

50 Hz



e-NSC Series

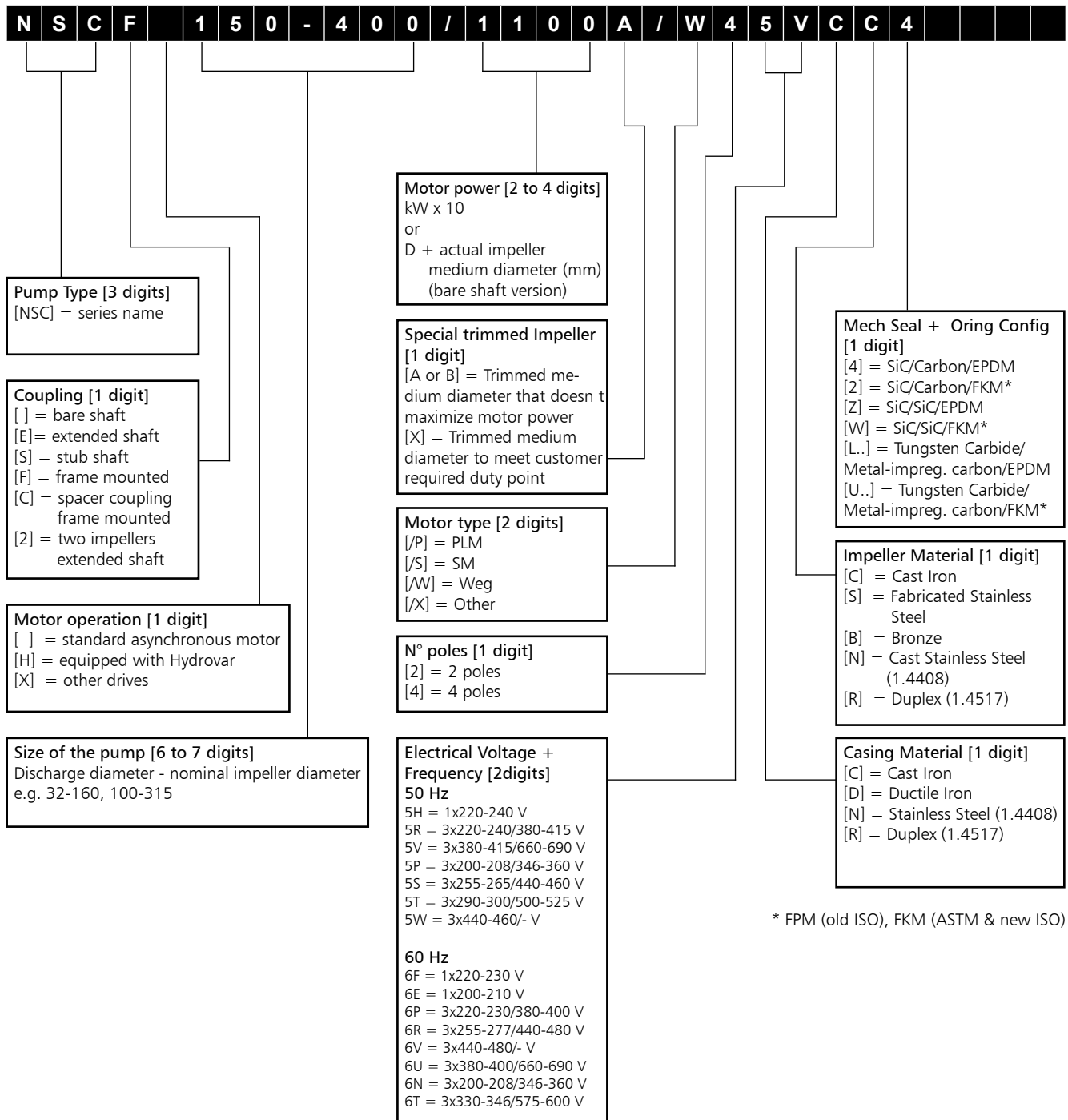
HORIZONTAL CENTRIFUGAL ELECTRIC PUMPS
EQUIPPED WITH **IE3** MOTORS

ErP 2009/125/EC

Cod. 191002951 Rev. F Ed.03/2016

 **LOWARA**
a xylem brand

**e-NSC SERIES
IDENTIFICATION CODE**



EXAMPLES

NSCS 100-250/900/W25RCC4

End-suction, electric pump with stub shaft coupling, DN 100 nominal discharge port, 250 mm nominal impeller diameter, 90 kW rated motor power, WEG IE3 model, 2-pole, 50 Hz 220-240/380-415 V, cast iron casing, cast iron impeller, Silicon carbide/Carbon/EPDM mechanical seal.

