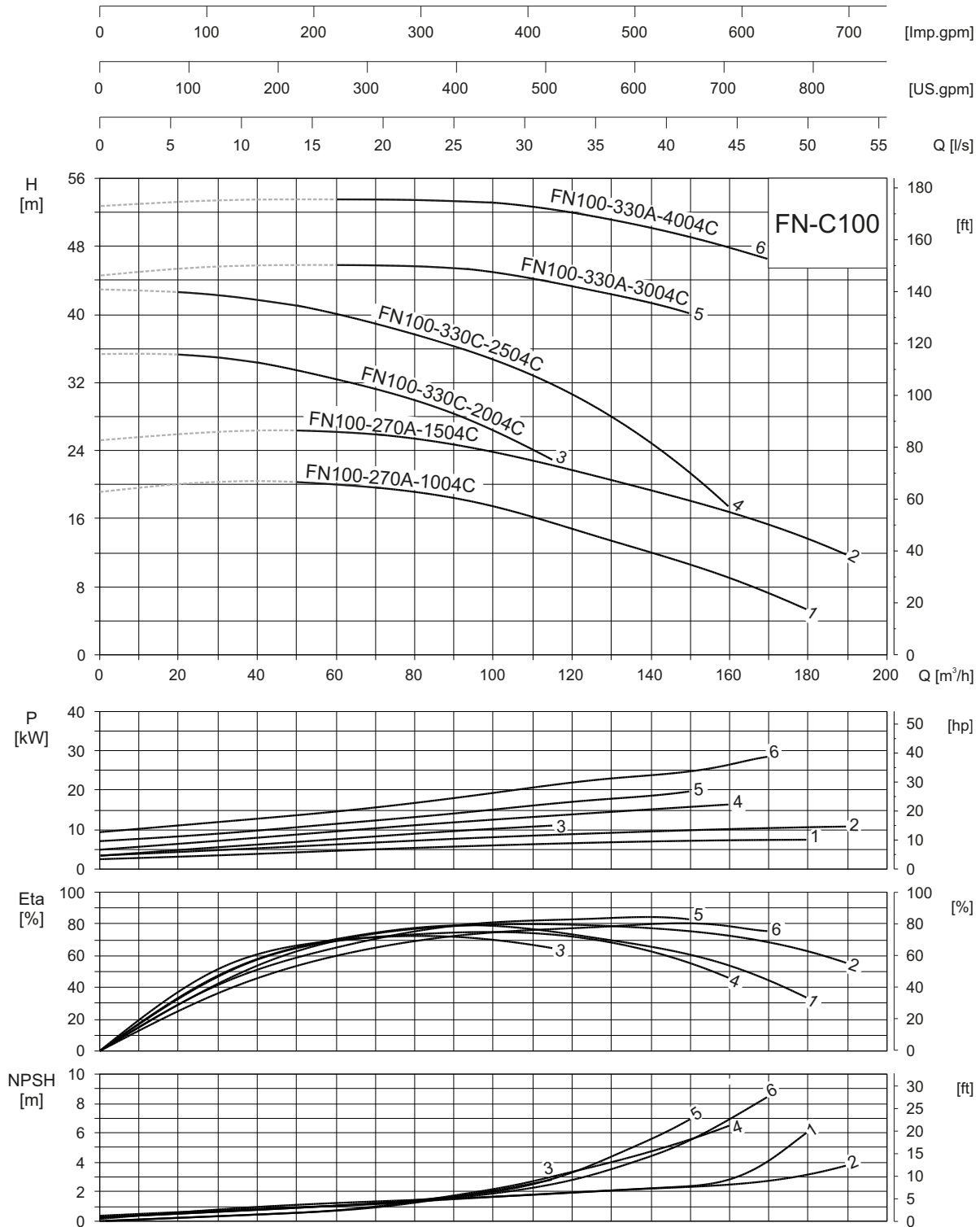
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

