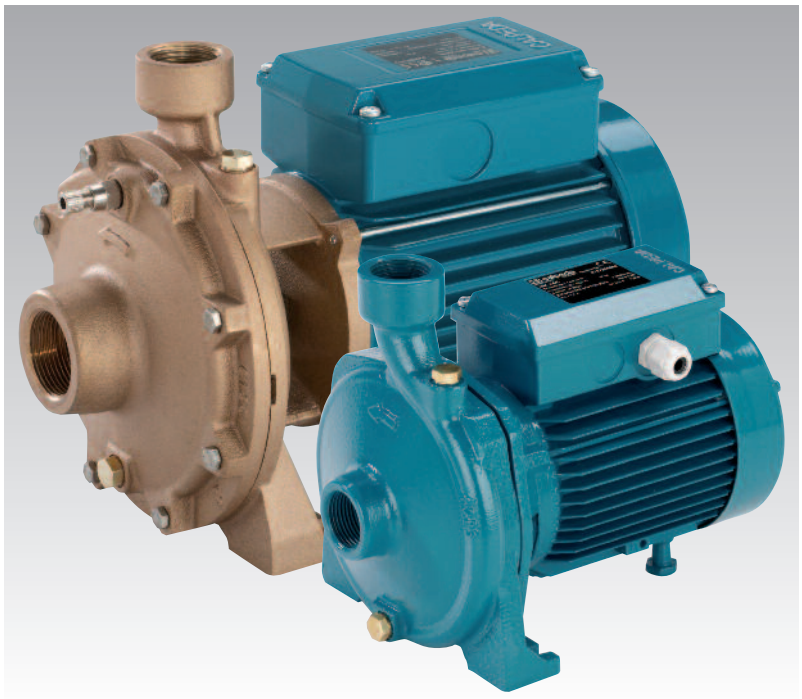
NM, NMD

Close Coupled Centrifugal Pumps
with threaded ports



The electropumps NM, B-NM series comply with the European Regulation no. 547/2012 in force starting from 01.01.2013.

Materials

Components		NM, NMD	B-NM, B-NMD
Pump casing Lantern bracket		Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Impeller		Brass P- Cu Zn 40 Pb 2 UNI 5705	
	NM 17	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Shaft		Cr steel AISI 430	Cr Ni Mo steel AISI 316
		Cr Ni steel AISI 303 1,1 -1,5 - 2,2 kW	
Mechanical seal		Carbon - Ceramic - NBR	

Construction

Close-coupled, centrifugal pumps; electric motor with extended shaft directly connected to the pump.
NM: single-impeller
NMD: with two back-to-back impellers (with axial thrust balancing).
Connections: threaded ports ISO 228/1 (BS 2779).
NM, NMD: version with pump casing and lanter bracket in cast iron.
B-NM, B-NMD: version with pump casing and lanter bracket in bronze. (the pumps are supplied fully painted).

Applications

For clean liquids without abrasives, which are non-aggressive for the pump materials (solids content up to 0.2%).
For water supply.
For heating, air-conditioning, cooling and circulation plants.
For civil and industrial applications.
For fire fighting applications. For irrigation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40° C.
Total suction lift up to 7 m.
Maximum permissible working pressure up to 10 bar
(16 bar for pumps NMD 25/190; NMD 32/210; NMD 40/180).
Continuous duty.

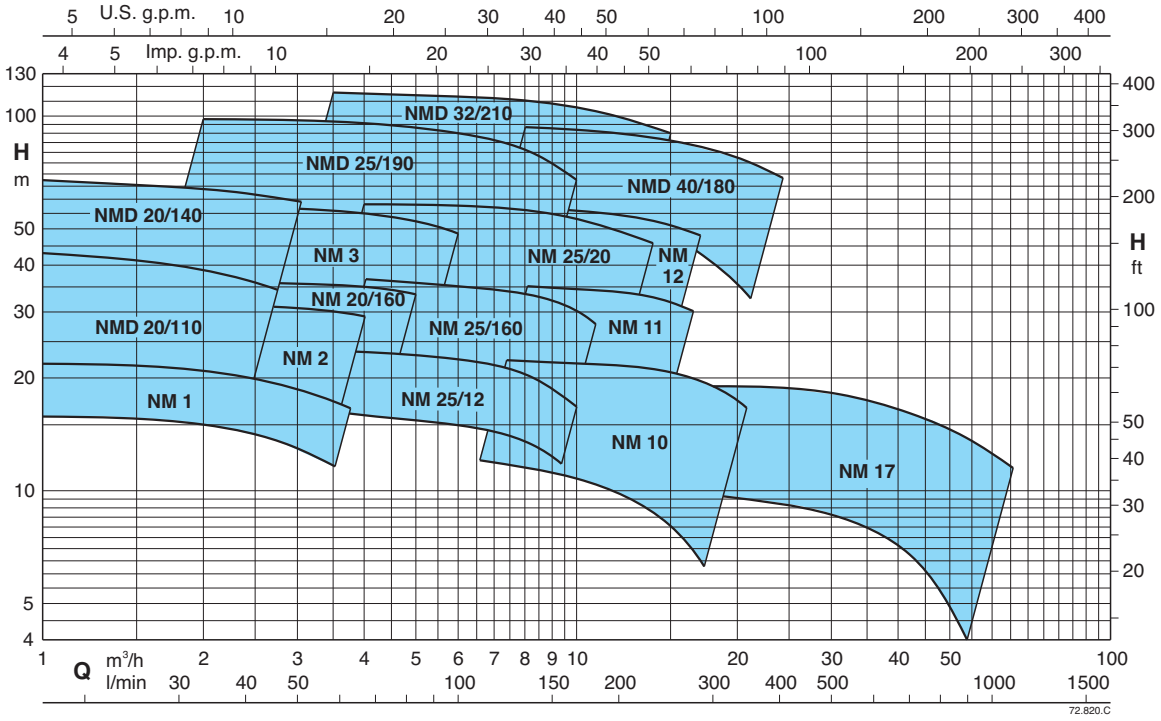
Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
NM, NMD: three-phase 230/400 V ± 10% up to 3 kW;
400/690 V ± 10% from 4 to 9,2 kW;
NMM, NMDM: single-phase 230 V ± 10%, with thermal protector.
Insulation class F. Protection IP 54.
Classification scheme IE2 for three-phase motors from 0,75 kW.
Constructed in accordance with EN 60034-1; EN 60034-30.
EN 60335-1, EN 60335-2-41.

Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal
- Higher or lower liquid or ambient temperatures.
- Motor suitable operation with frequency converter.

Coverage chart n ≈ 2900 rpm



NM, NMD

Close Coupled Centrifugal Pumps
with threaded ports

calpeda®

Performance n ≈ 2900 rpm

	NM	P_2 kW	P_2 HP	Q m^3/h	1	1,2	1,5	1,89	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,5	8,4
				l/min	16	20	25	31,5	40	50	60	70	80	90	100	110	125	140
	NM 1/AE●	0,37	0,5		22	21,6	21,3	20,9	20,3	19,4	18,1	16,3						
	NM 2/B/A●	0,55	0,75		27	26,5	26	25,5	25	24	23	22	20					
	NM 2/S/A●	0,55	0,75		31	30,5	30	29	27,5	25,5	23,5	20	16					
	NM 2/A/A●	0,75	1	H	33,5	33	32,5	32	31,5	30,5	29,5	28,5	27	26	24			
	NMM 3/CE	1,1	1,5	m		37,5	37,5	37	36,5	36	35	34	32					
	NM 3/CE	1,1	1,5			37,5	37,5	37	36,5	36	35	34	32	30,5	28,5			
	NMM 3/BE	1,5	2			42	42	41,5	41	40,5	40	39	37	35	32			
	NM 3/BE	1,5	2			47	47	46,5	46	45,5	45	44	43	41,5	40	37,5	33	26
	NMM 3/A	1,8	2,5			47,5	47,5	47	46,5	46	45,5	44,5	43,5	42	40,5	38	33,5	26,5
	NM 3/A/A	2,2	3			56	55,5	55,5	55	54,5	53,5	52,5	51,5	50	48	46	42	36

B-NM B-NMD	NM NMD	P_2 kW	P_2 HP	Q m^3/h	1	1,2	1,5	1,89	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,5	8,4
				l/min	16	20	25	31,5	40	50	60	70	80	90	100	110	125	140
B-NMD 20/110B/A●	NMD 20/110B/A●	0,45	0,6		33	32	31	29	26,5	23	18							
B-NMD 20/110Z/A●	NMD 20/110Z/A●	0,55	0,75		37	36	35	33	30,5	27,5	23	18						
B-NMD 20/110A/A●	NMD 20/110A/A●	0,75	1		43	42	40,5	39	36,5	33	29	25						
B-NMDM 20/140BE	NMDM 20/140BE	1,1	1,5	H	52	51,5	51	50	48,5	47	45							
B-NMD 20/140BE	NMD 20/140BE	1,1	1,5	m	53	52,5	52	51	50	48	46	43,5	40					
B-NMDM 20/140AE	NMDM 20/140AE	1,5	2		57,5	57	56,5	55,5	54	51,5	49	46	43	40	36			
B-NMD 20/140AE	NMD 20/140AE	1,5	2		67	66,5	66	64,5	63	61,5	59	57	53,5	50	46			
B-NM 20/160BE●	NM 20/160BE●	0,75	1					30,5	30	29,5	28,5	27,5	26,5	25,5	24	22		
B-NM 20/160AE●	NM 20/160AE●	1,1	1,5					36	35,5	35	34,5	33,5	32	30,5	29	27		

B-NM B-NMD	NM NMD	P_2 kW	P_2 HP	Q m^3/h	2,4	3	3,6	4,8	6	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8
				l/min	40	50	60	80	100	110	125	140	160	180	200	220	250	280
B-NM 25/12B/A●	NM 25/12B/A●	0,55	0,75		20	19,9	19,8	19,3	18,5	18	17,3	16,3	15	13,2	11			
B-NM 25/12A/A●	NM 25/12A/A●	0,75	1		23,5	23,4	23,3	22,9	22,1	21,7	20,9	20	18,7	17,1	15,2			
B-NM 25/160BE●	NM 25/160BE●	1,1	1,5			31	30,7	30	28,5	28	27	26	23					
B-NM 25/160AE●	NM 25/160AE●	1,5	2			36,5	36,2	35,5	34,5	34	33,5	32,5	31	28,5	26			
B-NM 25/200B/A	NM 25/20B/A	2,2	3	H		42,5	42	41	40	39,5	38,5	37,5	36	33	29*			
B-NM 25/200A/A	NM 25/20A/A	3	4	m		50	49,7	49	48	47,5	47	46,5	45,5	44	42*	39*		
B-NM 25/200S/A	NM 25/20S/A	4	5,5			59	58,5	58	57,5	57	56,5	55,5	54,5	53	51,5*	49*	44,5*	37*
B-NMD 25/190C/A	NMD 25/190C/A	2,2	3		62	60,5	59	55,5	51	48,5	44	38						
B-NMD 25/190B/A	NMD 25/190B/A	3	4		76	75	74	70	66	64	60	54	46					
B-NMD 25/190A/A	NMD 25/190A/A	4	5,5		98	97	96	93,5	90	88	84	79	70					

	NM	P_2 kW	P_2 HP	Q m^3/h	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	30
				l/min	110	125	140	160	180	200	220	250	280	315	350	400	450	500
	NM 10/FE●	0,55	0,75		12,5	12,5	12	11,5	11	10	9	7,5						
	NM 10/DE●	0,75	1		18	18	17,5	17	16,5	16	15,5	14						
	NM 10/AE●	1,1	1,5		23	23	22,5	22	21,5	21	20,5	19						
	NM 10/SE●	1,5	2		23,5	23,5	23	22,5	22	21,5	21	20,5	19	18,5	16,5	13		
	NMM 11/BE	1,5	2	H	26,5	25,5	25	24	23	22,5	21,5	19,5	17,5					
	NM 11/BE	1,5	2	m	29,5	29,5	29	28,5	27,5	27	26	25*	22,5*					
	NM 11/A/A	2,2	3		35,5	35,5	35	34,5	34	33,5	33	32*	30*					
	NM 12/D/A	2,2	3		38	37,5	37	36	35	33,5	32							
	NM 12/C/A	3	4		45	44,5	44	43,5	42,5	41	40	38	36					
	NM 12/A/A	4	5,5		57,5	57	56	55,5	55	54,5	53,5	51,5	49					

NM, NMD

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with threaded ports

calpeda®

Performance n ≈ 2900 rpm

B-NMD	NMD	P2		Q m³/h	5,4	6	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24
		kW	HP	l/min	90	100	110	125	140	160	180	200	220	250	280	315	350	400
B-NMD 32/210D/A	NMD 32/210D/A	4	5,5		71	69	67,5	65	62,5	58	53	46	37*					
B-NMD 32/210C/A	NMD 32/210C/A	5,5	7,5		84	83	82	81	79	76	73	69	64*	54*				
B-NMD 32/210B/A	NMD 32/210B/A	7,5	10		104	103	102	100	98	95	92	88	84*	76*				
B-NMD 32/210A/A	NMD 32/210A/A	9,2	12,5	H	114	113	112	110	108	105	103	99	96*	90*				
B-NMD 40/180D/A	NMD 40/180D/A	4	5,5	m				60	59,5	57	56	53	51,5	48	44	39	34*	25*
B-NMD 40/180C/A	NMD 40/180C/A	5,5	7,5					69	68	67	66	64,5	63	60	57	53	48*	40*
B-NMD 40/180B/A	NMD 40/180B/A	7,5	10					87	86	85	84	82,5	81	78	75	71	66*	59*
B-NMD 40/180A/A	NMD 40/180A/A	9,2	12,5					94	93	92	91	89,5	88	85	82	78	74*	67*

B-NM	NM	P2		Q m³/h	21	24	27	30	33	37,8	42	48	54	60	66	75	84	96
		kW	HP	l/min	350	400	450	500	550	630	700	800	900	1000	1100	1250	1400	1600
B-NM 17/HE●	NM 17/HE●	1,1	1,5		9,5	9,2	9	8,6	8,2	7,5	6,7	5,5	3,5*					
B-NM 17/GE●	NM 17/GE●	1,5	2	H	12	11,7	11,5	11,2	11	10,3	9,7	8,5	7*	4*				
B-NM 17/F/A	NM 17/F/A	2,2	3	m		16	16	15,5	15	14,5	14	13	11,5*	10*	8*			
B-NM 17/D/A	NM 17/D/A	3	4				18	18	17,5	17	16,5	15,5	14*	13*	11,5*			

NM, NMD Standard construction.
B-NM, B-NMD Bronze construction.

P2 Rated motor power output.
H Total head in m.

● With single-phase motor = NMM - NMDM.
* Maximum suction lift 1-2 m.
Tolerances according to UNI EN ISO 9906:2012

Regulation (EU) No 547/2012

- The benchmark for most efficient water pumps is MEI ≥ 0,70.
- 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.
- 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.

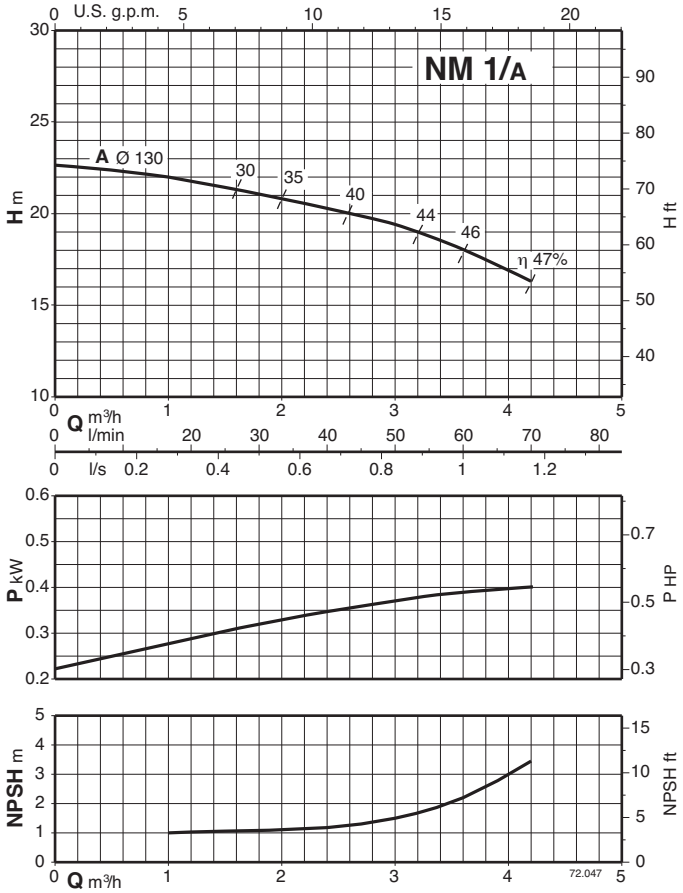
Rated currents

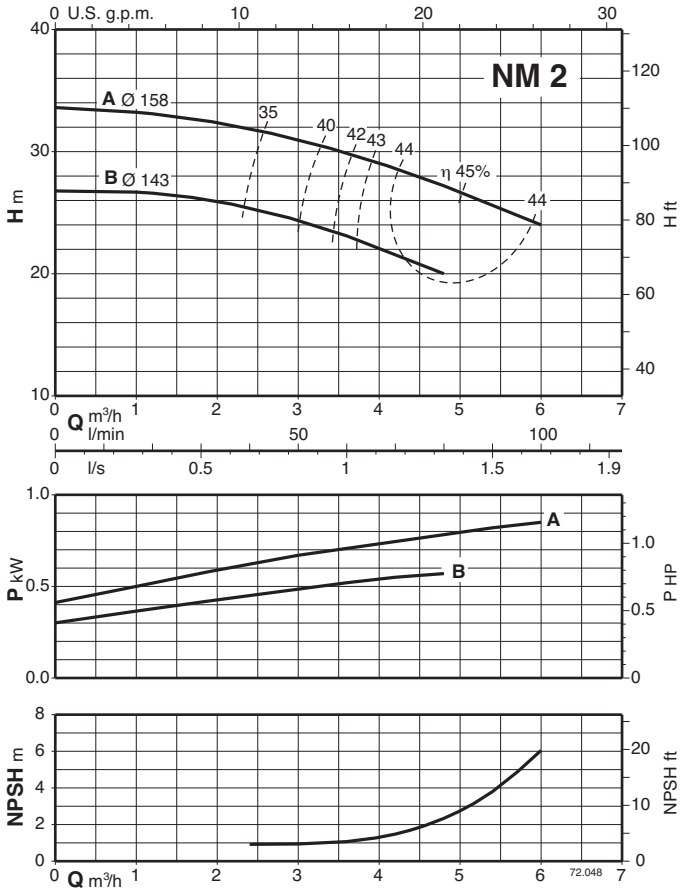
P1	P2		230 V 1~	
kW	kW	HP	IN A	IA/IN
0,62	0,37	0,5	3	2,7
0,72	0,45	0,6	3,6	2,9
0,91	0,55	0,75	4,5	3,1
1,2	0,75	1	5,8	3
1,6	1,1	1,5	7,4	3
2	1,5	2	9,2	3,8
2,5	1,8	2,5	11,2	4,5

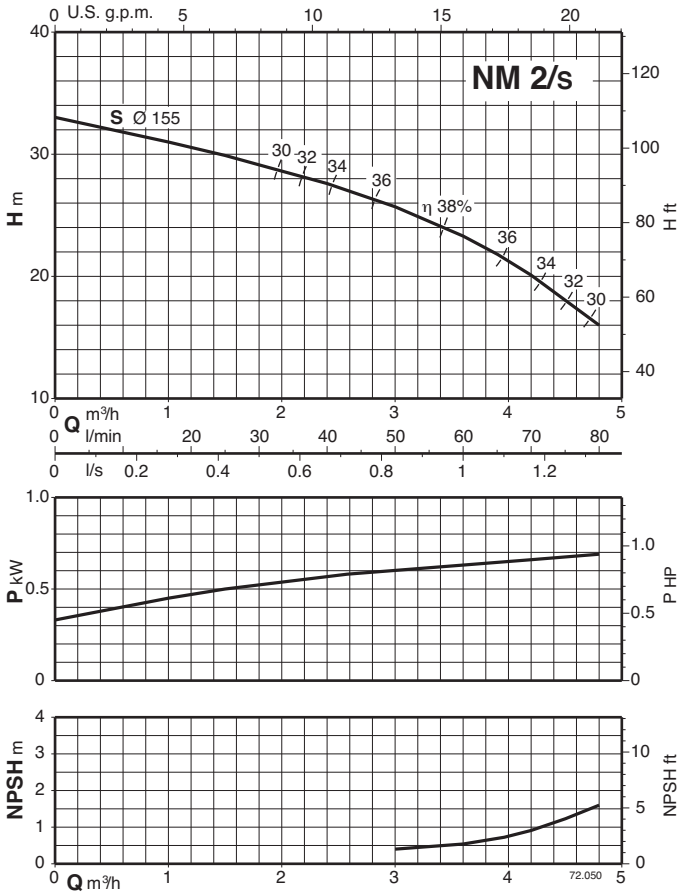
P2		230 V Δ / 400 V Y			
			400 V Δ / 690 V Y		
kW	HP	IN A	IN A	IN A	IA/IN
0,37	0,5	2,3	1,3		3,8
0,45	0,6	2,3	1,3		3,5
0,55	0,75	3	1,7		4,3
0,75	1	3,7	2,2		3,9
1,1	1,5	4,6	2,7		5,6
1,5	2	7,5	4,3		5,5
2,2	3	9,15	5,3		7,4
3	4	11,5	6,6		8,2
4	5,5		9,6	5,5	7,6
5,5	7,5		10,9	6,3	9,1
7,5	10		14,3	8,3	9,1
9,2	12,5		18,5	10,7	8,2