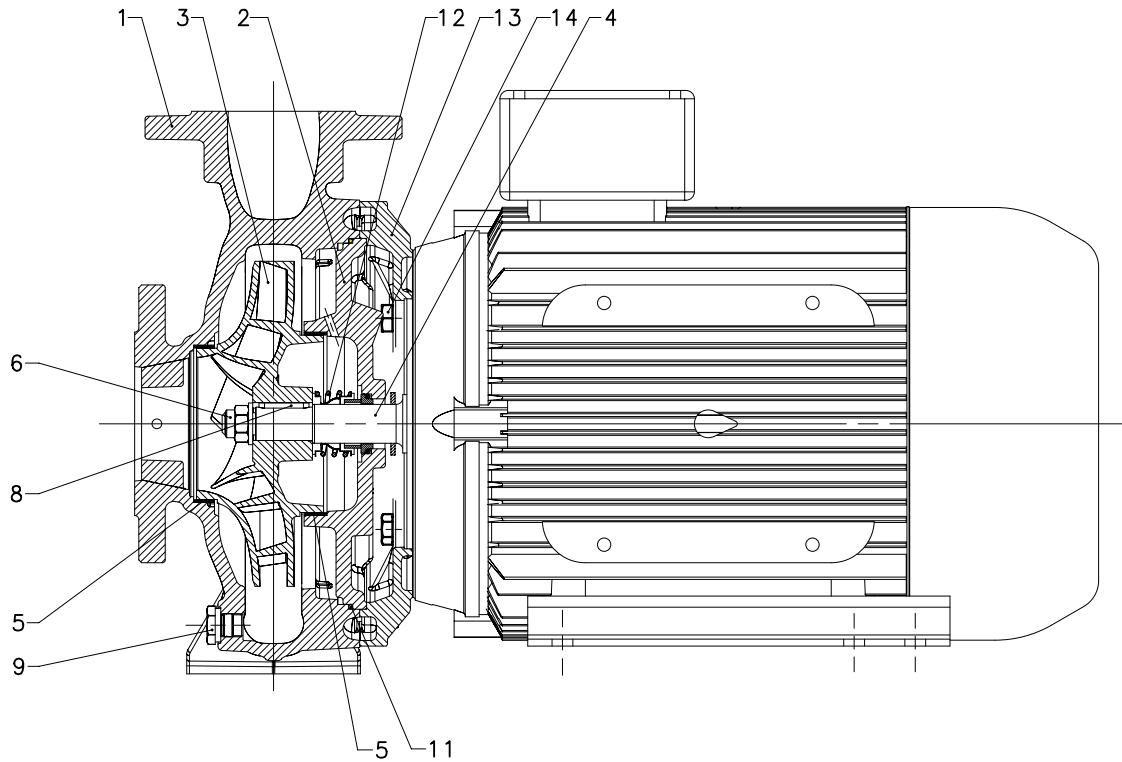
NSCF 150-400/1100A/W45VCC4

End-suction, electric pump with frame mounted coupling, DN 150 nominal discharge port, 400 mm nominal impeller diameter, 110 kW rated motor power, trimmed impeller, WEG IE3 model, 4-pole, 50 Hz 380-415/660-690 V, cast iron casing, cast iron impeller, Silicon carbide/Carbon/EPDM mechanical seal.

NSC 150-400/D423CCZ

End-suction, bare shaft pump, DN 150 nominal discharge port, 400 mm nominal impeller diameter, 423 mm actual impeller medium diameter, cast iron casing, cast iron impeller, Silicon carbide/ Silicon carbide/EPDM mechanical seal.

NSCE SERIES ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS



NSCE_A_DS

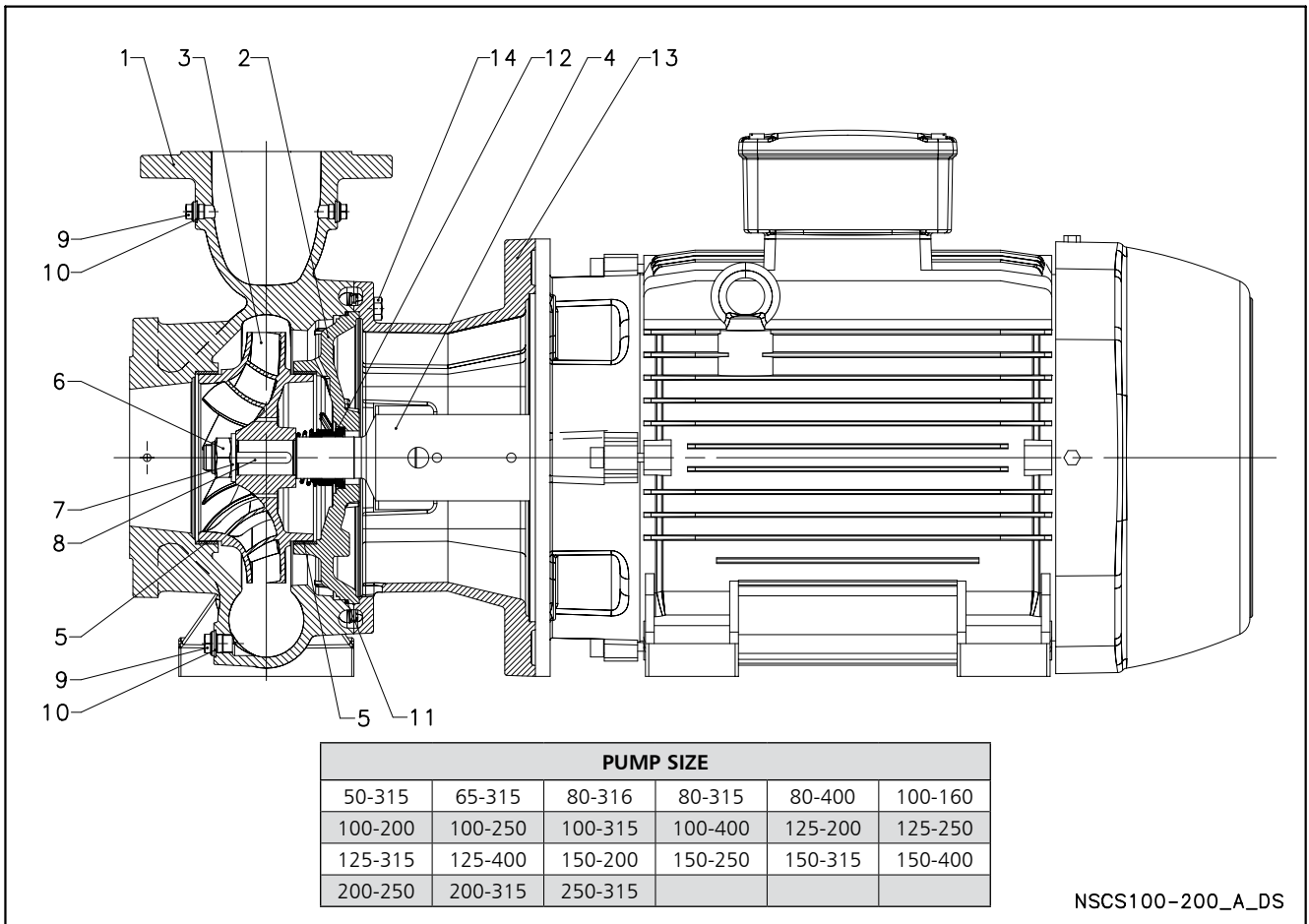
REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Volute casing	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
2	Casing cover	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
3	Impeller (32, 40, 50)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller (65, 80)	Cast iron	EN 1561 - GJL-200 (JL1030)	ASTM Class 30
	Impeller (65, 80)	Bronze	EN 1982 - CuSn10-C (CC480K)	UNS C90700
4	Shaft extension	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Wear ring	Stainless steel	EN 10088-X5CrNi18-10 (1.4301)	AISI 304
6	Impeller lock nut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller key	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
9	Fill and drain plugs	Nickel-plated brass	EN 12164-CuZn39Pb3 (CW614N)	-
11	O-Ring	EPDM (standard version)		
12	Mechanical seal	Carbon / Silicon carbide / EPDM (standard version)		
13	Motor adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Motor adapter	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
14	Volute casing fastening bolts and screws	Galvanized steel		