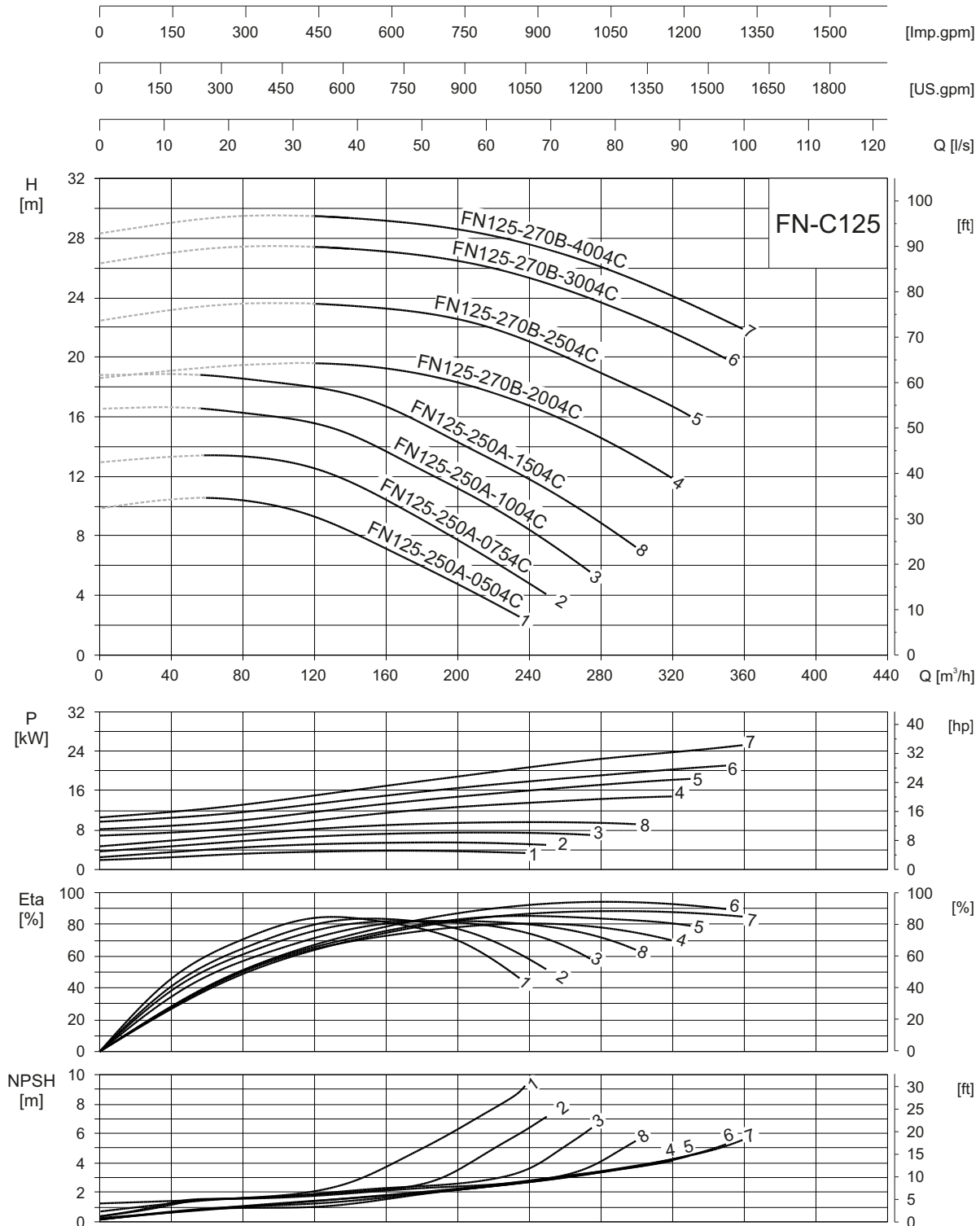
DN 100



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

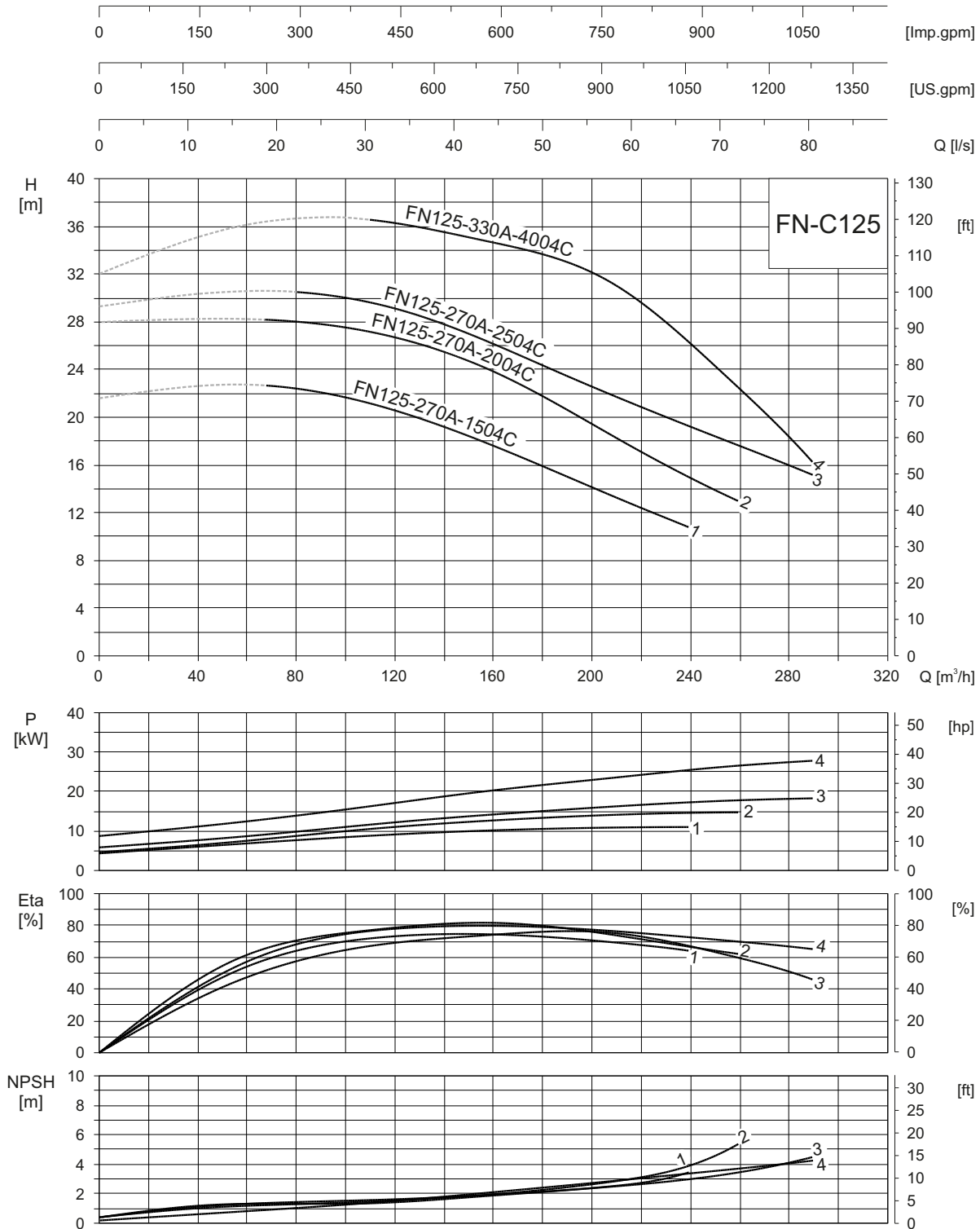
DN 125



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

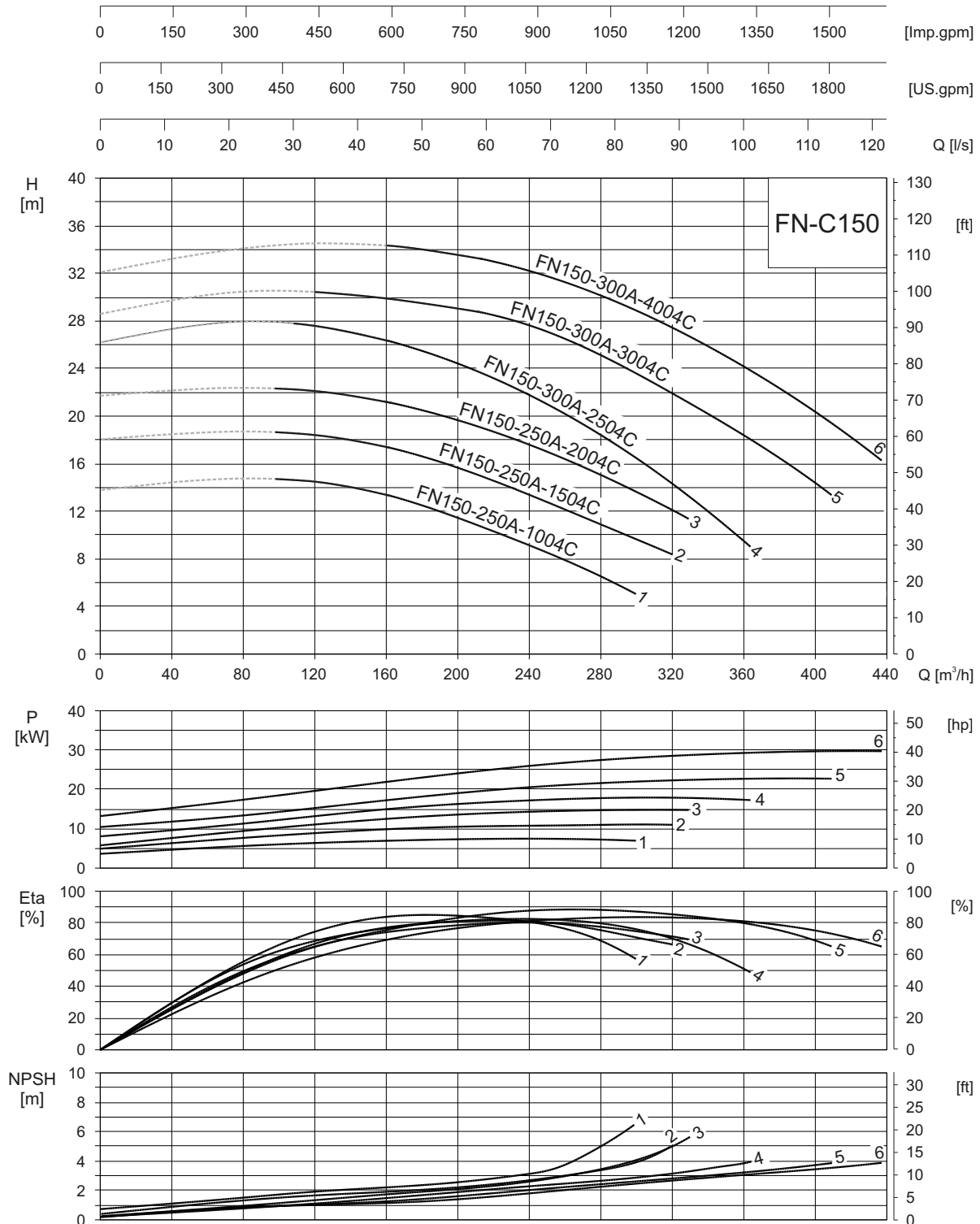
DN 125