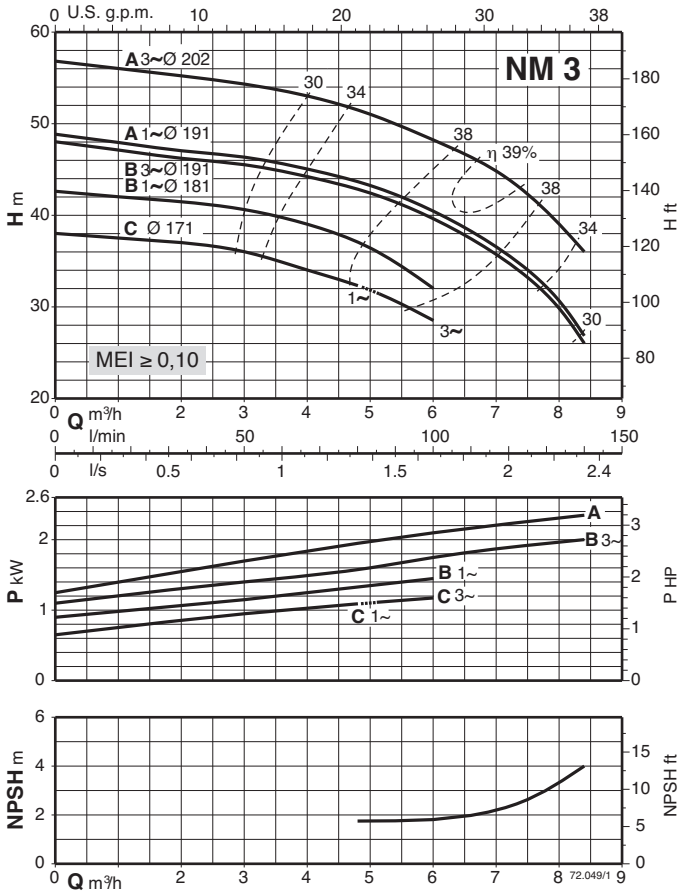
P1 Maximum power input.
P2 Rated motor power output.
IA/IN D.O.L. starting current / Nominal current

Characteristic curves n ≈ 2900 rpm









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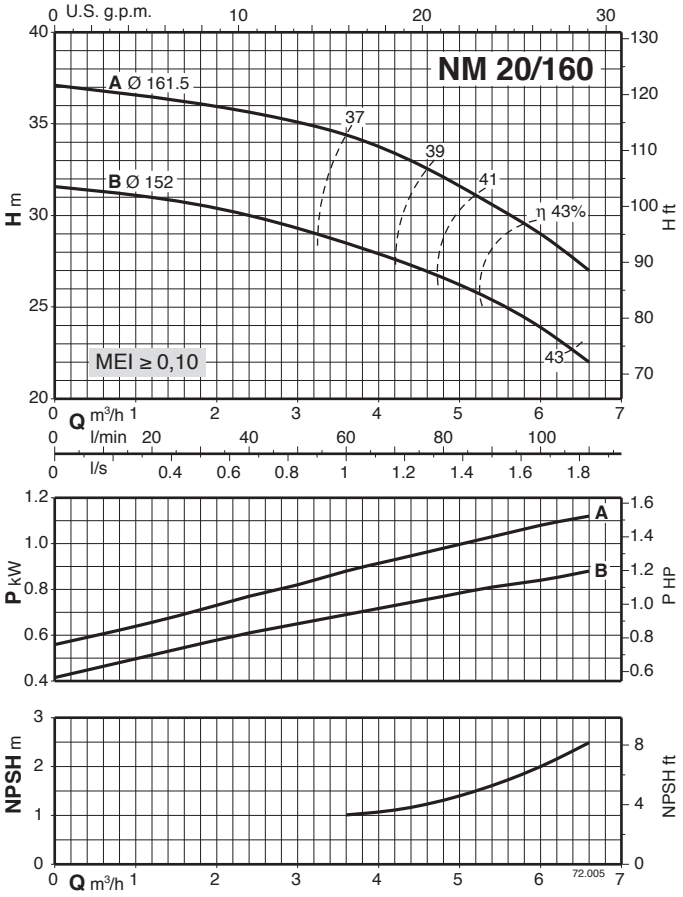
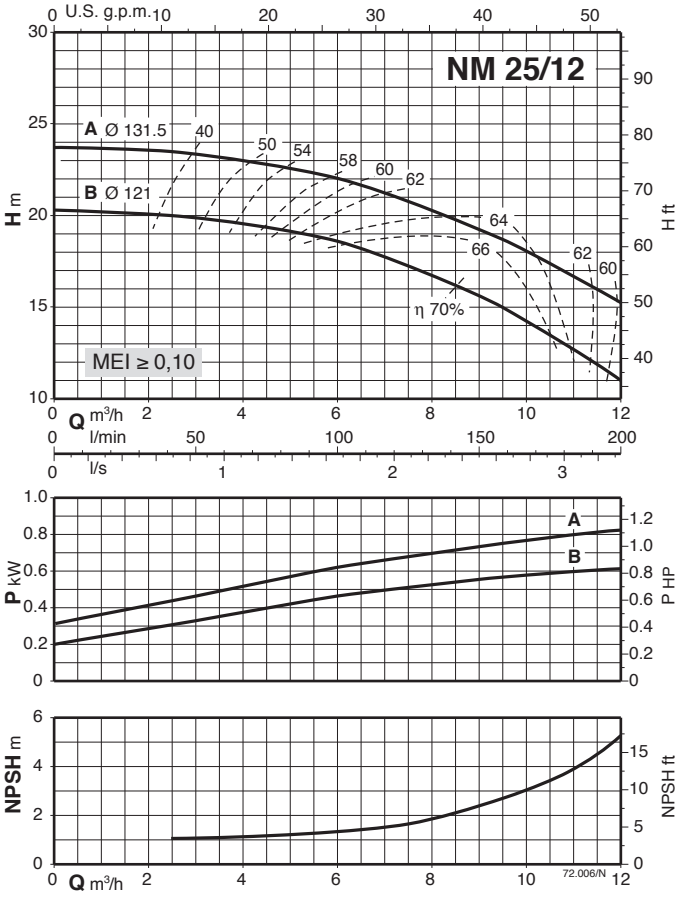
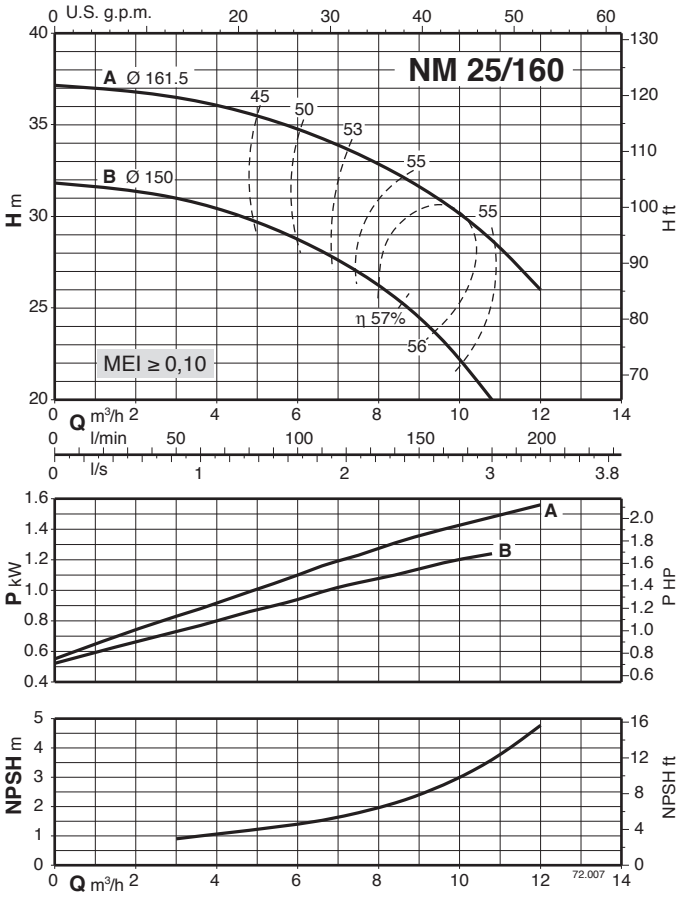
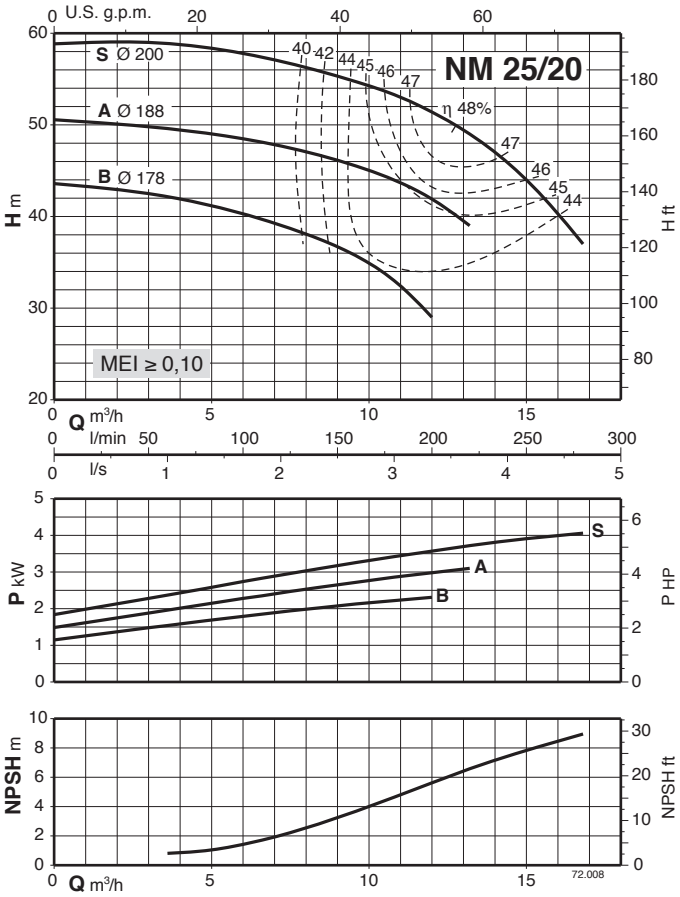
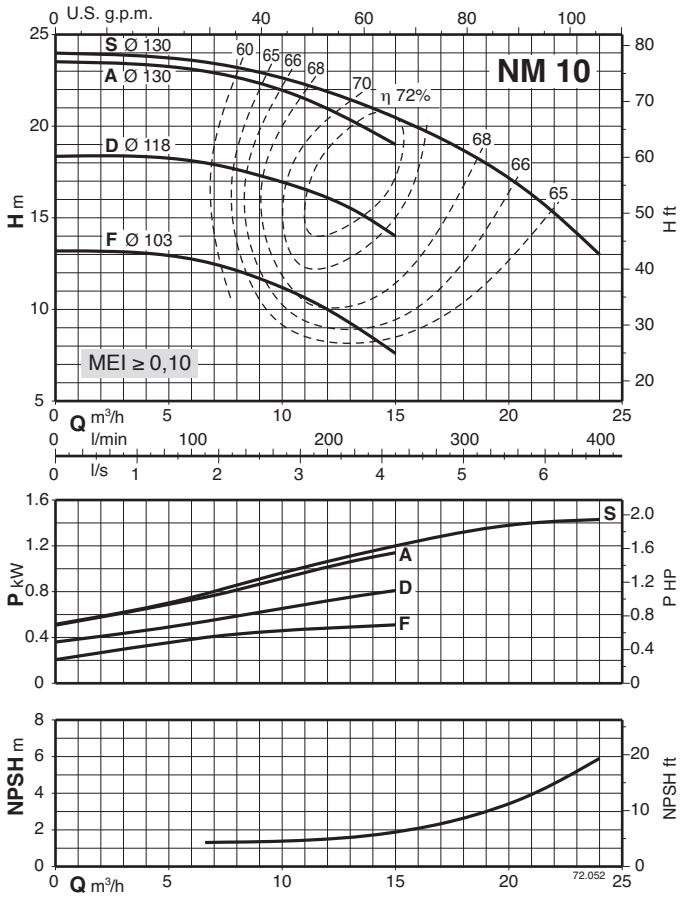