* 2/4 pole: 32/40/50-125, 32/40-160

Nsce-en_a_tm

NSCS SERIES

ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS



REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Volute casing	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
	Volute casing (200-250, 200-315, 250/315)	Cast ductile iron	EN 1563 - EN-GJS400-15 (EN-JS1030)	ASTM A536 40-60-18
2	Casing cover	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
	Casing cover (200-250, 200-315, 250/315)	Cast ductile iron	EN 1563 - EN-GJS400-15 (EN-JS1030)	ASTM A536 40-60-18
3	Impeller	Cast iron	EN 1561 - GJL-200 (JL1030)	ASTM Class 30
	Impeller	Bronze	EN 1982 - CuSn10-C (CC480K)	UNS C90700
4	Stub shaft	Stainless steel	EN 10088 - X17CrNi16-2 (1.4057)	AISI 431
5	Wear ring	Stainless steel	EN 10088 - X5CrNi18-10 (1.4301)	AISI 304
6	Impeller nut	Stainless steel	A4 (~ 1.4401)	
7	Impeller washer	Stainless steel	A4 (~ 1.4401)	
8	Impeller key	Stainless steel	EN 10088 - X6CrNiMo17-12-2 (1.4571)	AISI 316Ti
9	Plug	Stainless steel	EN 10088 - X6CrNiMo17-12-2 (1.4571)	AISI 316Ti
10	Gasket	Asbestos-free synthetic fiber AFM 34		
11	O-Ring	EPDM (standard version)		
12	Mechanical seal	Carbon / Silicon carbide / EPDM (standard version)		
13	Motor adapter	Cast iron	EN 1561 - GJL-250 (JL1040)	ASTM Class 35
14	Volute - casing fastening screws	Carbon steel		

Nscs100-200-en_a_tm

e-NSC SERIES PUMPS

With the Energy using Products (EuP 2005/32/EC) and Energy related Products (ErP 2009/125/EC) directives, the European Commission has established requirements for promoting the use of products with low power consumption.

The **Commission Regulation (EU) No 547/2012** has implemented two directives with regard to ecodesign requirements for **some types of clean water pumps** placed on the market and put into service inside EU zone as self-alone units or integrated in other products.

For end-suction close-coupled pumps (ESCC for the Regulation) and end-suction own-bearing pumps (ESOB for the Regulation) the efficiency assessment refers to:

- just the pump and not the pump and motor assembly (electric or combustion);
- pumps with just one impeller;
- pumps with a nominal pressure PN not higher than 16 bar (1600 kPa);
- pumps with a minimum nominal flow not less than 6 m³/h;
- pumps with a maximum nominal power at the shaft not higher than 150 kW;
- pumps designed to operate at a speed of 2900 min⁻¹ (for electric pumps this means 50 Hz 2-pole electric motors) and with a head not greater than 140 metres;
- pumps designed to operate at a speed of 1450 min⁻¹ (for electric pumps this means 50 Hz 4-pole electric motors) and with a head not greater than 90 metres;
- use with clean water at a temperature ranging from -10°C to 120°C (the test is performed with cold water at a temperature not higher than 40°C).

According to the definitions established in the Regulation NSCE and NSCS versions correspond to the end-suction close-coupled pump while NSC, NSCF and NSCC versions correspond to the end-suction own bearing pump. This regulation states that water pumps shall have a minimum index MEI coming from a dedicated formula which considers hydraulic efficiency values at best efficiency point (BEP), 75 % of the flow at BEP (Part load PL) and 110 % of the flow at BEP (Over load OL).

The Regulation also establishes the following deadlines.

from	minimum efficiency index (MEI)
1 st January 2013	MEI ≥ 0,1
1 st January 2015	MEI ≥ 0,4

NSC2 models are out of the scope of the Regulation.

Regulation (EU) n. 547/2012 Annex II point 2 (Product information requirements)

- 1) Minimum efficiency index: see MEI values in specific tables on following page.
- 2) The benchmark for most efficient water pumps is MEI ≥ 0,70 .
- 3) Year of manufacture: 2014.
- 4) Manufacturer: Xylem Service Italia Srl - Reg. No 07520560967 - Montecchio Maggiore, Vicenza, Italy.
- 5) Product type: see the PUMP TYPE column in the tables in the *Hydraulic performance* section.
- 6) Hydraulic pump efficiency with trimmed impeller: see η_p and $\varnothing T$ columns in the tables in the *Hydraulic performance* section.
- 7) Pump performance curves, including the performance curve: see the *Operating Characteristics* graphs in the following pages.
- 8) The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter .
- 9) The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system .
- 10) Information relevant for disassembly, recycling or disposal at end-of-life: observe the current laws and by-laws governing sorted waste disposal. Consult the product operating manual.
- 11) Designed for use below 10 °C only : note not applicable to these products.
- 12) Designed for use above 120 °C only : note not applicable to these products.
- 13) Specific instructions for pumps as per points 11 and 12: not applicable to these products.
- 14) Information on benchmark efficiency is available at : www.europump.org (Ecodesign section).
- 15) The benchmark efficiency graphs with MEI = 0.7 and MEI = 0.4 are available at www.europump.org, Ecodesign, Efficiency charts (refer to ESCC 1450 rpm , ESCC 2900 rpm , ESOB 1450 rpm , ESOB 2900 rpm).