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

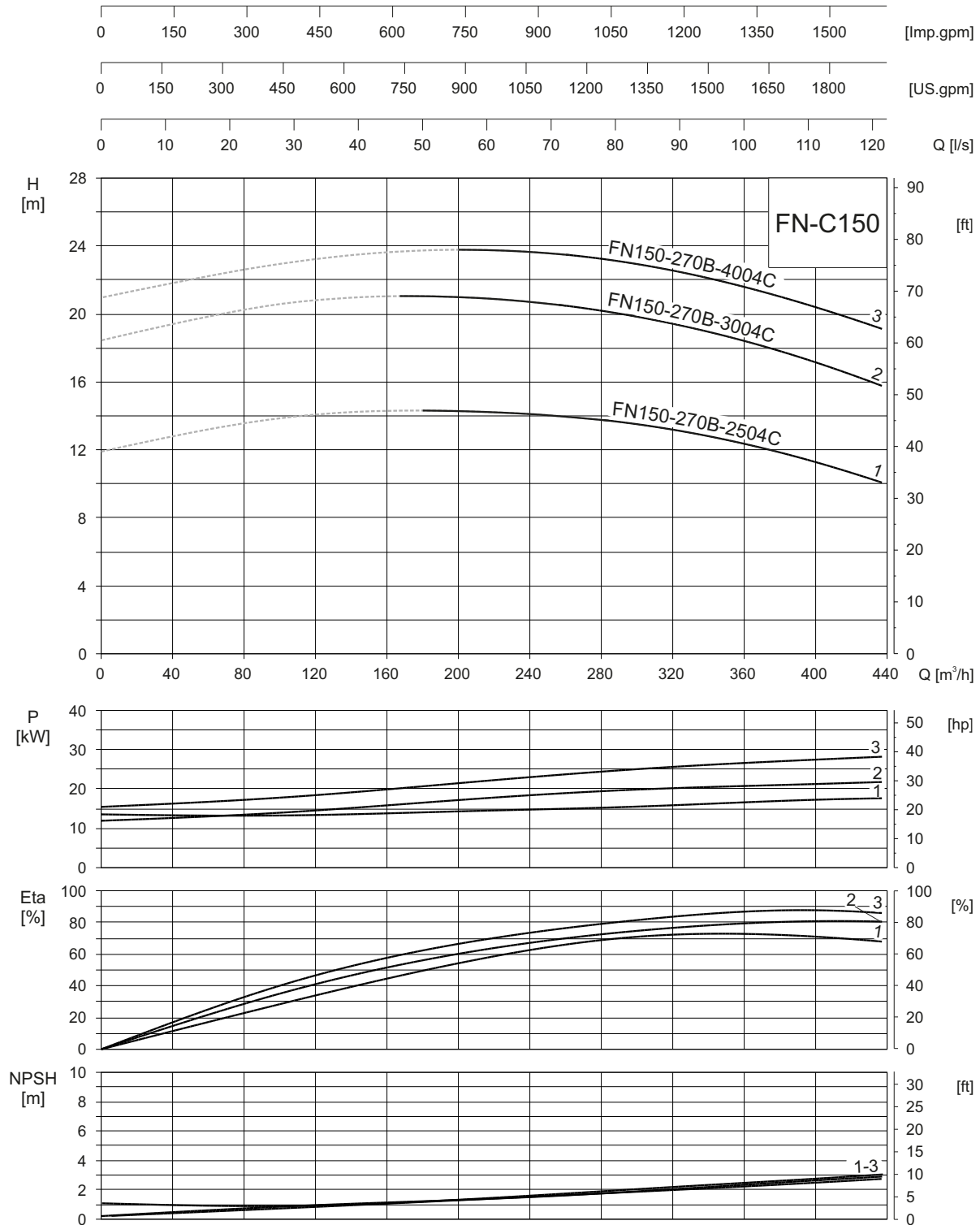
DN 150



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

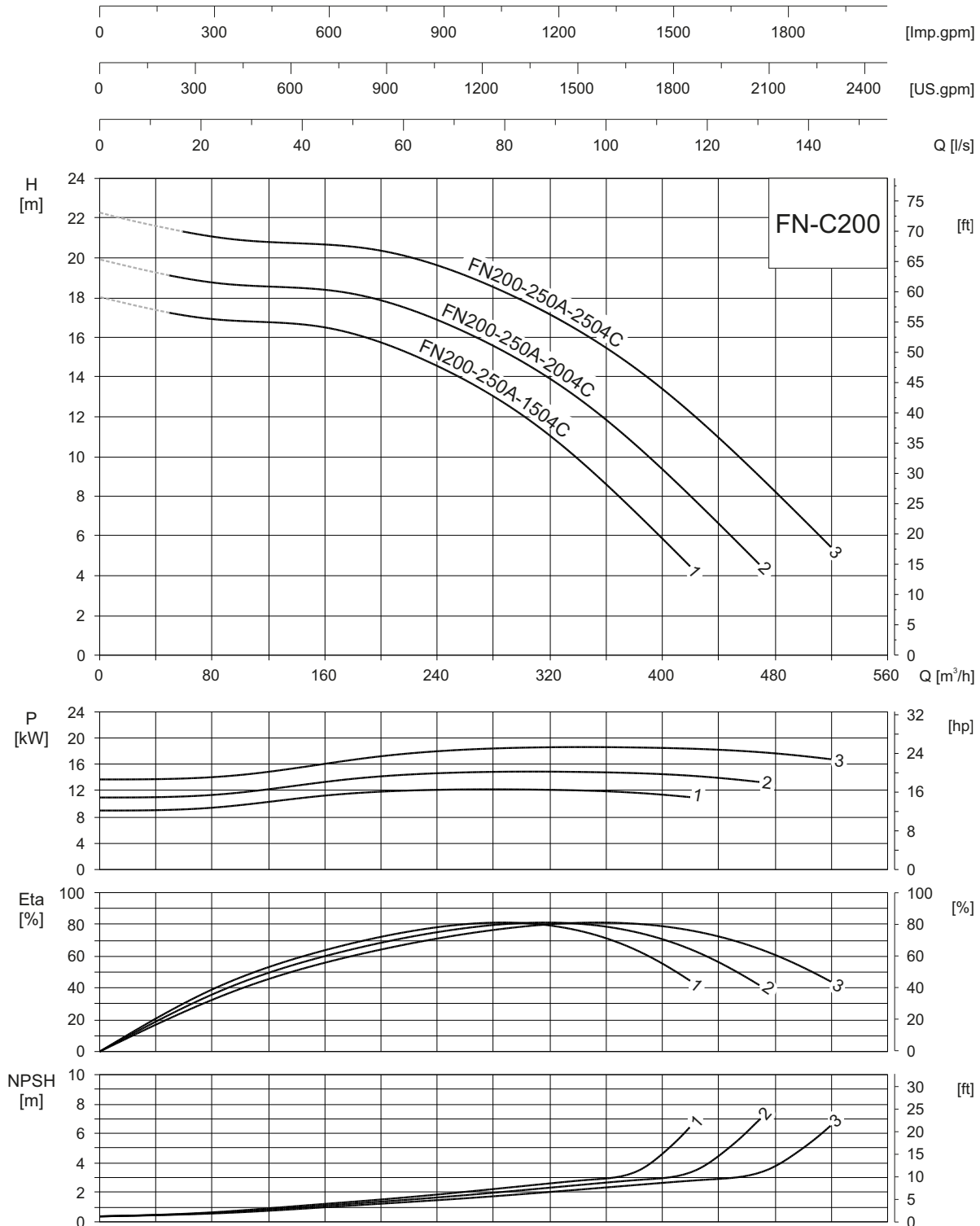
DN 150



CHARACTERISTIC CURVES 1,800 rpm

1,800 rpm (460 V - 60 Hz)

