PRODUCT CATALOG

Franklin Electric

FN SERIES 50 HZ

END SUCTION CENTRIFUGAL PUMPS EN733

franklinwater.eu

FPS

MENU

FPS

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End suction centrifugal pumps EN733

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End suction centrifugal pumps EN733

FEATURES & BENEFITS

APPLICATIONS

Water Distribution
Water treatment
Water supply

Irrigation

Industrial plants

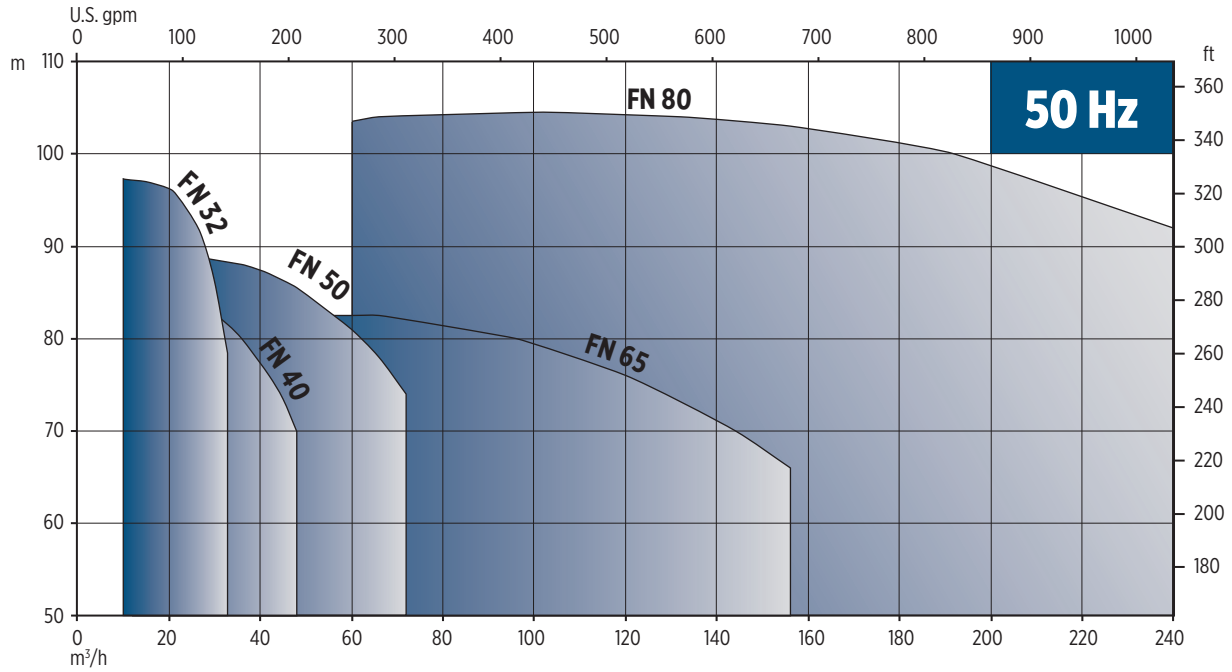
END-SUCTION CENTRIFUGAL ELECTRIC PUMPS BUILT FROM CAST IRON WITH IMPELLER THAT FEATURES A CATAPHORESIS COATING

The FN Series end-suction centrifugal electric pumps are specifically engineered for pumping clean liquids that are free from abrasives and suspended solids, in non-explosive environments.

Model:		FNC End suction extended shaft centrifugal pumps EN 733	FNS Stub shaft centrifugal pumps EN 733
Description:		Close-Coupled Electric Pumps with extended shaft motor.	Rigid coupled with bracket, adapter and rigid coupling keyed to standard motor shaft extension.
Frequency:		50 Hz	
Maximum liquid temperature:		up to 90°C for domestic use	
		up to 120°C for industrial use	
Application range [m³/h]:		3 - 180	9 - 240
Max. head [m]:		90	100
Maximum operating pressure [bar]:		PN10	
Motor power range [kW]:		1,1 - 22	5,5 - 75
Motor type:		Asynchronous squirrel-cage motor with external ventilation Motor protection for three-phase motors must be installed by the customer (it is recommended to use a equipment complying with current standards).	
Motor standard voltage:		230/400V up to 4kW	
		400/690V from 5,5 kW	
Efficiency Motor Class:		IE3	
Insulation class:		F	F (B)
Protection Degree:		IP54	IP55
Service factor:		S1	
Motor protection:		-	PTC 155 °C probe as standard starting from 11 kW
Reference standard:		■ ErP 547/2012 (MEI > 0,4) ■ 640/2009 (Motors efficiency class IE3) ■ UNI EN 733 (DIN 24255)	
Materials	**Pump body:**	Cast-iron GJL20 with anti-corrosive coating	
	Impeller:	Cast-iron GJL20 with cataphoresis coating impeller. FNC 32-125 and 32-160 models: brass impeller.	Cast-iron GJL20 with anti-corrosive coating
	Pump shaft:	AISI 304	AISI 303
	Mechanical seal:	Carbon / Ceramic / NBR	
Construction	**Suction/delivery ports:**	according to standard EN1092-2	

End suction centrifugal pumps EN733

FAMILY CURVES



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PRODUCT IDENTIFICATION CODE

	32	-	200	/	055	T	5	C	-	VBP

Mechanical seal: VBP: Ceramic/Graphite/NBR (Standard version)
QBE: Silicon carbide/Graphite/EPDM
QBV: Silicon carbide/Graphite/FKM
QUE: Silicon carbide/Tungsten carbide/EPDM
QUV: Silicon carbide/Tungsten carbide/FKM

Voltage: "B" (230/400V; Three-phase; 50Hz)
"C" (400/690V; Three-phase; 50Hz)

Frequency: "5" (50 Hz)

"T" (Three-Phase)

Power [kWx10]

Impellers nominal diameter

Discharge diameter

Pump model: FNC - End suction extended shaft centrifugal pumps EN 733
FNS - Stub Shaft Pumps centrifugal pumps EN 733

00140059 05/2025

The FNS model is available with different motor versions (only upon request):

- 60 Hz
- 4 poles

Motor specification

MOTORS FOR FNC

Three-phase motors

- Protection: IP54
- Maximum ambient temperature: 40 °C
- Insulation class: F
- High efficiency three-phase motors IE3
- Standard voltage: up to 4kW 230/400V, from 5.5kW 400/690V

Pump model	Power P_2		V nom. [V]	η [%]	cos ϕ	I max [A]	I min [A]	P_1 [kW]	rpm [min $^{-1}$]
	[kW]	[HP]							
FNC 32 125	1,1	1,5	230/400	82,7	0,76	4,6	2,6	1,4	2900
	1,5	2	230/400	84,2	0,76	6	3,4	1,7	2900
FNC 32 160	2,2	3	230/400	86,5	0,79	7,9	4,5	2,4	2900
	3	4	230/400	87,1	0,78	12,2	7	3,7	2900
FNC 32 200	4	5,5	230/400	88,1	0,81	13	7,5	5,4	2900
	5,5	7,5	400/690	89,2	0,88	10,5	6,1	6,3	2900
	7,5	10	400/690	90,1	0,89	14,5	8	8,5	2900
FNC 32 250	9,2	12,5	400/690	90,7	0,86	18,1	10,4	10,2	2900
	11	15	400/690	91,2	0,84	21,8	12,7	12,9	2900
	15	20	400/690	91,9	0,86	28,5	16,6	15,3	2900
FNC 40 125	1,5	2	230/400	84,2	0,76	6,3	3,6	2,1	2900
	2,2	3	230/400	86,5	0,79	9,1	5,2	2,7	2900
	3	4	230/400	87,1	0,78	12,1	7	4,1	2900
FNC 40 160	3	4	230/400	87,1	0,78	12,1	7	4,6	2900
	4	5,5	230/400	88,1	0,81	13	7,5	5,3	2900
FNC 40 200	5,5	7,5	400/690	89,2	0,88	10,9	6,4	7,6	2900
	7,5	10	400/690	90,1	0,89	14,5	8	9,5	2900
FNC 40 250	11	15	400/690	91,2	0,84	21,8	12,7	14,3	2900
	15	20	400/690	91,9	0,86	30,1	17,5	18	2900
FNC 50 125	2,2	3	230/400	86,5	0,79	10,1	5,8	3,2	2900
	3	4	230/400	87,1	0,78	12,2	7	4,1	2900
	4	5,5	230/400	88,1	0,81	13	7,5	4,5	2900
FNC 50 160	5,5	7,5	400/690	89,2	0,88	10,9	6,4	5,9	2900
	7,5	10	400/690	90,1	0,89	14,5	8	7,8	2900
FNC 50 200	9,2	12,5	400/690	90,7	0,86	17,1	9,8	10,5	2900
	11	15	400/690	91,2	0,84	21,4	12,4	11,9	2900
	15	20	400/690	91,9	0,86	28,1	16,3	13,9	2900
FNC 50 250	15	20	400/690	91,9	0,86	30,5	17,7	19,9	2900
	18,5	25	400/690	92,4	0,86	34	19,7	22,8	2900
	22	30	400/690	91,9	0,86	41	22,9	24	2900
FNC 65 125	5,5	7,5	400/690	89,2	0,88	11,4	6,4	5,9	2900
	7,5	10	400/690	90,1	0,89	13,9	8	7,8	2900
FNC 65 160	9,2	12,5	400/690	90,7	0,86	17,1	9,8	10,5	2900
	11	15	400/690	91,2	0,84	21,4	12,4	11,9	2900
	15	20	400/690	91,9	0,86	28,9	17,7	19,9	2900
FNC 65 200	15	20	400/690	91,9	0,86	28,9	17,7	19,9	2900
	18,5	25	400/690	92,4	0,86	34	19,7	22,8	2900
	22	30	400/690	91,9	0,86	41	22,9	24	2940
FNC 80 160	11	15	400/690	91,2	0,84	21,4	12,4	11,9	2900
	15	20	400/690	91,9	0,86	28,9	17,7	19,9	2900
	18,5	25	400/690	92,4	0,86	34	19,7	22,8	2900
	22	30	400/690	91,9	0,86	41	22,9	24	2940

Motor specification

MOTORS FOR FNS

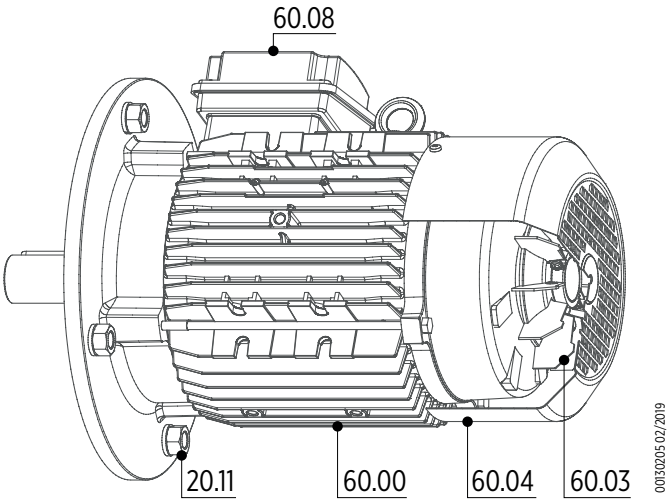
Three-phase motors (standard motor construction)

- Protection: IP55
- Max. ambient temperature: 40°C
- Insulation class: F
- Dimension: B35
- High efficiency three-phase motors IE3
- The standard design includes the following basic features to provide a high level of flexibility:
  - Multi-mount construction for easy change of terminal box position;
  - Terminal box rotates by 90° to allow cable entry from any direction.

Power P_2		IEC size	Flange Design	I_N [A]			400 V - 50 Hz					
[kW]	[HP]			Δ 400 V	Y 690 V	rpm [min^{-1}]	M_N [Nm]	η [%]	cos ϕ	I_A/I_N	M_A/M_N	Weight [kg]
5,5	**7,5**	B35	132	10,2	5,9	2920	18	89,2	0,9	8,9	3	46
7,5	**10**	B35	132	14,4	8,3	2910	24,6	90,1	0,92	8,9	3	53
9,2	**12,5**	B35	132	16,5	9,6	2930	30	90,7	0,89	10,1	3,7	58
11	**15**	B35	160	19,9	11,5	2950	35,6	91,2	0,89	9,1	4	57,8
15	**20**	B35	160	26,8	15,5	2940	48,7	91,9	0,89	9,7	4,7	88,9
18,5	**25**	B35	160	33	19,1	2950	59,9	92,4	0,88	10,7	4,6	104
22	**30**	B35	160	39,4	22,8	2950	71,3	92,7	0,87	10,4	4,5	104
30	**40**	B35	200	52	30	2945	97	93,3	0,89	8,5	2,5	226
37	**50**	B35	200	64	36,95	2945	119	93,7	0,89	8,5	2,5	244
45	**60**	B35	200	76	43,87	2950	145	94	0,91	8,5	2,5	312
55	**75**	B35	250	94	54	2960	177	94,3	0,9	9,6	2,5	396
75	**100**	B35	280	126	72,74	2960	241	94,7	0,91	8,8	2,5	531

Motor specification

MOTOR SPARE PARTS



Ref. No.	Parts description
20.11	Lifting eyelets and bolts
60.00	Casing complete with stator
60.03	Fan
60.04	Fan cover and screws
60.08	Terminal box cover and base

NEW INTERNATIONAL EFFICIENCY CLASSES OF MOTORS - IE CODE

- The new IEC 60034-30:2008 defines the efficiency classes of motors worldwide.
- IE2 = High Efficiency (comparable to EFF1)
- IE3 = Premium Efficiency
- The efficiency levels according to IEC 60034-30 are measured based on the test methods defined in IEC 60034-2-1:2007.
- The IEC 60034-30 standard only defines requirements for efficiency classes and aims to establish provisions for international consistency. It does not define which motors must be supplied with which efficiency level. This is subject to respective regional legislation.

Power [kW]	IE2 code Standard Efficiency			IE3 code Standard Efficiency		
	2 poles	4 poles	6 poles	2 poles	4 poles	6 poles
0,75	77,4	79,6	75,9	80,7	82,5	78,9
1,1	79,6	81,4	78,1	82,7	84,1	81
1,5	81,3	82,8	79,8	84,2	85,3	82,5
2,2	83,2	84,3	81,8	85,9	86,7	84,3
3	84,6	85,5	83,3	87,1	87,7	85,6
4	85,8	86,6	84,6	88,1	88,6	86,8
5,5	87	87,7	86	89,2	89,6	88
7,5	88,1	88,7	87,2	90,1	90,4	89,1
11	89,4	89,8	88,7	91,2	91,4	90,3
15	90,3	90,6	89,7	91,9	92,1	91,2
18,5	90,9	91,2	90,4	92,4	92,6	91,7
22	91,3	91,6	90,9	92,7	93	92,2
30	92	92,3	91,7	93,3	93,6	92,9
37	92,5	92,7	92,2	93,7	93,9	93,3
45	92,9	93,1	92,7	94	94,2	93,7

Efficiency values according to IEC 60034-30;2008
Efficiency standard calculation: IEC 60034-2-1;2007

Motor specification

NOISE

The noise level of an electrical machine is determined by measuring the sound pressure level in accordance with curve A of the sound level meter to EN 60651 and is indicated in dB (A). The permitted noise levels of electrical machines are fixed in EN 60034-9 (IEC 34-9). The noise level of the motors is below these limit values. Structure-borne sound measurements are carried out in an an anechoic testing chamber to EN 21680-ISO 1680. The speed is corresponding to a main frequency of 50 Hz and the number of poles.