e-NSC 32, 40, 50 SERIES

HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 4 POLES

PUMP TYPE	P _N kW	Ø Impeller (mm)				Q = DELIVERY													
		STD	B	○ ●	ηp %	l/s 0	0,9	1,3	1,8	2,2	2,7	3,1	3,6	4,0	4,5	4,9	5,4	5,8	
						m³/h 0	3	5	6	8	10	11	13	14	16	18	19	21	
						H = TOTAL HEAD METRES COLUMN OF WATER													
32-125/02B	0,25	113	-	○	56,9	3,5	3,5	3,5	3,3	3,1	2,7	2,3							
32-125/02A	0,25	123	-	○	61,1	4,3		4,3	4,2	4,0	3,7	3,3	2,8	2,2					
32-125/02	0,25	133	-	○	63,4	5,3		5,4	5,3	5,1	4,9	4,5	4,1	3,6	2,9				
32-125/03	0,37	145	-	●	64,5	6,7			6,6	6,4	6,2	5,9	5,5	5,1	4,5	3,8	3,1		
32-160/02	0,25	137	-	○	58,5	5,5		5,5	5,4	5,1	4,8	4,3	3,7	3,0					
32-160/03	0,37	150	-	○	62,1	7,0		6,9	6,8	6,6	6,3	5,9	5,3	4,7	3,9				
32-160/05A	0,55	160,5	-	○	63,3	8,4		8,4	8,4	8,2	8,0	7,6	7,1	6,5	5,8	5,0	4,0		
32-160/05	0,55	171	-	●	63,4	9,5			9,5	9,3	9,1	8,8	8,3	7,8	7,1	6,2	5,3	4,2	
32-200/05A	0,55	158	-	○	54,3	7,9		7,9	7,7	7,4	6,7	5,9	4,9						
32-200/05	0,55	171	-	○	56,5	9,5		9,4	9,3	9,0	8,5	7,7	6,8	5,7					
32-200/07	0,75	186	-	○	58,5	11,9		11,9	11,8	11,6	11,3	10,8	10,0	9,1	7,9				
32-200/11	1,1	205	-	●	60,6	15,1			15,0	14,9	14,7	14,4	13,9	13,2	12,2	11,0			
NSC2 32-250/07	0,75	188	-	○	50,0	19,4		17,6	16,4	14,9	13,0	10,5							
NSC2 32-250/11	1,1	200	-	●	51,0	22,5		20,7	19,6	18,1	16,2	13,8	10,7						
32-250/11A	1,1	214	-	○	44,4	14,5			14,1	13,7	13,1	12,2	11,1						
32-250/15B	1,5	214	-	○	44,4	14,5			14,1	13,7	13,1	12,2	11,1						
32-250/11	1,1	226,5	-	○	45,7	16,3			15,9	15,5	15,0	14,2	13,2	11,9					
32-250/15A	1,5	226,5	-	○	45,7	16,3			15,9	15,5	15,0	14,2	13,2	11,9					
32-250/15	1,5	239	-	○	46,1	18,7				17,8	17,3	16,6	15,7	14,5	13,0				
32-250/22	2,2	259	-	●	46,7	22,6				21,9	21,5	20,9	20,2	19,3	18,1	16,6	14,6		

PUMP TYPE	P _N kW	Ø Impeller (mm)				Q = DELIVERY													
		STD	B	●	η _p %	l/s	0	1,3	2,1	2,8	3,6	4,3	5,0	5,8	6,5	7,2	8,0	8,7	9,4
						m³/h	0	5	7	10	13	15	18	21	23	26	29	31	34
						H = TOTAL HEAD METRES COLUMN OF WATER													
40-125/02A	0,25	105	-	○	66,1	3,6	3,6	3,5	3,4	3,1	2,8	2,4							
40-125/02	0,25	118	-	○	70,5	4,6		4,4	4,3	4,1	3,8	3,4	2,9						
40-125/03	0,37	130	-	○	73,3	5,6		5,5	5,4	5,3	5,0	4,7	4,3	3,8	3,2				
40-125/05	0,55	135	-	●	74,0	6,5			6,3	6,1	5,9	5,6	5,2	4,8	4,3	3,7			
40-160/03	0,37	127	-	○	66,6	5,2		5,3	5,2	5,0	4,6	4,1	3,6						
40-160/05	0,55	139	-	○	69,0	6,6		6,6	6,6	6,4	6,2	5,8	5,3	4,7					
40-160/07	0,75	154	-	○	70,8	8,3		8,4	8,4	8,4	8,2	7,9	7,6	7,1	6,4	5,7			
40-160/11	1,1	165	-	●	71,1	10,1			10,1	10,0	9,9	9,6	9,3	8,9	8,4	7,8	7,0		
40-200/07	0,75	165	-	○	59,5	9,0		8,9	8,8	8,6	8,2	7,5	6,5	5,2					
40-200/11	1,1	179	-	○	60,6	10,9		11,0	11,0	10,9	10,6	10,1	9,3	8,2	6,9				
40-200/15A	1,5	189	-	○	60,9	12,4			12,5	12,4	12,2	11,7	11,1	10,2	9,0	7,4			
40-200/15	1,5	199	-	●	62,8	14,0			14,0	13,9	13,6	13,3	12,8	12,0	11,1	9,8	8,3	6,4	
40-250/11	1,1	199	-	○	57,9	13,5			13,3	12,9	12,4	11,6	10,6						
40-250/15A	1,5	199	-	○	57,9	13,5			13,3	12,9	12,4	11,6	10,6						
40-250/15	1,5	210	-	○	58,8	15,1			14,9	14,7	14,3	13,6	12,7	11,6					
40-250/22A	1,5	228	-	○	59,1	18,0			18,0	17,8	17,5	17,1	16,4	15,5	14,3				
40-250/22	2,2	243	-	○	60,4	20,6				20,5	20,3	19,9	19,4	18,6	17,6	16,4			
40-250/30	3	257,5	-	●	63,9	24,4				24,1	23,9	23,6	23,1	22,5	21,6	20,6	19,2		