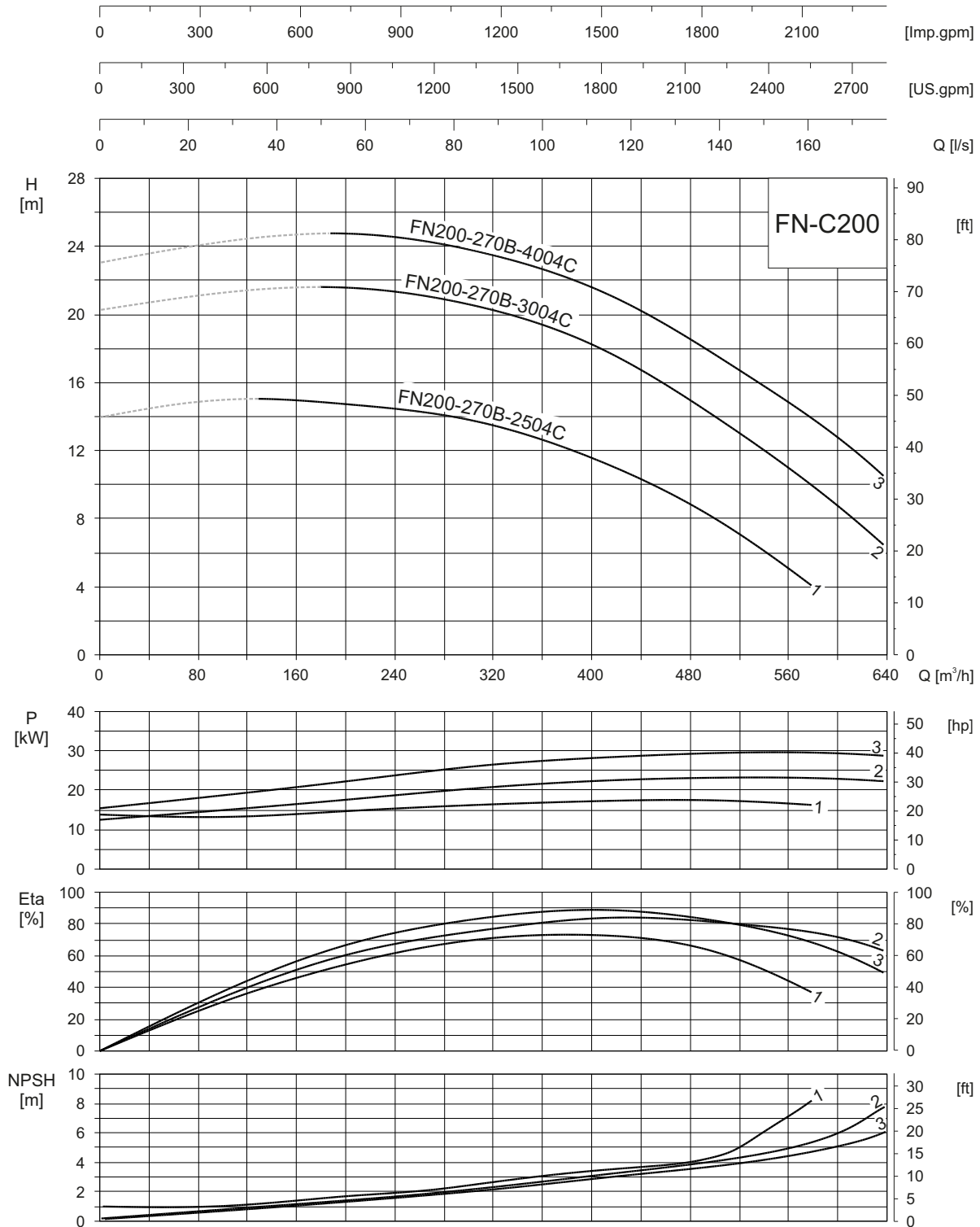
DN 200



CHARACTERISTIC CURVES 1,800 rpm

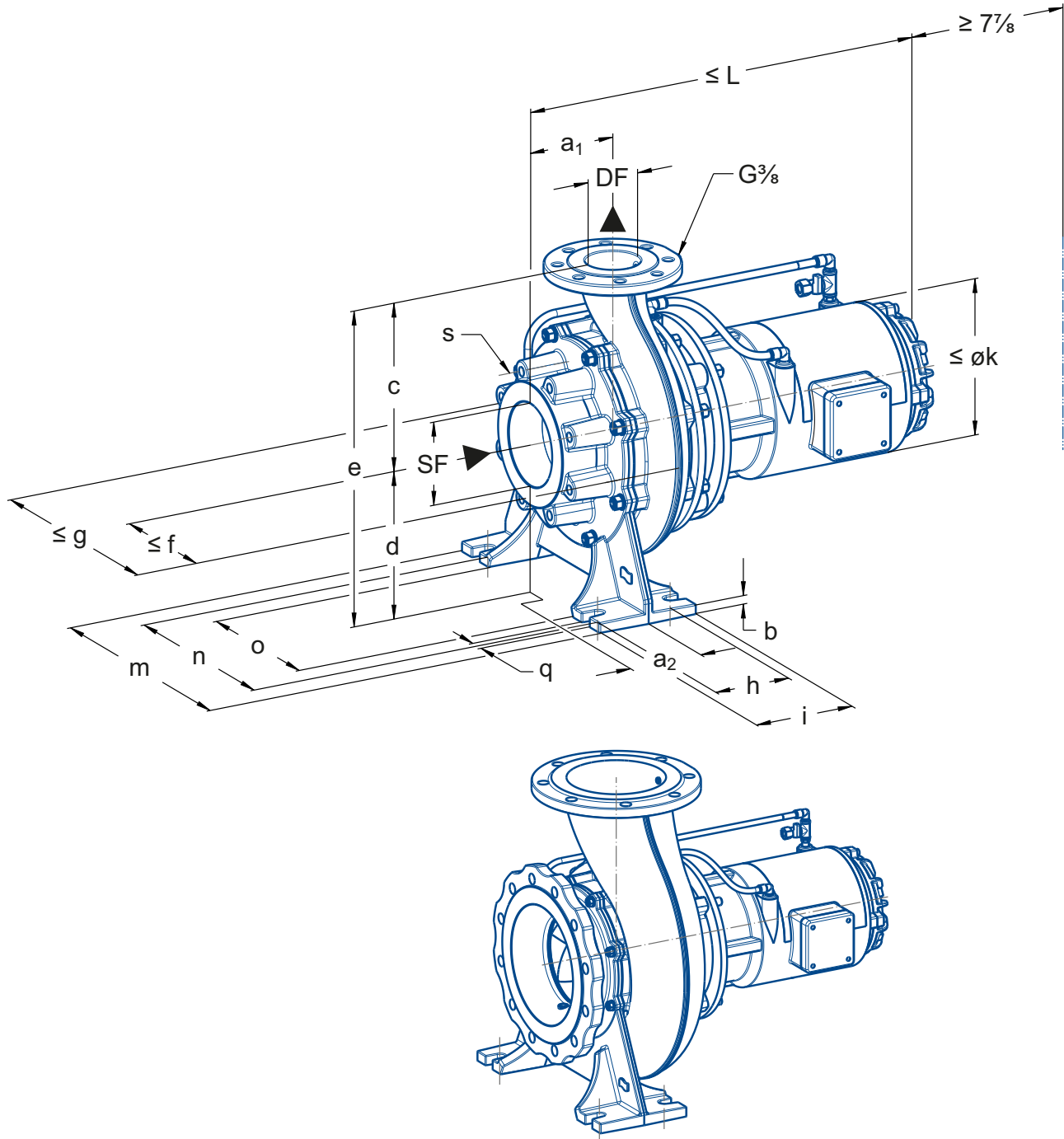
1,800 rpm (460 V - 60 Hz)