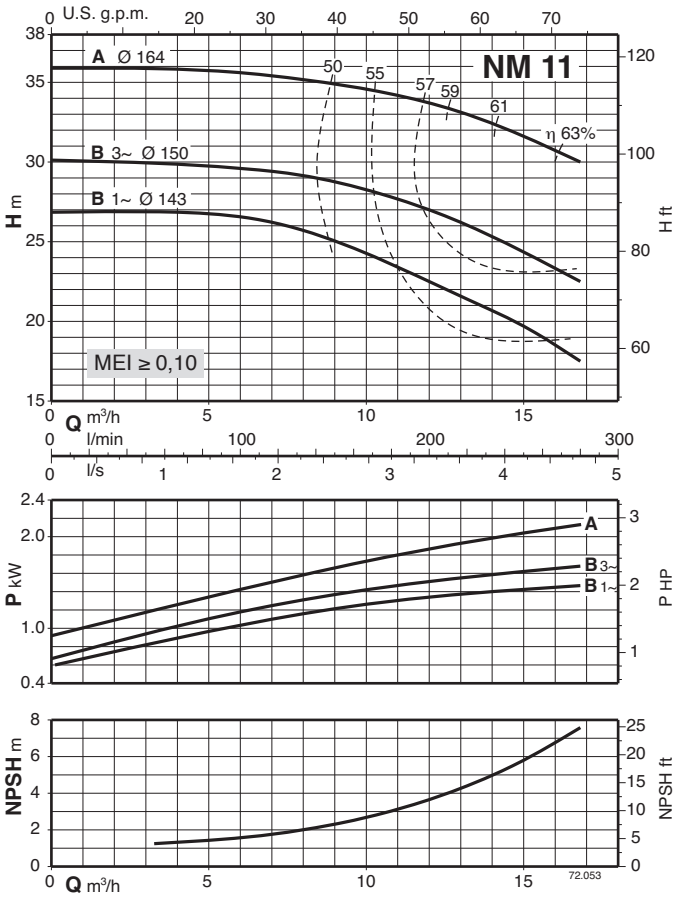


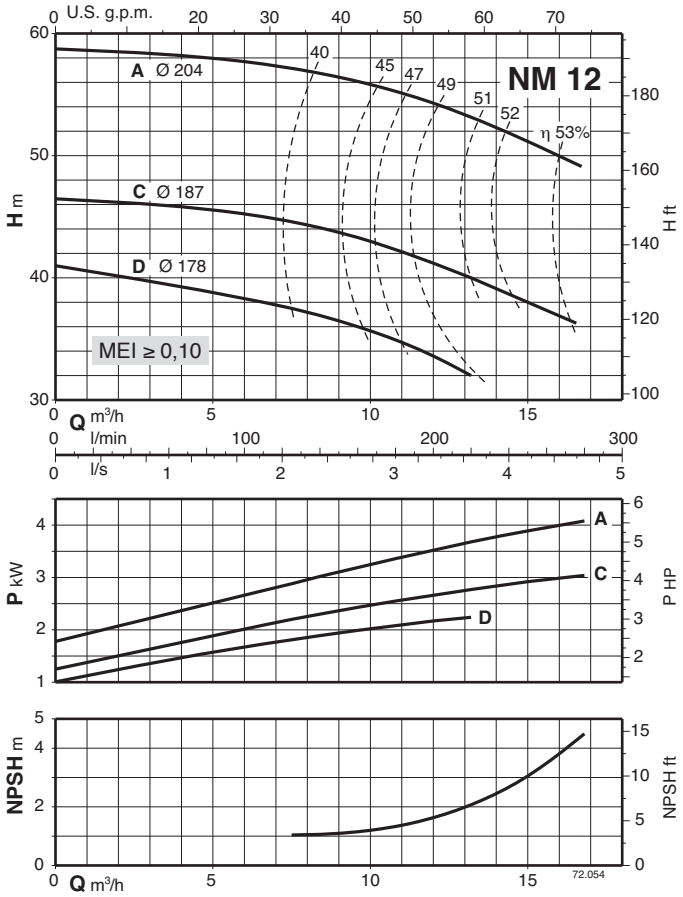


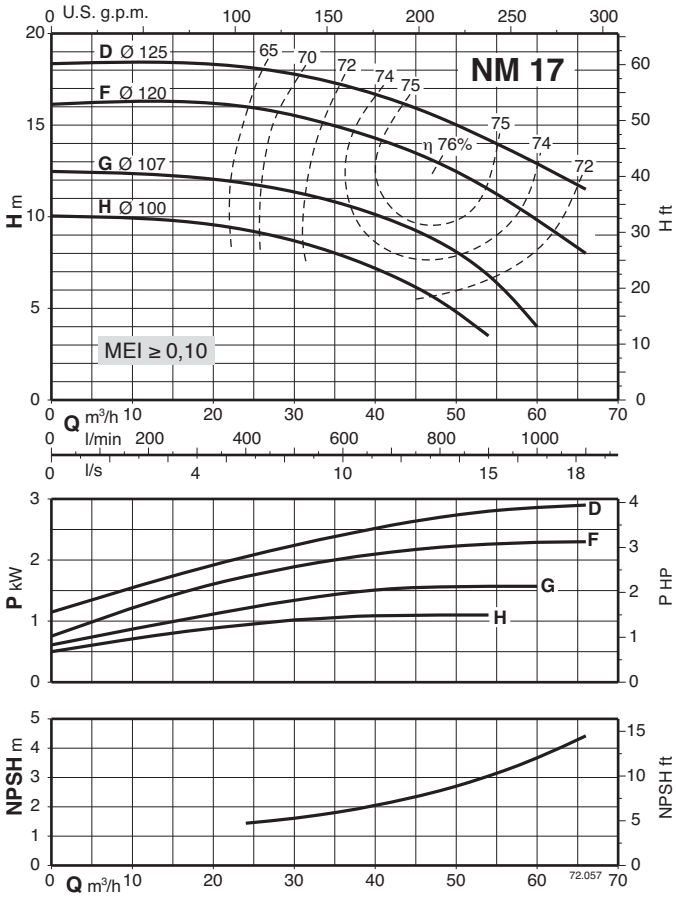


Characteristic curves n ≈ 2900 rpm

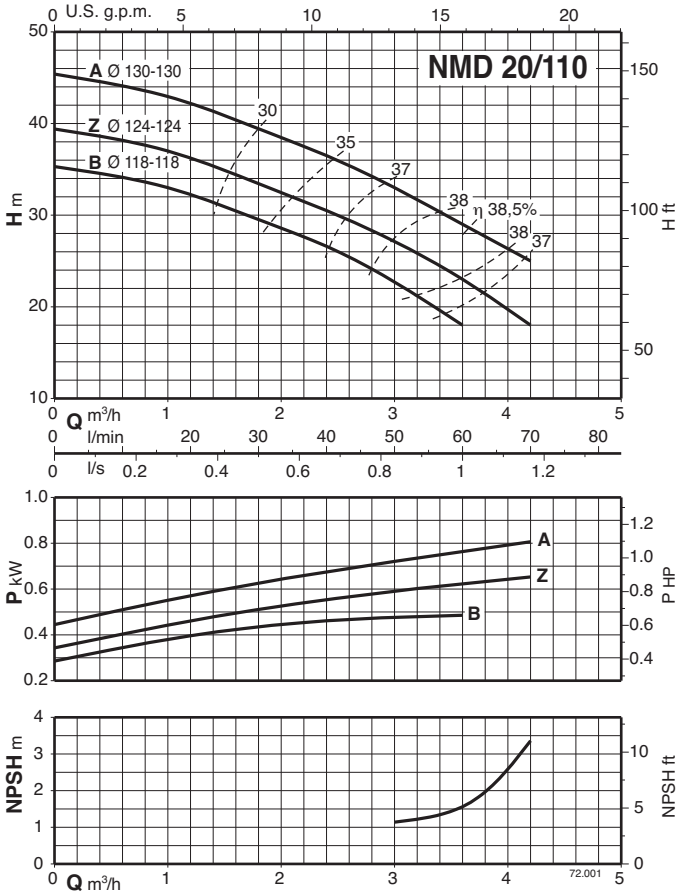


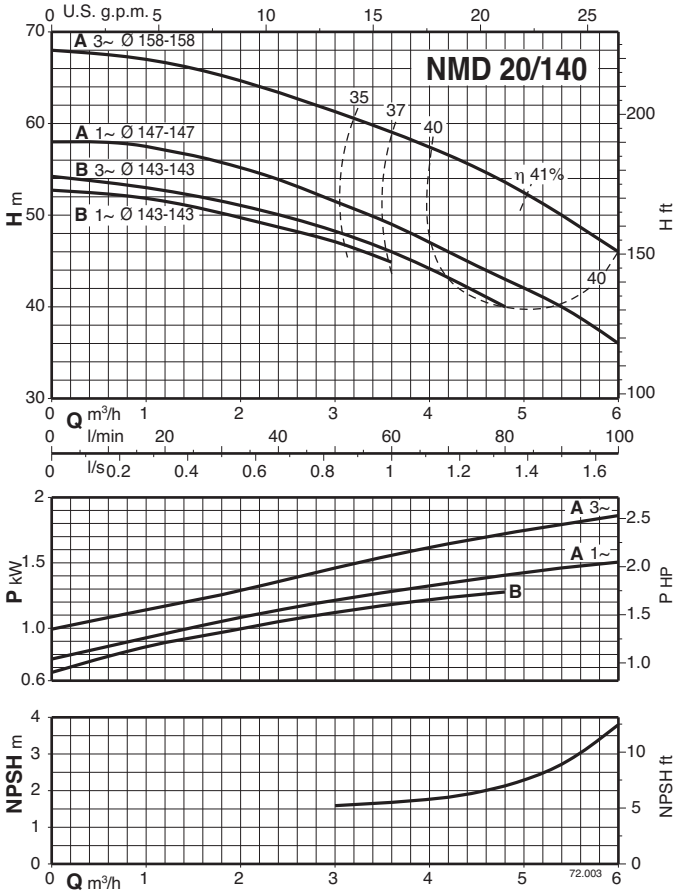


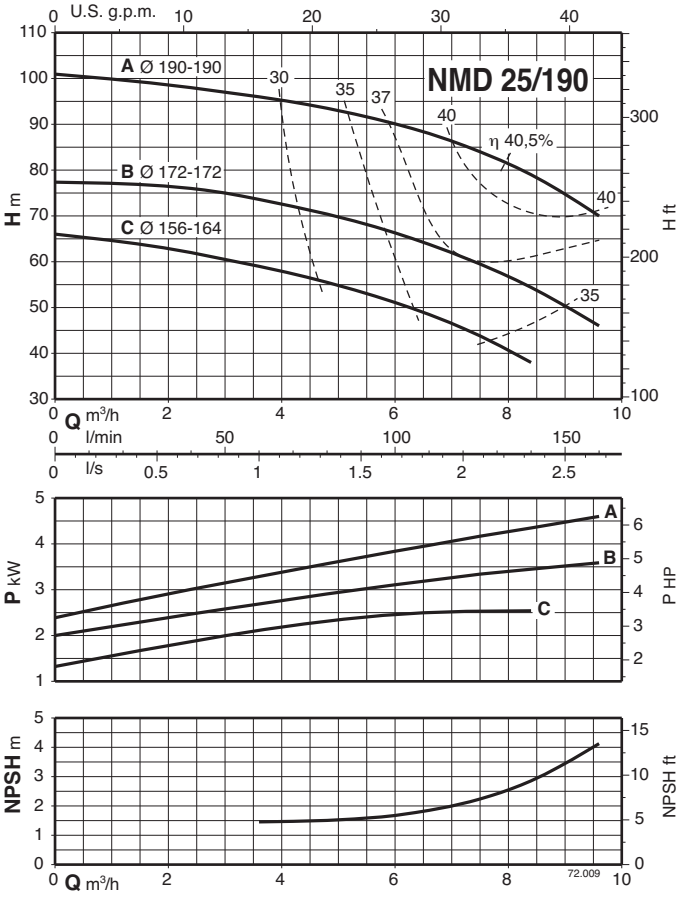




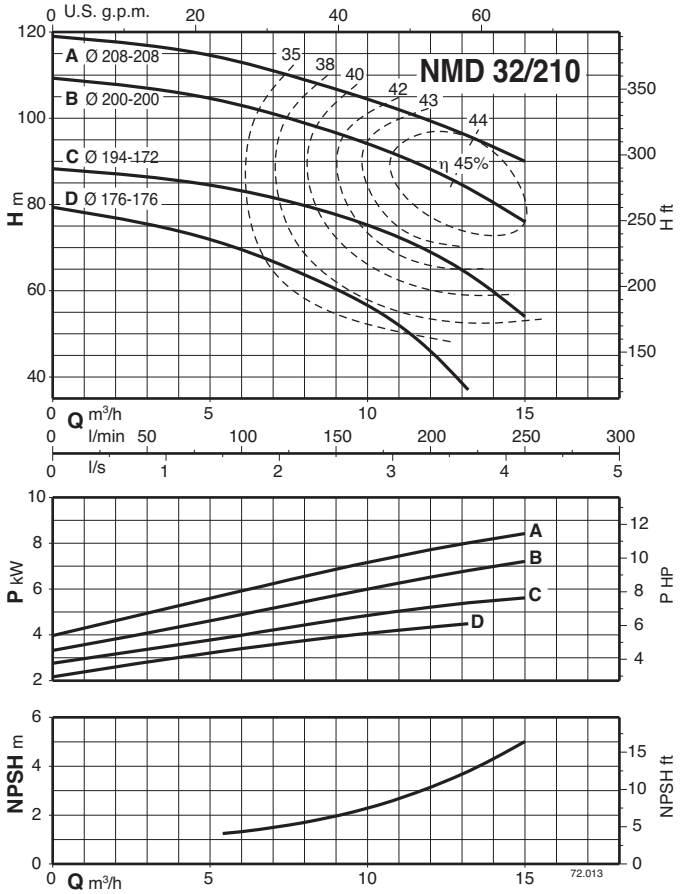
Characteristic curves n ≈ 2900 rpm

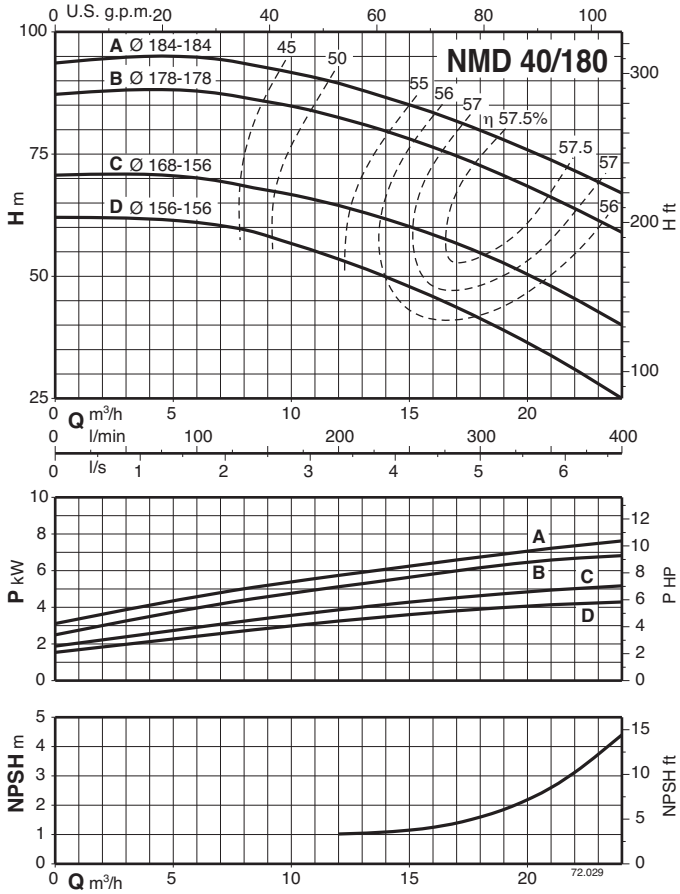




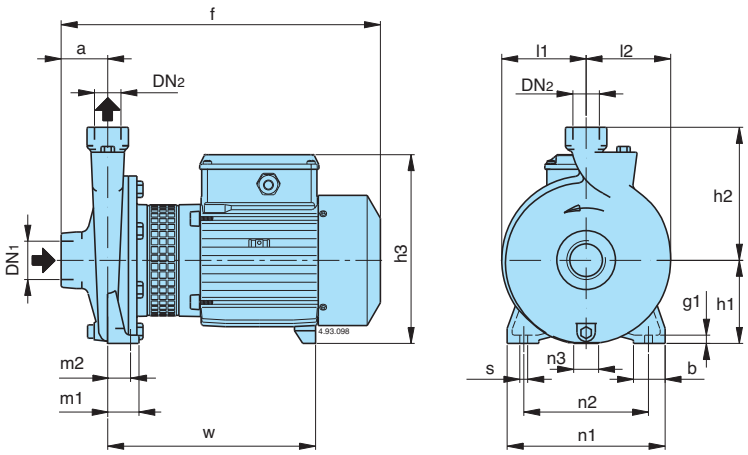


Characteristic curves n ≈ 2900 rpm





Dimensions and weights

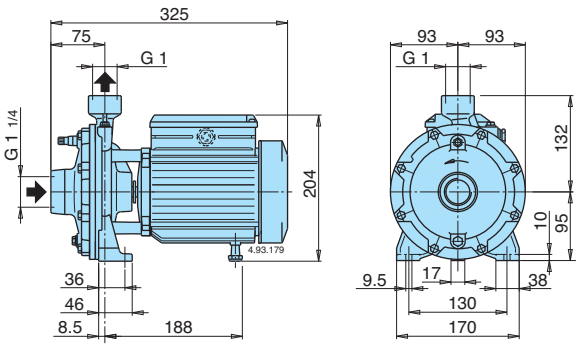


TYPE	NMM kg	NM kg	B-NM kg
NM 1/AE	8,7	8,6	
NM 2/B/A	14	13,1	
NM 2/S/A	14,2	13,3	
NM 2/A/A	15,1	14,2	
NM 3/CE	24	22,9	
NM 3/BE	26	25,1	
NM 3/A/A	30,4	29,1	
B- **NM 20/160BE**	19,9	18,4	21
B- **NM 20/160AE**	20,7	19,7	22,5
B- **NM 25/12B/A**	13,2	12,3	13,5
B- **NM 25/12A/A**	14,2	13,3	14,5
B- **NM 25/160BE**	20,4	19,7	22,8
B- **NM 25/160AE**	22,5	21,5	24
NM 25/20B/A		31,6	
NM 25/20A/A		40,9	
NM 25/20S/A		42,2	
B- NM 25/200B/A			35,7
B- NM 25/200A/A			43,7
B- NM 25/200S/A			45,2
NM 10/FE	19,3	18,5	
NM 10/DE	19,4	18,8	
NM 10/AE	20,2	19,3	
NM 10/SE	22,1	21,5	
NM 11/BE	24,7	24,1	
NM 11/A/A		28,1	
NM 12/D/A		33,5	
NM 12/C/A		42	
NM 12/A/A		43,5	
B- NM 17/HE	23	22,2	29,2
B- NM 17/GE	24,2	23,2	30,2
B- NM 17/F/A		28,2	35,2
B- NM 17/D/A		36,2	43,2

B-NM	NM	DN1 ISO 228	DN2 ISO 228	mm a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g1
	NM 1/AE	G 1	G 1	40	261	80	132	176	40	32	170	140	17	35	9,5	77	81	171	10
	NM 2/A/A-S/A-B/A	G 1	G 1	45	305	95	150	207	40	32	190	160	17	35	9,5	87	90	203	10
	NM 3/BE-CE **NM 3/A/A**	G 1	G 1	50	375 415	112	180	240	55	43	245	205	37	45	11,5	110	113	244 284	12
B-NM 20/160AE-BE	**NM 20/160AE-BE**	G 1 1/4	G 3/4	53	375	100	150	228	37,5	27,5	190	150	30	38	9,5	102	102	246	10
B-NM 25/12A/A-B/A	**NM 25/12A/A-B/A**	G 1 1/2	G 1	56	313	90	140	199	37,5	27,5	170	130	9	38	9,5	85	88	195	10
B-NM 25/160AE-BE	**NM 25/160AE-BE**	G 1 1/2	G 1	56	380	100	160	228	37,5	27,5	190	150	30	38	9,5	102	102	246	10
	NM 25/20B/A **NM 25/20A/A-S/A**	G 1 1/2	G 1	63	433 460	125	180	253 263	45	32,5	245	200	49 42	45	11,5	125	125	291 295	11
B-NM 25/200B/A **B-NM 25/200A/A-S/A**		G 1 1/2	G 1	63	445 460	125	180	253 263	45	32,5	245	200	49 42	45	11,5	125	125	303 295	11
	NM 10/SE-AE-DE-FE	G 2	G 1 1/4	63	382	100	150	228	50	35	190	140	30	50	13	90	97	239	14
	NM 11/BE **NM 11/A/A**	G 2	G 1 1/4	70	400 440	112	170	240	50	35	210	160	37	50	15	103	110	247 287	14
	NM 12/D/A **NM 12/A/A-C/A**	G 2	G 1 1/4	70	440 470	132	190	260 270	50	35	240	190	47 45	50	15	125	127	287 300	14
B-NM 17/GE-HE **B-NM 17F/A** **B-NM 17/D/A**	**NM 17/GE-HE** **NM 17/F/A** **NM 17/D/A**	G 2 1/2	G 2 1/2	80	417 457 480	112	160	240 240 250	50	35	210	160	37 37 20	50	14	96	113	257 287 295	14

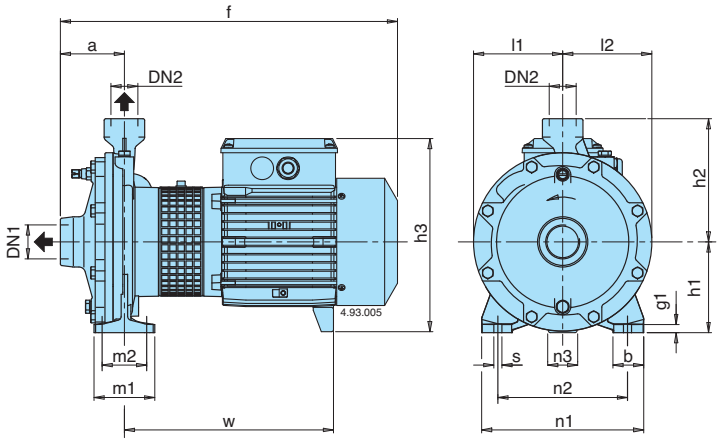
Dimensions and weights

NMD 20/110



TYPE	NMDM kg	NMD kg	B-NMD kg
B- **NMD 20/110B/A**	13	12,1	13,4
B- **NMD 20/110Z/A**	14	13	14,2
B- **NMD 20/110A/A**	15,1	14,2	17,4

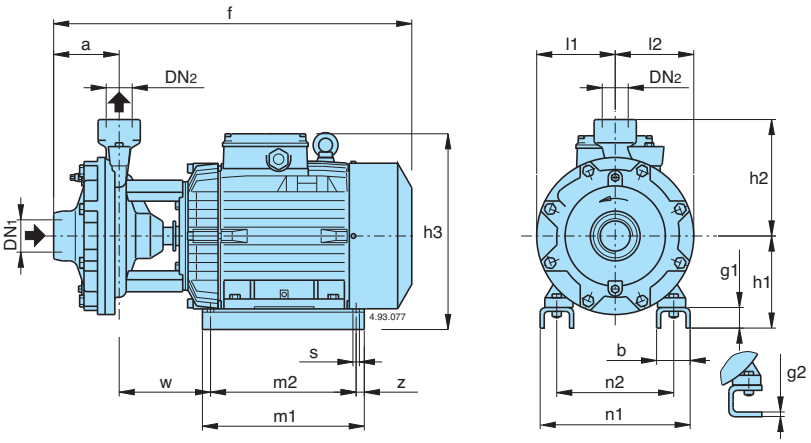
NMD 20/140
NMD 25/190



TYPE	NMDM kg	NMD kg	B-NMD kg
B- **NMD 20/140BE**	23,9	22,7	25,2
B- **NMD 20/140AE**	25,2	24,8	27,6
B- **NMD 25/190C/A**		42	45,7
B- **NMD 25/190B/A**		49,7	54
B- **NMD 25/190A/A**		51,5	55,5

B-NMD	NMD	DN1 ISO 228	DN2 ISO 228	mm															
				a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g1
B-NMD 20/140AE-BE	NMD 20/140AE-BE	G 1 1/4	G 1	80	417	112	152	243	75	55	200	160	37	38	9,5	110	110	256	10
B-NMD 25/190C/A	NMD 25/190C/A	G 1 1/2	G 1	97	487	140	180	268	100	70	240	190	50	50	14	133	133	314	13
B-NMD 25/190A/A-B/A	NMD 25/190A/A-B/A				500			278					49					306	

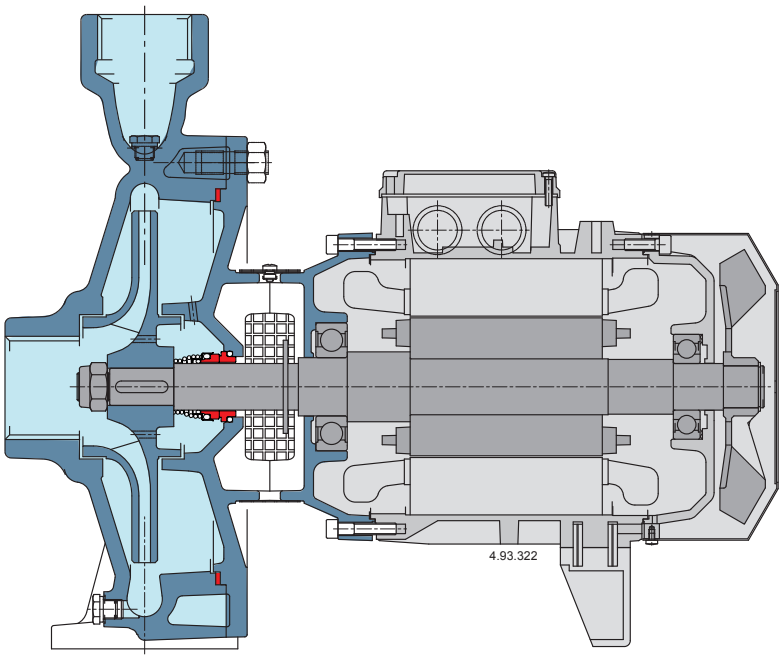
NMD 32/210
NMD 40/180



TYPE	NMD kg	B-NMD kg
B- **NMD 32/210D/A**	60,5	66,5
B- **NMD 32/210C/A**	71	77
B- **NMD 32/210B/A**	77	82,5
B- **NMD 32/210A/A**	99	105
B- **NMD 40/180D/A**	59,5	65,5
B- **NMD 40/180C/A**	70	76
B- **NMD 40/180B/A**	76	81,5
B- **NMD 40/180A/A**	97	102

B-NMD	NMD	DN1 ISO 228	DN2 ISO 228	mm																
				a	f	h1	h2	h3	m1	m2	n1	n2	z	b	s	l1	l2	w	g1	g2
B- NMD 32/210D/A	NMD 32/210D/A	G 2	G 1 1/4	110	530	155	215	293	205	175	194	140	15	54	10	150	150	139	-	6
B- NMD 32/210B/A -C/A	NMD 32/210B/A -C/A				550	150		310	280	250	258	190		68	12			108	38	-
B- NMD 32/210A/A	NMD 32/210A/A				625	170		355	298	268	286	216		70	12			152	38	-
B- NMD 40/180D/A	NMD 40/180D/A	G 2	G 1 1/2	121	535	155	215	293	205	175	194	140	15	54	10	145	145	133	-	6
B- NMD 40/180B/A -C/A	NMD 40/180B/A -C/A				555	150		310	280	250	258	190		68	12			102	38	-
B- NMD 40/180A/A	NMD 40/180A/A				630	170		355	298	268	286	216		70	12			145	38	-

Features



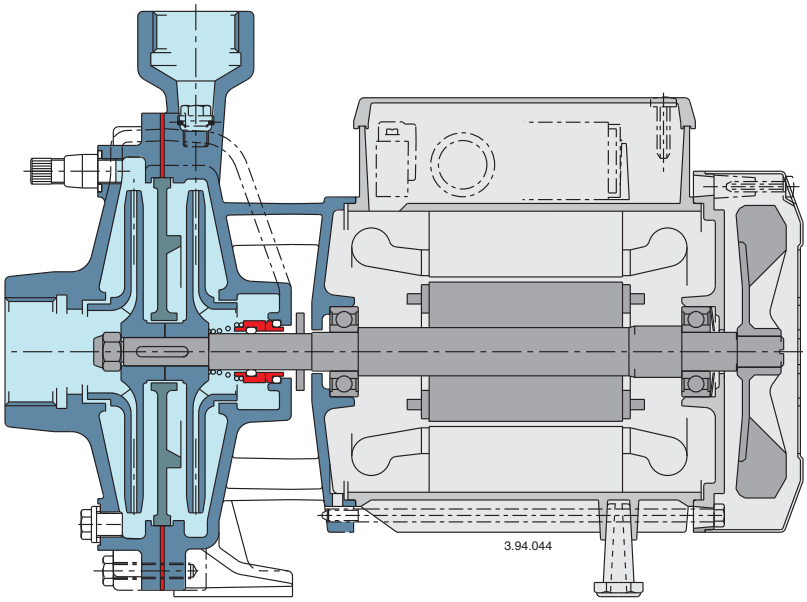
Compact Design
The compact design allows for easy installtion even in confined spaces.

Robust
The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistence to mechanical stress.

A unique design
The lantern bracket design prevents contact with the pumps rotating parts, providing protection to the end user whilst allowing for inspection of the mechanical seal.

Reliable
The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

Features



Flexible
The option to choose between cast iron and bronze materias for the hydraulic parts in contact with the pumped liquid allows NMD series pumps to be selected for use with different types of liquids.

Robust
The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistence to mechanical stress.

Reliable
The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

NM, NMS

Close Coupled Centrifugal Pumps
with flanged connections

calpeda®

The electropumps NM, B-NM, NMS, B-NMS series comply with the European Regulation no. 547/2012 in force starting from 01.01.2013

Materials

Components	NM, NMS	B-NM, B-NMS
Pump casing Lantern bracket NM Casing cover for NMS	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Lantern bracket NMS	Cast iron GJL 200 EN 1561	
Impeller	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
	Brass P- Cu Zn 40 Pb 2 UNI 5705 for NM 32/12-16-20, NM 40/20, B-NM 32/125-160-200, B-NM 40/200	
Shaft	AISI 303 up to 2.2 kW AISI 430 from 3 kW to 75 kW	Cr Ni Mo steel AISI 316
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel Fe 430B UNI 7070	

Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump up to 30 kW, new bracket construction for standard motors (stub-shaft construction) from 37 to 75 kW with integrated thrust bearing.
Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.
NM(S): version with pump casing and lanter bracket in cast iron.
B-NM(S): version with pump casing and lanter bracket/casing cover in bronze. (the pumps are supplied fully painted).

Connections: Flanges according to PN 10, EN 1092-2.
Counter-flanges (on request)

Sizes	Flanges
from NM 32/.. to NM 50/...	Screwed flanges EN 1092-1, PN 16
from NM 65/.. to NMS 100/...	Flanges for welding EN 1092-1, PN 10

Applications

For clean liquids without abrasives, which are non-aggressive for the pump materials (solids content up to 0,2%).
For water supply.
For heating, air conditioning, cooling and circulation plants.
For civil and industrial applications.
For fire fighting applications. For irrigation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40° C.
Total suction lift up to 7 m.
Maximum permissible working pressure up to 10 bar.
Continuous duty.

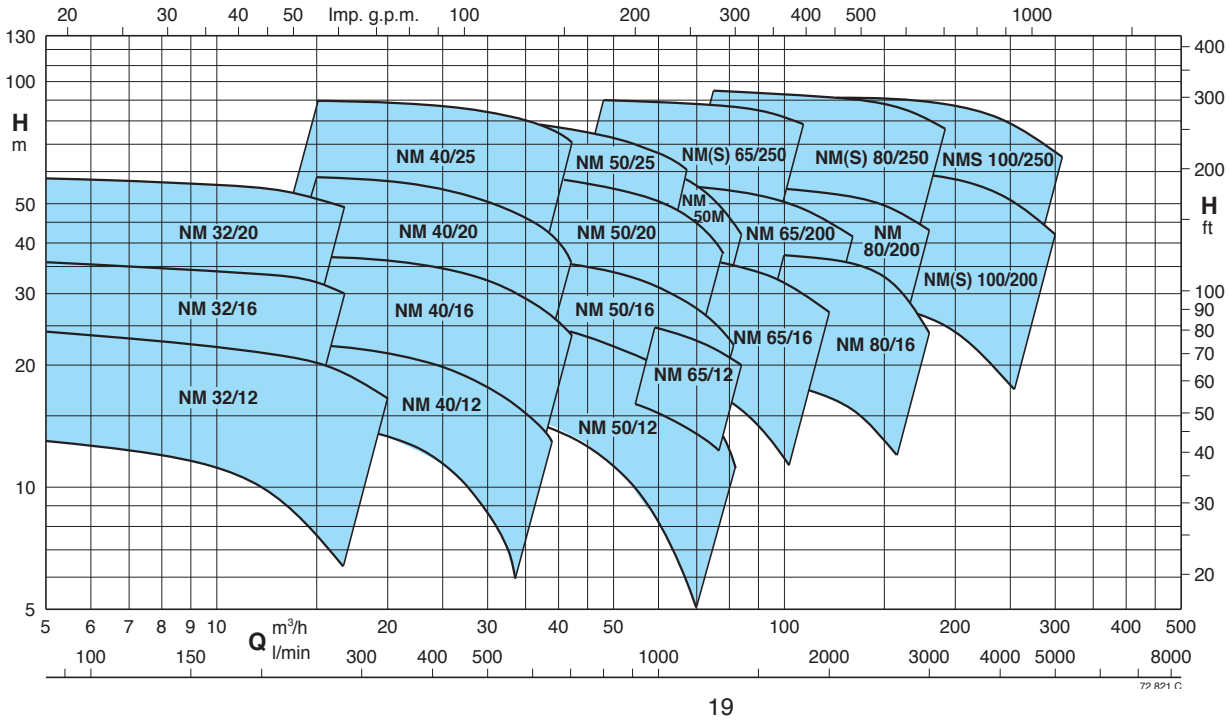
Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).
NM, NMS: three-phase 230/400 V ± 10% up to 3 kW;
400/690 V ± 10% from 4 to 75 kW.
Insulation class F. Protection IP 54 (IP 55 for NMS).
Motor suitable for operation with frequency converter from 2,2 kW.
Classification scheme IE2 for three-phase motor from 0,75 kW.
Constructed in accordance with: EN 60034-1; EN 60034-30.