PUMP TYPE	P _N kW	Ø Impeller (mm)				Q = DELIVERY													
		STD	B	●	η _p %	l/s	0	2,3	3,9	5,5	7,2	8,8	10,4	12,0	13,6	15,2	16,8	18,4	20,0
						m³/h	0	8	14	20	26	32	37	43	49	55	60	66	72
						H = TOTAL HEAD METRES COLUMN OF WATER													
50-125/03	0,37	118	-	○	67,5	4,1			3,7	3,4	3,0	2,4	1,7						
50-125/05	0,55	130	-	○	69,8	5,2			4,8	4,5	4,1	3,5	2,8	2,0					
50-125/07	0,75	144	-	○	71,0	6,7			6,3	6,0	5,7	5,2	4,6	3,9	3,0				
50-125/11	1,1	148	-	●	74,6	7,6			7,2	7,0	6,7	6,3	5,8	5,2	4,4	3,6			
50-160/07	0,75	144	-	○	69,9	6,8			6,4	6,1	5,6	4,9	4,1						
50-160/11A	1,1	159	-	○	70,4	8,4			8,1	7,8	7,3	6,7	5,9	4,9					
50-160/11	1,1	170	-	○	71,8	9,6			9,3	9,0	8,6	8,0	7,3	6,4	5,4				
50-160/15	1,5	176	-	●	72,3	10,8			10,3	10,0	9,7	9,2	8,5	7,7	6,7	5,5			
50-200/11	1,1	168	-	○	68,9	8,9			9,1	9,0	8,7	8,0	6,9						
50-200/15A	1,5	168	-	○	68,9	8,9			9,1	9,0	8,7	8,0	6,9						
50-200/15	1,5	179	-	○	70,5	10,4			10,6	10,6	10,3	9,7	8,7	7,4					
50-200/22A	2,2	197	-	○	72,0	13,1			13,3	13,3	13,1	12,6	11,8	10,7	9,2				
50-200/22	2,2	209	-	●	73,3	15,1			15,1	15,1	14,8	14,4	13,7	12,7	11,4				
50-250/22A	2,2	208	-	○	67,2	14,7			14,6	14,3	13,6	12,6	11,1	9,0					
50-250/22	2,2	220	-	○	68,3	16,6			16,5	16,2	15,7	14,7	13,3	11,4					
50-250/30	3	232	-	○	68,5	18,7			18,6	18,3	17,8	16,9	15,7	13,9	11,6				
50-250/40	4	256	-	●	68,6	22,8				22,6	22,2	21,6	20,5	19,0	17,1	14,6			
50-315/40	4	265	-	○	60,0	22,6	22,5			22,2	21,7	21,0	20,2	19,2	17,9	16,1			
50-315/55	5,5	278	-	○	61,1	27,4			27,0	26,6	25,9	25,1	24,1	23,0	21,7	19,8	17,0		
50-315/75	7,5	304	-	○	63,2	33,3			33,1	32,8	32,2	31,4	30,4	29,4	28,3	27,0	25,2	22,5	
50-315/110	11	322	-	●	63,3	37,6			37,3	37,0	36,5	35,9	35,1	34,1	32,9	31,5	29,7	27,5	24,8

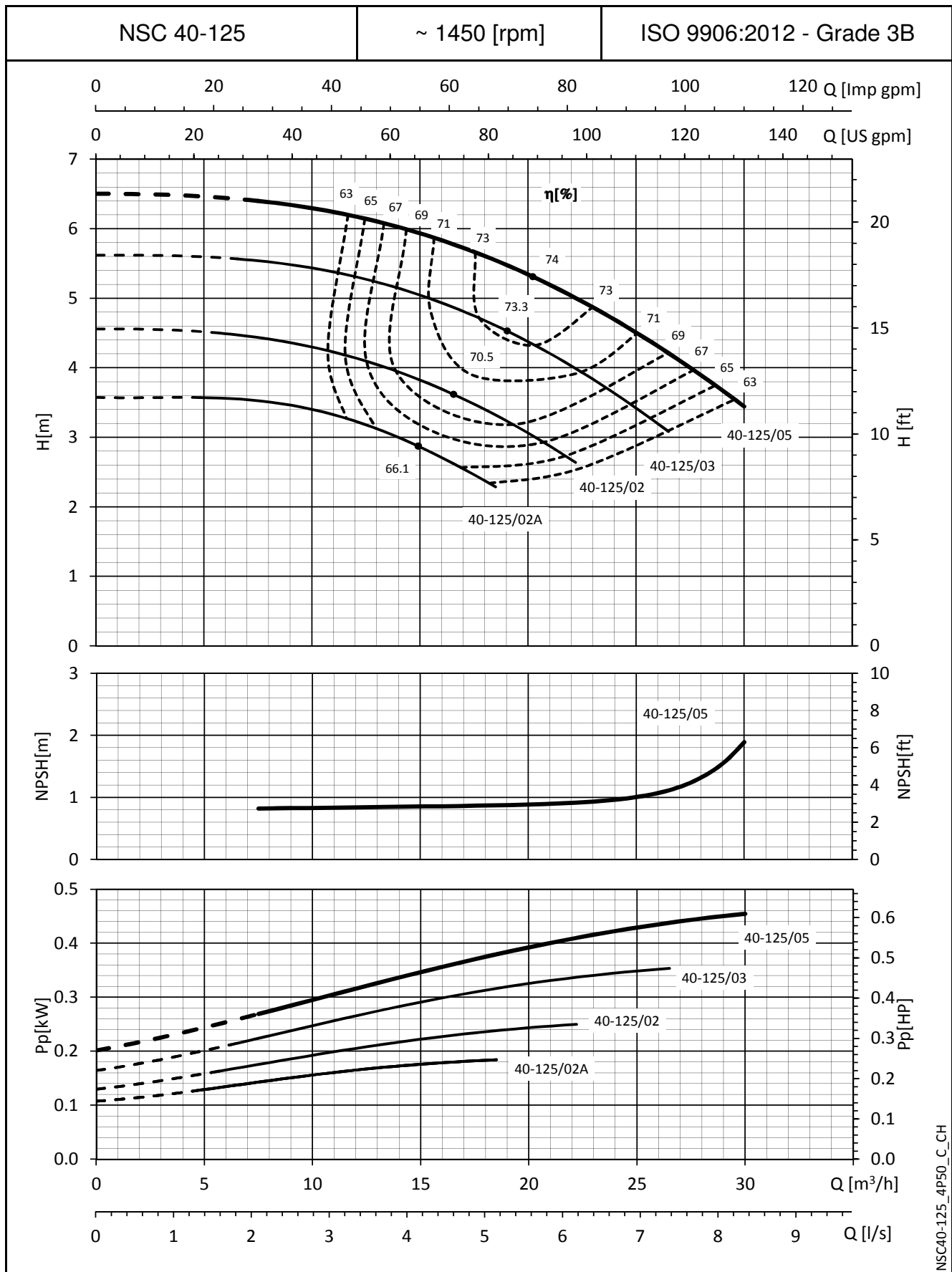
Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