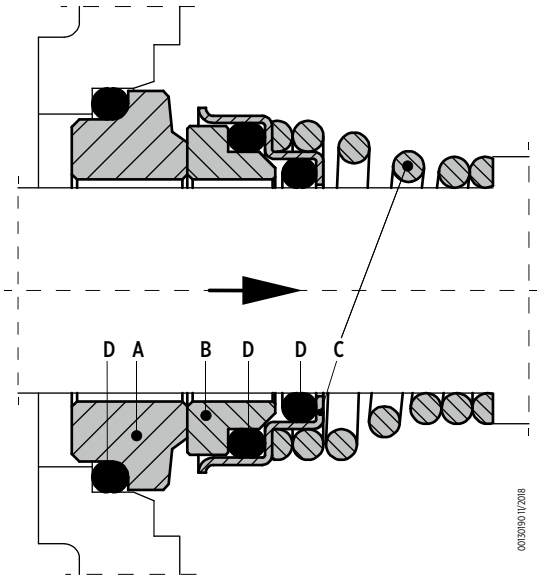
Noise levels

The noise values listed below refer to 50 Hz at rated voltage with a tolerance of up to +3 dB (A). Values for pole-changing motors are available on request. For 60 Hz supply, the values are 3-5 dB (A) higher. Sound pressure level (LpA) and sound power level (LWA) refers to three-phase motors with single-speed, dimensions and output ratings as per IEC 60072.

IEC size	2 poles		4 poles	
	L_{WA}	L_{pA}	L_{WA}	L_{pA}
56	57	48	47	38
63	58	49	47	38
71	61	52	51	42
80	72	60	60	48
90	74	62	61	49
100	78	66	62	50
112	80	68	65	53
132	81	72	71	59
160	87	74	75	62
180	90	77	78	66
200	91	78	80	68
225	92	80	88	76

Mechanical seal specifications

(in accordance with EN 12756)



STANDARD VERSION

Model	Type				Position / Material				Temperature [°C]
					A Stationary part	B Rotating part	C Other components	D Elastomers	
VBP	V	B	G	P	Ceramic	Graphite	AISI 316	NBR	-10°C / +90°C

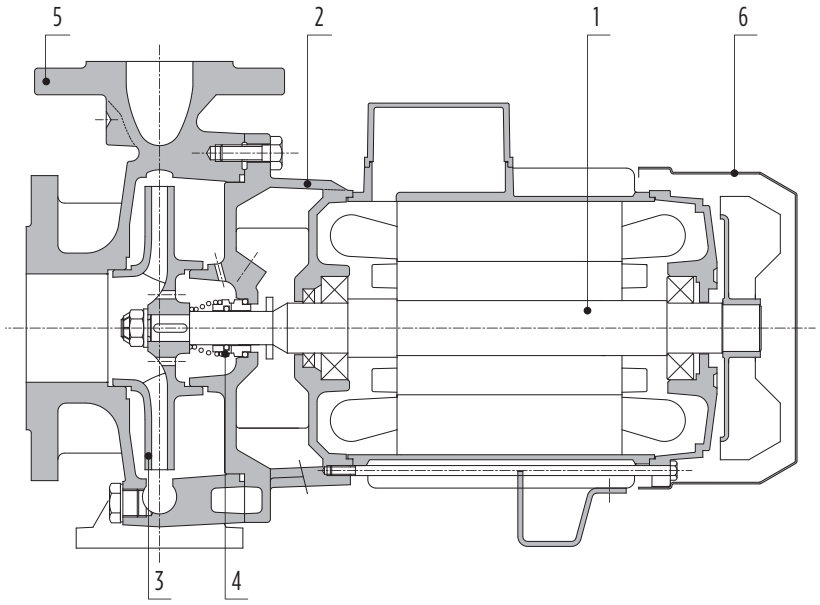
AVAILABLE ON REQUEST

Model	Type				Position / Material				Temperature [°C]
					A Stationary part	B Rotating part	C Other components	D Elastomers	
QBE	Q	B	G	E	Silicon carbide	Graphite	AISI316	EPDM	-20°C / +120°C
QBV	Q	B	G	V	Silicon carbide	Graphite	AISI316	FKM	-20°C / +120°C
QUE	Q	U	G	E	Silicon carbide	Tungsten carbide	AISI316	EPDM	-20°C / +120°C
QUV	Q	U	G	V	Silicon carbide	Tungsten carbide	AISI316	FKM	-20°C / +120°C

Sealing Surfaces	
Type	Material
V	Ceramic
B	Graphite
Q	Silicon carbide
U	Tungsten carbide
Elastomers	
Type	Material
P	NBR
E	EPDM
V	FKM

Spare parts and materials

FNC



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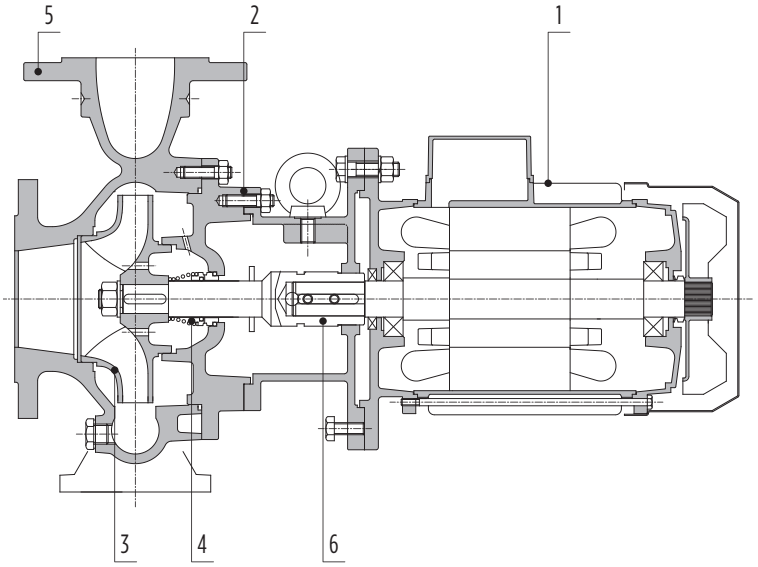
Ref. No.	Parts description	Material
1	**Pump shaft (part in contact with liquid)**	AISI 304
2	**Motor bracket**	Cast iron GJL200
3	**Impeller**	Cast iron GJL200
4	**Mechanical seal**	Carbon / Ceramic / NBR
5	**Pump body**	Cast iron GJL200
6	**Casing complete with stator**	Aluminium

FNS



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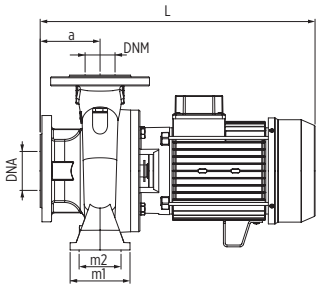
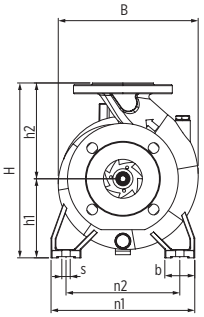
Ref. No.	Parts description	Material
1	**SS Coupling**	AISI 303
2	**Motor bracket**	Cast iron GJL200
3	**Impeller**	Cast iron GJL200
4	**Mechanical seal**	Carbon / Ceramic / NBR
5	**Pump body**	Cast iron GJL200
6	**Motor**	See section “Motor specfication”

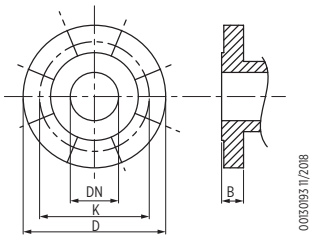
FNC - Technical data and dimensions

Flange					
Dimensions [mm]				Holes	
DN	K	D	B	n°	Ø
32	100	140	18	4	18
40	110	150	18	4	18
50	125	165	19	4	18
65	145	185	19	4	18
80	160	200	22	8	18
100	180	220	24	8	18



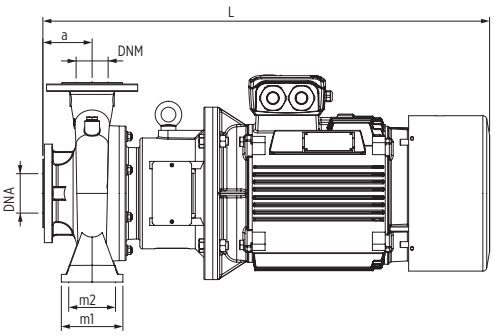


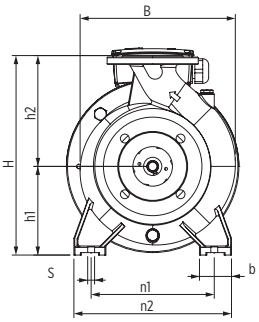
Pump model	Dimensions [mm]													
	DNA	DNM	a	b	s	L	B	H	n1	n2	m1	m2	h1	h2
FNC 32-125/011 T5B VBP	50	32	80	50	14	400	203	252	190	140	100	70	112	140
FNC 32-125/015 T5B VBP	50	32	80	50	14	400	203	252	190	140	100	70	112	140
FNC 32-160/022 T5B VBP	50	32	80	50	14	437	240	292	240	190	100	70	132	160
FNC 32-160/030 T5B VBP	50	32	80	50	14	400	240	292	240	190	100	70	132	160
FNC 32-200/040 T5B VBP	50	32	80	50	14	468	273	340	240	190	100	70	160	180
FNC 32-200/055 T5C VBP	50	32	80	50	14	495	273	340	240	190	100	70	160	180
FNC 32-200/075 T5C VBP	50	32	80	50	14	537	273	340	240	190	100	70	160	180
FNC 32-250/092 T5C VBP	50	32	100	65	14	561	326	405	320	250	125	95	180	225
FNC 32-250/110 T5C VBP	50	32	100	65	14	600	326	405	320	250	125	95	180	225
FNC 32-250/150 T5C VBP	50	32	100	65	14	682	326	405	320	250	125	95	180	225
FNC 40-125/015 T5B VBP	65	40	80	50	14	400	216	252	210	160	100	70	112	140
FNC 40-125/022 T5B VBP	65	40	80	50	14	437	216	252	210	160	100	70	112	140
FNC 40-125/030 T5B VBP	65	40	80	50	14	463	216	252	210	160	100	70	112	140
FNC 40-160/030 T5B VBP	65	40	80	50	14	463	242	292	240	190	100	70	132	160
FNC 40-160/040 T5B VBP	65	40	80	50	14	463	242	292	240	190	100	70	132	160
FNC 40-200/055 T5C VBP	65	40	100	50	14	515	278	340	265	212	100	70	160	180
FNC 40-200/075 T5C VBP	65	40	100	50	14	557	278	340	265	212	100	70	160	180
FNC 40-250/110 T5C VBP	65	40	100	65	14	600	328	405	320	250	125	95	180	225
FNC 40-250/150 T5C VBP	65	40	100	65	14	682	328	405	320	250	125	95	180	225
FNC 50-125/022 T5B VBP	65	50	100	50	14	457	248	292	240	190	100	70	132	160
FNC 50-125/030 T5B VBP	65	50	100	50	14	483	248	292	240	190	100	70	132	160
FNC 50-125/040 T5B VBP	65	50	100	50	14	483	248	292	240	190	100	70	132	160
FNC 50-160/055 T5C VBP	65	50	100	50	14	515	268	340	265	212	100	70	160	180
FNC 50-160/075 T5C VBP	65	50	100	50	14	557	268	340	265	212	100	70	160	180
FNC 50-200/092 T5C VBP	65	50	100	50	14	561	290	360	265	212	100	70	160	200
FNC 50-200/110 T5C VBP	65	50	100	50	14	600	290	360	265	212	100	70	160	200
FNC 50-200/150 T5C VBP	65	50	100	50	14	682	290	360	265	212	100	70	160	200
FNC 50-250/150 T5C VBP	65	50	100	65	14	682	334	405	320	250	125	95	180	225
FNC 50-250/185 T5C VBP	65	50	100	65	14	682	334	405	320	250	125	95	180	225
FNC 50-250/220 T5C VBP	65	50	100	65	14	726	334	405	320	250	125	95	180	225
FNC 65-125/055 T5C VBP	80	65	100	65	14	515	283	340	280	212	125	95	160	180
FNC 65-125/075 T5C VBP	80	65	100	65	14	557	283	340	280	212	125	95	160	180
FNC 65-160/092 T5C VBP	80	65	100	65	14	565	290	360	280	212	125	95	160	200
FNC 65-160/110 T5C VBP	80	65	100	65	14	605	290	360	280	212	125	95	160	200
FNC 65-160/150 T5C VBP	80	65	100	65	14	686	290	360	280	212	125	95	160	200
FNC 65-200/150 T5C VBP	80	65	100	65	14	686	330	405	320	250	125	95	180	225
FNC 65-200/185 T5C VBP	80	65	100	65	14	686	330	405	320	250	125	95	180	225
FNC 65-200/220 T5C VBP	80	65	100	65	14	730	330	405	320	250	125	95	180	225
FNC 80-160/110 T5C VBP	100	80	125	65	14	628	330	405	320	250	125	95	180	225
FNC 80-160/150 T5C VBP	100	80	125	65	14	710	330	405	320	250	125	95	180	225
FNC 80-160/185 T5C VBP	100	80	125	65	14	710	330	405	320	250	125	95	180	225
FNC 80-160/220 T5C VBP	100	80	125	65	14	755	330	405	320	250	125	95	180	225



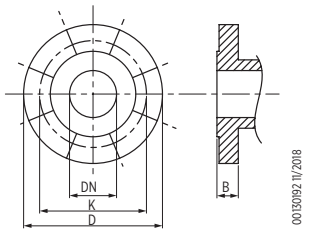
FNS - Technical data and dimensions

Flange					
Dimensions [mm]				Holes	
DN	K	D	B	n°	Ø
32	100	140	18	4	18
40	110	150	18	4	18
50	125	165	19	4	18
65	145	185	19	4	18
80	160	200	22	8	18
100	180	220	24	8	18