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	≤ 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
FN032-250A-0304C	3	1.25 (32)	2 (50)	18.99 (483)	3.96 (101)	1.81 (46)	0.59 (15)	8.86 (225)	7.09 (180)	15.94 (405)	6.1 (155)	12.2 (310)	3.74 (95)	4.92 (125)	6.89 (175)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	145
FN032-250A-0504C	5	1.25 (32)	2 (50)	20.26 (515)	3.96 (101)	1.81 (46)	0.59 (15)	8.86 (225)	7.09 (180)	15.94 (405)	6.3 (160)	12.4 (315)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	172
FN032-250B-0504C	5	1.25 (32)	2 (50)	20.01 (509)	3.96 (101)	1.81 (46)	0.59 (15)	8.86 (225)	7.09 (180)	15.94 (405)	6.3 (160)	12.38 (315)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	167
FN040-220A-0304C	3	1.5 (40)	2.5 (65)	19.29 (490)	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)	6.89 (175)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	141
FN040-270A-0504C	5	1.5 (40)	2.5 (65)	20.48 (521)	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)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	172
FN040-270A-0754C	7.5	1.5 (40)	2.5 (65)	21.74 (553)	3.98 (101)	2.05 (52)	0.51 (13)	9.19 (234)	7.09 (180)	16.28 (414)	7.28 (185)	13.78 (350)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	181
FN040-270A-1004C	10	1.5 (40)	2.5 (65)	23.59 (600)	3.98 (101)	2.05 (52)	0.51 (13)	9.19 (234)	7.09 (180)	16.28 (414)	7.28 (185)	13.78 (350)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	174
FN040-270B-0504C	5	1.5 (40)	2.5 (65)	20.48 (521)	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)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	172
FN050-190A-0304C	3	2 (50)	2.5 (65)	19.15 (487)	3.86 (98)	2.13 (54)	0.63 (16)	7.87 (200)	6.3 (160)	14.17 (360)	6.02 (153)	11.06 (281)	2.76 (70)	3.94 (100)	6.89 (175)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	120
FN050-190A-0504C	5	2 (50)	2.5 (65)	20.21 (514)	3.86 (98)	2.13 (54)	0.63 (16)	7.87 (200)	6.3 (160)	14.17 (360)	6.3 (160)	11.34 (288)	2.76 (70)	3.94 (100)	7.56 (192)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	147
FN050-190B-0504C	5	2 (50)	2.5 (65)	20.21 (514)	3.86 (98)	2.13 (54)	0.63 (16)	7.87 (200)	6.3 (160)	14.17 (360)	6.3 (160)	11.34 (288)	2.76 (70)	3.94 (100)	7.56 (192)	10.43 (265)	8.35 (212)	6.5 (165)	0.59 (15)	4x5/8"	145
FN050-240A-0304C	3	2 (50)	2.5 (65)	19.19 (488)	4.15 (106)	2.44 (62)	0.67 (17)	8.66 (220)	7.09 (180)	15.75 (400)	6.61 (168)	12.52 (318)	3.74 (95)	4.92 (125)	6.89 (175)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	146
FN050-240A-0504C	5	2 (50)	2.5 (65)	20.63 (524)	4.15 (106)	2.44 (62)	0.67 (17)	8.66 (220)	7.09 (180)	15.75 (400)	6.61 (168)	12.52 (318)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	172
FN050-240B-0504C	5	2 (50)	2.5 (65)	20.23 (514)	4.15 (106)	2.44 (62)	0.67 (17)	8.66 (220)	7.09 (180)	15.75 (400)	6.61 (168)	12.52 (318)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	4x5/8"	169
FN065-200A-0304C	3	2.5 (65)	3 (80)	19.93 (507)	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)	6.89 (175)	12.6 (320)	9.84 (250)	6.69 (170)	0.59 (15)	8x5/8"	134
FN065-200A-0504C	5	2.5 (65)	3 (80)	20.53 (522)	3.96 (101)	1.34 (34)	0.67 (17)	8.86 (225)	7.09 (180)	15.94 (405)	6.3 (160)	11.54 (293)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	6.69 (170)	0.59 (15)	8x5/8"	157
FN065-220A-0504C	5	2.5 (65)	3 (80)	20.3 (516)	3.96 (101)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	6.69 (170)	12.56 (319)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	171
FN065-220A-0754C	7.5	2.5 (65)	3 (80)	21.56 (548)	3.96 (101)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	7.28 (185)	13.15 (334)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	180
FN065-220B-0504C	5	2.5 (65)	3 (80)	20.3 (516)	3.96 (101)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	6.69 (170)	12.56 (319)	3.74 (95)	4.92 (125)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	170
FN065-240A-0754C	7.5	2.5 (65)	3 (80)	21.65 (550)	3.8 (97)	1.97 (50)	0.59 (15)	9.84 (250)	7.09 (180)	16.93 (430)	7.28 (185)	13.46 (342)	3.74 (95)	4.92 (125)	8.58 (218)	12.6 (320)	9.84 (250)	7.48 (190)	0.59 (15)	8x5/8"	187

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
FN065-270A-0754C	7.5	2.5 (65)	3 (80)	21.72 (552)	3.96 (101)	2.05 (52)	0.67 (17)	9.45 (240)	7.87 (200)	17.32 (440)	7.28 (185)	13.78 (350)	4.72 (120)	6.3 (160)	8.58 (218)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	8x5/8"	209
FN065-270A-1004C	10	2.5 (65)	3 (80)	23.57 (599)	3.96 (101)	2.05 (52)	0.67 (17)	9.45 (240)	7.87 (200)	17.32 (440)	7.28 (185)	13.78 (350)	4.72 (120)	6.3 (160)	8.58 (218)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	8x5/8"	230
FN065-270C-1004C	10	2.5 (65)	3 (80)	23.85 (606)	4.09 (104)	2.05 (52)	0.67 (17)	9.84 (250)	7.87 (200)	17.72 (450)	7.56 (192)	14.37 (365)	4.72 (120)	6.3 (160)	8.58 (218)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	8x5/8"	222
FN065-300B-1504C	10	2.5 (65)	3 (80)	25.11 (638)	4.96 (126)	2.44 (62)	0.59 (15)	10.83 (275)	8.86 (225)	19.69 (500)	8.27 (210)	15.79 (401)	4.72 (120)	6.3 (160)	8.58 (218)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	272
FN065-300B-2004C	20	2.5 (65)	3 (80)	27.27 (693)	4.96 (126)	2.44 (62)	0.59 (15)	10.83 (275)	8.86 (225)	19.69 (500)	8.27 (210)	15.79 (401)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	370
FN080-170A-0304C	3	3 (80)	4 (100)	20.94 (532)	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)	6.89 (175)	12.6 (320)	9.84 (250)	7.48 (190)	0.75 (19)	-	140
FN080-170A-0504C	5	3 (80)	4 (100)	22.59 (574)	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)	7.56 (192)	12.6 (320)	9.84 (250)	7.48 (190)	0.75 (19)	-	172
FN080-210A-0754C	7.5	3 (80)	4 (100)	22.76 (578)	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"	167
FN080-210A-1004C	10	3 (80)	4 (100)	24.6 (625)	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"	184
FN080-255A-0504C	5	3 (80)	4 (100)	21.38 (543)	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)	7.56 (192)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	227
FN080-255A-0754C	7.5	3 (80)	4 (100)	22.64 (575)	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"	224
FN080-255A-1004C	10	3 (80)	4 (100)	24.49 (622)	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"	231
FN080-330A-2004C	20	3 (80)	4 (100)	27.71 (704)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	9.76 (248)	18.15 (461)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	440
FN080-330A-2504C	25	3 (80)	4 (100)	30.19 (767)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	10.31 (262)	18.7 (475)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	712
FN080-330A-3004C	30	3 (80)	4 (100)	34.37 (873)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	10.31 (262)	18.7 (475)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	719
FN080-330A-4004C	40	3 (80)	4 (100)	34.37 (873)	4.92 (125)	2.13 (54)	0.59 (15)	12.4 (315)	9.84 (250)	22.24 (565)	10.31 (262)	18.7 (475)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	748
FN100-180A-0504C	5	4 (100)	5 (125)	23.3 (592)	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)	7.56 (192)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	203
FN100-180A-0754C	7.5	4 (100)	5 (125)	24.56 (624)	5.94 (151)	3.15 (80)	0.75 (19)	11.02 (280)	7.87 (200)	18.9 (480)	7.28 (185)	12.83 (326)	4.72 (120)	6.3 (160)	8.58 (218)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	212
FN100-180B-0504C	5	4 (100)	5 (125)	23.05 (586)	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)	7.56 (192)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	196
FN100-210A-1004C	10	4 (100)	5 (125)	25.74 (654)	5.96 (152)	3.66 (93)	0.79 (20)	11.02 (280)	7.87 (200)	18.9 (480)	7.76 (197)	14.13 (359)	4.72 (120)	6.3 (160)	8.58 (218)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	185