Special features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.- Special mechanical seal.
- Packed gland (only for NM standard construction).
- Single-phase motor (NMM) up to 1,5 kW.
- Explosion proof construction in accordance with Directive 94/9 EEC (ATEX).
- Higher or lower liquid or ambient temperatures.
- Motor suitable for operation with frequency converter up to 1,5 kW.

Coverage chart n ≈ 2900 rpm



NM, NMS

Close Coupled Centrifugal Pumps
with flanged connections

calpeda®

Performance n ≈ 2900 rpm

B-NM	NM	P2 kW	P2 HP	Q m³/h	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	30
				l/min	110	125	140	160	180	200	220	250	280	315	350	400	450	500
B-NM 32/12F	NM 32/12FE	0,55	0,75	H m	12,5	12,5	12	11,5	11	10	9	7,5						
B-NM 32/12D	NM 32/12DE	0,75	1		18	18	17,5	17	16,5	16	15,5	14						
B-NM 32/12A	NM 32/12AE	1,1	1,5		23	23	22,5	22	21,5	21	20,5	19						
B-NM 32/12S	NM 32/12SE	1,5	2		23,5	23,5	23	22,5	22	21,5	21	20,5	19	18,5	16,5	13		
B-NM 32/16B	NM 32/16BE	1,5	2		29,5	29,5	29	28,5	27,5	27	26	25*	22,5*					
B-NM 32/16A/A	NM 32/16A/A	2,2	3		35,5	35,5	35	34,5	34	33,5	33	32*	30*					
B-NM 32/20D/A	NM 32/20D/A	2,2	3		38	37,5	37	36	35	33,5	32							
B-NM 32/20C/A	NM 32/20C/A	3	4		45	44,5	44	43,5	42,5	41	40	38	36					
B-NM 32/20A/A	NM 32/20A/A	4	5,5		57,5	57	56	55,5	55	54,5	53,5	51,5	49					

B-NM	NM	P2 kW	P2 HP	Q m³/h	15	16,8	18,9	21	24	27	30	33	37,8	39	42	45	48	54
				l/min	250	280	315	350	400	450	500	550	630	650	700	750	800	900
B-NM 40/12F	NM 40/12F/A	1,1	1,5	H m	14	13,5	13	12	11	9,5	8	6						
B-NM 40/12C	NM 40/12C/A	1,5	2		17,5	17	16,5	16	15	13,5	12	10,5	7,5	6,5				
B-NM 40/12A/A	NM 40/12A/B	2,2	3		22	22	21,5	21	20	19	18	16,5	14	13	11,5			
B-NM 40/16C/A	NM 40/16C/B	2,2	3		23	22,5	22	21,5	20	18,5	16,5	14,5	11	10				
B-NM 40/16B/A	NM 40/16B/B	3	4		29	28,8	28	27,5	26,5	25	23,5	21,5	18	17	14			
B-NM 40/16A/A	NM 40/16A/B	4	5,5		37	36,5	36,5	36	35	33,5	32	30,5	27	26	23,5	20	17	
B-NM 40/20D/A	NM 40/20D/A	4	5,5		39	38	37	35,5	33,5	30,5	27	22,5	14					
B-NM 40/20C/A	NM 40/20C/A	4	5,5		41,5	40,5	39,5	38	36	33,5								
B-NM 40/200B/A	NM 40/20B/A	5,5	7,5		50	49,5	48,5	47,5	45,5	43,5	41,5	37,5	30,5					
	NM 40/20AR/A	5,5	7,5		55	54,5	54	53	51	49								
B-NM 40/200A/A	NM 40/20A/A	7,5	10		57,5	57	56,5	55,5	54,5	52,5	50,5	48	42,5	40,5	35			
B-NM 4025/C/B	NM 40/25C/B	9,2	12,5		61	61	60,5	59,5	58,5	56,5	53,5	49,5	41,5	40	33,5			
B-NM 4025/B/B	NM 40/25B/B	11	15		69,5	69,5	69	68,5	67	65,5	63,5	60,5	53,5	51	45			
B-NM 4025/A/B	NM 40/25A/B	15	20		90	90	89,5	89	88,5	87	85	83	77,5	76	70,5			

B-NM	NM	P2 kW	P2 HP	Q m³/h	24	27	30	33	37,8	42	48	54	60	66	69	72	75	78	81	84
				l/min	400	450	500	550	630	700	800	900	1000	1100	1150	1200	1250	1300	1350	1400
B-NM 50/12F/A	NM 50/12F/B	2,2	3	H m			15,5	15	14	13,5	12	10	8	6						
B-NM 50/12D/A	NM 50/12D/B	3	4				20	19,5	18,5	18	16,5	14,5	13	10,5	9	8				
B-NM 50/12A/A	NM 50/12A/B	4	5,5				24	24	23	22,5	21	19,5	17,5	15	14	12,5	11,5	10		
B-NM 50/12S/A	NM 50/12S/B	4	5,5				26,5	26	25,5	24,5	23,5	22	20	18	16,5	15,5	14	13	11	
B-NM 50/160B/B	NM 50/16B/B	5,5	7,5				31	30,5	29,5	28	26	24	21,5	19	17,5	15,5	13,5	11,5	9,5	
B-NM 50/160A/B	NM 50/16A/B	7,5	10				38,5	38	37,5	36,5	34,5	32,5	30	27	25,5	24	22,5	20,5	19	
B-NM 50/200B/B	NM 50/20B/B	9,2	12,5		48	47,5	47,5	47	45,5	44,5	42,5	40	37	33	30,5	28	25,5	23		
B-NM 50/200A/B	NM 50/20A/B	11	15		55	55	54,5	54,5	53,5	52	50	48	45	41,5	39,5	37	35	32,5		
B-NM 50/200S/B	NM 50/20S/B	15	20		60	60	59,5	59,5	58,5	57,5	55,5	53,5	50,5	47	45	43	40,5	37		
B-NM 5025/C/B	NM 50/25C/B	11	15		55	54,5	54	53	51,5	49,5	46	41,5	35,5	28,5	24,5					
B-NM 5025/B/B	NM 50/25B/B	15	20		69	68,5	68	67,5	66	64	61	57	52,5	46,5	43					
B-NM 5025/A/B	NM 50/25A/B	18,5	25		80,5	80,5	80	79,5	78,5	77	74,5	71,5	67	61,5	58,5					
B-NM 5025/65E/A	NM 50M/E/A	11	15			48	47,5	47	46	45	43	40	37	32	29,5	27	24			
B-NM 5025/65D/A	NM 50M/D/A	15	20				57	56,5	56	55	53	51	48	44,5	42	39,5	37	32	29	25*
B-NM 5025/65C/A	NM 50M/C/A	18,5	25				68	67,5	67	66,5	65	63	61	58	56	53,5	51,5	48	45,5	42*

B-NM - B-NMS	NM - NMS	P2 kW	P2 HP	Q m³/h	37,8	42	48	54	60	66	75	84	96	108	120	132	150	168
				l/min	630	700	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2500	2800
	NM 65/12E/A	4	5,5	H m	18	17,5	17	16,5	16	15	13,5							
B-NM 65/125C/A	NM 65/12C/A	5,5	7,5		22	21,5	21	20,5	20	19,5	18	15,5						
B-NM 65/125A/A	NM 65/12A/A	7,5	10		26	25,5	25	24,5	24	23,5	22	20						
B-NM 65/160E/A	NM 65/16E/A	5,5	7,5				20	19,5	19	18,5	17	15,5	13*	10*				
B-NM 65/160D/A	NM 65/16D/A	7,5	10				26	25,5	25	24,5	23,5	22	20*	16,5*	13*			
B-NM 65/160C/A	NM 65/16C/A	9,2	12,5				30	29,5	29	28,5	28	26,5	24,5*	21,5*	18*			
B-NM 65/160B/A	NM 65/16B/A	11	15				33,5	33	32,5	32	31	30	28*	25,5*	22*			
B-NM 65/160A/A	NM 65/16A/A	15	20				38	37,5	37	36,5	36	35	33*	30,5*	27*			
B-NM 65/200C/A	NM 65/20C/A	15	20				44	43,5	43	42,5	41	39,5	37,5	35	31	27*		
B-NM 65/200B/A	NM 65/20B/A	18,5	25				50	49,5	49	48,5	47,5	46,5	44,5	42	39	35*		
B-NM 65/200A/A	NM 65/200A/A	22	30				56,5	56	55,5	55	54,5	53,5	51	48,5	45,5	41,5*		
B-NM 65/250C/A	NM 65/250C/A	22	30				64	63,5	63	61,5	60	57,5	54,5*	50*				
B-NM 65/250B/A	NM 65/250B/A	30	40				79,5	79	78,5	78	77	75	72*	67*				
B-NMS 65/250A	NMS 65/250A	37	50				90	89,5	89	88,5	87,5	86	83,5*	78,5*				

NM, NMS

Close Coupled Centrifugal Pumps
with flanged connections

calpeda®

Performance n ≈ 2900 rpm

B-NM - B-NMS	NM - NMS	P2 kW	P2 HP	Q m³/h	75	84	96	108	120	132	150	168	180	192	210	240	270	300
				l/min	1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000
B-NM 80/160E/A	NM 80/16E/A	7,5	10		20	19,3	18,5	17,5	16,5	15,5*	13*							
B-NM 80/160D/A	NM 80/16D/A	9,2	12,5		23	22,5	22	21	19,5	18*	15*							
B-NM 80/160C/A	NM 80/16C/A	11	15		27,5	27	26,5	25,5	24,5	23	20*	16*						
B-NM 80/160B/A	NM 80/16B/A	15	20		34	33,5	33	32,5	32	31	28*	23*	18*					
B-NM 80/160A/A	NM 80/16A/A	18,5	25		38,5	38	37,5	37	36,5	36	33*	29*	24*					
B-NMS 80/200B	NM 80/200B/A	22	30		46,5	46	45,5	44,5	43,5	42	39*	35,5*	32*					
B-NMS 80/200A	NM 80/200A/A	30	40		56	55,5	55	54	53	52	49,5*	46*	43*					
B-NMS 80/250E	NM 80/250E/A	22	30		51	50	48,5	46,5	44,5	42	38*	33*	29*					
B-NMS 80/250D	NM 80/250D/A	30	40		65	64	62,5	61	59	56,5	53*	49*	45,5*	41*				
B-NMS 80/250C	NMS 80/250C	37	50	H m	73,5	73	72	70,5	69	67	63*	59*	55,5*	51,5*				
B-NMS 80/250B	NMS 80/250B	45	60		84	83,5	82,5	81,5	80	78	74,5*	70,5*	67*	63*				
B-NMS 80/250A	NMS 80/250A	55	75		95	94,5	93,5	92,5	91,5	90	87,5*	84*	80,5*	76,5*				
B-NMS 100/200E	NM 100/200E/A	18,5	25					30	29,5	29	28	27	26	25	23	19*		
B-NMS 100/200D	NM 100/200D/A	22	30					36	35,5	35	34	33	32	31	29	24,5*	19*	
B-NMS 100/200C	NM 100/200C/A	30	40					45	44,5	44	43,5	42,5	41,5	40,5	39	34,5*	29*	22°
B-NMS 100/200B	NMS 100/200B	37	50					54	53,5	53	52,5	51,5	50,5	49,5	48	44*	38,5*	32°
B-NMS 100/200A	NMS 100/200A	45	60					61,5	61	60,5	60	59,5	58,5	58	56,5	53*	48*	42°
B-NMS 100/250B	NMS 100/250B	55	75					73,5	73	72,5	71,5	70	68,5	67	65	61*	55,5*	48,5°
B-NMS 100/250A	NMS 100/250A	75	100					91	90,5	90	89,5	88,5	88	87	85	81*	75*	67°

NM(S) Standard construction.
B-NM(S) Bronze construction.

P2 Rated motor power output.
H Total head in m.

* Maximum suction lift 1-2 m.
° With 1 m suction head.
Tolerances according to UNI EN ISO 9906:2012

Regulation (EU) No 547/2012

- The benchmark for most efficient water pumps is MEI ≥ 0,70.
- 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.
- 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.

Rated currents

P2 kW	P2 HP	230V Δ / 400V Y IN A	400V Δ / 690V Y IN A	IN A	IA/IN
0,55	0,75	4	2,3		4,8
0,75	1	4	2,3		4,8
1,1	1,5	4,6	2,7		5,6
1,5	2	7,5	4,3		5,5
2,2	3	9,2	5,3		7,4
3	4	11,5	6,6		8,2
4	5,5		9,6	5,5	7,6
5,5	7,5		10,9	6,3	9,1
7,5	10		14,3	8,3	9,1
9,2	12,5		18,5	10,7	8,2
11	15		21,5	12,4	8,5
15	20		27,3	15,8	9,5
18,5	25		34	19,6	9,4
22	30		41	23,7	10,7
30	40		54	31,2	8,8
37	50		64	36,9	7,2
45	60		77	44,5	7,3
55	75		93	53,7	6,8
75	100		128	73,9	7

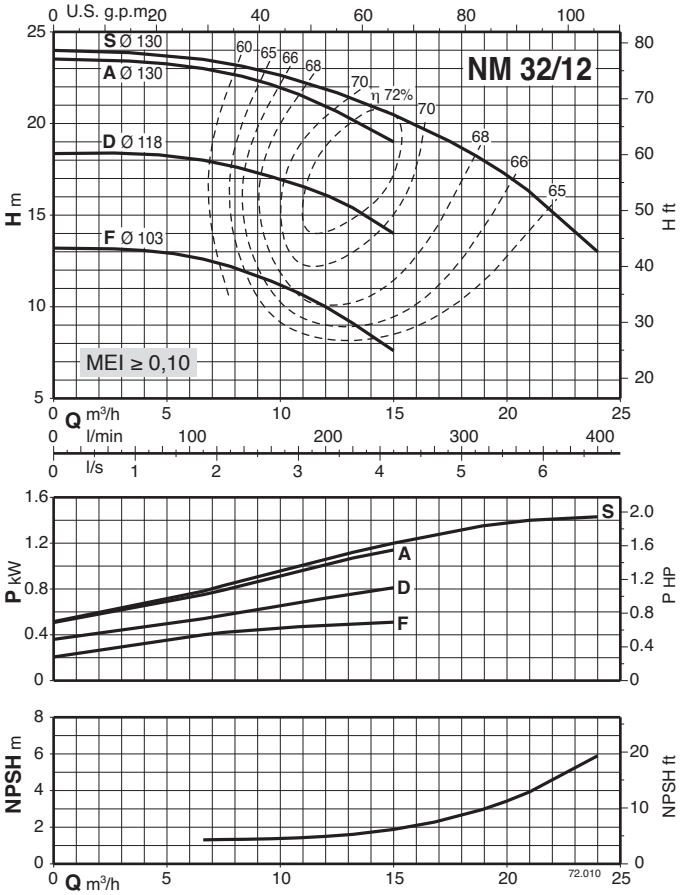
P2 Rated motor power output.
IA/IN D.O.L. starting current / Nominal current

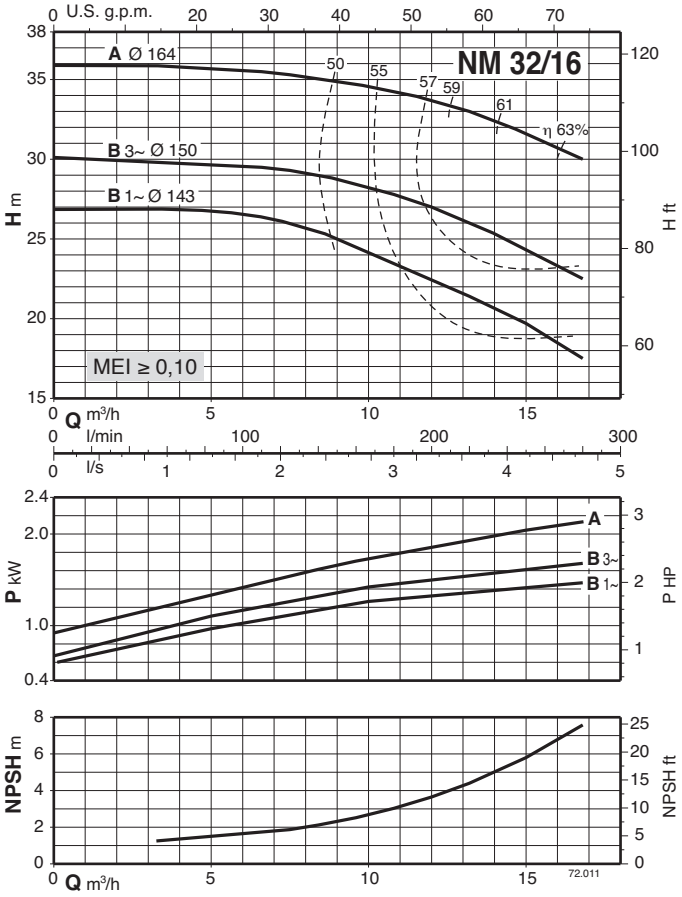
NM, NMS

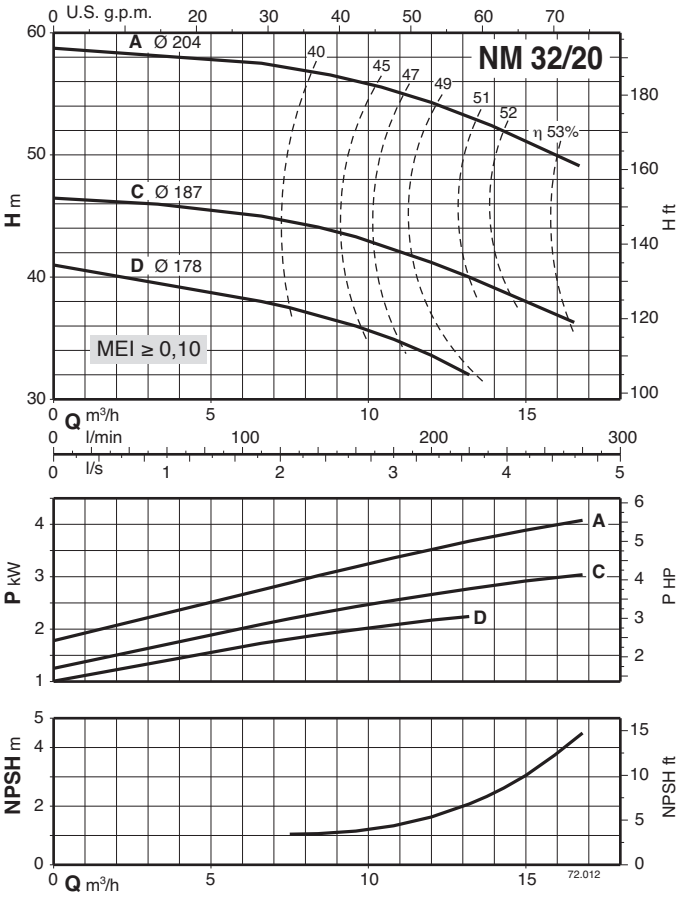
Close Coupled Centrifugal Pumps
with flanged connections