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(1) STD = Cast iron/Stainless steel - B = Bronze (2) ● = Full impeller diameter - ○ = Trimmed impeller diameter (3) Hydraulic efficiency of pump.

e-NSC SERIES

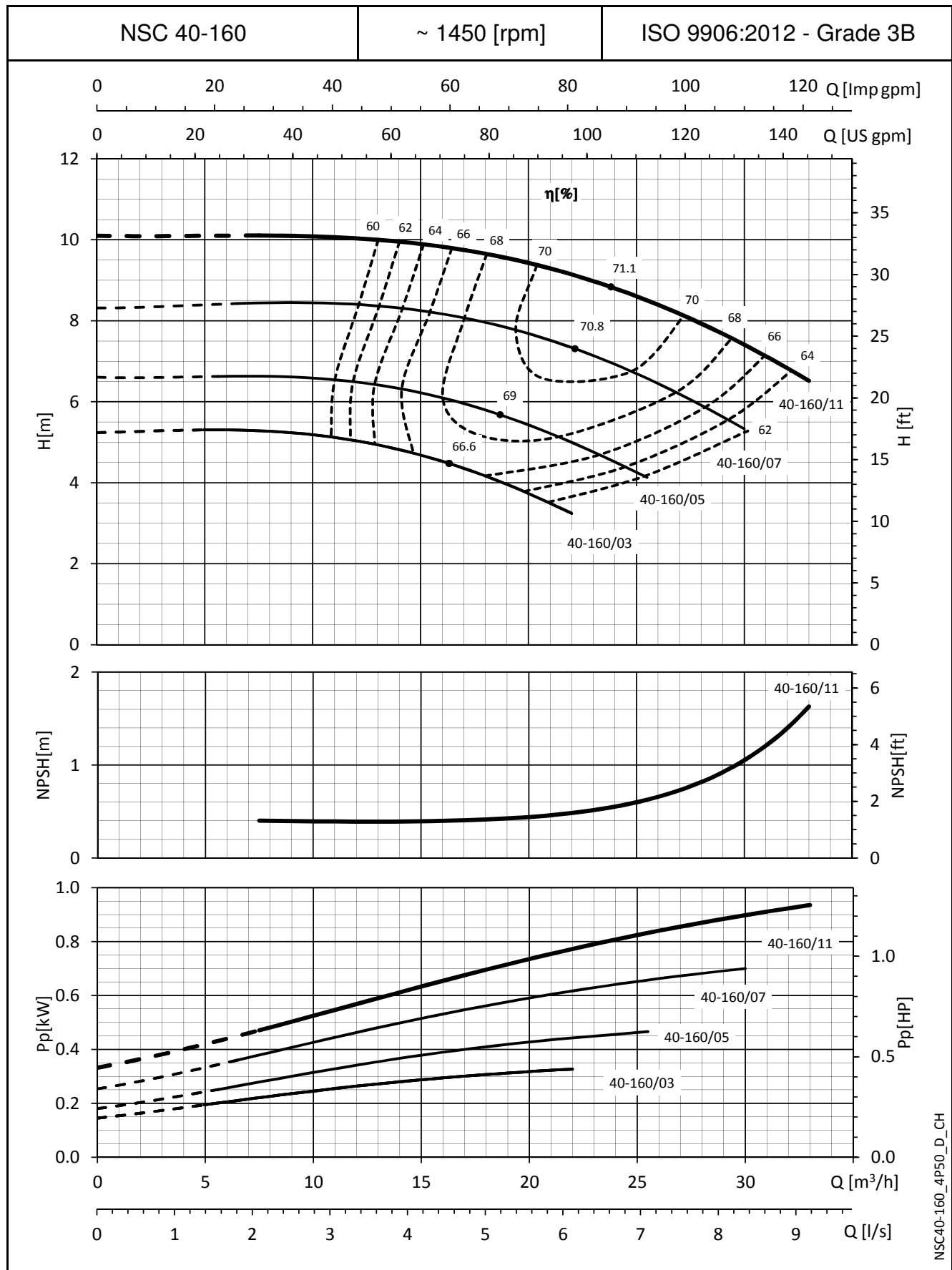
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density $\rho = 1,0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