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
FN100-210A-1504C	15	4 (100)	5 (125)	27.98 (711)	5.96 (152)	3.66 (93)	0.79 (20)	11.02 (280)	7.87 (200)	18.9 (480)	8.19 (208)	14.57 (370)	4.72 (120)	6.3 (160)	9.92 (252)	14.17 (360)	11.02 (280)	7.87 (200)	0.75 (19)	-	267
FN100-240A-1004C	10	4 (100)	5 (125)	25.15 (639)	5.55 (141)	3.35 (85)	0.59 (15)	11.02 (280)	8.86 (225)	19.88 (505)	7.95 (202)	14.49 (368)	4.72 (120)	6.3 (160)	8.58 (218)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	232
FN100-240A-1504C	15	4 (100)	5 (125)	27.4 (696)	5.55 (141)	3.35 (85)	0.59 (15)	11.02 (280)	8.86 (225)	19.88 (505)	8.19 (208)	14.72 (374)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	315
FN100-270A-1004C	10	4 (100)	5 (125)	25.04 (636)	5.53 (141)	3.39 (86)	0.59 (15)	10.63 (270)	8.86 (225)	19.49 (495)	7.76 (197)	14.49 (368)	4.72 (120)	6.3 (160)	8.58 (218)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	252
FN100-270A-1504C	15	4 (100)	5 (125)	27.28 (693)	5.53 (141)	3.39 (86)	0.59 (15)	10.63 (270)	8.86 (225)	19.49 (495)	8.19 (208)	14.92 (379)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	332
FN100-330A-3004C	30	4 (100)	5 (125)	33.94 (862)	5.53 (141)	2.95 (75)	0.67 (17)	12.4 (315)	9.84 (250)	22.24 (565)	10.31 (262)	18.54 (471)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	714
FN100-330A-4004C	40	4 (100)	5 (125)	33.94 (862)	5.53 (141)	2.95 (75)	0.67 (17)	12.4 (315)	9.84 (250)	22.24 (565)	10.31 (262)	18.54 (471)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	764
FN100-330C-2004C	20	4 (100)	5 (125)	27.83 (707)	5.51 (140)	3.19 (81)	0.75 (19)	12.4 (315)	9.84 (250)	22.24 (565)	8.86 (225)	16.73 (425)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	418
FN100-330C-2504C	25	4 (100)	5 (125)	30.31 (770)	5.51 (140)	3.19 (81)	0.75 (19)	12.4 (315)	9.84 (250)	22.24 (565)	10.31 (262)	18.19 (462)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x5/8"	712
FN125-250A-0504C	5	5 (125)	6 (150)	22.07 (561)	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)	7.56 (192)	15.75 (400)	12.4 (315)	9.45 (240)	0.71 (18)	-	265
FN125-250A-0754C	7.5	5 (125)	6 (150)	23.33 (593)	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)	-	268
FN125-250A-1004C	10	5 (125)	6 (150)	25.18 (640)	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)	-	274
FN125-250A-1504C	15	5 (125)	6 (150)	27.42 (697)	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)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.71 (18)	-	356
FN125-270A-1504C	15	5 (125)	6 (150)	27.65 (703)	5.53 (141)	3.03 (77)	0.59 (15)	13.98 (355)	9.84 (250)	23.82 (605)	8.23 (209)	15.31 (389)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	361
FN125-270A-2004C	20	5 (125)	6 (150)	27.87 (708)	5.53 (141)	3.03 (77)	0.59 (15)	13.98 (355)	9.84 (250)	23.82 (605)	8.23 (209)	15.31 (389)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	377
FN125-270A-2504C	25	5 (125)	6 (150)	30.35 (771)	5.53 (141)	3.03 (77)	0.59 (15)	13.98 (355)	9.84 (250)	23.82 (605)	10.31 (262)	17.4 (442)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	648
FN125-270B-2004C	20	5 (125)	6 (150)	28.19 (716)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	10.24 (260)	18.5 (470)	4.72 (120)	6.3 (160)	9.92 (252)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	385
FN125-270B-2504C	25	5 (125)	6 (150)	30.67 (779)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	10.31 (262)	18.58 (472)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	673
FN125-270B-3004C	30	5 (125)	6 (150)	33.11 (841)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	10.31 (262)	18.58 (472)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	678
FN125-270B-4004C	40	5 (125)	6 (150)	33.11 (841)	5.55 (141)	2.76 (70)	0.67 (17)	13.98 (355)	9.84 (250)	23.82 (605)	10.31 (262)	18.58 (472)	4.72 (120)	6.3 (160)	12.01 (305)	15.75 (400)	12.4 (315)	9.45 (240)	0.75 (19)	8x3/4"	707