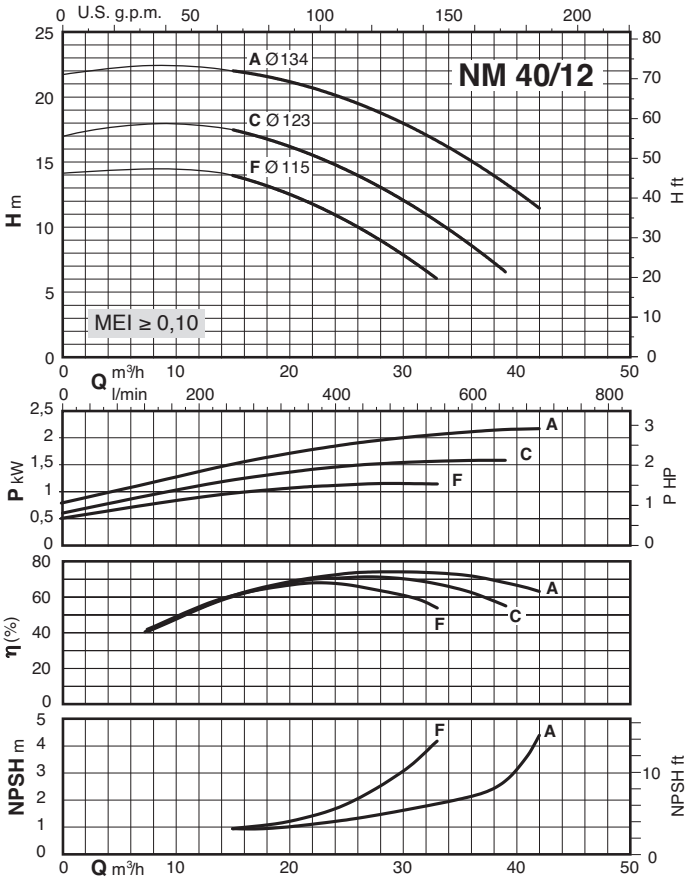
calpeda®

Characteristic curves n ≈ 2900 rpm

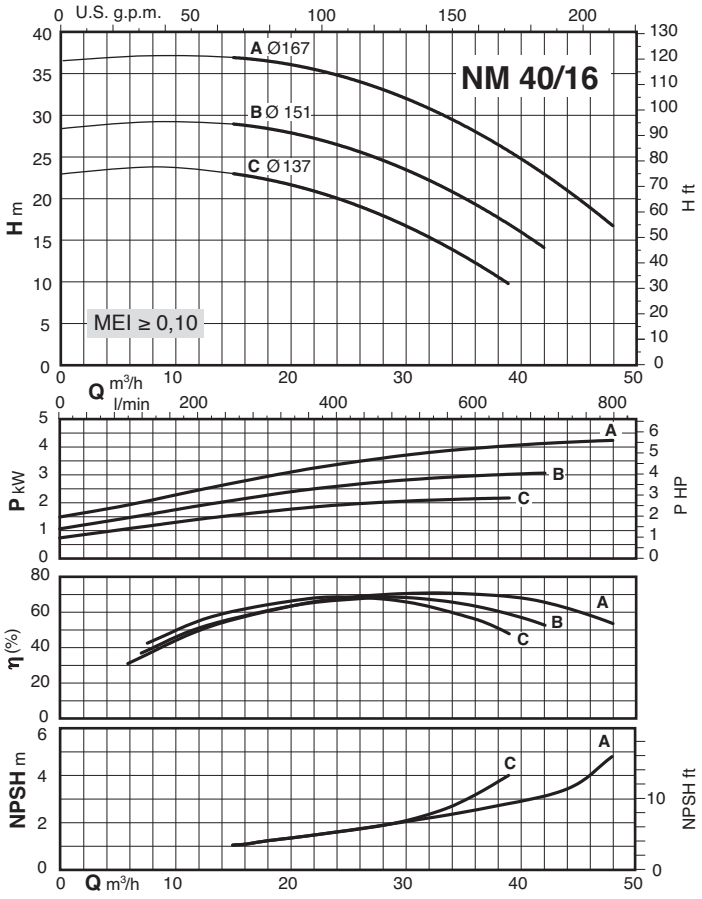


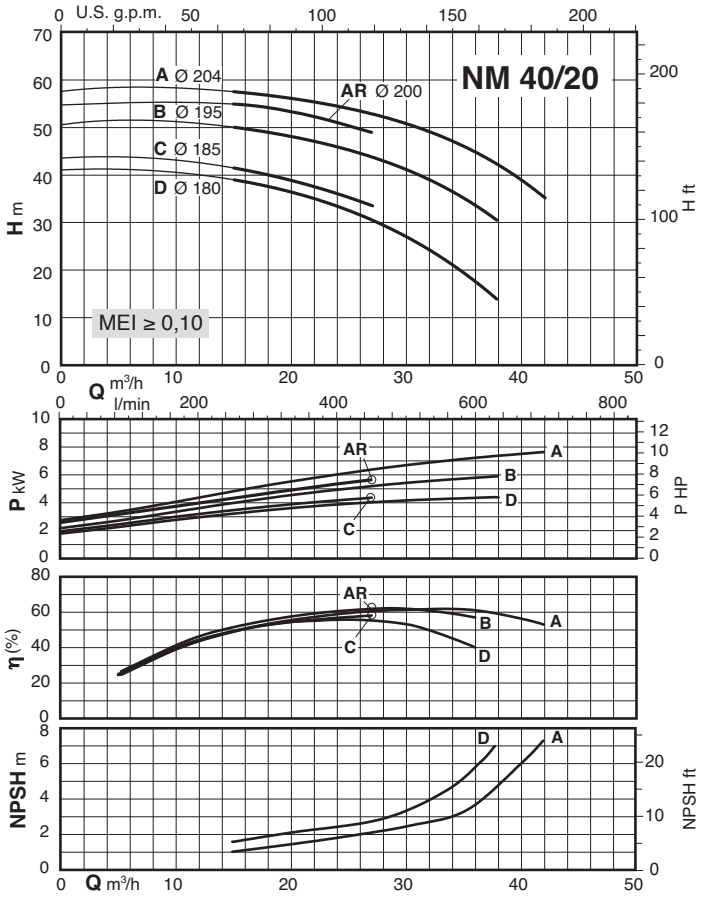


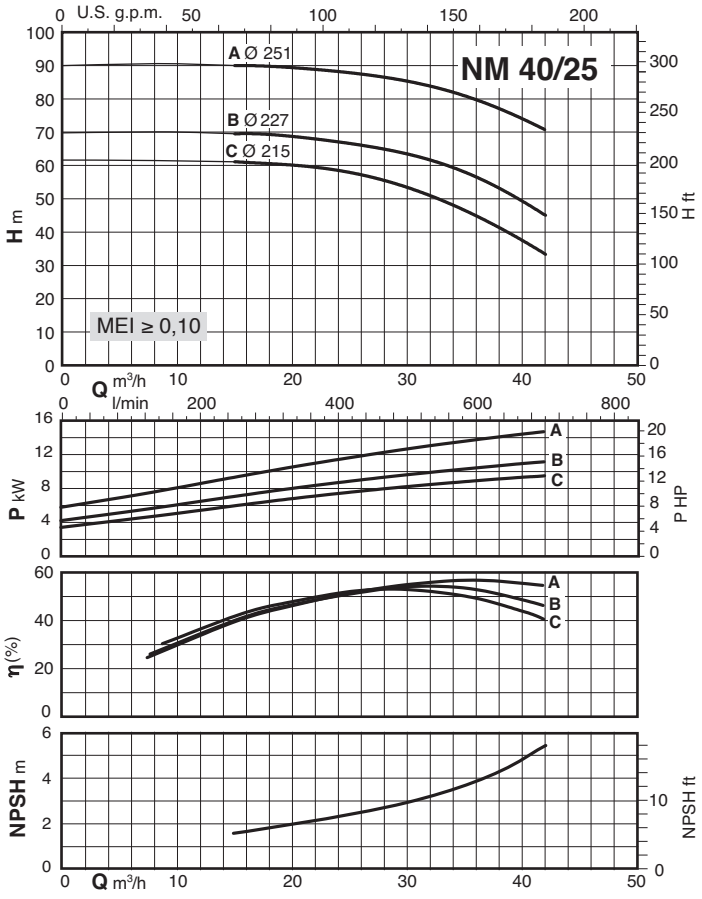


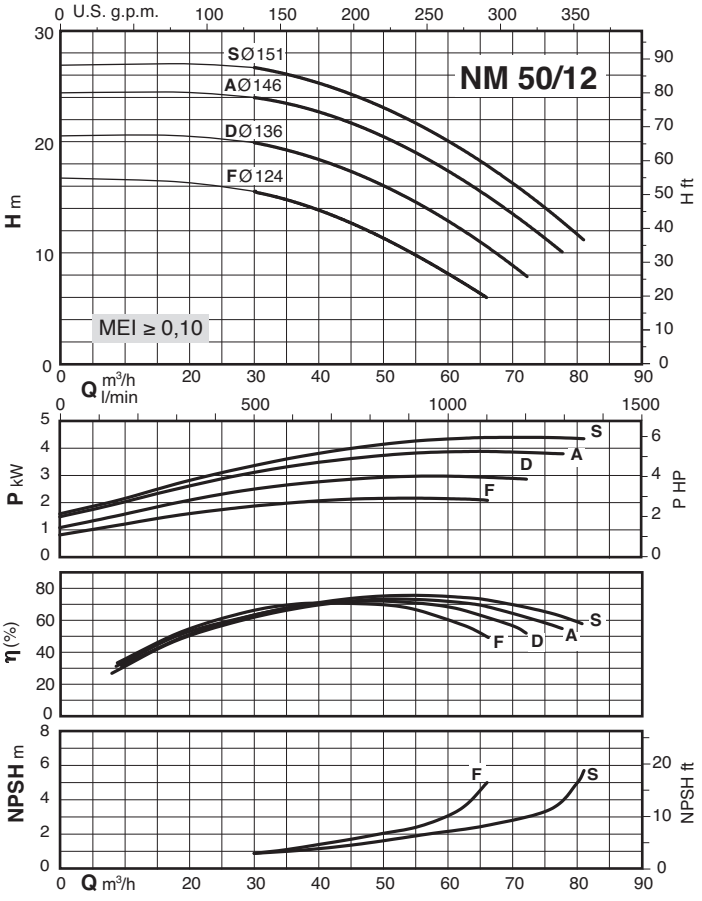


Characteristic curves n ≈ 2900 rpm







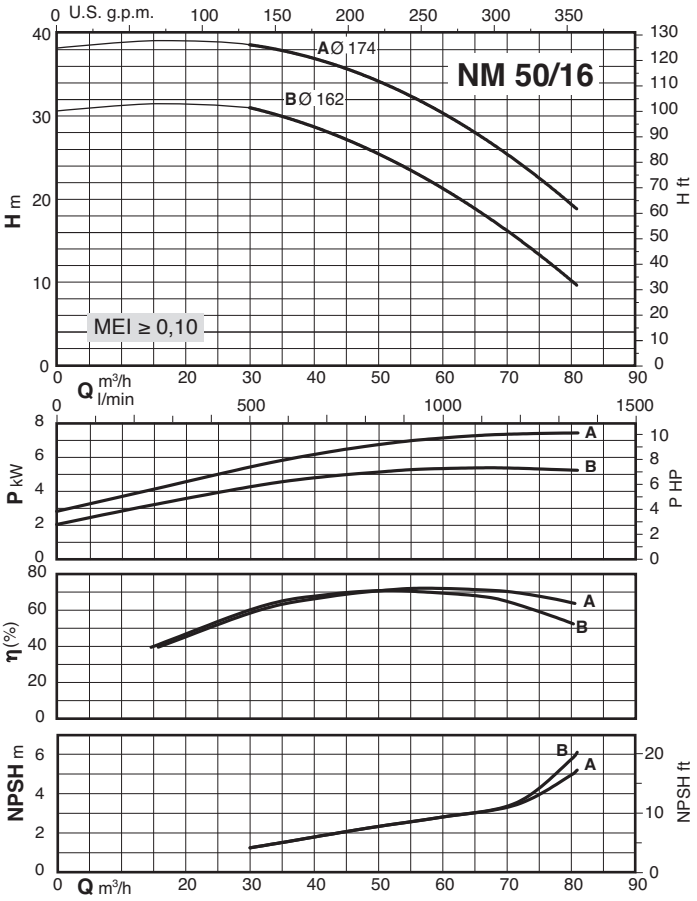


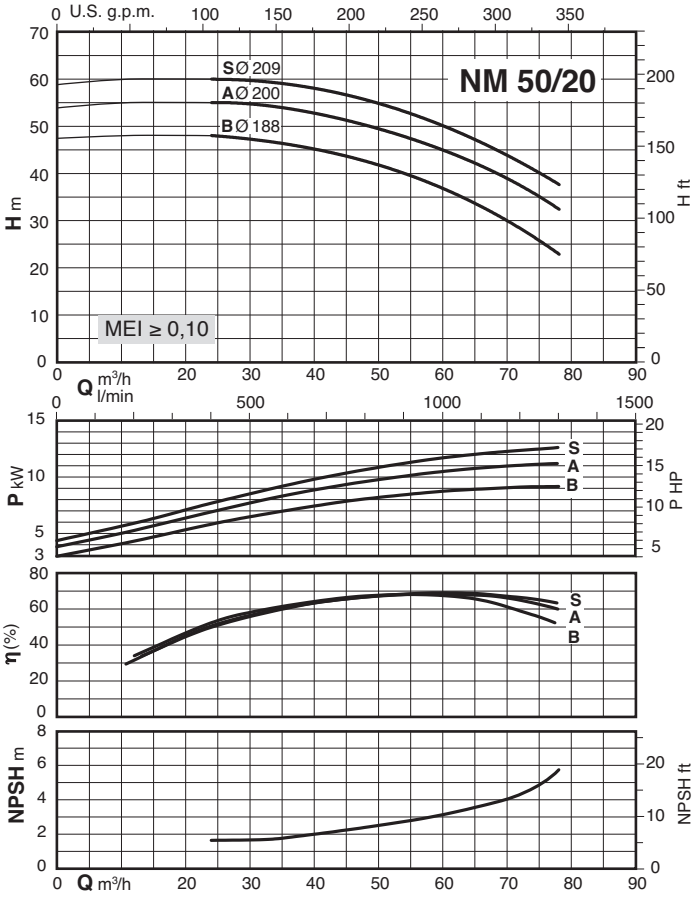
NM, NMS

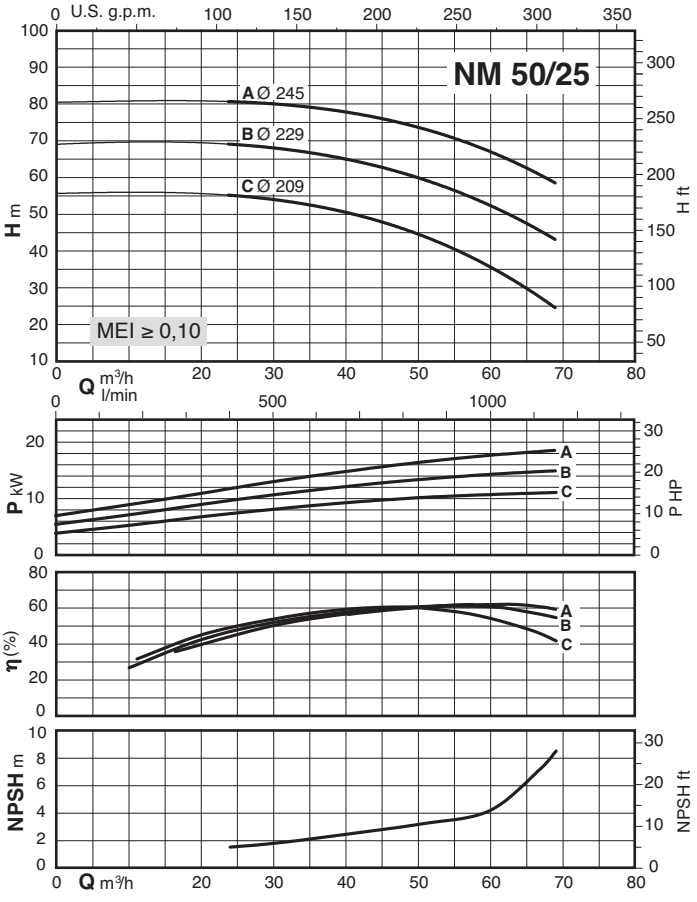
Close Coupled Centrifugal Pumps
with flanged connections