e-NSC SERIES

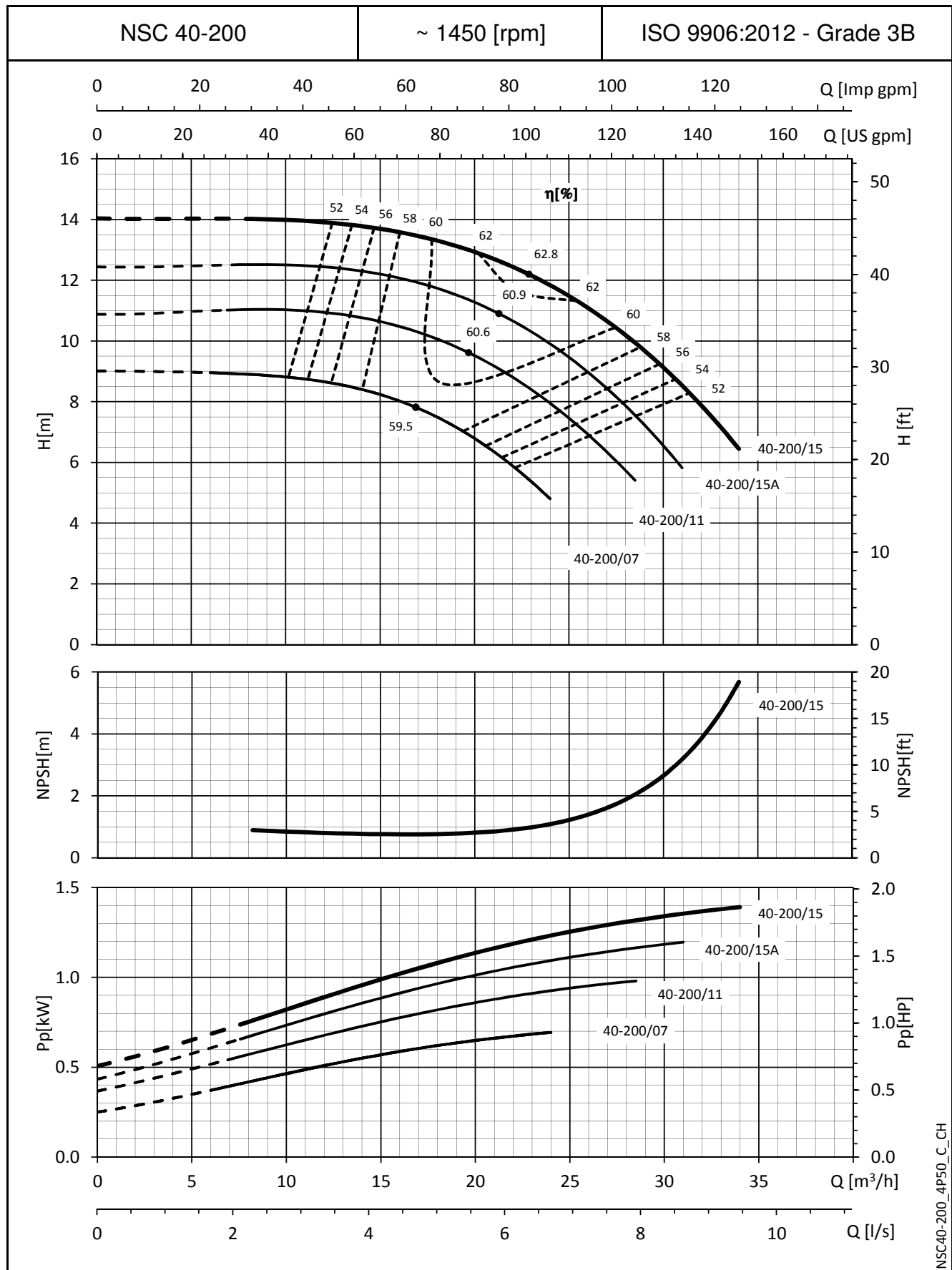
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



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These performances are valid for liquids with density $\rho = 1,0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

e-NSC SERIES

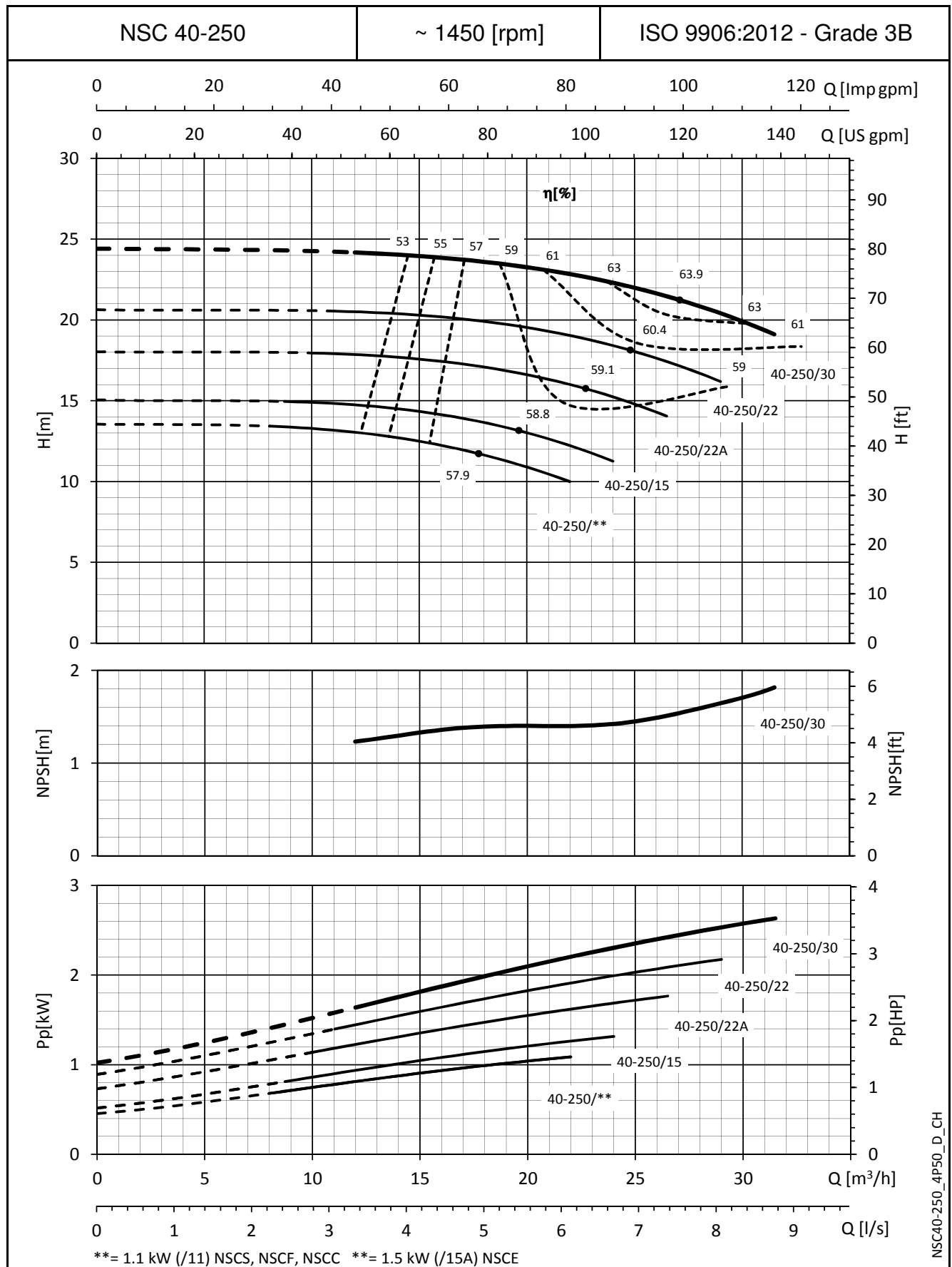
OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density $\rho = 1,0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

e-NSC SERIES

OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.
These performances are valid for liquids with density $\rho = 1,0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