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
FN125-330A-4004C	40	5 (125)	6 (150)	33.94 (862)	12.32 (313)	2.95 (75)	0.59 (15)	13.19 (335)	11.02 (280)	24.21 (615)	10.31 (262)	18.74 (476)	5.91 (150)	7.87 (200)	12.01 (305)	19.69 (500)	15.75 (400)	11.81 (300)	0.91 (23)	8x3/4"	760
FN150-250A-1004C	10	6 (150)	8 (200)	26.08 (663)	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)	8.58 (218)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	303
FN150-250A-1504C	15	6 (150)	8 (200)	28.33 (720)	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)	9.92 (252)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	389
FN150-250A-2004C	20	6 (150)	8 (200)	28.78 (732)	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)	9.92 (252)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	412
FN150-270B-2504C	25	6 (150)	8 (200)	31.5 (800)	6.34 (161)	-	0.55 (14)	14.76 (375)	12.4 (315)	27.17 (690)	12.32 (313)	22.09 (561)	5.91 (150)	7.87 (200)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	689
FN150-270B-3004C	30	6 (150)	8 (200)	33.94 (862)	6.34 (161)	-	0.55 (14)	14.76 (375)	12.4 (315)	27.17 (690)	12.32 (313)	22.09 (561)	5.91 (150)	7.87 (200)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	696
FN150-270B-4004C	40	6 (150)	8 (200)	33.94 (862)	6.34 (161)	-	0.55 (14)	14.76 (375)	12.4 (315)	27.17 (690)	12.32 (313)	22.09 (561)	5.91 (150)	7.87 (200)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	724
FN150-300A-2504C	25	6 (150)	8 (200)	31.09 (790)	6.34 (161)	-	0.55 (14)	12.99 (330)	11.02 (280)	24.02 (610)	10.51 (267)	18.86 (479)	5.91 (150)	7.87 (200)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	719
FN150-300A-3004C	30	6 (150)	8 (200)	30.93 (786)	6.34 (161)	-	0.55 (14)	12.99 (330)	11.02 (280)	24.02 (610)	10.51 (267)	18.86 (479)	5.91 (150)	7.87 (200)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	755
FN150-300A-4004C	40	6 (150)	8 (200)	30.93 (786)	6.34 (161)	-	0.55 (14)	12.99 (330)	11.02 (280)	24.02 (610)	10.51 (267)	18.86 (479)	5.91 (150)	7.87 (200)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	784
FN200-250A-1504C	15	8 (200)	10 (250)	28.9 (734)	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)	9.92 (252)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	395
FN200-250A-2004C	20	8 (200)	10 (250)	29.35 (746)	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)	9.92 (252)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	409
FN200-250A-2504C	25	8 (200)	10 (250)	31.83 (809)	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)	12.01 (305)	21.65 (550)	17.72 (450)	13.78 (350)	0.87 (22)	-	681
FN200-270B-2004C	20	8 (200)	10 (250)	30.52 (776)	6.75 (172)	3.66 (93)	0.79 (20)	14.57 (370)	11.02 (280)	25.59 (650)	11.22 (285)	19.92 (506)	5.91 (150)	7.87 (200)	9.92 (252)	19.69 (500)	15.75 (400)	11.81 (300)	0.91 (23)	-	466
FN200-270B-3004C	30	8 (200)	10 (250)	35.81 (910)	6.75 (172)	3.66 (93)	0.79 (20)	14.57 (370)	11.02 (280)	25.59 (650)	11.22 (285)	19.92 (506)	5.91 (150)	7.87 (200)	12.01 (305)	19.69 (500)	15.75 (400)	11.81 (300)	0.91 (23)	-	741
FN200-270B-4004C	40	8 (200)	10 (250)	35.81 (910)	6.75 (172)	3.66 (93)	0.79 (20)	14.57 (370)	11.02 (280)	25.59 (650)	11.22 (285)	19.92 (506)	5.91 (150)	7.87 (200)	12.01 (305)	19.69 (500)	15.75 (400)	11.81 (300)	0.91 (23)	-	770

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.

TECHNICAL DATA

60 Hz: 1,800 rpm (460 V)

Motor power (HP)	Voltage (V)	Frequency (Hz)	Maximum current consumption (A)	Maximum power consumption (hp)
2	460	60	3.5	3
3	460	60	4.61	4
5	460	60	7.3	6 1/3
7.5	460	60	11	9 1/2
10	460	60	15.1	12 3/8
15	460	60	20	17 3/4
20	460	60	27	23 3/8
25	460	60	31.5	28
30	460	60	37.8	33 1/2
40	460	60	49.6	45

Noise emission

Motor power (hp)	Noise emission dB (A)
2	53
3	53
5	53
7.5	53
10	53
15	56
20	54
25	56
30	56
40	56

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

TECHNICAL DATA

Pumpe performance

Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN032-250A-0304C-W2B	FN032-250A	3	1,800	76.7	63.3	0.78	7.99
FN032-250A-0504C-W2B	FN032-250A	5	1,800	97.6	92.8	0.66	9.45
FN032-250B-0504C-W2B	FN032-250B	5	1,800	86.6	82.3	0.65	8.9
FN040-220A-0304C-W2B	FN040-220A	3	1,800	109.5	55.2	0.75	7.48
FN040-270A-0504C-W2B	FN040-270A	5	1,800	167.7	63.9	0.79	8.58
FN040-270A-0754C-W2B	FN040-270A	7.5	1,800	195.5	84.9	0.78	9.61
FN040-270A-1004C-W2B	FN040-270A	10	1,800	228.6	95	0.84	10.35
FN040-270B-0504C-W2B	FN040-270B	5	1,800	149.7	57.1	0.78	8.11
FN050-190A-0304C-W2B	FN050-190A	3	1,800	153	41.2	0.79	6.26
FN050-190A-0504C-W2B	FN050-190A	5	1,800	179.3	61.6	0.68	7.48
FN050-190B-0504C-W2B	FN050-190B	5	1,800	187.6	52.5	0.78	7.01
FN050-240A-0304C-W2B	FN050-240A	3	1,800	104.9	48.1	0.91	7.2
FN050-240A-0504C-W2B	FN050-240A	5	1,800	153.1	76.7	0.69	8.74
FN050-240B-0504C-W2B	FN050-240B	5	1,800	128	60.1	0.75	7.87
FN065-200A-0304C-W2B	FN065-200A	3	1,800	155.3	40.8	0.79	6.42
FN065-200A-0504C-W2B	FN065-200A	5	1,800	174.9	61.6	0.7	7.56
FN065-220A-0504C-W2B	FN065-220A	5	1,800	242.4	51.5	0.73	7.44
FN065-220A-0754C-W2B	FN065-220A	7.5	1,800	297.3	65.5	0.76	8.27
FN065-220B-0504C-W2B	FN065-220B	5	1,800	208.6	42.7	0.75	6.77
FN065-240A-0754C-W2B	FN065-240A	7.5	1,800	253.3	74.4	0.77	8.74
FN065-270A-0754C-W2B	FN065-270A	7.5	1,800	194.7	79.3	0.76	8.86
FN065-270A-1004C-W2B	FN065-270A	10	1,800	204.8	93.4	0.77	9.61
FN065-270C-1004C-W2B	FN065-270C	10	1,800	309.3	80.4	0.82	9.33
FN065-300B-1504C-W2B	FN065-300B	15	1,800	351	100	0.83	10.24
FN065-300B-2004C-W2B	FN065-300B	20	1,800	410.5	125.4	0.84	11.22
FN080-170A-0304C-W2B	FN080-170A	3	1,800	352.1	26	0.81	5.83
FN080-170A-0504C-W2B	FN080-170A	5	1,800	448.7	35.8	0.76	6.69
FN080-210A-0754C-W2B	FN080-210A	7.5	1,800	424.3	47.5	0.83	7.13
FN080-210A-1004C-W2B	FN080-210A	10	1,800	486.3	57.6	0.83	7.68