Pump model	IEC size	Dimensions [mm]													
		DNA	DNM	a	b	s	L	B	H	n1	n2	m1	m2	h1	h2
FNS 32-200/055 T5C VBP	132	50	32	80	50	14	638	273	340	240	190	100	70	160	180
FNS 32-200/075 T5C VBP	132	50	32	80	50	14	658	273	340	240	190	100	70	160	180
FNS 32-250/092 T5C VBP	132	50	32	100	65	14	751	326	405	320	250	125	95	180	225
FNS 32-250/110 T5C VBP	160	50	32	100	65	14	824	326	405	320	250	125	95	180	225
FNS 32-250/150 T5C VBP	160	50	32	100	65	14	824	326	405	320	250	125	95	180	225
FNS 40-200/055 T5C VBP	132	65	40	100	50	14	643	278	340	265	212	100	70	160	180
FNS 40-200/075 T5C VBP	132	65	40	100	50	14	663	278	340	265	212	100	70	160	180
FNS 40-250/110 T5C VBP	160	65	40	100	65	14	826	328	405	320	250	125	95	180	225
FNS 40-250/150 T5C VBP	160	65	40	100	65	14	826	328	405	320	250	125	95	180	225
FNS 50-160/055 T5C VBP	132	65	50	100	50	14	633	268	340	265	212	100	70	160	180
FNS 50-160/075 T5C VBP	132	65	50	100	50	14	653	268	340	265	212	100	70	160	180
FNS 50-200/092 T5C VBP	132	65	50	100	50	14	715	290	360	265	212	100	70	160	200
FNS 50-200/110 T5C VBP	160	65	50	100	50	14	788	290	360	265	212	100	70	160	200
FNS 50-200/150 T5C VBP	160	65	50	100	50	14	788	290	360	265	212	100	70	160	200
FNS 50-250/150 T5C VBP	160	65	50	100	65	14	832	334	405	320	250	125	95	180	225
FNS 50-250/185 T5C VBP	160	65	50	100	65	14	876	334	405	320	250	125	95	180	225
FNS 50-250/220 T5C VBP	180	65	50	100	65	14	876	334	405	320	250	125	95	180	225
FNS 65-125/055 T5C VBP	132	80	65	100	65	14	648	283	340	280	212	125	95	160	180
FNS 65-125/075 T5C VBP	132	80	65	100	65	14	668	283	340	280	212	125	95	160	180
FNS 65-160/092 T5C VBP	132	80	65	100	65	14	715	290	360	280	212	125	95	160	200
FNS 65-160/110 T5C VBP	160	80	65	100	65	14	788	290	360	280	212	125	95	160	200
FNS 65-160/150 T5C VBP	160	80	65	100	65	14	788	290	360	280	212	125	95	160	200
FNS 65-200/150 T5C VBP	160	80	65	100	65	14	828	330	405	320	250	125	95	180	225
FNS 65-200/185 T5C VBP	160	80	65	100	65	14	872	330	405	320	250	125	95	180	225
FNS 65-200/220 T5C VBP	180	80	65	100	65	14	872	330	405	320	250	125	95	180	225
FNS 65-250/370 T5C VBP	200	80	65	100	80	18	1033	375	450	360	280	160	120	200	250
FNS 80-160/110 T5C VBP	160	100	80	125	65	14	828	330	405	320	250	125	95	180	225
FNS 80-160/150 T5C VBP	160	100	80	125	65	14	828	330	405	320	250	125	95	180	225
FNS 80-160/185 T5C VBP	160	100	80	125	65	14	872	330	405	320	250	125	95	180	225
FNS 80-160/220 T5C VBP	180	100	80	125	65	14	872	330	405	320	250	125	95	180	225
FNS 80-200/300 T5C VBP	200	100	80	125	65	18	1028	370	430	345	280	125	95	180	250
FNS 80-200/370 T5C VBP	200	100	80	125	65	18	1028	370	430	345	280	125	95	180	250
FNS 80-250/450 T5C VBP	225	100	80	125	80	18	1119	420	480	400	315	160	120	200	280
FNS 80-250/550 T5C VBP	250	100	80	125	80	18	1198	420	480	400	315	160	120	200	280
FNS 80-250/750 T5C VBP	280	100	80	125	80	18	1264	420	480	400	315	160	120	200	280



0015092 IV/2018

FNC/FNS 32-40 Hydraulic performance 50 Hz

FNC / FNS 32

Pump model		Rated power		Q = Delivery											
				l/min 0	50	100	150	200	250	300	350	400	450	500	550
				m^3/h 0	3	6	9	12	15	18	21	24	27	30	33
				US gpm 0	13,2	26,4	39,6	52,8	66	79,3	92,5	105,7	118,9	132,1	145,3
		[kW]	[HP]	H = Total meters head of water column [m]											
FNC 32-125/011 T5B VBP	-	1,1	1,5	21,5	**21**	**20**	**19**	**17**	**14**						
FNC 32-125/015 T5B VBP	-	1,5	2	26,5	**26,5**	**26**	**25**	**23,5**	**21**	**18,5**					
FNC 32-160/022 T5B VBP	-	2,2	3	30	30	**29,5**	**29**	**28**	**27**	**25**	**22**	**18,5**			
FNC 32-160/030 T5B VBP	-	3	4	37	37	**36,5**	**36**	**35,5**	**34,5**	**33**	**31**	**28,5**			
FNC 32-200/040 T5B VBP	-	4	5,5	43,5	43	43	**42**	**41,5**	**40**	**38,5**	**37**	**34,5**	**31,5**		
FNC 32-200/055 T5C VBP	**FNS 32-200/055 T5C VBP**	5,5	7,5	51,5	51,5	51	**50,5**	**49,5**	**48,5**	**47,5**	**45,5**	**43,5**	**41**		
FNC 32-200/075 T5C VBP	**FNS 32-200/075 T5C VBP**	7,5	10	60,5	60,5	60,5	**60**	**59,5**	**58,5**	**57,5**	**56**	**54,5**	**52**		
FNC 32-250/092 T5C VBP	**FNS 32-250/092 T5C VBP**	9,2	12,5	74	74	74	74	**73**	**72**	**70,5**	**68,5**	**66**	**63**	**59**	
FNC 32-250/110 T5C VBP	**FNS 32-250/110 T5C VBP**	11	15	87	87	87	87	**87**	**87**	**86**	**85**	**83**	**80,5**	**77**	
FNC 32-250/150 T5C VBP	**FNS 32-250/150 T5C VBP**	15	20	97	97,5	97,5	97,5	**97**	**97**	**96,5**	**96**	**94**	**91,5**	**86,5**	**78,5**

Application range

FNC / FNS 40

Pump model		Rated power		Q = Delivery											
				l/min 0	150	200	300	400	500	550	600	650	700	750	800
				m^3/h 0	9	12	18	24	30	33	36	39	42	45	48
				US gpm 0	39,6	52,8	66	79,3	105,7	132,1	145,3	158,5	171,7	185	198,1
		[kW]	[HP]	H = Total meters head of water column [m]											
FNC 40-125/015 T5B VBP	-	1,5	2	18,5	**19**	**18,5**	**18**	**16,5**	**15**						
FNC 40-125/022 T5B VBP	-	2,2	3	22	**22,5**	**22**	**21,5**	**20**	**18,5**	**17**	**16**				
FNC 40-125/030 T5B VBP	-	3	4	26	**27,5**	**27,5**	**27**	**26,5**	**25**	**24**	**23**				
FNC 40-160/030 T5B VBP	-	3	4	32	**31,5**	**31**	**30**	**28**	**25,5**	**24**	**22**				
FNC 40-160/040 T5B VBP	-	4	5,5	37,5	**37,5**	**37**	**36**	**34**	**31,5**	**30**	**28,5**	**26,5**			
FNC 40-200/055 T5C VBP	**FNS 40-200/055 T5C VBP**	5,5	7,5	44	**44,5**	**44,5**	**43,5**	**42**	**39,5**	**37,5**	**35,5**				
FNC 40-200/075 T5C VBP	**FNS 40-200/075 T5C VBP**	7,5	10	53	**53,5**	**53,5**	**53**	**52**	**49,5**	**48**	**46**	**43,5**			
FNC 40-250/110 T5C VBP	**FNS 40-250/110 T5C VBP**	11	15	72,5	72,5	**72**	**71**	**69**	**66,5**	**65**	**63,5**	**61,5**	**59**	**57**	
FNC 40-250/150 T5C VBP	**FNS 40-250/150 T5C VBP**	15	20	85	86	**86**	**85,5**	**84,5**	**82,5**	**81,5**	**80**	**78**	**76**	**73,5**	**70,5**

Application range

FNC/FNS 50-65 Hydraulic performance 50 Hz

FNC / FNS 50

Pump model		Rated power		Q = Delivery											
				l/min 0	200	250	300	500	600	700	750	950	1.000	1.100	1.200
				m³/h 0	12	15	18	30	36	42	45	57	60	66	72
				US gpm 0	52,8	66	79,3	132,1	158,5	185	198,1	251	264,2	290,6	317
		[kW]	[HP]	H = Total meters head of water column [m]											
FNC 50-125/022 T5B VBP	-	2,2	3	17	18	18	17,5	17	16	15	14				
FNC 50-125/030 T5B VBP	-	3	4	22,5	23	22,5	22,5	21,5	20,5	19,5	18,5	15			
FNC 50-125/040 T5B VBP	-	4	5,5	24	24,5	24,5	24,5	23,5	23	22	21	17,5			
FNC 50-160/055 T5C VBP	**FNS 50-160/055 T5C VBP**	5,5	7,5	30	31,5	31,5	31,5	30	29,5	28	27,5	24	23	21	18,5
FNC 50-160/075 T5C VBP	**FNS 50-160/075 T5C VBP**	7,5	10	38	39	39	39	39	38,5	37,5	37	34	33	31	28
FNC 50-200/092 T5C VBP	**FNS 50-200/092 T5C VBP**	9,2	12,5	45,5	47	47	47	46	44,5	42,5	41	35	33	28	23
FNC 50-200/110 T5C VBP	**FNS 50-200/110 T5C VBP**	11	15	53	54,5	54,5	54,5	53	51,5	49,5	48	41,5	39,5	35,5	30,5
FNC 50-200/150 T5C VBP	**FNS 50-200/150 T5C VBP**	15	20	60	61,5	61,5	61,5	60	58,5	56	55	48,5	46,5	42	37,5
FNC 50-250/150 T5C VBP	**FNS 50-250/150 T5C VBP**	15	20	73	75	75	75	74,5	73,5	72	71	66,5	65		
FNC 50-250/185 T5C VBP	**FNS 50-250/185 T5C VBP**	18,5	25	82	82,5	82,5	82,5	82	81	80	79	74,5	73	70	66
FNC 50-250/220 T5C VBP	**FNS 50-250/220 T5C VBP**	22	30	87,5	88,5	88,5	89	88,5	88	87	86	82	81	78	74

Application range

FNC / FNS 65

Pump model		Rated power		Q = Delivery											
				l/min 0	400	600	700	900	1.000	1.200	1.400	1.600	1.700	2.000	2.200
				m³/h 0	24	36	42	54	60	72	84	96	102	120	132
				US gpm 0	105,7	158,5	185	237,8	264,2	317	370	422,7	449	528,3	581,2
		[kW]	[HP]	H = Total meters head of water column [m]											
FNC 65-125/055 T5C VBP	**FNS 65-125/055 T5C VBP**	5,5	7,5	24	24	24	23,5	23	22,5	21	19,5				
FNC 65-125/075 T5C VBP	**FNS 65-125/075 T5C VBP**	7,5	10	25	25	25	25	25	24,5	23,5	22	20	18,5		
FNC 65-160/092 T5C VBP	**FNS 65-160/092 T5C VBP**	9,2	12,5	32	32,5	33	33	33	32,5	31,5	30	28	27	22	
FNC 65-160/110 T5C VBP	**FNS 65-160/110 T5C VBP**	11	15	37	38	39	39	39	38,5	37,5	36	34	32,5	28	
FNC 65-160/150 T5C VBP	**FNS 65-160/150 T5C VBP**	15	20	42	44	45	45	45	44,5	44	42	40	39	35	
FNC 65-200/150 T5C VBP	**FNS 65-200/150 T5C VBP**	15	20	42,5	46	47,5	48	48	48	47	46,5	45	44	41	
FNC 65-200/185 T5C VBP	**FNS 65-200/185 T5C VBP**	18,5	25	47	48,5	50	50,5	50,5	50,5	50	49	47,5	46,5	43,5	41
FNC 65-200/220 T5C VBP	**FNS 65-200/220 T5C VBP**	22	30	50,5	52	54	54,5	54,5	54	53,5	52,5	51	50	47	44
-	**FNS 65-250/370 T5C VBP**														