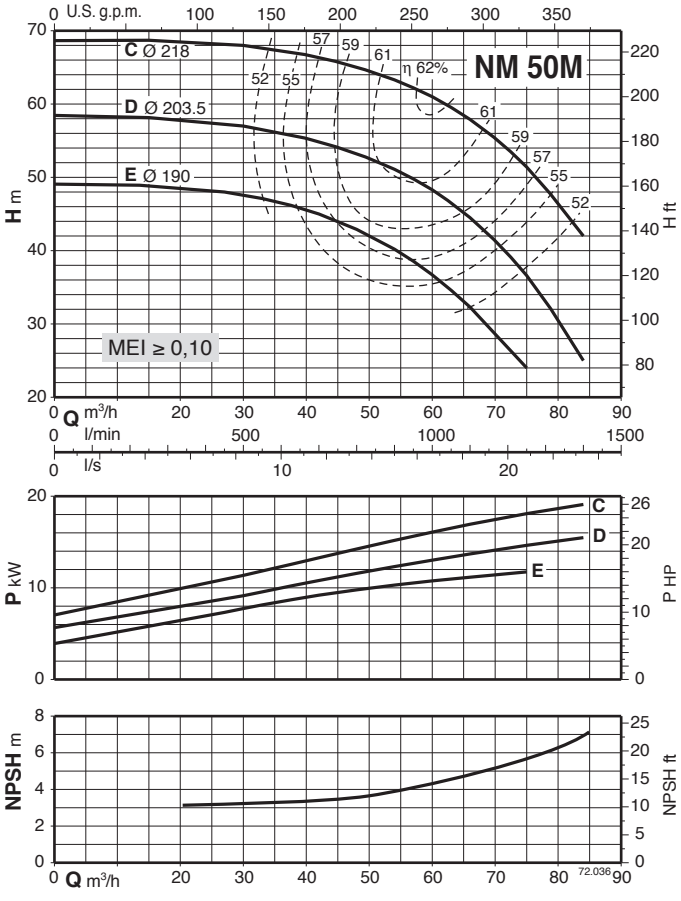
calpeda®

Characteristic curves n ≈ 2900 rpm

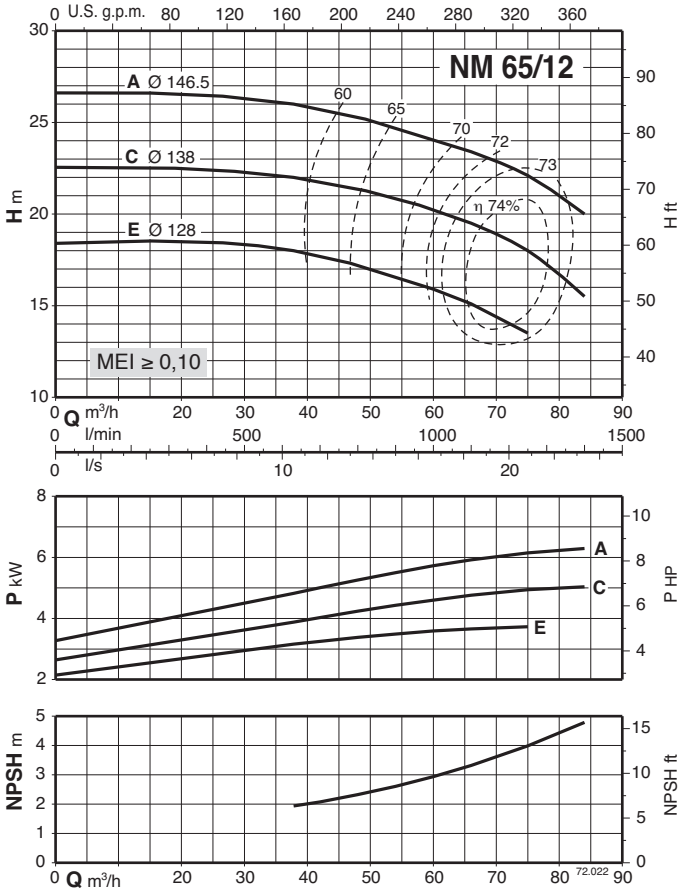


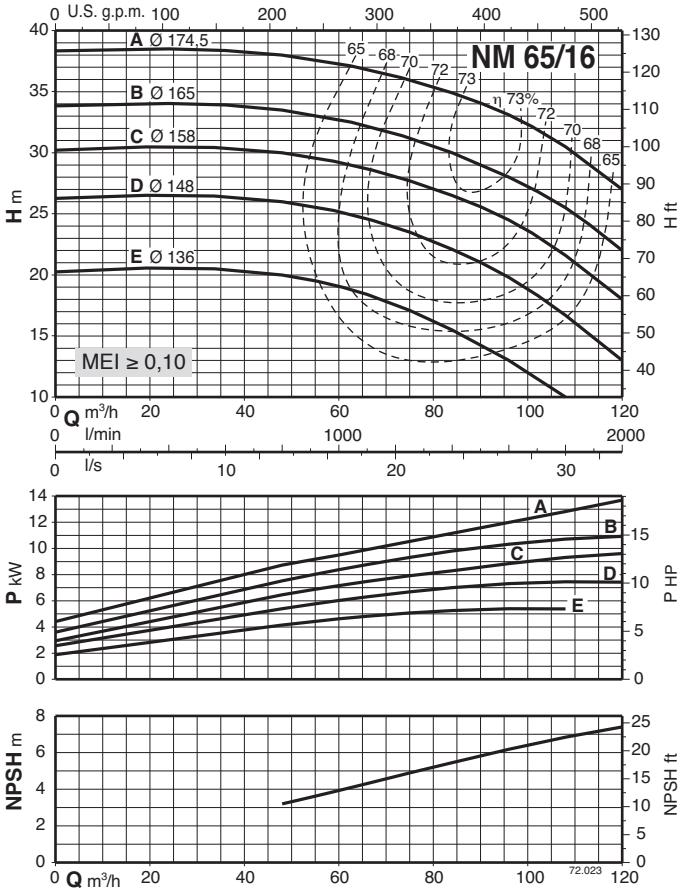


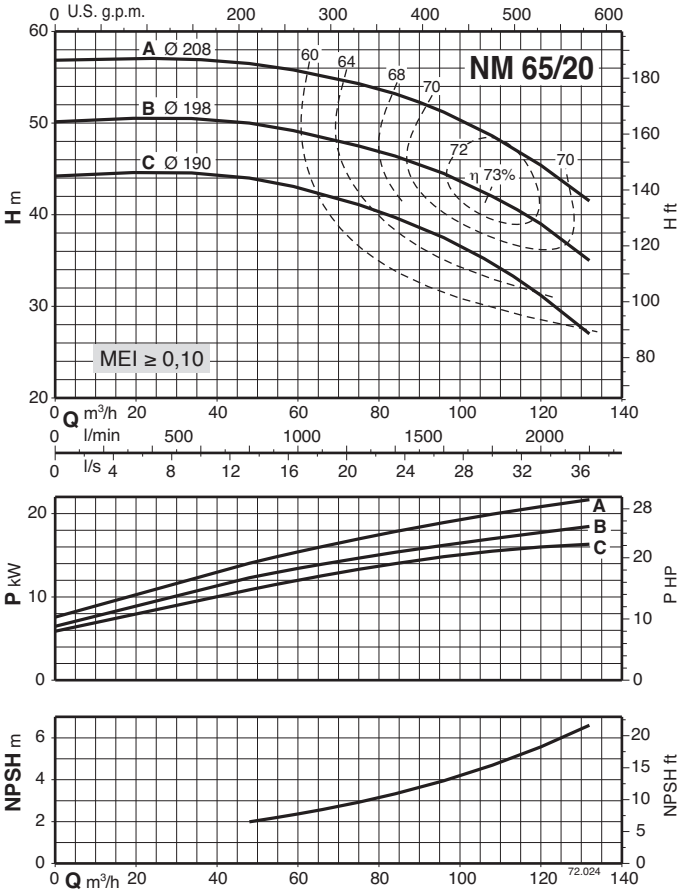


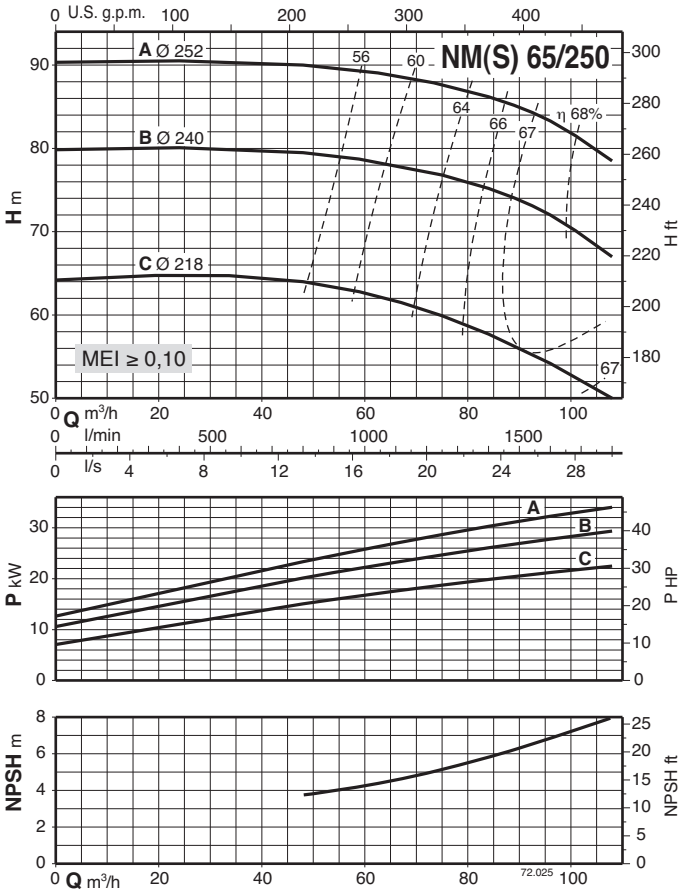


Characteristic curves n ≈ 2900 rpm

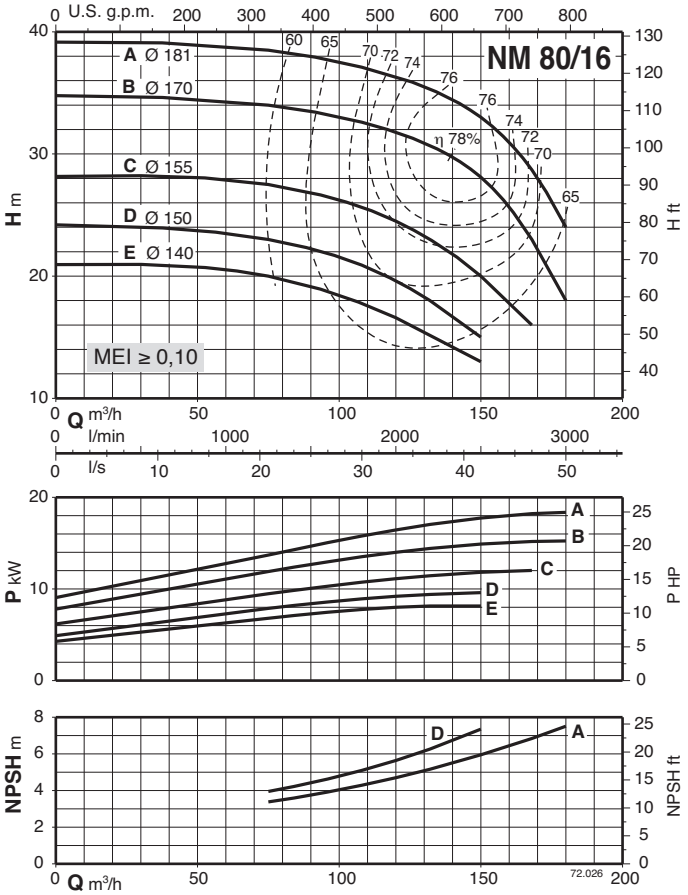


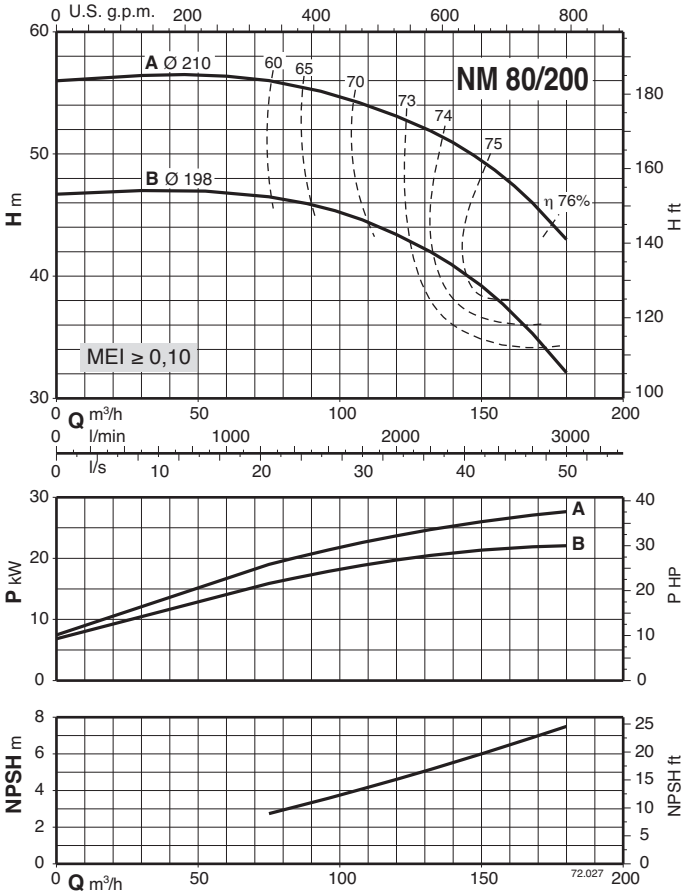


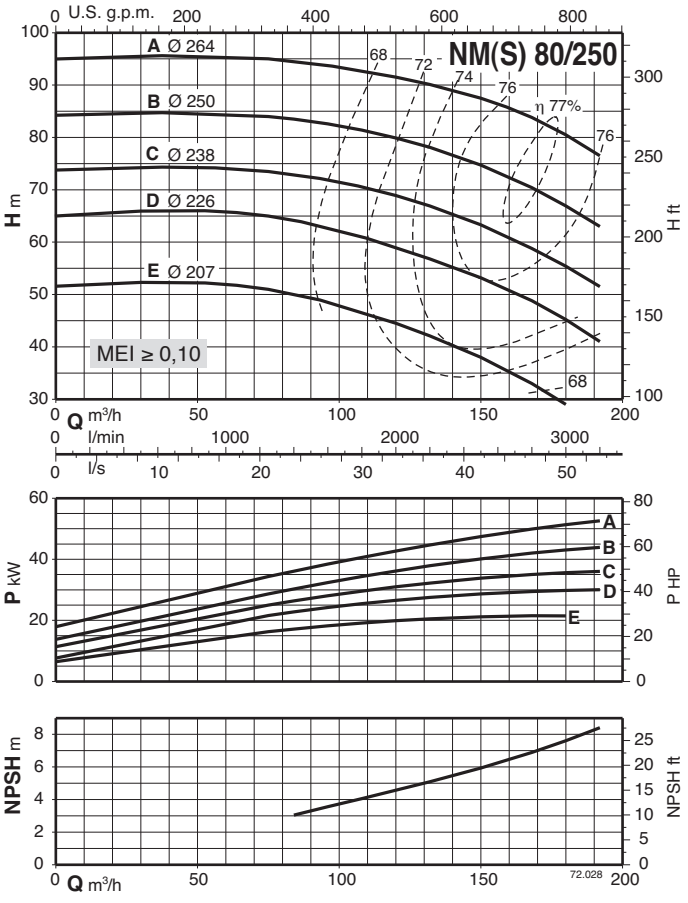




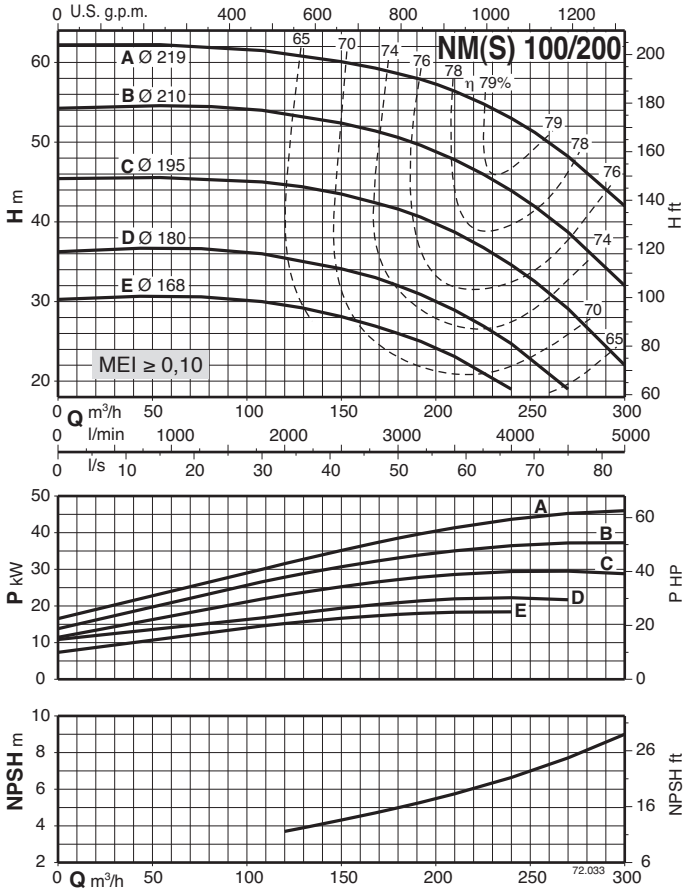
Characteristic curves n ≈ 2900 rpm

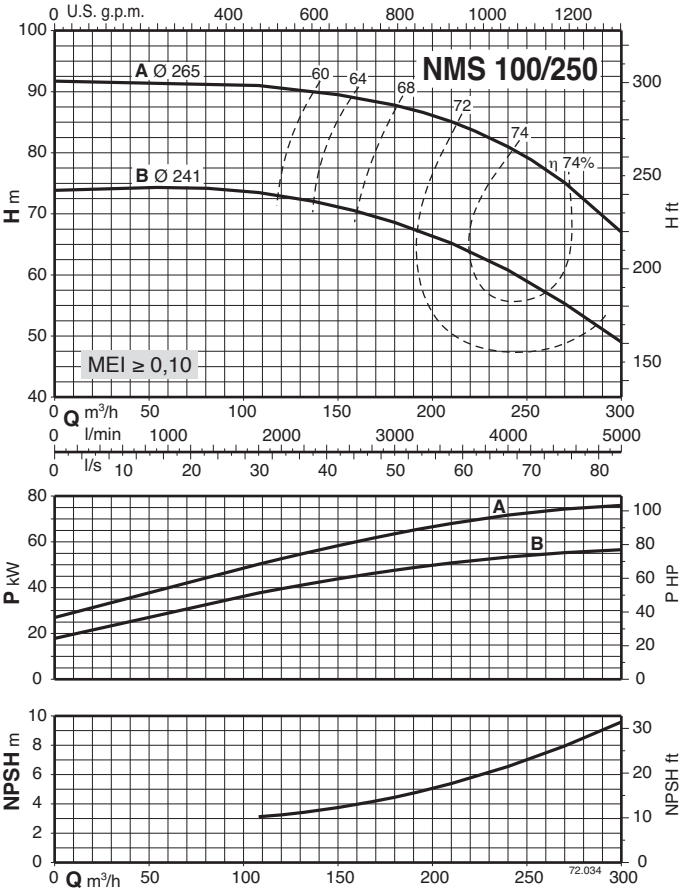






Characteristic curves n ≈ 2900 rpm





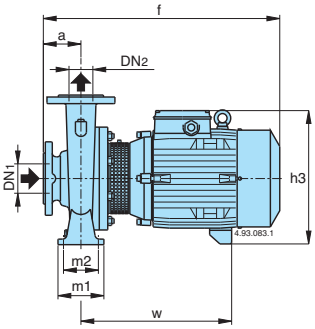
NM, NMS

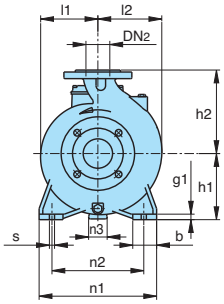
Close Coupled Centrifugal Pumps
with flanged connections

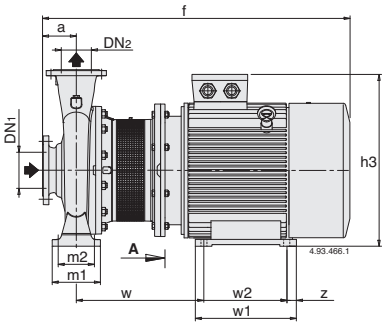
calpeda®

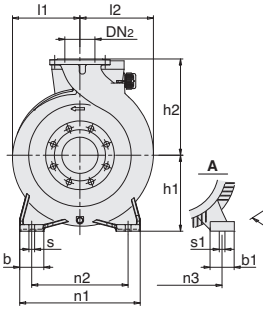
Dimensions and weights

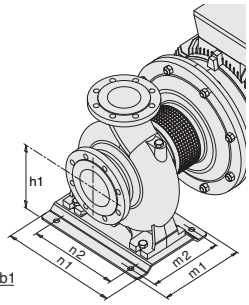
1 | 2 | 2°





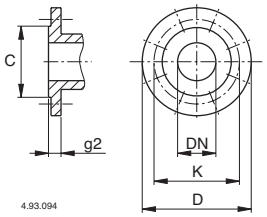






Picture	NM	mm																							kg
		DN1	DN2	a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	
1	NM 32/12SE-AE-DE-FE	50	32	80	405	112	140	240	-	100	70	190	140	37	-	50	-	14	-	93	97	245	-	-	12	27-25-24-24
	NM 32/16BE NM 32/16A/A	50	32	80	410 450	132	160	260	-	100	70	240	190	47	-	50	-	14	-	120	120	250 290	-	-	12	34 39
	NM 32/20D/A NM 32/20C/A NM 32/20A/A	50	32	80	450 475 475	160	180	288 298 298	-	100	70	240	190	62 60 60	-	50	-	14	-	140	140	290 295 295	-	-	12	42 52 52,5
	NM 40/12C/A-F/A NM 40/12A/B	65	40	80	410 450	112	140	240	-	100	70	210	160	37	-	50	-	14	-	100	113	250 290	-	-	12	29-27 34
	NM 40/16C/B NM 40/16B/B NM 40/16A/B	65	40	80	450 475 475	132	160	260 270 270	-	100	70	240	190	47 45 45	-	50	-	14	-	119	119	290 295 295	-	-	12	39 48 49,5
	NM 40/20C/A-D/A NM 40/20A/A-AR/A-B/A	65	40	100	495 525	160	180	298 320	-	100	70	265	212	60 49	-	50	-	14	-	140	140	295 320	-	-	12	55,5-55,5 72,5-66-66
	NM 40/25B/B-C/B NM 40/25A/B	65	40	100	640 715	180	225	365	-	125	95	320	250	50	-	65	-	14	-	175	175	400 460	-	-	15	116-110 145,5
	NM 50/12F/B NM 50/12D/B NM 50/12A/B-S/B	65	50	100	470 495 495	132	160	260 270 270	-	100	70	240	190	47 45 45	-	50	-	14	-	121	137	290 295 295	-	-	12	41 50 51,5
	NM 50/16A/B-B/B	65	50	100	525	160	180	320	-	100	70	265	212	49	-	50	-	14	-	127	141	320	-	-	14	70,5-64
	NM 50/20A/B-B/B NM 50/20S/B	65	50	100	640 720	160	200	345	-	100	70	265	212	40	-	50	-	14	-	140	153	410 410	-	-	15	106-100 124,5
	NM 50/25C/B NM 50/25B/B NM 50/25A/B	65	50	100	645 720 720	180	225	365	-	125	95	320	250	50	-	65	-	14	-	175	175	415 465 465	-	-	15	126 144,5 153
	NM 50M/E/A NM 50M/D/A NM 50M/C/A	65	50	100	645 720 720	180	225	365	-	125	95	320	250	50	-	65	-	14	-	175	175	415 465 465	-	-	15	117,5 144 162
	NM 65/12E/A NM 65/12A/A-C/A	80	65	100	495 525	160	180	298 320	-	125	95	280	212	60 49	-	65	-	14	-	134	156	295 320	-	-	15	55,5 73,5-68
	NM 65/16D/A-E/A NM 65/16B/A-C/A NM 65/16A/A	80	65	100	525 640 715	160	200	320 345 345	-	125	95	280	212	49 40 40	-	65	-	14	-	150	172	320 410 460	-	-	15	75-70 106-100 133,5
	NM 65/20C/A NM 65/20B/A	80	65	100	715	180	225	365	-	125	95	320	250	50	-	65	-	14	-	155	175	460	-	-	15	139,5 145
4	NM 65/200A/A	80	65	100	825	202	225	408	22	125	95	320	250	254	20	80	90	18	14	155	175	245	400	360	42*	185
	NM 65/250B/A-C/A	80	65	100	825	202	250	408	2	160	120	360	280	254	20	80	90	18	14	175	190	245	400	360	42*	201-195
1	NM 80/16E/A NM 80/16C/A-D/A NM 80/16B/A NM 80/16A/A	100	80	125	545 670 745 745	180	225	340 365 365 365	-	125	95	320	250	60 50 50 50	-	65	-	14	-	165	193	320 415 465 465	-	-	15	83,5 113-108 142,5 150
4	NM 80/200A/A-B/A	100	80	125	850	202	250	408	22	160	120	345	280	254	20	80	90	18	14	170	194	245	400	360	42*	200-194
	NM 80/250D/A-E/A	100	80	125	850	202	280	408	2	160	120	400	315	254	20	80	90	18	14	191	210	245	400	360	42*	209-203
	NM 100/200E/A NM 100/200C/A-D/A	125	100	125	800 850	200 202	280	345 408	- 2	160	120	360	280	216 254	20 20	80	69 90	18	12 14	180	212	239 245	298 400	258 360	6 42*	179 201-195

Flanges EN 1092-2



mm						
DN	C	K	D	Holes		g2
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24

Picture	NMS	mm																							kg
		DN1	DN2	a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	
2	NMS 65/250A	80	65	100	1074	200	250	500	-	160	120	360	280	318	-	80	70	18	19	200	200	406	355	305	-	347
	NMS 80/250C	100	80	125	1099	200	280	500	-	160	120	400	315	318	-	80	70	18	19	200	210	406	355	305	-	
2°	NMS 80/250B	100	80	125	1164	225	280	550	-	298	258	410	315	356	-	-	80	18	19	225	225	445	361	311	-	416
3°	NMS 80/250A	100	80	125	1235	280	280	672	-	260	220	410	315	406	25	-	100	18	24	275	275	443	500	450	8	
2	NMS 100/200B	125	100	125	1099	200	280	500	-	160	120	360	280	318	-	80	70	18	19	200	212	406	355	305	-	345
2°	NMS 100/200A	125	100	125	1164	225	280	550	-	298	258	410	315	356	-	-	80	18	19	225	225	445	361	311	-	409
3°	NMS 100/250B	125	100	140	1250	280	280	672	-	260	220	410	315	440	25	-	100	18	24	275	275	443	500	450	8	512
2°	NMS 100/250A	125	100	140	1324	280	280	712	-	260	220	410	315	457	-	-	100	18	24	275	275	516	479	368	-	

Pumps with packed gland, dimensions available on request (excluded NMS).

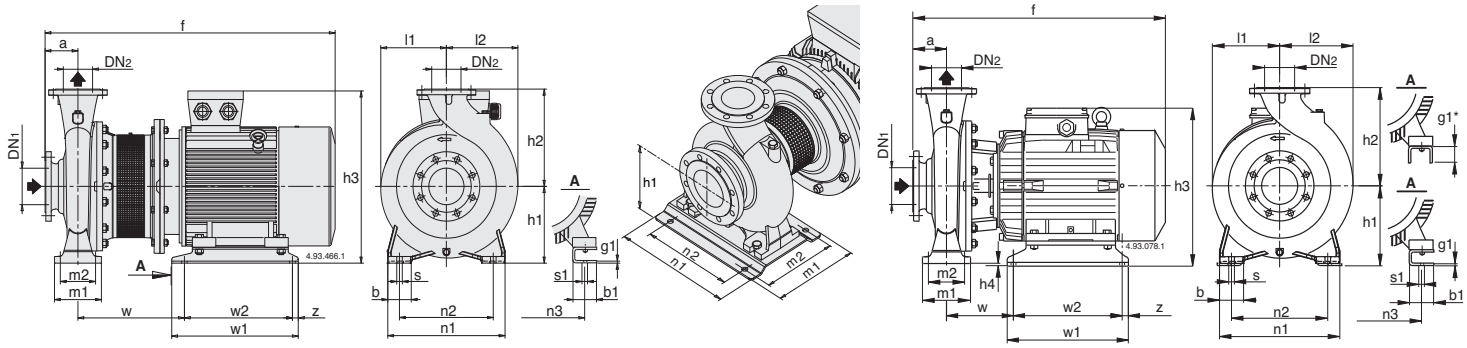
B-NM, B-NMS

Close Coupled Centrifugal Pumps
with flanged connections

calpeda®

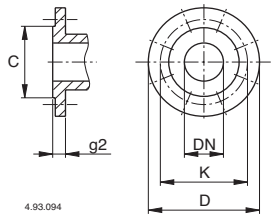
Dimensions and weights

3 | 3° | 4



Picture	B- NM	mm																							kg
		DN1	DN2	a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	B-NM
1	B-NM 32/12S-A-D-F	50	32	80	405	112	140	240	-	100	70	190	140	37	-	50	-	14	-	93	97	245	-	-	12	33-32-31-29
	B-NM 32/16B B-NM 32/16A/A	50	32	80	410 450	132	160	260	-	100	70	240	190	47	-	50	-	14	-	120	120	250 290	-	-	12	44 48
	B-NM 32/20D/A B-NM 32/20C/A B-NM 32/20A/A	50	32	80	450 475 475	160	180	288 298 298	-	100	70	240	190	45 60 60	-	50	-	14	-	140	140	290 295 295	-	-	12	52 60 61,5
	B-NM 40/12C-F B-NM 40/12A/A	65	40	80	410 450	112	140	240	-	100	70	210	160	37	-	50	-	14	-	100	113	250 290	-	-	12	35-33 40
	B-NM 40/16C/A B-NM 40/16B/A B-NM 40/16A/A	65	40	80	450 475 475	132	160	260 270 270	-	100	70	240	190	47 45 45	-	50	-	14	-	119	119	290 295 295	-	-	12	48 56 57,5
1*	B-NM 40/20C/A-D/A B-NM 40/200A/A-B/A	65	40	100	495 580	160	180	298 320	-	100	70	265	212	60 49	-	50	-	14	-	140	140	295 375	-	-	12	63,5-62,5 80,5-75
4	B-NM 4025/B/B-C/B B-NM 4025/A/B	65	40	100	635 705	192	225	377	12	125	95	320	250	216	20	65	69	14	12	175	175	174	298	258	6	130-124 159,5
1	B-NM 50/12F/A B-NM 50/12D/A B-NM 50/12A/A-S/A	65	50	100	470 495 495	132	160	260 270 270	-	100	70	240	190	47 45 45	-	50	-	14	-	121	137	290 295 295	-	-	12	52 61 63,5-63,5
1*	B-NM 50/160A/B-B/B	65	50	100	580	160	180	320	-	100	70	265	212	49	-	50	-	14	-	127	141	375	-	-	14	80,5-74,5
4	B-NM 50/200A/B-B/B B-NM 50/200S/B	65	50	100	695 720	192	200	377	32	100	70	265	212	216	20	65	69	14	12	140	153	234	298	258	6	128-121 140,5
	B-NM 5025/C/B B-NM 5025/B/B B-NM 5025/A/B	65	50	100	635 710 710	192	225	377	12	125	95	320	250	216	20	65	69	14	12	175	175	174	298	258	6	135 144 161
	B-NM 5025/65E/A B-NM 5025/65D/A B-NM 5025/65C/A	65	50	100	635 710 710	192	225	377	12	125	95	320	250	216	20	65	69	14	12	175	175	174	298	258	6	135 156,5 161
	B-NM 65/125A/A-C/A	80	65	100	580	160	180	320	-	125	95	280	212	49	-	65	-	14	-	134	156	375	-	-	15	93,5-73
1*	B-NM 65/160D/A-E/A B-NM 65/160C/A	80	65	100	575 660	160	200	320 345	-	125	95	280	212	49 40	-	65	-	14	-	150	172	375 430	-	-	15	83,5-79 108
4	B-NM 65/160B/A B-NM 65/160A/A	80	65	100	695 770	192	200	377	32	125	95	280	212	216	20	65	69	14	12	150	172	234	298	258	6	149 178,5
	B-NM 65/200B/A-C/A B-NM 65/200A/A	80	65	100	775 825	192 202	225	377 408	12 22	125	95	320	250	216 254	20	65	69 90	14	12 14	155	175	239 245	298 400	258 360	6 42*	183-169,5 200
	B-NM 65/250B/A-C/A	80	65	100	825	202	250	408	2	160	120	360	280	254	20	80	90	18	14	175	190	245	400	360	42*	216-210
1*	B-NM 80/160E/A B-NM 80/160D/A	100	80	125	605 685	180	225	340 365	-	125	95	320	250	60 50	-	65	-	14	-	165	193	375 430	-	-	15	108,5 116
4	B-NM 80/160C/A B-NM 80/160B/A B-NM 80/160A/A	100	80	125	725 800 800	192	225	377	12	125	95	340	250	216	20	65	69	14	12	165	193	239	298	258	6	155 175,5 182