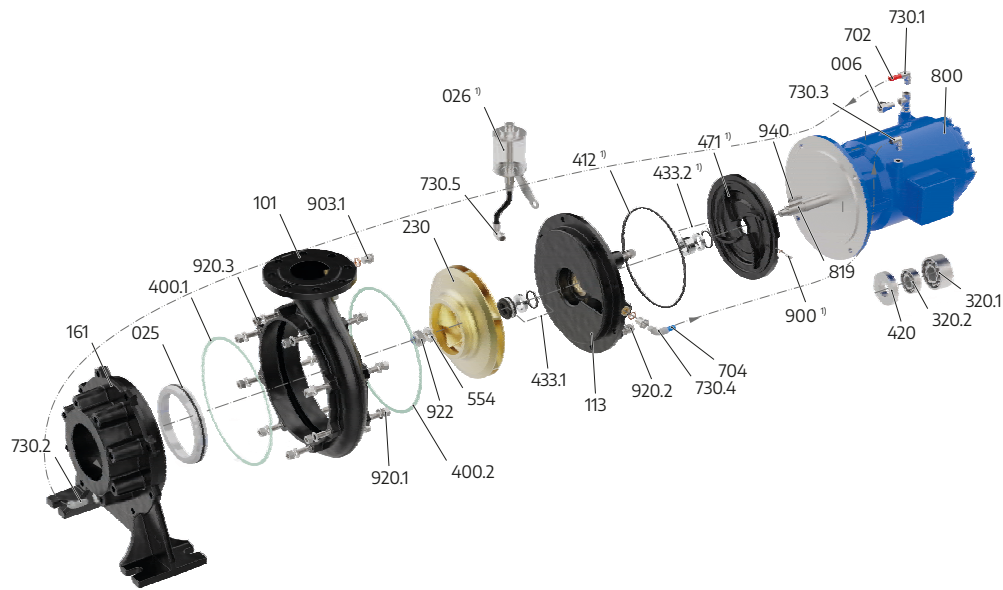
TECHNICAL DATA

Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN080-255A-0504C-W2B	FN080-255A	5	1,800	251.7	50.3	0.75	7.87
FN080-255A-0754C-W2B	FN080-255A	7.5	1,800	330.3	64	0.79	8.86
FN080-255A-1004C-W2B	FN080-255A	10	1,800	377.1	72.7	0.83	9.49
FN080-330A-2004C-W2B	FN080-330A	20	1,800	635.8	80.8	0.95	10.16
FN080-330A-2504C-W2B	FN080-330A	25	1,800	654.7	98.9	0.93	10.91
FN080-330A-3004C-W2B	FN080-330A	30	1,800	863.7	105.3	0.85	11.54
FN080-330A-4004C-W2B	FN080-330A	40	1,800	847.8	126.5	0.93	12.17
FN100-180A-0504C-W2B	FN100-180A	5	1,800	541.4	28.9	0.78	6.14
FN100-180A-0754C-W2B	FN100-180A	7.5	1,800	619.6	38.7	0.8	6.65
FN100-180B-0504C-W2B	FN100-180B	5	1,800	467.7	25	0.76	5.71
FN100-210A-1004C-W2B	FN100-210A	10	1,800	649.7	41.9	0.95	7.17
FN100-210A-1504C-W2B	FN100-210A	15	1,800	757.5	57.9	0.87	8.15
FN100-240A-1004C-W2B	FN100-240A	10	1,800	390.6	63.6	0.84	8.46
FN100-240A-1504C-W2B	FN100-240A	15	1,800	475.2	76.9	0.83	9.45
FN100-270A-1004C-W2B	FN100-270A	10	1,800	413.2	59.4	0.87	7.95
FN100-270A-1504C-W2B	FN100-270A	15	1,800	478.8	75.3	0.86	8.98
FN100-330A-3004C-W2B	FN100-330A	30	1,800	613	136	0.81	11.65
FN100-330A-4004C-W2B	FN100-330A	40	1,800	651.3	161.9	0.85	12.6
FN100-330C-2004C-W2B	FN100-330C	20	1,800	358	97.6	0.87	10.31
FN100-330C-2504C-W2B	FN100-330C	25	1,800	434.7	114.5	0.87	11.26
FN125-250A-0504C-W2B	FN125-250A	5	1,800	572.7	29	0.81	6.61
FN125-250A-0754C-W2B	FN125-250A	7.5	1,800	666	36	0.85	7.28
FN125-250A-1004C-W2B	FN125-250A	10	1,800	752.9	42.6	0.87	7.95
FN125-250A-1504C-W2B	FN125-250A	15	1,800	852.4	48.2	0.88	8.5
FN125-270A-1504C-W2B	FN125-270A	15	1,800	647.8	61.2	0.96	8.66
FN125-270A-2004C-W2B	FN125-270A	20	1,800	684.3	79.6	0.88	9.65
FN125-270A-2504C-W2B	FN125-270A	25	1,800	681.2	87.3	0.9	9.65
FN125-270B-2004C-W2B	FN125-270B	20	1,800	1061.2	54.8	0.92	8.27
FN125-270B-2504C-W2B	FN125-270B	25	1,800	1043.1	69.5	0.88	8.94
FN125-270B-3004C-W2B	FN125-270B	30	1,800	1245.6	77.2	0.81	9.49
FN125-270B-4004C-W2B	FN125-270B	40	1,800	1270.8	84.3	0.86	9.8

TECHNICAL DATA

Type	Model	Motor power [hp]	Nominal speed [rpm]	Q _{BEP} [US g.p.m.]	H _{BEP} [ft]	PEI _{CL}	Ø Impeller [inch]
FN125-330A-4004C-W2B	FN125-330A	40	1,800	842.5	107.9	0.96	10.35
FN150-250A-1004C-W2B	FN150-250A	10	1,800	806.2	40.5	0.84	7.56
FN150-250A-1504C-W2B	FN150-250A	15	1,800	975.2	47.5	0.89	8.5
FN150-250A-2004C-W2B	FN150-250A	20	1,800	1047.9	58.1	0.92	9.06
FN150-270B-2504C-W2B	FN150-270B	25	1,800	1530.4	41.5	1	8.86
FN150-270B-3004C-W2B	FN150-270B	30	1,800	1728	57.1	0.86	8.98
FN150-270B-4004C-W2B	FN150-270B	40	1,800	1815.1	65.6	0.94	9.41
FN150-300A-2504C-W2B	FN150-300A	25	1,800	1035.2	72.6	0.91	9.76
FN150-300A-3004C-W2B	FN150-300A	30	1,800	1164.6	86	0.86	10.24
FN150-300A-4004C-W2B	FN150-300A	40	1,800	1329	94.3	0.91	10.83
FN200-250A-1504C-W2B	FN200-250A	15	1,800	1262.3	41.8	0.9	8.46
FN200-250A-2004C-W2B	FN200-250A	20	1,800	1394.8	46.2	0.9	8.9
FN200-250A-2504C-W2B	FN200-250A	25	1,800	1559.8	51.6	0.92	9.45
FN200-270B-2004C-W2B	FN200-270B	20	1,800	1672.6	39.8	0.96	8.82
FN200-270B-3004C-W2B	FN200-270B	30	1,800	1764.8	59.7	0.85	9.06
FN200-270B-4004C-W2B	FN200-270B	40	1,800	1887.8	67.7	0.91	9.65

EXPLODED VIEW



Individual parts

006	Ball valve
025	Impeller protector
026 ¹⁾	Seal Guard System
101	Pump casing
113	Intermediate casing
161	Casing cover
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
702	Return pipe
704	Cooling water pipe
730.1	Pipe connection
730.2	Pipe connection
730.3	Pipe connection
730.4	Pipe connection
730.5	Pipe connection
800	Motor
819	Motor shaft
831	Fan
832	Fan hood
900 ¹⁾	Screw
903.1	Screwed plug
903.2	Screwed plug
920.1	Nut
920.2	Nut
920.3	Nut
922	Impeller nut
940	Key

¹⁾ Special model/ accessories

²⁾ Motor ≥ 440lb

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. Frequency converters are 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 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.



Analoge Druckanzeige

The analog pressure gauge is used to display the pressure on the pressure side of the pump. The operator thus has a simple possibility to check the functionality of the pumps.



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