Application range

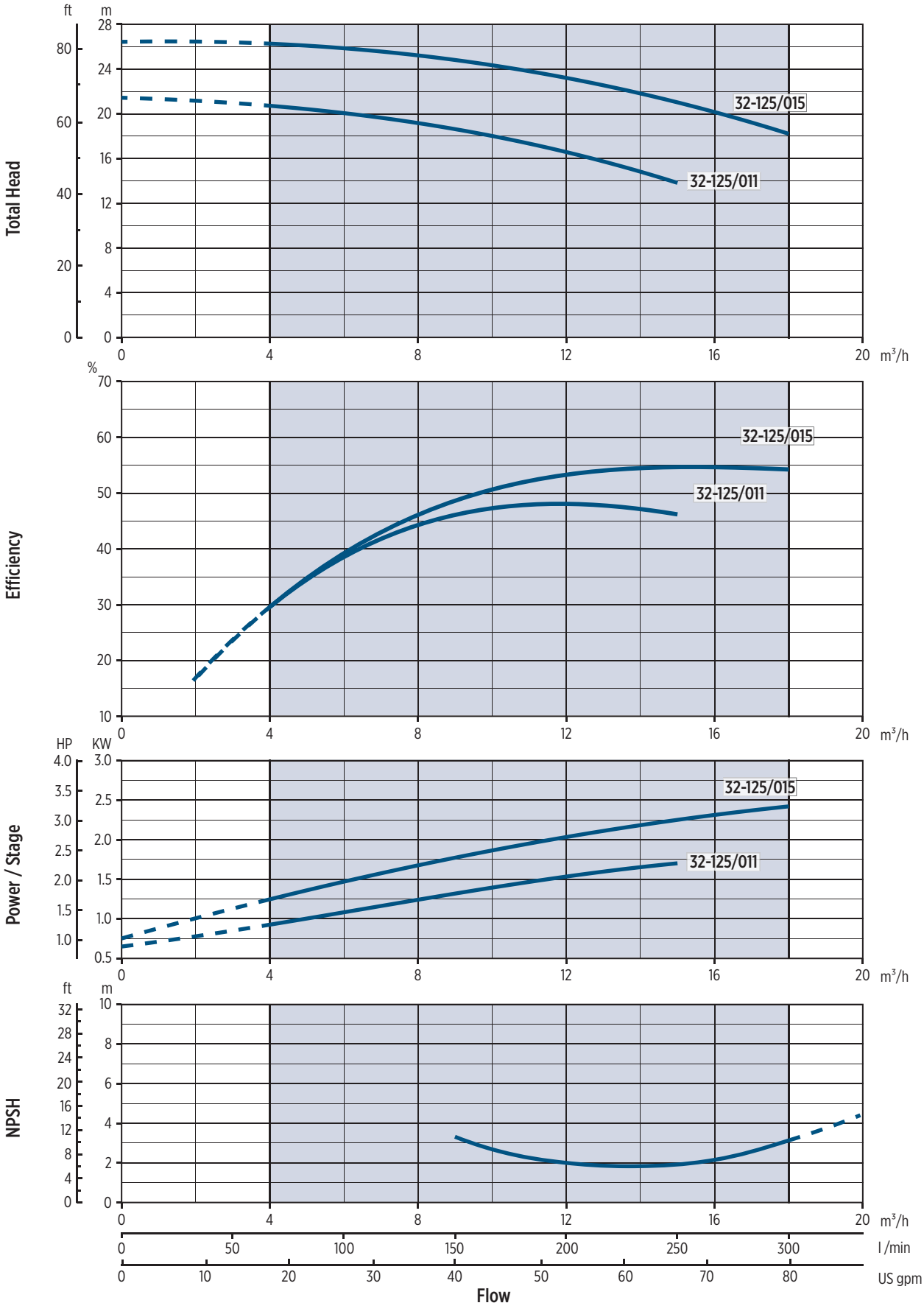
FNC/FNS 80 Hydraulic performance 50 Hz

FNC / FNS 80

Pump model		Rated power		Q = Delivery											
				l/min 0	700	900	1.100	1.600	1.700	2.400	2.600	2.800	3.000	3.200	4000
				m^3/h 0	42	54	66	96	102	144	156	168	180	192	240
				US gpm 0	185	237,8	290,6	422,7	449	634	687	739,7	792,5	845,4	1056,7
		[kW]	[HP]	H = Total meters head of water column [m]											
FNC 80-160/110 T5C VBP	**FNS 80-160/110 T5C VBP**	11	15	27,5	**27,5**	**28**	**28**	**27,5**	**27**	**26,5**	**24,5**	**21,5**			
FNC 80-160/150 T5C VBP	**FNS 80-160/150 T5C VBP**	15	20	32	**32**	**33**	**33**	**33**	**32,5**	**32**	**29,5**	**26,5**			
FNC 80-160/185 T5C VBP	**FNS 80-160/185 T5C VBP**	18,5	25	33	**33,5**	**34**	**34,5**	**34,5**	**34**	**33,5**	**31**	**28**	**23**		
FNC 80-160/220 T5C VBP	**FNS 80-160/220 T5C VBP**	22	30	37	**38**	**38,5**	**38,5**	**38,5**	**38**	**38**	**35,5**	**32,5**	**28**		
-	**FNS 80-200/300 T5C VBP**	30	40	51	**53**	**54,5**	**55,4**	**56,6**	**56,5**	**56**	**54**	**50,5**	**46,5**		
-	**FNS 80-200/370 T5C VBP**	37	50	61	**62,5**	**64**	**65**	**66,5**	**66,5**	**66,5**	**65**	**62,5**	**59,5**		
-	**FNS 80-250/450 T5C VBP**	45	60	68	**68,5**	**69,5**	**70**	**70,5**	**70**	**70**	**68,5**	**66,5**	**63**	**61**	**50**
-	**FNS 80-250/550 T5C VBP**	55	75	87	**87,5**	**88**	**88,5**	**89,5**	**88**	**88**	**86**	**84**	**81**	**79**	**70,5**
-	**FNS 80-250/750 T5C VBP**	75	100	101	**102**	**102,5**	**103**	**104**	**104**	**104,5**	**104**	**103**	**101**	**100**	**92**