NSCE 32, 40, 50 SERIES

DIMENSIONS AND WEIGHTS AT 50 Hz, 4 POLES

PUMP TYPE NSCE..4	TYPE	DIMENSIONS (mm)																		WEIGHT kg
		DNS	DND	a	AD	b	g1	h1	h2	m1	m2	n1	n2	s1	W	B max	H max	L	x	
32-125/02B/S	A	50	32	80	121	50	14	112	140	100	70	190	140	14	215	242	252	411	86	25
32-125/02A/S	A	50	32	80	121	50	14	112	140	100	70	190	140	14	215	242	252	411	86	25
32-125/02/S	A	50	32	80	121	50	14	112	140	100	70	190	140	14	215	242	252	411	86	25
32-125/03/S	A	50	32	80	121	50	14	112	140	100	70	190	140	14	215	242	252	411	86	25
32-160/02/S	A	50	32	80	121	50	14	132	160	100	70	240	190	14	215	248	292	411	86	26
32-160/03/S	A	50	32	80	121	50	14	132	160	100	70	240	190	14	215	248	292	411	86	26
32-160/05A/S	A	50	32	80	129	50	14	132	160	100	70	240	190	14	235	248	292	443	86	28
32-160/05/S	A	50	32	80	129	50	14	132	160	100	70	240	190	14	235	248	292	443	86	28
32-200/05A/S	A	50	32	80	129	50	14	160	180	100	70	240	190	14	235	286	340	443	86	35
32-200/05/S	A	50	32	80	129	50	14	160	180	100	70	240	190	14	235	286	340	443	86	35
32-200/07/X	A	50	32	80	128	50	14	160	180	100	70	240	190	14	-	286	340	411	86	36
32-200/11/P	A	50	32	80	134	50	14	160	180	100	70	240	190	14	245	286	340	478	86	42
32-250/15B/P	A	50	32	100	134	65	21	180	225	125	95	320	250	14	245	334	405	498	95	51
32-250/15A/P	A	50	32	100	134	65	21	180	225	125	95	320	250	14	245	334	405	498	95	51
32-250/15/P	A	50	32	100	134	65	21	180	225	125	95	320	250	14	245	334	405	498	95	51
32-250/22/P	A	50	32	100	168	65	21	180	225	125	95	320	250	14	285	334	405	522	95	61
40-125/02A/S	A	65	40	80	121	50	14	112	140	100	70	210	160	14	215	237	252	411	96	26
40-125/02/S	A	65	40	80	121	50	14	112	140	100	70	210	160	14	215	237	252	411	96	26
40-125/03/S	A	65	40	80	121	50	14	112	140	100	70	210	160	14	215	237	252	411	96	26
40-125/05/S	A	65	40	80	129	50	14	112	140	100	70	210	160	14	235	237	252	443	96	28
40-160/03/S	A	65	40	80	121	50	14	132	160	100	70	240	190	14	215	250	292	411	92	28
40-160/05/S	A	65	40	80	129	50	14	132	160	100	70	240	190	14	235	250	292	443	92	30
40-160/07/X	A	65	40	80	128	50	14	132	160	100	70	240	190	14	-	250	292	411	92	34
40-160/11/P	A	65	40	80	134	50	14	132	160	100	70	240	190	14	245	250	292	478	92	40
40-200/07/X	A	65	40	100	128	50	14	160	180	100	70	265	212	14	-	290	340	431	90	36
40-200/11/P	A	65	40	100	134	50	14	160	180	100	70	265	212	14	245	290	340	498	90	42
40-200/15A/P	A	65	40	100	134	50	14	160	180	100	70	265	212	14	245	290	340	498	90	42
40-200/15/P	A	65	40	100	134	50	14	160	180	100	70	265	212	14	245	290	340	498	90	45
40-250/15A/P	A	65	40	100	134	65	16	180	225	125	95	320	250	14	245	338	405	498	104	54
40-250/15/P	A	65	40	100	134	65	16	180	225	125	95	320	250	14	245	338	405	498	104	54
40-250/22A/P	A	65	40	100	168	65	16	180	225	125	95	320	250	14	285	338	405	522	104	64
40-250/22/P	A	65	40	100	168	65	16	180	225	125	95	320	250	14	285	338	405	522	104	64
40-250/30/P	A	65	40	100	168	65	16	180	225	125	95	320	250	14	285	338	405	553	104	68
50-125/03/S	A	65	50	100	121	50	14	132	160	100	70	240	190	14	217	255	292	433	107	29
50-125/05/S	A	65	50	100	129	50	14	132	160	100	70	240	190	14	237	255	292	465	107	31
50-125/07/X	A	65	50	100	128	50	14	132	160	100	70	240	190	14	-	255	292	433	107	35
50-125/11/P	A	65	50	100	134	50	14	132	160	100	70	240	190	14	247	255	292	500	107	41
50-160/07/X	A	65	50	100	128	50	14	160	180	100	70	265	212	14	-	289	340	431	103	39
50-160/11A/P	A	65	50	100	134	50	14	160	180	100	70	265	212	14	245	289	340	498	103	45
50-160/11/P	A	65	50	100	134	50	14	160	180	100	70	265	212	14	245	289	340	498	103	45
50-160/15/P	A	65	50	100	134	50	14	160	180	100	70	265	212	14	245	289	340	498	103	48
50-200/15A/P	A	65	50	100	134	50	14	160	200	100	70	265	212	14	247	305	360	498	98	48
50-200/15/P	A	65	50	100	134	50	14	160	200	100	70	265	212	14	247	305	360	498	98	48
50-200/22A/P	A	65	50	100	168	50	14	160	200	100	70	265	212	14	287	305	360	522	98	58
50-200/22/P	A	65	50	100	168	50	14	160	200	100	70	265	212	14	287	305	360	522	98	58
50-250/22A/P	A	65	50	100	168	65	16	180	225	125	95	320	250	14	285	352	405	522	110	65
50-250/22/P	A	65	50	100	168	65	16	180	225	125	95	320	250	14	285	358	405	522	110	65
50-250/30/P	A	65	50	100	168	65	16	180	225	125	95	320	250	14	285	358	405	553	110	69
50-250/40/P	A	65	50	100	168	65	16	180	225	125	95	320	250	14	345	358	405	582	110	88

NOTE: Pumps with flanges according to EN 1092-2 as standard; available ASME B16.5 version on request.

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