Flanges EN 1092-2



mm						
DN	C	K	D	Holes		g2
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24

Picture	B-NMS	mm																							kg
		DN1	DN2	a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	
2	B-NMS 65/250A	80	65	100	1074	200	250	500	-	160	120	360	280	318	-	80	70	18	19	200	200	406	355	305	-	
3	B-NMS 80/200A-B	100	80	125	936	180	250	387	-	125	95	345	280	254	20	65	60	14	15	175	194	331	350	310	5	
	B-NMS 80/250D-E	100	80	125	936	200	280	407	-	160	120	400	315	254	20	80	60	18	15	191	210	331	350	310	6	
2	B-NMS 80/250C	100	80	125	1099	200	280	500	-	160	120	400	315	318	-	80	70	18	19	200	210	406	355	305	-	
2°	B-NMS 80/250B	100	80	125	1164	225	280	550	-	298	258	410	315	356	-	-	80	18	19	225	225	445	361	311	-	
3°	B-NMS 80/250A	100	80	125	1235	280	280	672	-	260	220	410	315	406	25	-	100	18	24	275	275	443	500	450	8	
3	B-NMS 100/200E	125	100	125	882	200	280	386	-	160	120	360	280	216	20	80	69	18	12	180	212	322	298	258	6	
	B-NMS 100/200C-D	125	100	125	936	200	280	407	-	160	120	360	280	254	20	80	60	18	15	180	212	331	350	310	6	
2	B-NMS 100/200B	125	100	125	1099	200	280	500	-	160	120	360	280	318	-	80	70	18	19	200	212	406	355	305	-	
2°	B-NMS 100/200A	125	100	125	1164	225	280	550	-	298	258	410	315	356	-	-	80	18	19	225	225	445	361	311	-	
3°	B-NMS 100/250B	125	100	140	1250	280	280	672	-	260	220	410	315	440	25	-	100	18	24	275	275	443	500	450	8	
2°	B-NMS 100/250A	125	100	140	1324	280	280	712	-	260	220	410	315	457	-	-	100	18	24	275	275	516	479	368	-	

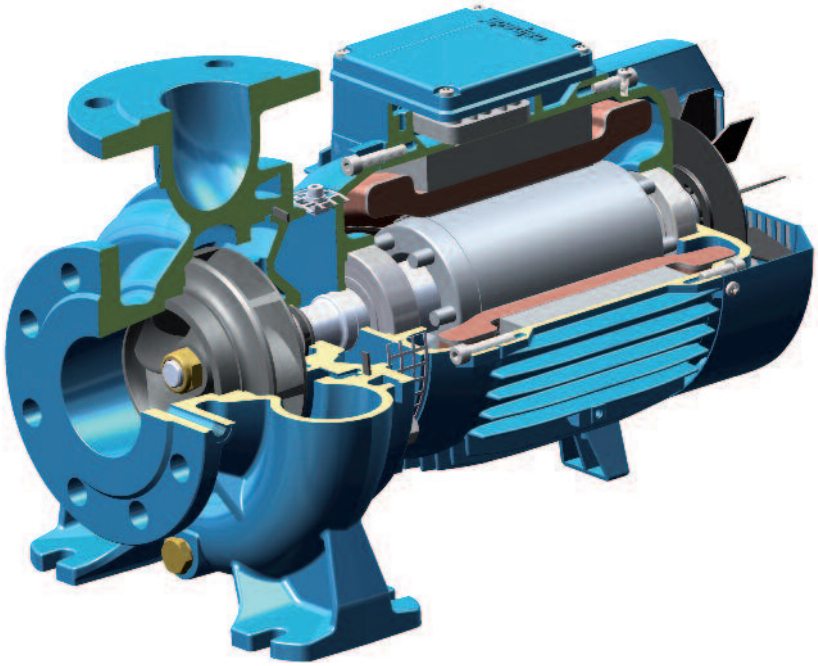
* Version without coupling guard

NM, NMS

Close Coupled Centrifugal Pumps
with flanged connections

Features

NM



Cutting edge hydraulics
The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

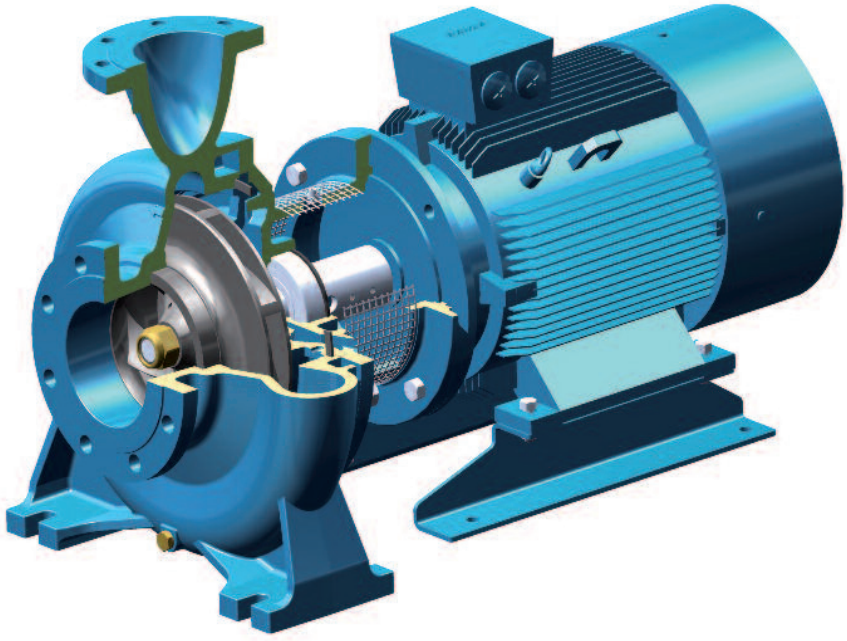
Flexible
The option to choose between cast iron and bronze materias for the hydraulic parts in contact with the pumped liquid allows NM and NM4 series pumps to be selected for use with different types of liquids.

Compact Design
The compact design allows for easy installtion even in confined spaces.

Exclusive design
An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

Reliable
The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

NMS



Cutting edge hydraulics
The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexible
The option to choose between cast iron and bronze materias for the hydraulic parts in contact with the pumped liquid allows NMS and NMS4 series pumps to be selected for use with different types of liquids.

New lantern bracket construction
The lantern brackets incorporate a thrust bearing on the hydraulic side which guarantees the elimination of additional loads on the motor bearings. The flange is sized to be used with standard motors B35.

Exclusive design
An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

Simplified motor maintenance
The presence of the thrust bearing on the hydraulic side makes it easier to remove the motor, facilitating maintenance operations and eliminating the risks of damage to the hydraulic parts.

NM4, NMS4

Close Coupled Centrifugal Pumps
n ≈ 1450 rpm

The electropumps NM4, B-NM4, NMS4, B-NMS4 series comply with the European Regulation no. 547/2012 in force starting from 01.01.2013

Materiali

Components	NM4, NMS4	B-NM4, B-NMS4
Pump casing Lantern bracket NM4 Casing cover for NMS4	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Lantern bracket NMS4	Cast iron GJL 200 EN 1561	
Impeller	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
	Brass P- Cu Zn 40 Pb 2 UNI 5705 For NM4 25/125 - 25/160 - 25/200 - NM4 32/16 - 32/20 - 40/20	
Shaft	AISI 303 up to 1,1 kW	Cr Ni Mo steel
	AISI 430 from 1,5 kW to 75 kW	AISI 316
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel Fe 430B UNI 7070	

Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump up to 15 kW, new bracket construction for standard motors (Stub-shaft construction) from 18,5 to 75 kW with integrated thrust bearing. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733 with additional sizes for completion.
NM(S)4: version with pump casing and lanter bracket in cast iron.
B-NM(S)4: version with pump casing and lanter bracket/casing cover in bronze. (the pumps are supplied fully painted).

Connections

Sizes	Connections
NM4 25/...	Threaded ports ISO 228
from NM4 32/.. to NMS4 150/..	Flanges according to PN 10, EN 1092-2

Counter-flanges (on request)

Sizes	Flanges
from NM4 32/.. to NM4 50/..	Screwed flanges EN 1092-1, PN 16
from NM4 32/.. to NMS4 150/..	Flanges for welding EN 1092-1, PN 10

Applications

For clean liquids without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0,2%).
For water supply. For heating, air conditioning, cooling and circulation plants. For civil and industrial applications.
When low noise operating is required. For irrigation.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40 °C.
Total suction lift up to 7 m.
Maximum permissible working pressure up to 10 bar.
Continuous duty.

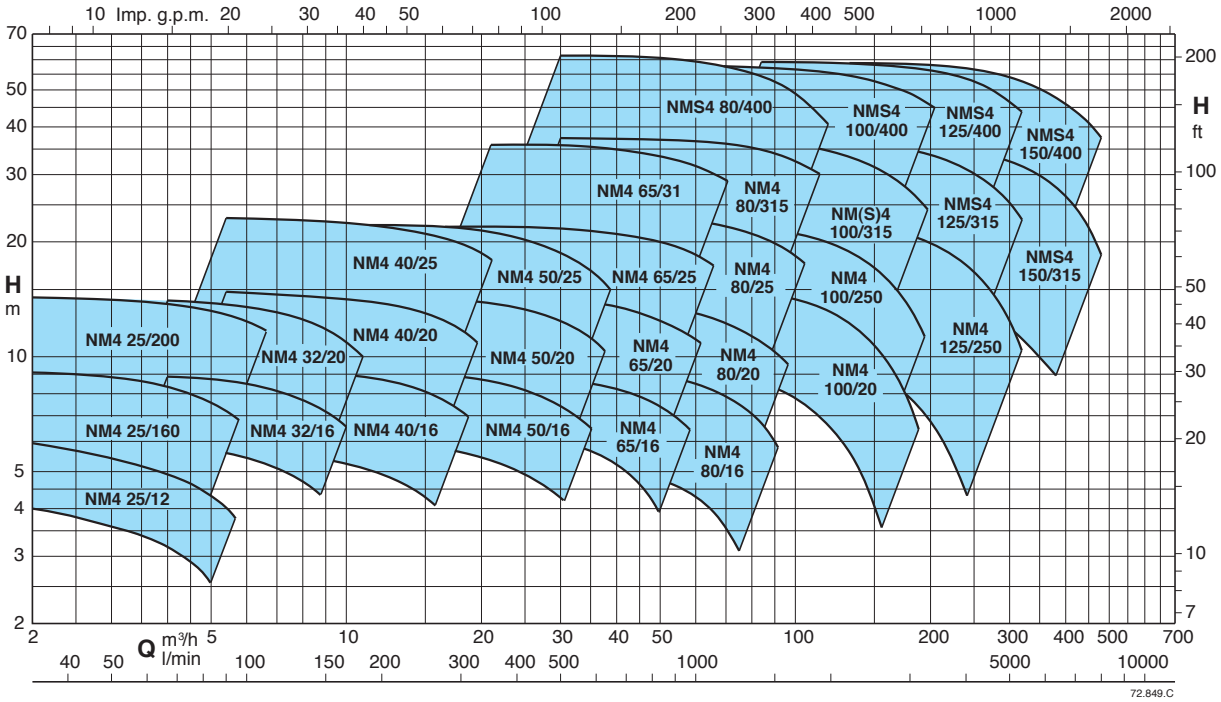
Motor

4-pole induction motor, 50 Hz (n ≈ 1450 rpm).
NM4, NMS4: three-phase 230/400 V ± 10% up to 3 kW;
400/690 V ± 10% from 4 to 75 kW.
Insulation class F. Protection IP 54 (IP 55 for NMS4).
Motor suitable for operation with frequency converter from 1,1 kW.
Classification scheme IE2 for three-phase motor from 0,75 kW.
Constructed in accordance with: EN 60034-1; EN 60034-30.

Special features on request

- Other voltages. - Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55. - Special mechanical seal.
- Higher or lower liquid or ambient temperatures.
- Motor suitable for operation with frequency converter up to 0,75 kW.

Coverage chart n ≈ 1450 rpm



NM4, NMS4 Close Coupled Centrifugal Pumps

Performance n ≈ 1450 rpm

B - NM4	NM4	P2		Q m³/h	1	1,2	1,5	1,89	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,5	8,4	9,6	10,8	12	13,2	15
		kW	HP	l/min	16	20	25	31,5	40	50	60	70	80	90	100	110	125	140	160	180	200	220	250
	NM4 25/12A/A	0,25	0,34		6,1	6,05	6	5,9	5,8	5,5	5,2	4,8	4,4	3,9	3,3								
B-NM4 25/160BE	NM4 25/160BE	0,37	0,5		7,7	7,65	7,6	7,55	7,5	7,2	6,9	6,6	6,1	5,5	4,6	3,6							
B-NM4 25/160AE	NM4 25/160AE	0,37	0,5	H	9,2	9,15	9,1	9,05	9	8,7	8,5	8,2	7,8	7,2	6,5	5,6	3,7						
B-NM4 25/200CE	NM4 25/200CE	0,37	0,5	m	11,6	11,5	11,4	11,3	11,1	10,9	10,5	10,1	9,7	9,1	8,5	7,6	6,1	4,1*					
B-NM4 25/200BE	NM4 25/200BE	0,55	0,75		13,4	13,3	13,2	13,1	12,9	12,7	12,4	12	11,6	11,1	10,5	9,8	8,6	7*	4*				
B-NM4 25/200A/A	NM4 25/200A/A	0,75	1		14,8	14,7	14,6	14,5	14,4	14,2	14	13,7	13,3	12,9	12,3	11,7	10,5	9,1*	6,2*				

B - NM4	NM4	P2		Q m³/h	2,4	3	3,6	4,8	5,4	6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	30
		kW	HP	l/min	40	50	60	80	90	100	125	140	160	180	200	220	250	280	315	350	400	450	500
B-NM4 32/16B	NM4 32/16BE	0,37	0,5		7,6	7,5	7,4	7,2	7,1	6,9	6,3	5,9	5,2	4,2									
B-NM4 32/16A	NM4 32/16AE	0,37	0,5		9	8,95	8,9	8,7	8,6	8,5	7,9	7,5	6,8	6	5,1								
B-NM4 32/20B	NM4 32/20BE	0,55	0,75		12,5	12,4	12,3	12	11,8	11,6	10,6	10	8,9	7,6	6,2	4,7							
B-NM4 32/20A/A	NM4 32/20A/A	0,75	1		14,3	14,2	14,1	13,9	13,7	13,5	12,9	12,3	11,3	10,2	8,9	7,5							
B-NM4 40/16C	NM4 40/16C/A	0,37	0,5						6,1	6	5,9	5,8	5,6	5,4	5,2	5	4,5	3,9	3,1	2,3			
B-NM4 40/16B	NM4 40/16B/A	0,55	0,75	H					7,6	7,6	7,6	7,6	7,3	7,1	6,9	6,6	6,3	5,7	5	4	2,7		
B-NM4 40/16A/A	NM4 40/16A/B	0,75	1	m					9,6	9,6	9,6	9,4	9,3	9,1	9	8,8	8,4	7,9	7,2	6,4	5,1	3,5	
B-NM4 40/20B/A	NM4 40/20B/A	1,1	1,5						13	12,9	12,7	12,6	12,4	12,2	12	11,5	10,8	10	8,6	7			
B-NM4 40/20A/A	NM4 40/20A/A	1,1	1,5						14,8	14,7	14,5	14,4	14,2	14	13,8	13,6	13	12,2	11,3	10			
B-NM4 4025/C/B	NM4 40/25C/B	1,5	2						17,4	17,3	17,2	17	16,8	16,6	16,3	16	15,1	13,8	12,1	10,4	7,2	2,8	
B-NM4 4025/B/B	NM4 40/25B/B	2,2	3						21,4	21,5	21,3	21,2	21	20,9	20,8	20,5	20	19,5	18,3	16,4	13,3	10	5
B-NM4 4025/A/B	NM4 40/25A/B	3	4						22,9	22,8	22,9	22,8	22,5	22,5	22,2	22	21,8	21,4	20,4	18,9	16	12,6	8

B - NM4	NM4	P2		Q m³/h	10,8	12	13,2	15	16,8	18,9	21	24	27	30	33	37,8	42	48	54	60	66	75	84
		kW	HP	l/min	180	200	220	250	280	315	350	400	450	500	550	630	700	800	900	1000	1100	1250	1400
B-NM4 50/16B/A	NM4 50/16B/B	1,1	1,5		8,2	8,2	8,2	8,1	8	7,8	7,6	7,2	6,7	6,2	5,5	4,4	3,3						
B-NM4 50/16A/A	NM4 50/16A/B	1,1	1,5		9,6	9,6	9,6	9,5	9,5	9,3	9,1	8,8	8,3	7,8	7,2	6,1	4,9	3,1					
	NM4 50/20C/B	1,1	1,5		11,8	11,8	11,7	11,7	11,5	11,3	10,9	10,4	9,8	9	8,1	6,3	4,7						
	NM4 50/20B/B	1,5	2		13,4	13,4	13,4	13,3	13,1	12,9	12,6	12,1	11,5	10,8	9,9	8,2	6,4	3,7					
	NM4 50/20A/B	2,2	3		14,9	14,9	14,9	14,9	14,8	14,6	14,4	14	13,4	12,8	12	10,4	8,6	6					
B-NM4 5025/D/A	NM4 50/25D/A	2,2	3		14,5	14,4	14,3	14	13,7	13,4	13	12,2	11,2	9,7	8,1	5,4	2,3						
B-NM4 5025/C/B	NM4 50/25C/B	2,2	3		17,8	17,8	17,7	17,5	17,2	16,8	16,4	15,7	14,9	13,8	12,4	9,7	6,8						
B-NM4 5025/B/B	NM4 50/25B/B	3	4		20,7	20,7	20,7	20,6	20,4	20	19,5	18,9	18,2	17,1	15,9	13,2	10,6	5,8					
B-NM4 5025/A/B	NM4 50/25A/B	4	5,5	H	22,7	22,7	22,6	22,5	22,4	22,1	21,6	21	20,2	19,4	18,3	16,4	13,6	9					
B-NM4 65/16C/A	NM4 65/16C/A	1,1	1,5	m							6,3	6,2	6,1	6	5,8	5,6	5,3	4,8	4	3,1			
B-NM4 65/16B/A	NM4 65/16B/A	1,1	1,5								7,5	7,4	7,3	7,2	7	6,8	6,5	6	5,3	4,4	3,5		
B-NM4 65/16A/A	NM4 65/16A/A	1,5	2								9	8,9	8,8	8,7	8,6	8,4	8,1	7,6	6,9	6,2	5,3	3,8	
	NM4 65/20B/A	2,2	3								11,9	11,8	11,7	11,6	11,4	11,1	10,8	10,2	9,5	8,7	7,8	6,2	4,3
	NM4 65/20A/A	3	4								14,1	14	13,9	13,8	13,7	13,4	13,1	12,6	11,9	11,1	10,2	8,8	7,2
	NM4 65/25B/A	4	5,5								18	17,9	17,8	17,7	17,6	17,3	16,9	16,3	15,4	14,4	13,1	10,8	8,5
	NM4 65/25A/A	5,5	7,5								21,9	21,8	21,7	21,6	21,5	21,2	20,8	20,2	19,5	18,5	17,5	15,4	12,8
	NM4 65/31C/A	5,5	7,5								25,8	25,7	25,5	25,3	25	24,4	23,8	22,8	21,5	20	18,2	15	11
	NM4 65/31B/A	7,5	10								31	31	30,9	30,8	30,6	30,2	29,7	28,8	27,8	26,5	25	22,2	18,6
	NM4 65/31A/A	9,2	12,5								35,9	35,9	35,8	35,7	35,5	35,1	34,6	33,8	32,8	31,6	30,2	27,8	25