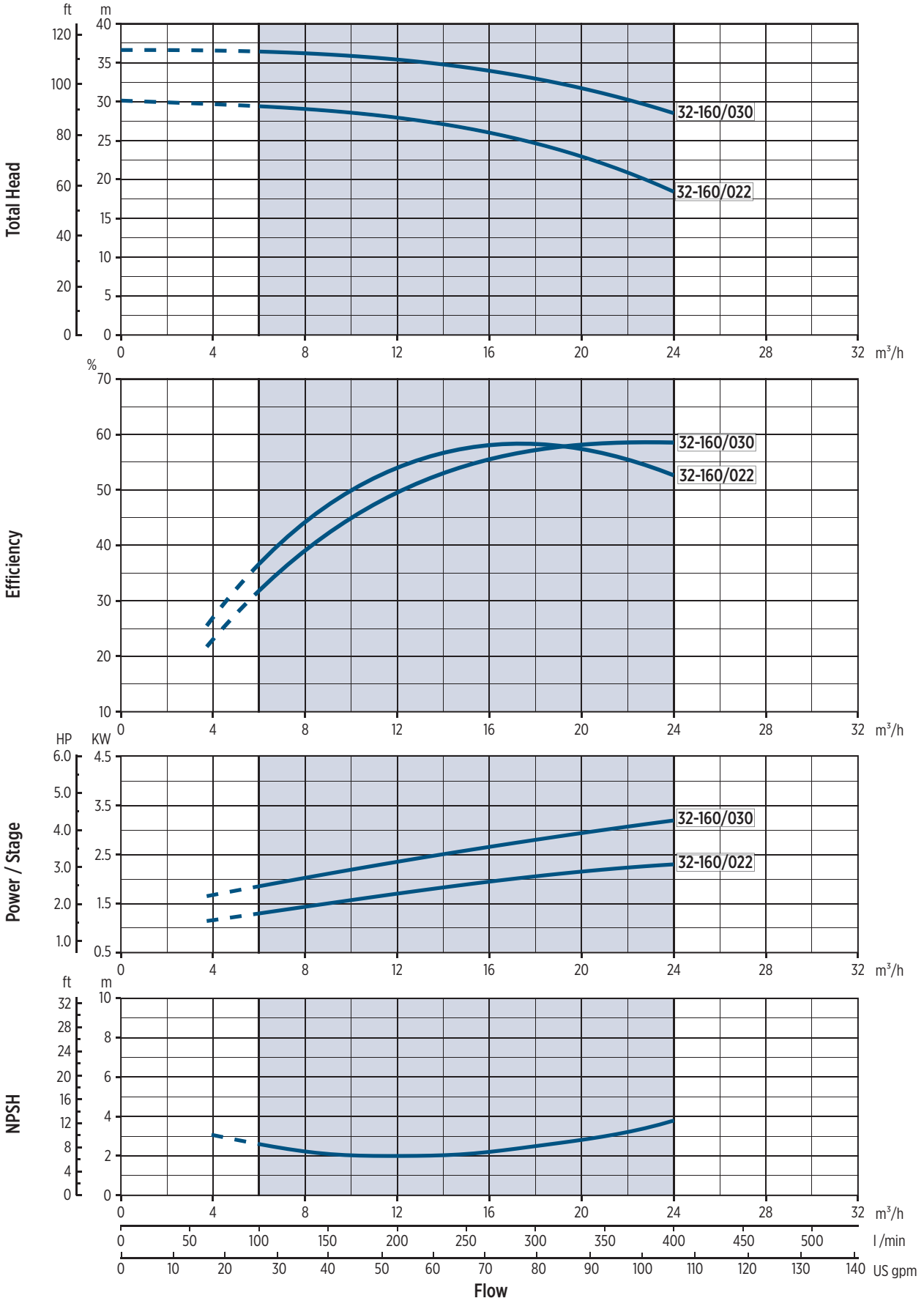
Application range

FNC 32-125 - Performance curves at 50 Hz



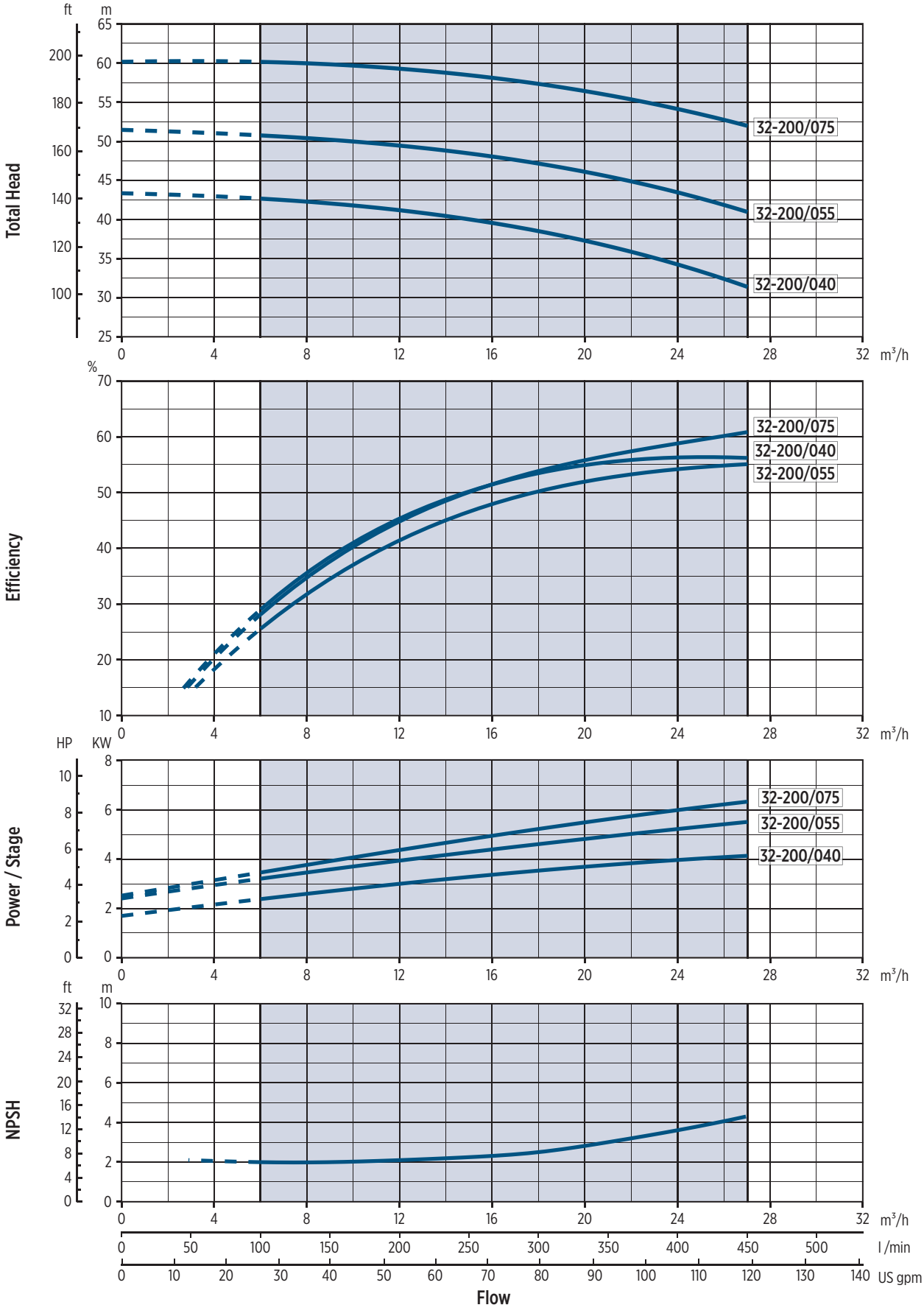
0012082 06/2025

FNC 32-160 – Performance curves at 50 Hz



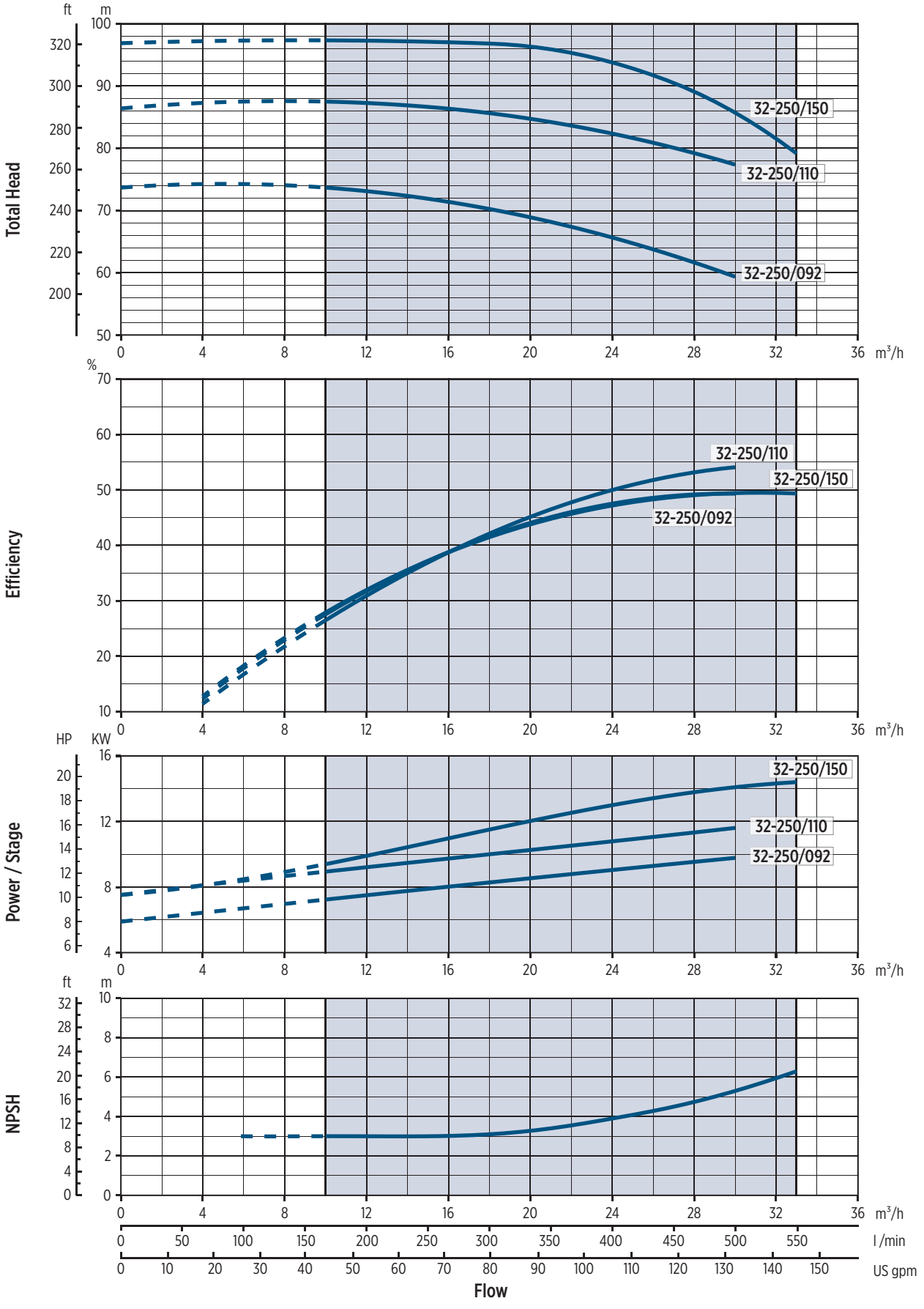
00120183EN 06/2025

FNC/FNS 32-200 - Performance curves at 50 Hz



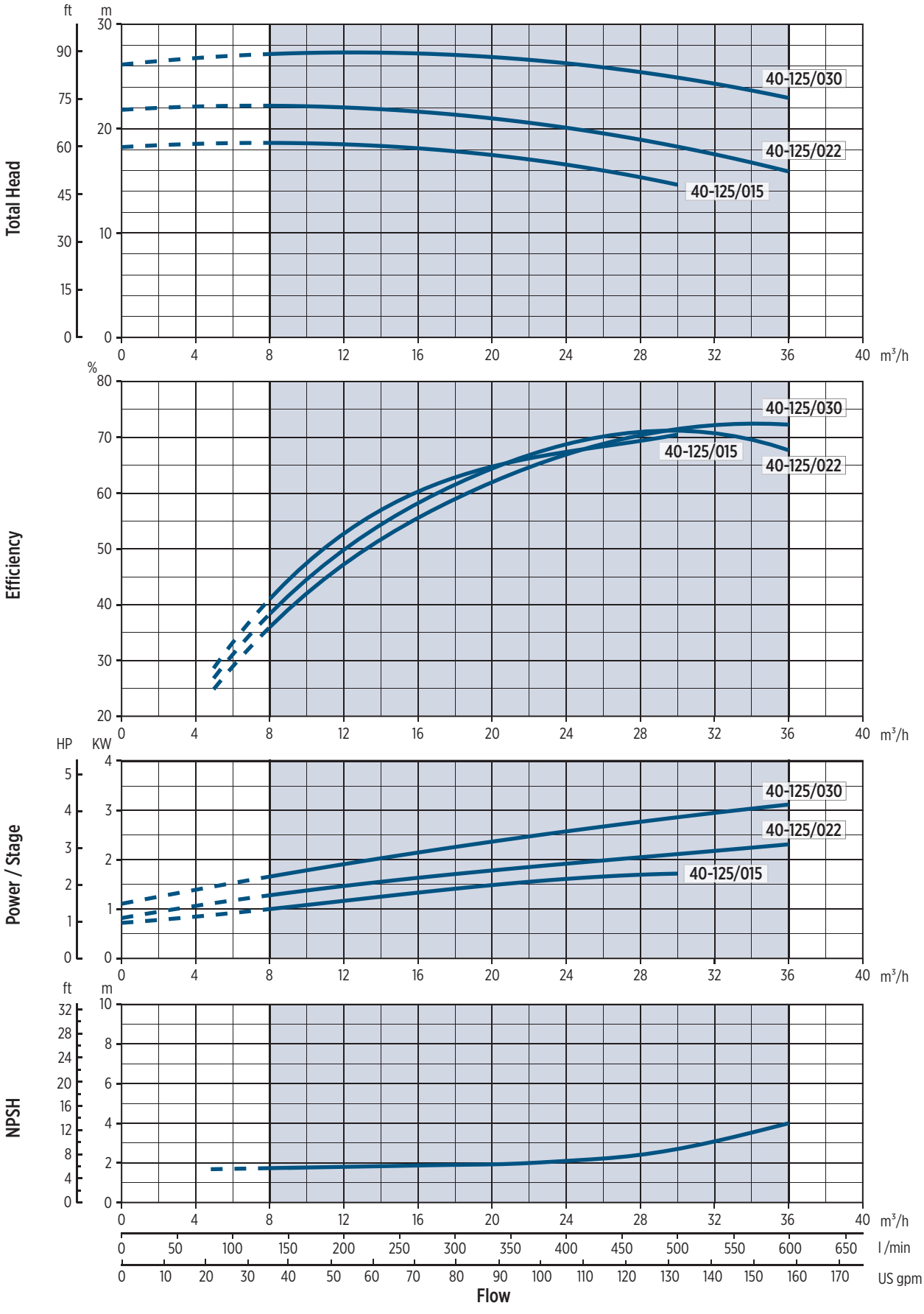
00120204 06/2025

FNC/FNS 32-250 - Performance curves at 50 Hz



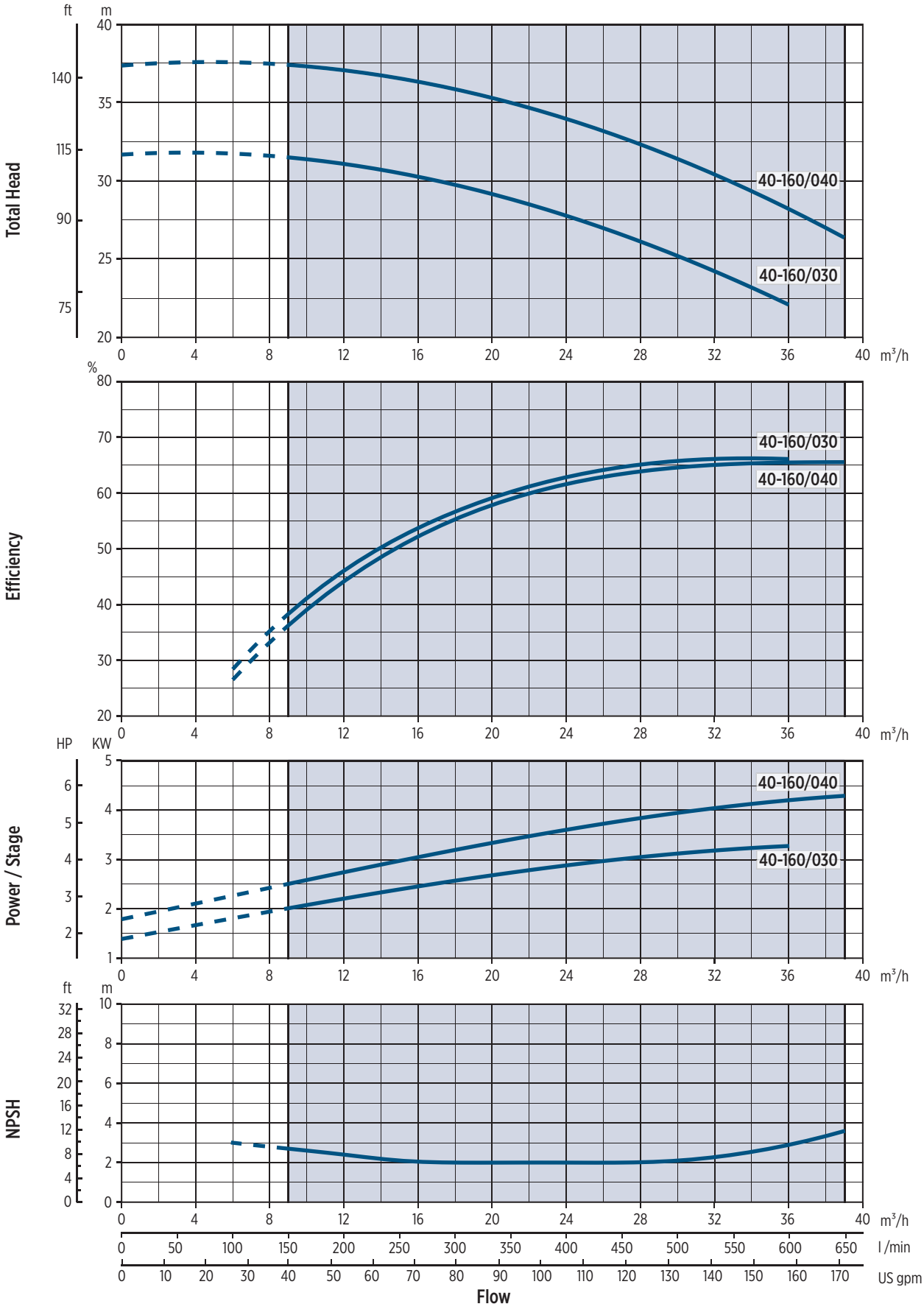
00120205 06/2025

FNC 40-125 – Performance curves at 50 Hz



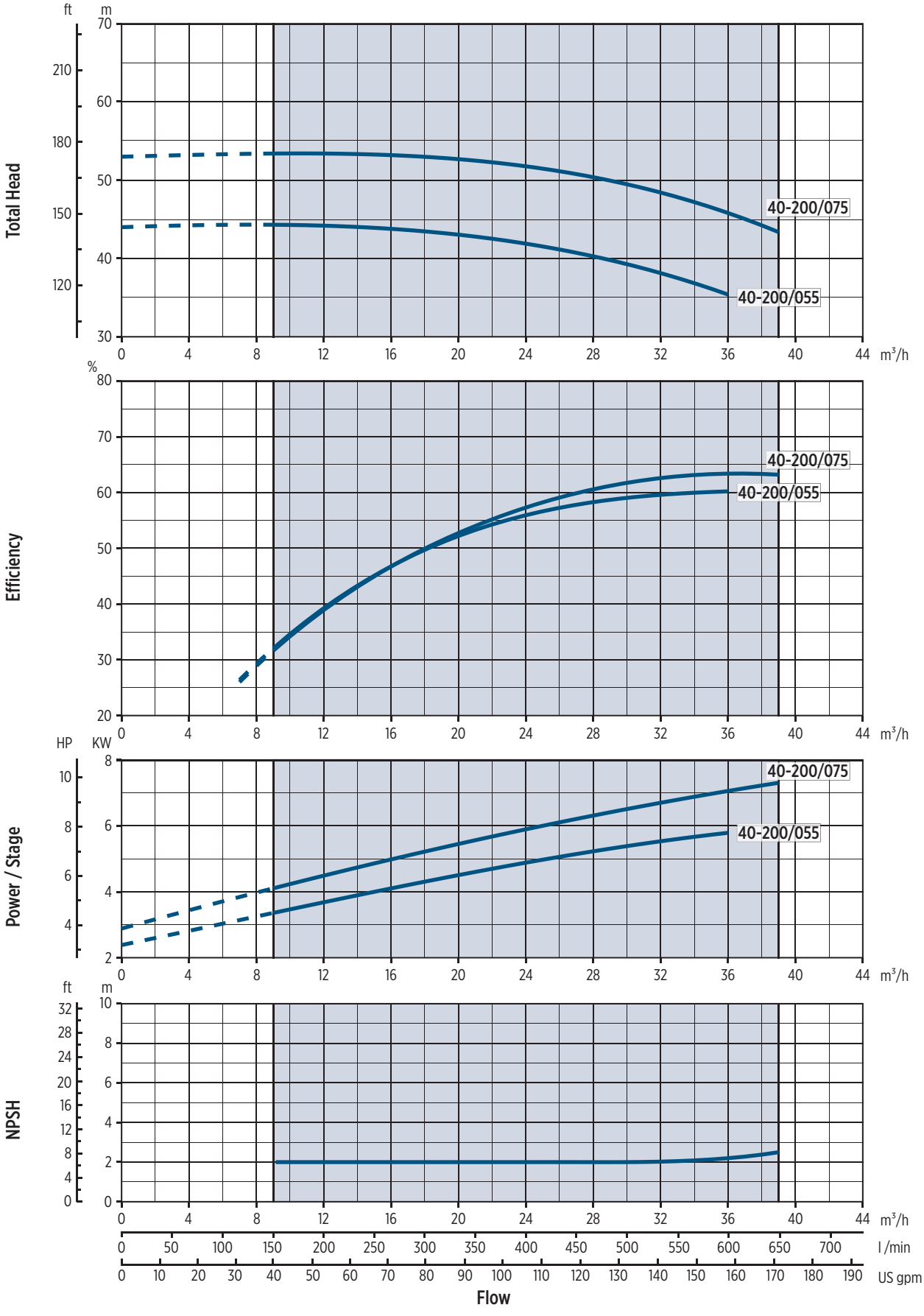
00120206 06/2025

FNC 40-160 - Performance curves at 50 Hz



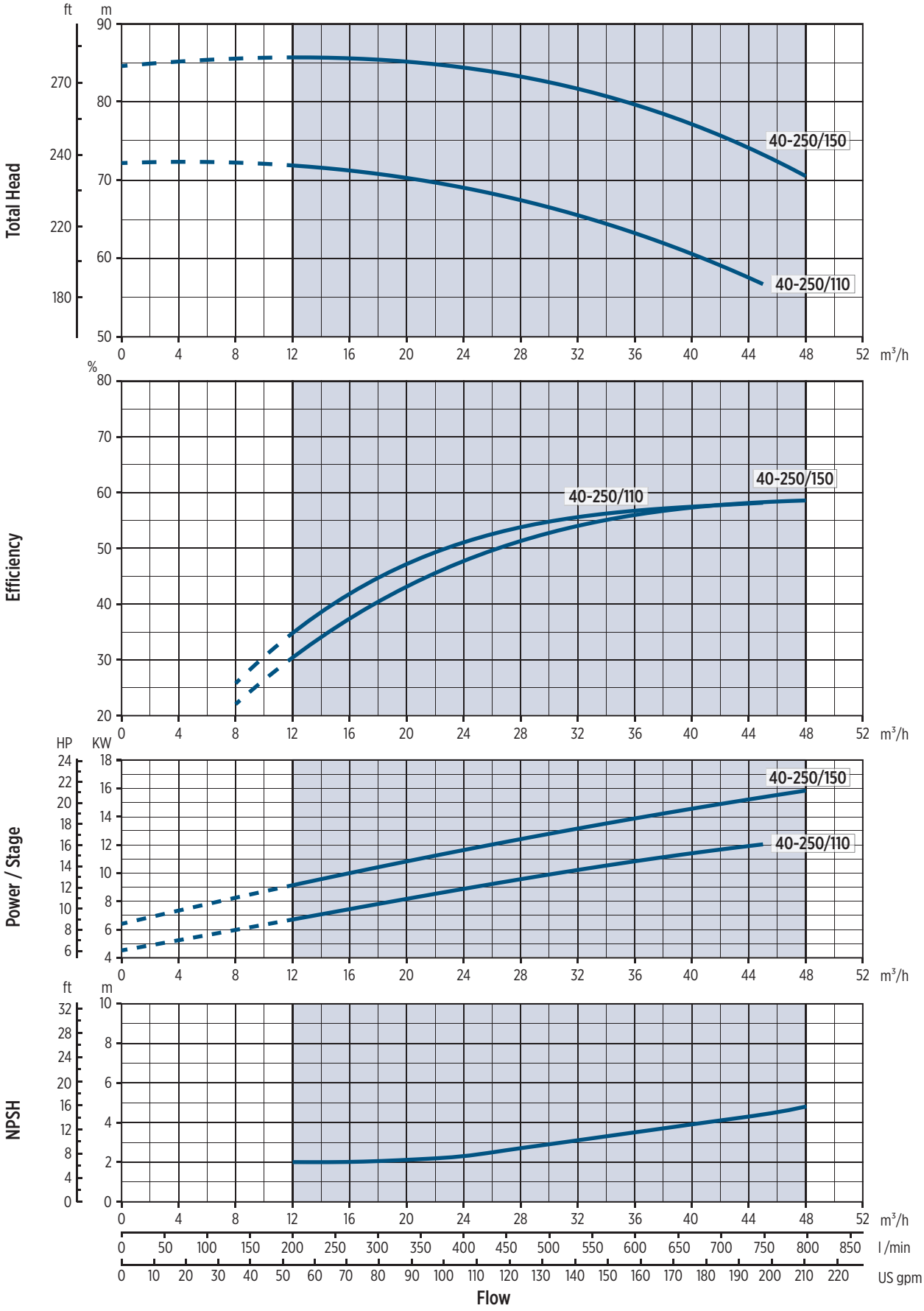
00120207 06/2025

FNC/FNS 40-200 - Performance curves at 50 Hz



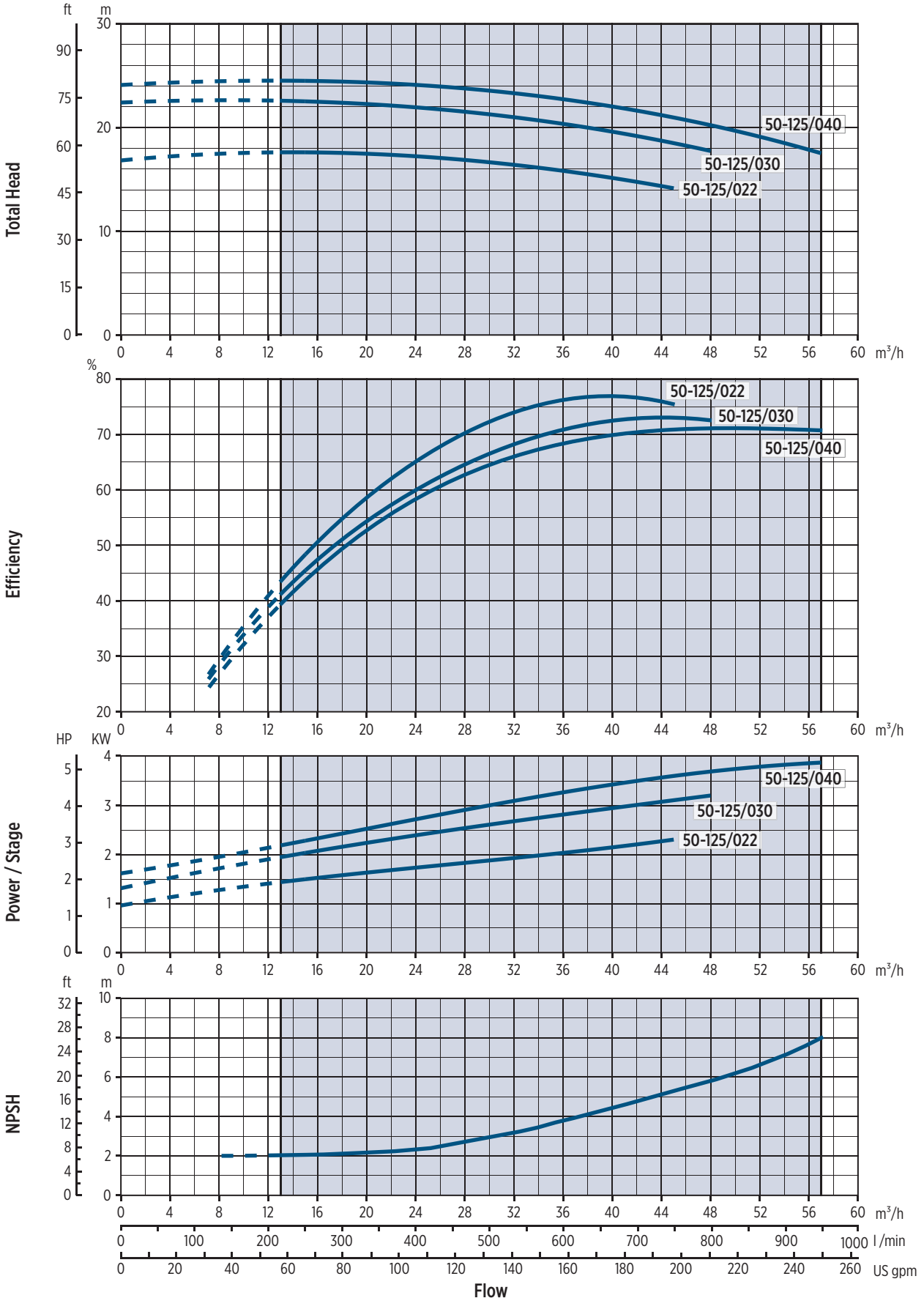
00120208 06/2025

FNC/FNS 40-250 - Performance curves at 50 Hz



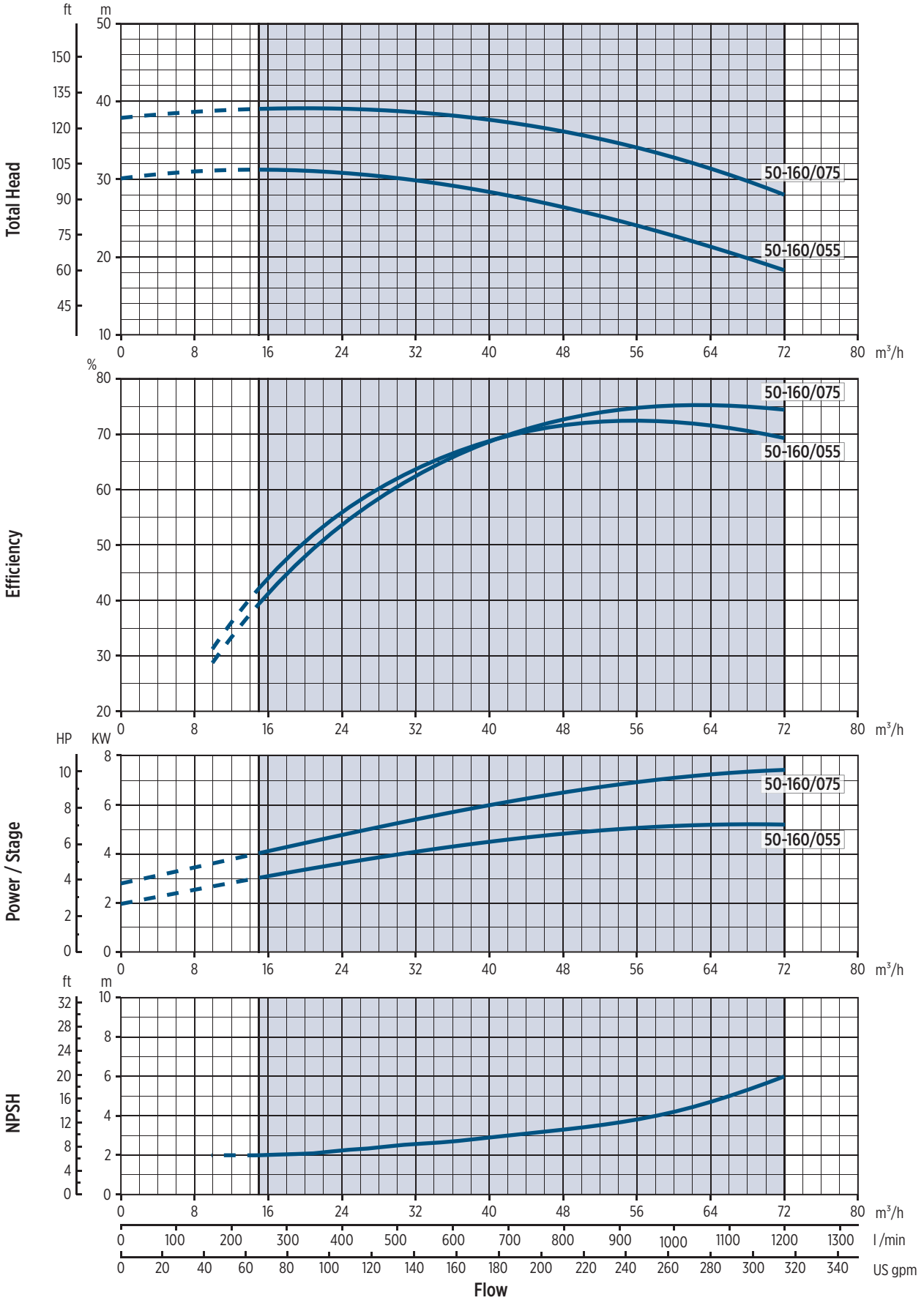
00120209 06/2025

FNC 50-125 - Performance curves at 50 Hz



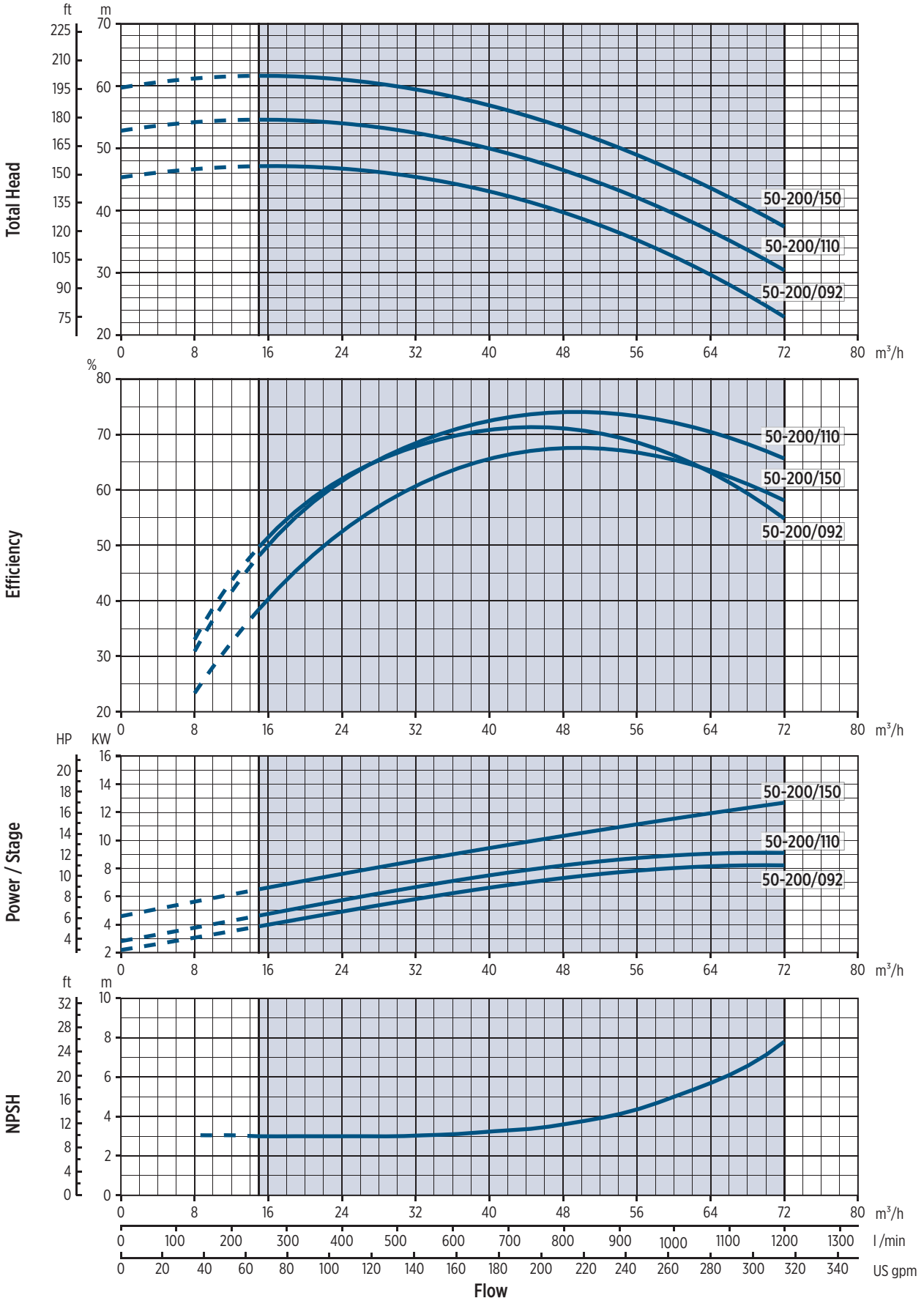
0012020 05/2025

FNC/FNS 50-160 – Performance curves at 50 Hz

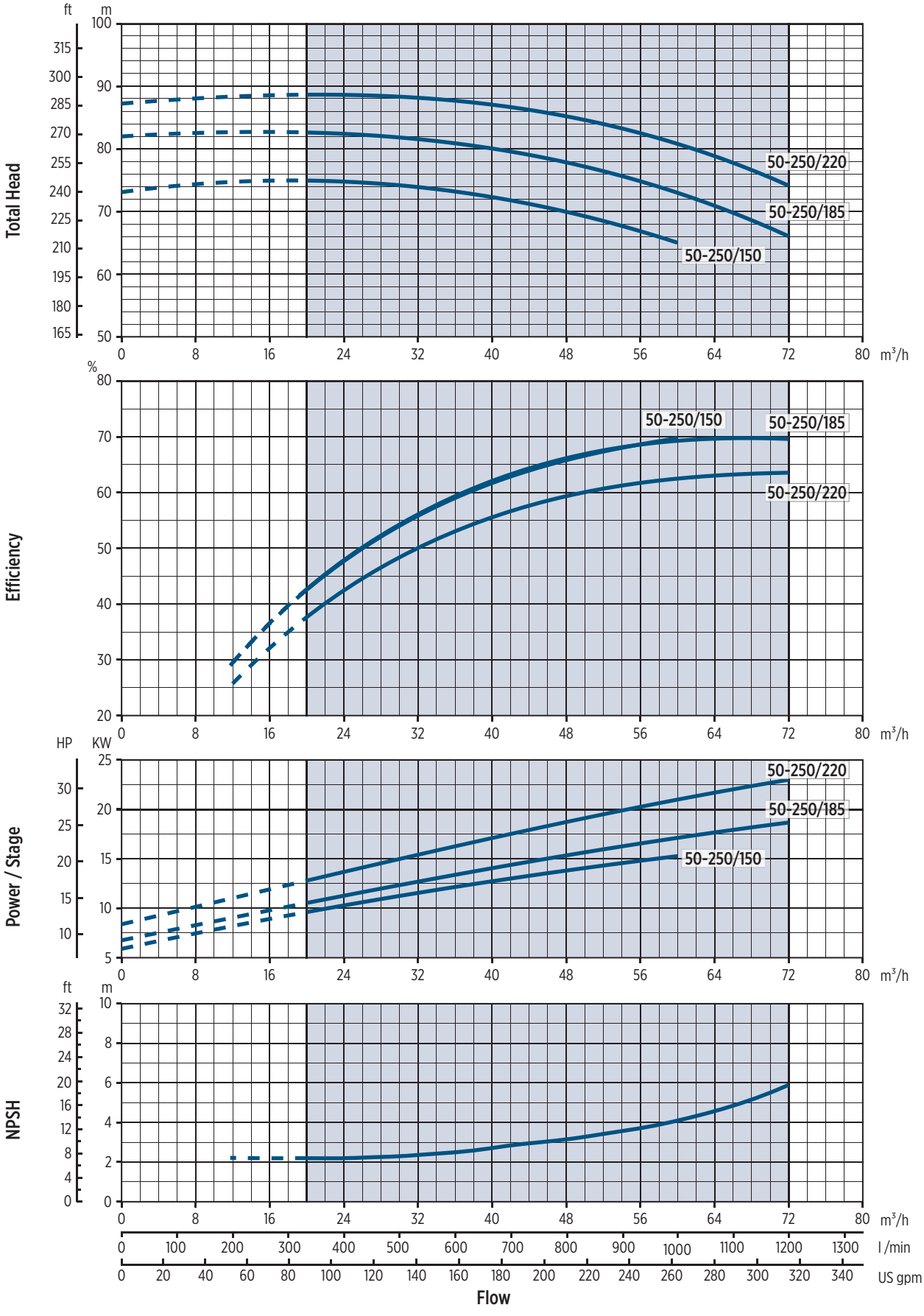


00120211 06/2025

FNC/FNS 50-200 - Performance curves at 50 Hz

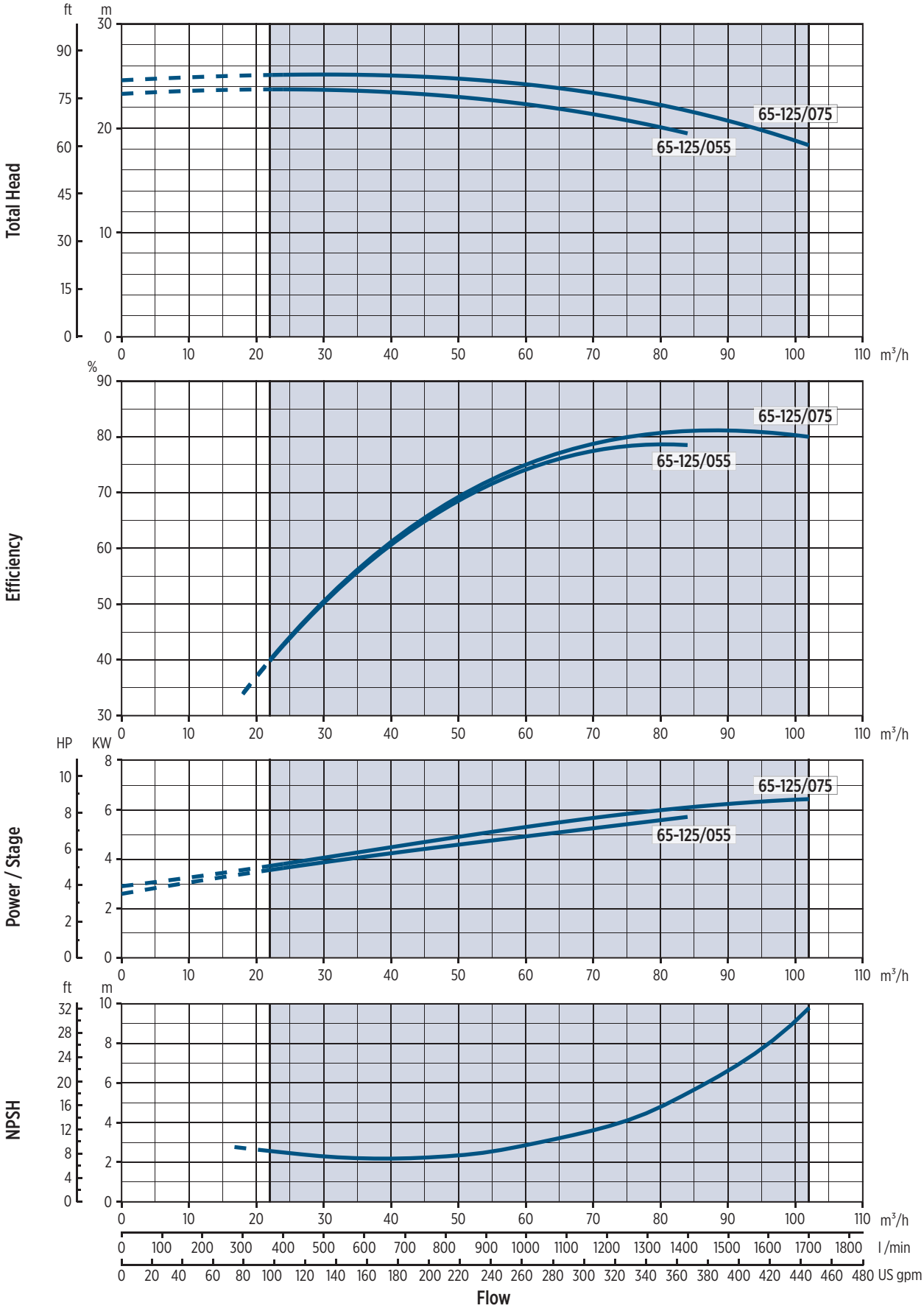


FNC/FNS 50-250 - Performance curves at 50 Hz



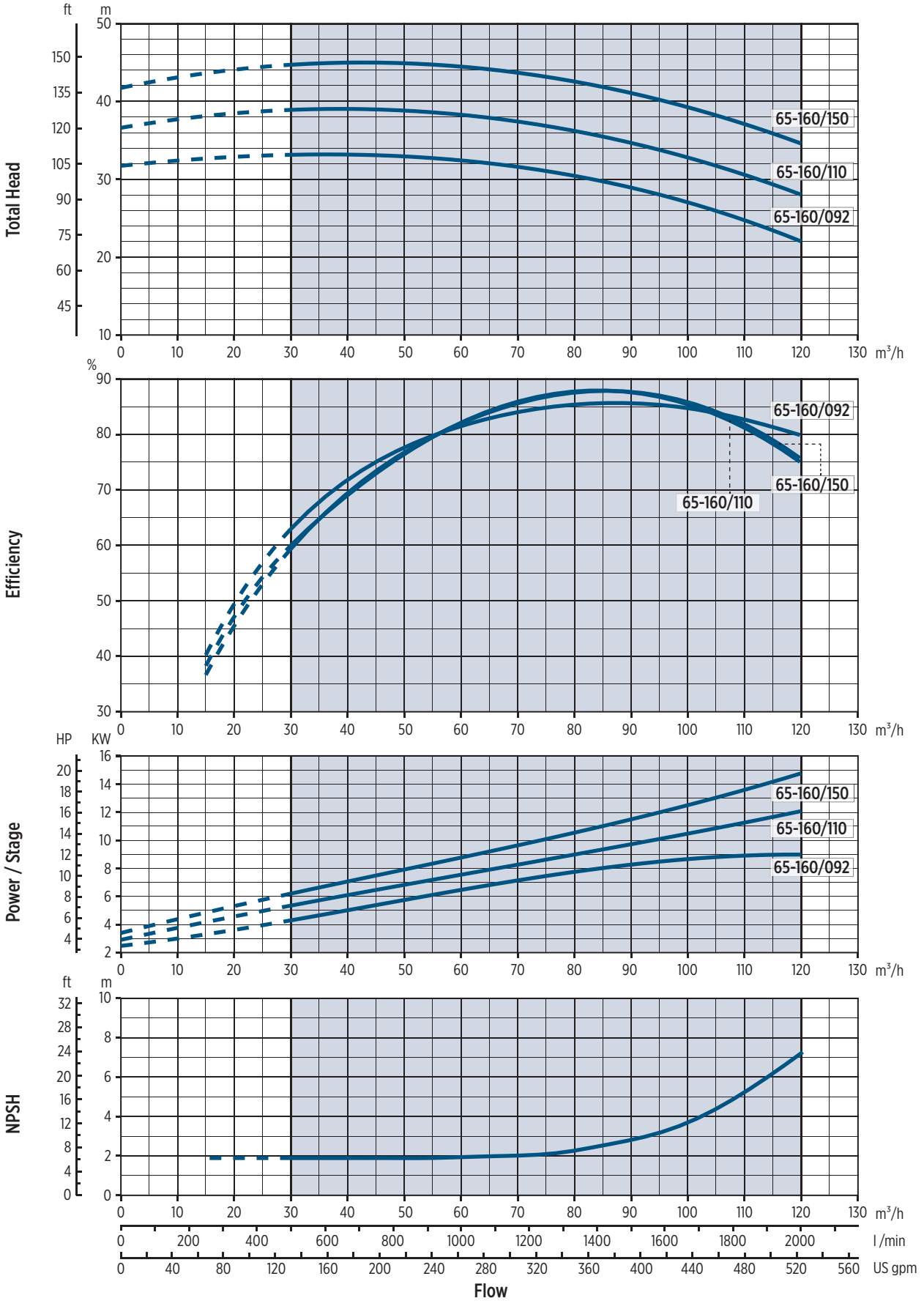
00120213 06/2025

FNC/FNS 65-125 - Performance curves at 50 Hz



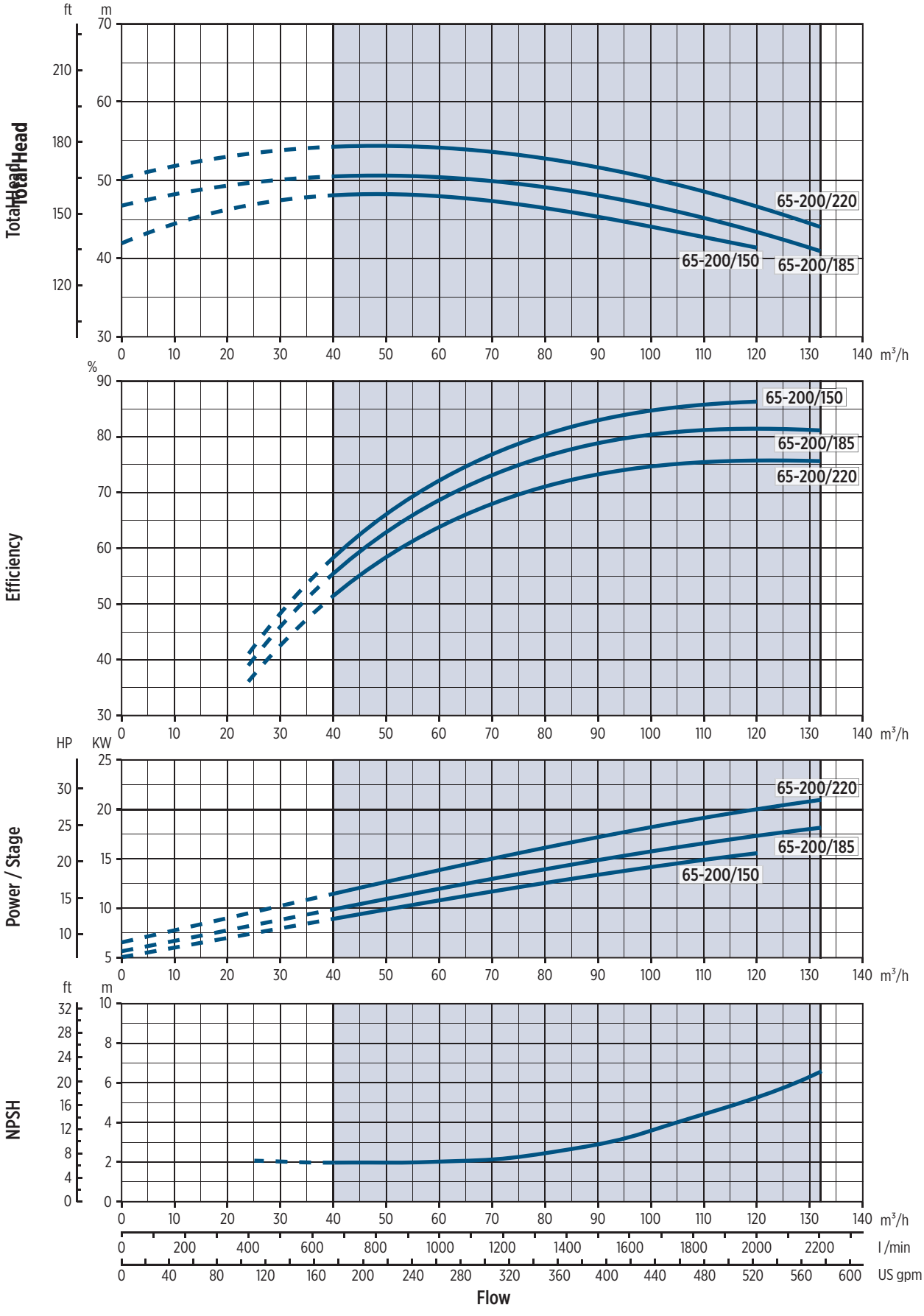
00120214 06/2025

FNC/FNS 65-160 - Performance curves at 50 Hz



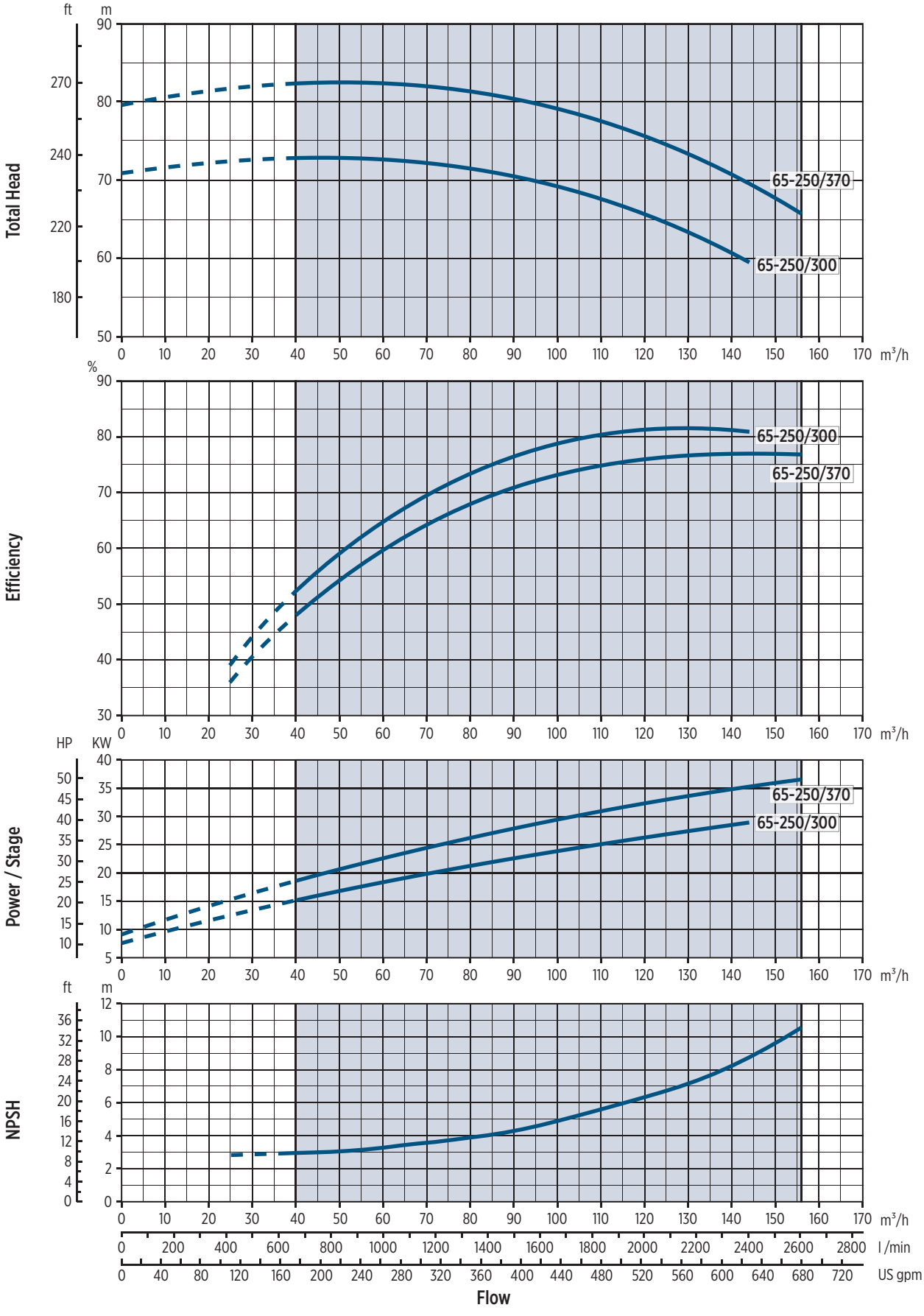
00120215 06/2025

FNC/FNS 65-200 - Performance curves at 50 Hz



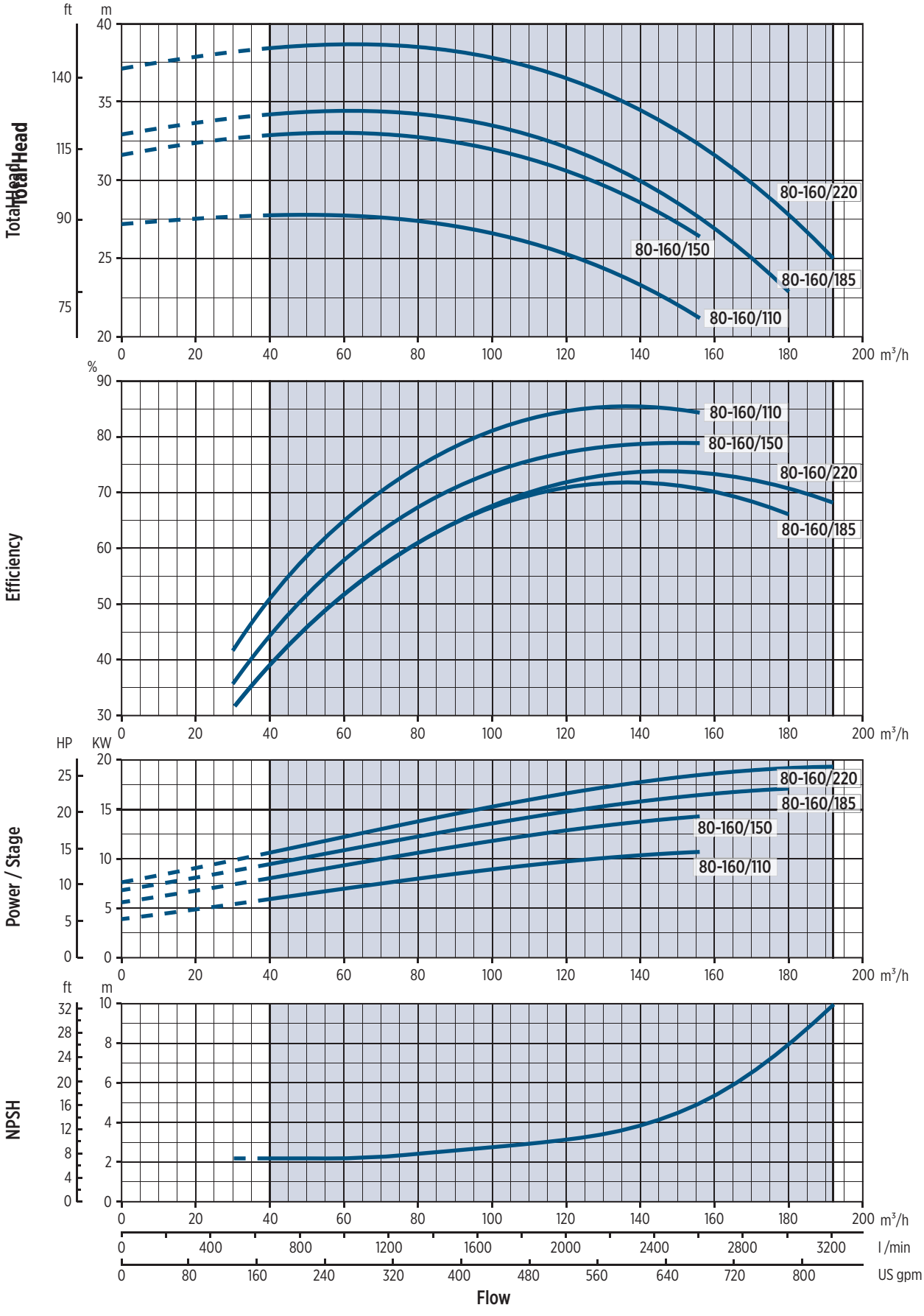
00120216 06/2025

FNS 65-250 – Performance curves at 50 Hz



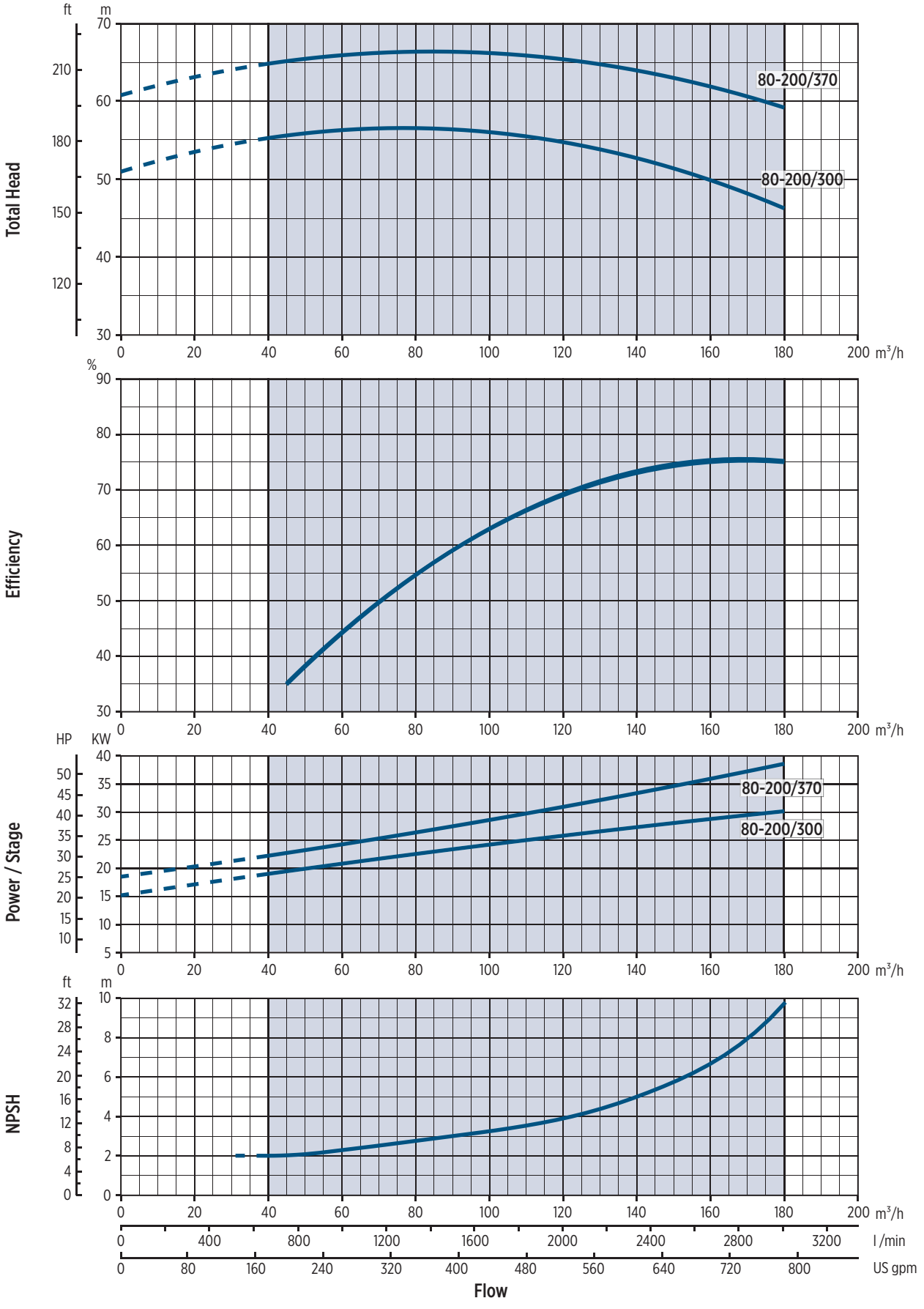
00120217 06/2025

FNC/FNS 80-160 – Performance curves at 50 Hz



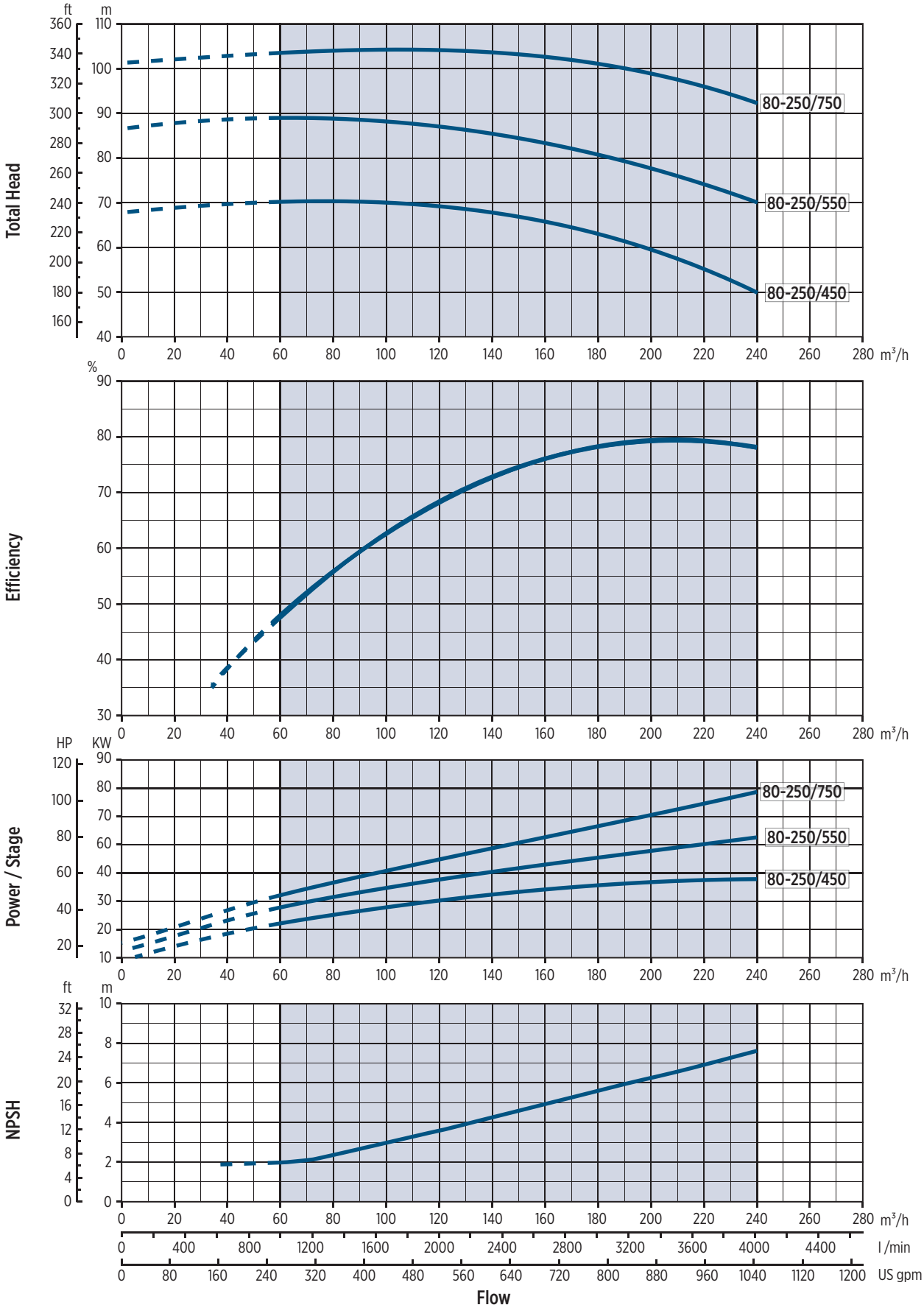
00120218 06/2025

FNS 80-200 - Performance curves at 50 Hz



00120219 06/2025

FNS 80-250 - Performance curves at 50 Hz



00120220 06/2025

CATALOG REVISION CHANGES NOTICE

Rev. No.	Changes	Page
01	IEC size for FNE 22 kW models changed.	18-19
	Performance curves for the 40-160 and 65-200 models updated.	29, 38
02	“Mechanical Seal Specifications” section updated.	9
	Values for 22 kW motors added.	5, 6
	“Spare Parts” for FNC updated.	10
	“Flange” table updated.	14, 16, 18
	NPSH updated from “FNC/FNE 32-125 Performance Curves”.	24
03	“Pump identification code” section modified.	4
	Removed single-phase version from “Motor specifications” section.	5
	“Technical data and dimensions” section modified.	13-16
	FNE model removed from “Performance curves”.	20-38
04	“Pump identification code” updated	4
	“Motor specification” updated	5-7
	“Mechanical Seal Specifications” section updated	9
05	“Application” section updated	2
	“FNC” Description updated	3
	“Product identification code” updated	4
	“Motor spare parts” updated	7
	“Mechanical seal specification” updated	9
	“Spare parts and material” updated	10
	Pump models name updated	11-15

NOTES

Franklin Electric

Franklin Electric Europa GmbH
Rudolf-Diesel-Str. 20 - 54516 Wittlich
GERMANY
Phone: +49 (0) 6571 - 105-0
Fax: +49 (0) 6571 - 105-510
Email: info@franklin-electric.de

Franklin Electric S.r.l.
Via Asolo, 7 - 36031 Dueville (Vicenza)
ITALY
Phone: +39 0444 361114
Fax: +39 0444 365247
Email: sales.it@fele.com

franklinwater.eu

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