B-NMS4	NM4 - NMS4	P2		Q m³/h	30	33	37,8	42	48	54	60	66	75	84	96	108	120	132	150	168	180	192	210
		kW	HP	l/min	500	550	630	700	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500
	NM4 80/16C/A	1,1	1,5		5,4	5,3	5,2	5	4,8	4,6	4,3	3,9	3,1										
	NM4 80/16B/A	1,5	2		6,7	6,6	6,5	6,3	6,1	5,9	5,6	5,2	4,6	3,7									
	NM4 80/16A/A	2,2	3		9,6	9,5	9,4	9,2	9	8,8	8,5	8,1	7,5	6,7	5,2								
	NM4 80/20C/A	2,2	3		10,3	10,2	10,1	10	9,8	9,5	9,1	8,6	7,7	6,6	4,6								
	NM4 80/20B/A	3	4		12,1	12	11,9	11,8	11,7	11,4	11,1	10,6	9,8	9	7,5	5,7							
	NM4 80/20A/A	4	5,5		13,9	13,8	13,7	13,6	13,5	13,3	13	12,6	11,8	11	9,6	7,9	6						
	NM4 80/25C/A	4	5,5	H	16,9	16,8	16,7	16,6	16,3	15,9	15,4	14,8	13,9	12,7	11,1	9,3	7,2						
	NM4 80/25B/A	5,5	7,5	m	20,7	20,6	20,5	20,4	20,3	20	19,6	19,1	18,2	17,1	15,4	13,5	11,4	9*					
	NM4 80/25A/A	7,5	10		23,7	23,7	23,6	23,5	23,3	23	22,7	22,2	21,5	20,5	19	17,2	15,1	12,7*					
	NM4 80/31C/A	9,2	12,5		28,8	28,8	28,7	28,6	28,3	27,9	27,4	26,8	25,8	24,6	22,6	20,4	17,8	15*					
B-NMS4 80/315B	NM4 80/315B/A	11	15		32,3	32,3	32,2	32,1	31,9	31,6	31,2	30,7	29,8	28,8	27	25,1	22,9	20*					
B-NMS4 80/315A	NM4 80/315A/A	15	20		37,4	37,4	37,3	37,2	37,1	37	36,7	36,3	35,6	34,7	33,2	31,3	29	26,4*					
B-NMS4 80/400C	NMS4 80/400C	18,5	25		46,5	46,3	46,1	45,8	45,2	44,5	43,5	42,4	40	37,2	32,5	26,2	18,5						
B-NMS4 80/400B	NMS4 80/400B	22	30		54	53,8	53,6	53,3	53	52,4	51,6	50,6	48,7	46,1	42	36,5	29,5	21*					
B-NMS4 80/400A	NMS4 80/400A	30	40		61,5	61,4	61,3	61,1	60,8	60,2	59,4	58,4	56,5	54	50,5	45,5	40	32,5*					

NM4, NMS4 Close Coupled Centrifugal Pumps

Performance n ≈ 1450 rpm

B-NMS4	NM4 - NMS4	P2		Q m³/h	48	54	60	66	75	84	96	108	120	132	150	168	180	192	210	240	270	300	330
		kW	HP	l/min	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500
	NM4 100/20C/A	3	4		9,4	9,3	9,2	9,1	8,9	8,5	8	7,3	6,5	5,6	4								
	NM4 100/20B/A	4	5,5		12	11,9	11,8	11,7	11,5	11,2	10,7	10	9,3	8,4	6,7	4,5							
	NM4 100/20A/A	5,5	7,5		15,2	15,2	15,1	15	14,9	14,7	14,3	13,8	13,1	12,2	10,7	9	7,5*	6*					
	NM4 100/25B/A	7,5	10		19,5	19,5	19,4	19,3	19	18,7	18,2	17,5	16,6	15,6	13,8	11,7	10	8,4	5,5				
	NM4 100/25A/A	9,2	12,5	H	22,3	22,3	22,2	22,1	21,9	21,7	21,2	20,5	19,8	18,8	17,1	15	13,4	11,7	8,9				
B-NMS4 100/315C	NM4 100/315C/A	11	15	m	26,9	26,9	26,8	26,6	26,2	25,7	24,9	23,8	22,7	21,3	18,9	15,9	13,7	11,3*					
B-NMS4 100/315B	NM4 100/315B/A	15	20		31,5	31,5	31,4	31,3	31,2	30,8	30,2	29,3	28,2	26,9	24,6	21,8	19,8	17,6*	14*				
B-NMS4 100/315A	NMS4 100/315A	18,5	25		36,9	36,9	36,8	36,7	36,6	36,4	36	35,3	34,5	33,4	31,4	29	27,2	25,3*	22,2*				
B-NMS4 100/400C	NMS4 100/400C	22	30		41,3	41,2	41,1	41	40,7	40,4	39,8	39	38	36,5	34	31	28,7	26					
B-NMS4 100/400B	NMS4 100/400B	30	40		50,2	50,1	50	49,9	49,7	49,4	48,8	48	47,1	46	44	41,3	39,5	37	33,5*				
B-NMS4 100/400A	NMS4 100/400A	37	50		58,2	58,1	58	57,9	57,8	57,6	57,2	56,3	55,7	54,5	52,7	50,5	49	47	44*				

B-NMS4	NM4 - NMS4	P2		Q m³/h	84	96	108	120	132	150	168	180	192	210	240	270	300	330	360	390	420	450	480
		kW	HP	l/min	1400	1600	1800	2000	2200	2500	2800	3000	3200	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	NM4 125/25E/A	5,5	7,5		11	10,8	10,5	10,1	9,7	9,1	8,3	7,8	7,2	6,2	4,4								
	NM4 125/25D/A	7,5	10		14	13,9	13,7	13,4	13	12,4	11,6	11	10,4	9,4	7,4	5,1							
	NM4 125/25C/A	9,2	12,5		16,7	16,6	16,4	16,2	15,9	15,4	14,6	14,1	13,5	12,5	10,4	8,2	5,8						
B-NMS4 125/250B	NM4 125/250B/A	11	15		19,3	19,2	19,1	18,9	18,7	18,2	17,5	17	16,3	15,3	13,3	10,9	8,2						
B-NMS4 125/250A	NM4 125/250A/A	15	20		22,7	22,7	22,6	22,4	22,2	21,8	21,2	20,8	20,1	19,3	17,4	15	12,4	9,3					
B-NMS4 125/315C	NMS4 125/315C	18,5	25		27,9	27,8	27,7	27,6	27,2	26,5	25,6	24,9	24	22,8	20,2	17	13,5	9,5*					
B-NMS4 125/315B	NMS4 125/315B	22	30		31,8	31,7	31,6	31,5	31,1	30,6	29,7	29,1	28,5	27,3	24,9	22	18,5	14,3*					
B-NMS4 125/315A	NMS4 125/315A	30	40		36,8	36,8	36,7	36,6	36,4	35,9	35,2	34,7	34,2	33,2	31	28,4	25,3	21,6*					
B-NMS4 125/400C	NMS4 125/400C	37	50	H	45,4	45,3	45,2	45,1	44,9	44,4	43,7	43	42	40	37	33	28,5*	23,5*					
B-NMS4 125/400B	NMS4 125/400B	45	60	m	51,4	51,3	51,2	51,1	50,9	50,4	49,7	49	48,2	46,8	44	40,5	36*	31,5*					
B-NMS4 125/400A	NMS4 125/400A	55	75		59,2	59,1	59	58,9	58,7	58,2	57,7	57,2	56,7	55,7	53,5	50,5	46,5*	42,5*					
B-NMS4 150/315D	NMS4 150/315D	18,5	25						22,8	22,6	22,3	22	21,7	21,1	20	18,6	17	15,1	13	10,6	8*		
B-NMS4 150/315C	NMS4 150/315C	22	30						25,6	25,4	25,1	24,9	24,7	24,2	23,3	22	20,4	18,5	16,5	14,1	11,6*	8,9*	
B-NMS4 150/315B	NMS4 150/315B	30	40						30,6	30,6	30,5	30,3	30,1	29,7	29	27,9	26,5	24,9	23	20,8	18,3*	15,4*	
B-NMS4 150/315A	NMS4 150/315A	37	50						35,6	35,6	35,5	35,4	35,3	35,2	34,6	33,7	32,5	31	29,2	27,1	24,7*	21,8*	18,5*
B-NMS4 150/400C	NMS4 150/400C	45	60						45	44,9	44,7	44,5	44	43,5	42,5	40,5	38,5	36	33,5	30,5	27*	23,5*	19,5*
B-NMS4 150/400B	NMS4 150/400B	55	75						50,8	50,7	50,5	50,3	50	49,5	48,5	47	45	43	40,5	38	35*	32*	28,5*
B-NMS4 150/400A	NMS4 150/400A	75	100						58,8	58,7	58,6	58,5	58,3	57,9	57	55,5	54	52	49,5	47	44*	41*	37,5

NM4, NMS4 Standard construction.
B-NM4, B-NMS4 Bronze construction.

P2 Rated motor power output.
H Total head in m.

* Maximum suction lift 1-2 m.
Tolerances according to UNI EN ISO 9906:2012

Regulation (EU) No 547/2012

- The benchmark for most efficient water pumps is MEI ≥ 0,70.
- 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.
- 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.

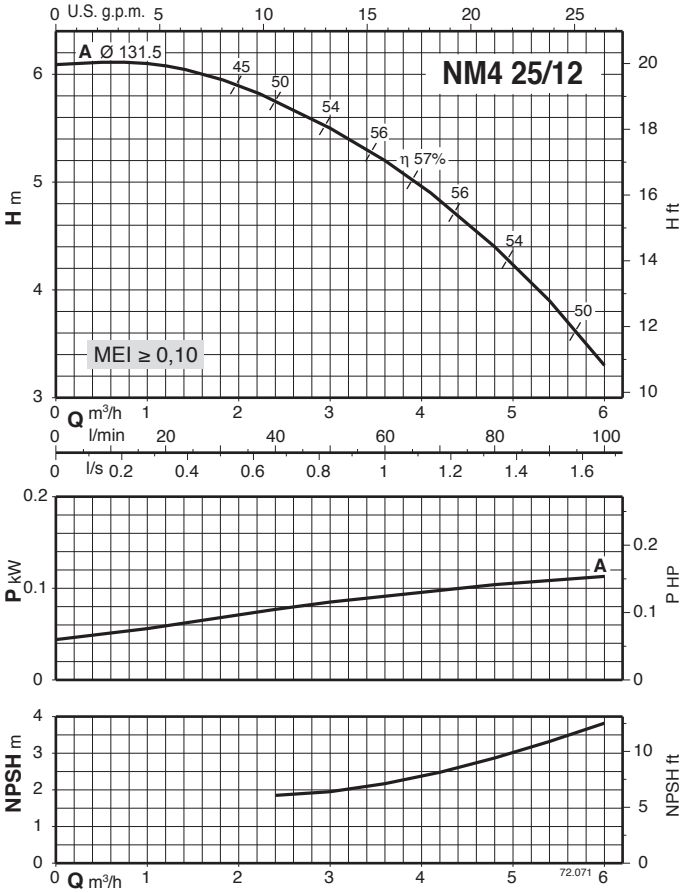
Rated currents

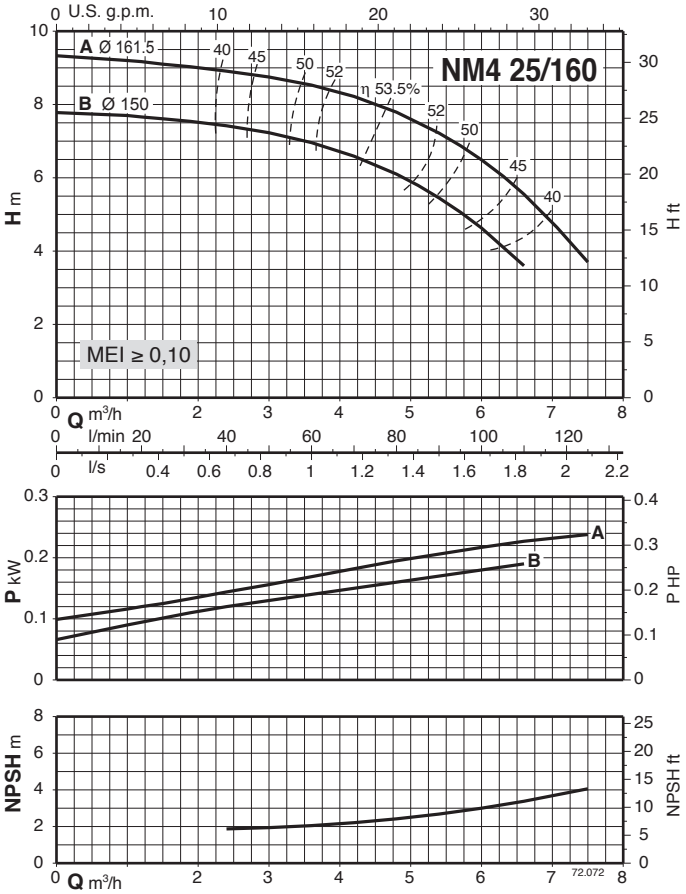
P2		230 V Δ / 400 V Y		
kW	HP	IN A	IN A	IA/IN
0,25	0,34	1,4	0,8	3,7
0,37	0,5	1,65	0,95	4,2
0,55	0,75	2,6	1,5	4,8
0,75	1	3,3	1,9	5,2
1,1	1,5	5	2,9	4,7
1,5	2	6	3,5	5
2,2	3	8,6	5	6,1
3	4	11,1	6,4	9

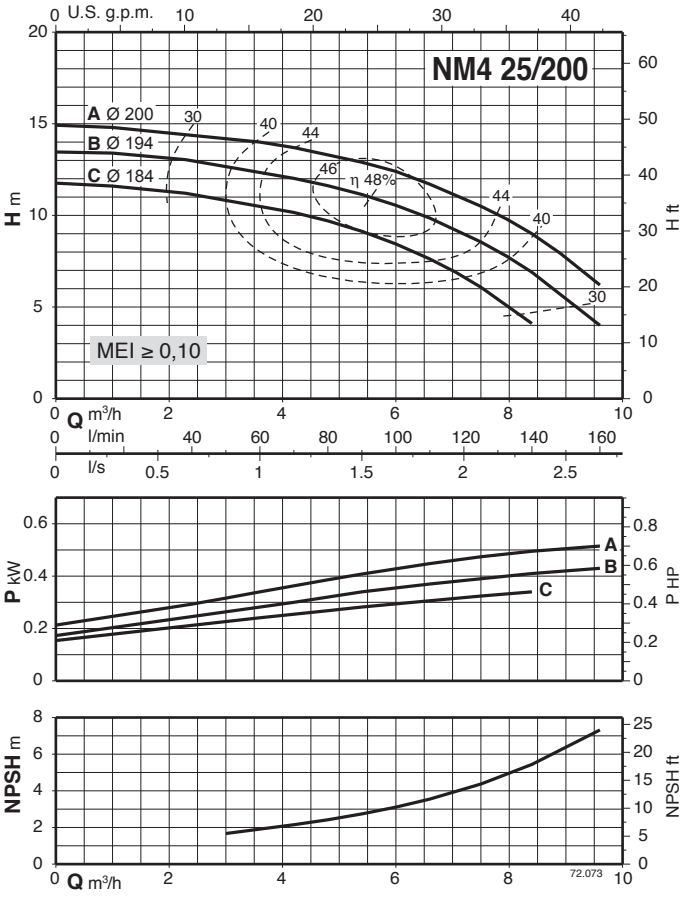
P2		400 V Δ / 690 V Y		
kW	HP	IN A	IN A	IA/IN
4	5,5	8,3	4,8	9,3
5,5	7,5	12,5	7,2	7,7
7,5	10	16	9,2	9,4
9,2	12,5	19	11	9,3
11	15	22,5	13	6,9
15	20	29	16,7	7
18,5	25	34,5	19,9	6,4
22	30	40,5	23,4	6,7
30	40	55	31,8	6,7
37	50	67	38,5	6,8
45	60	81	46,8	6,9
55	75	96	55,4	7,5
75	100	130	75	6,8

P2 Rated motor power output.
IA/IN D.O.L. starting current / Nominal current

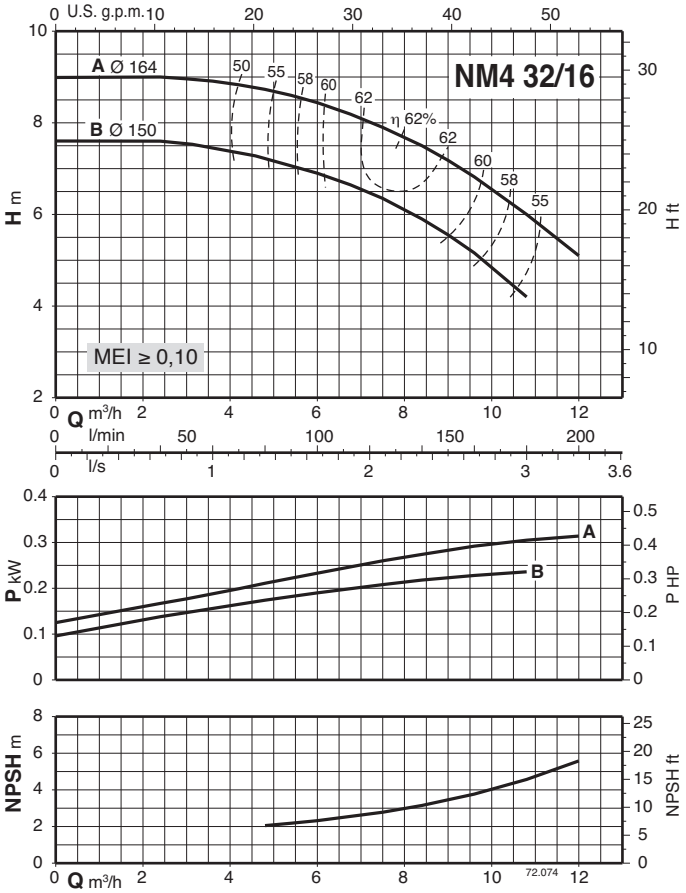
Characteristic curves n ≈ 1450 rpm

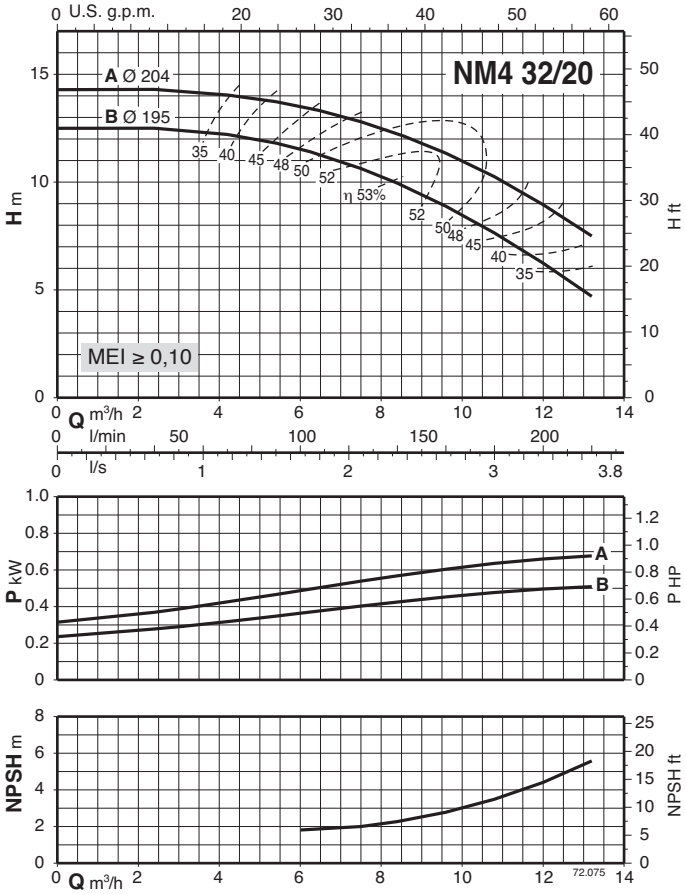


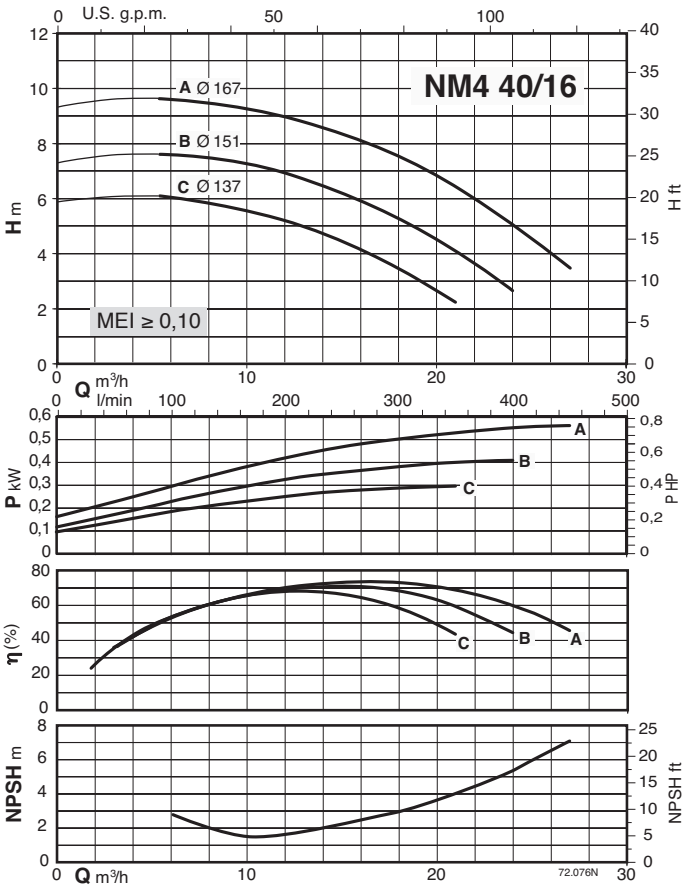


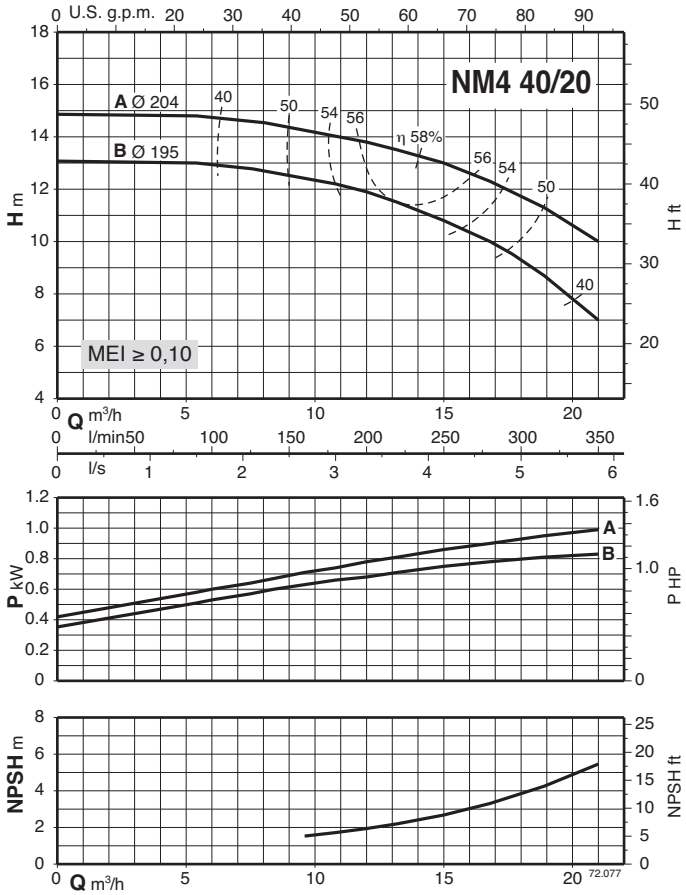


Characteristic curves n ≈ 1450 rpm

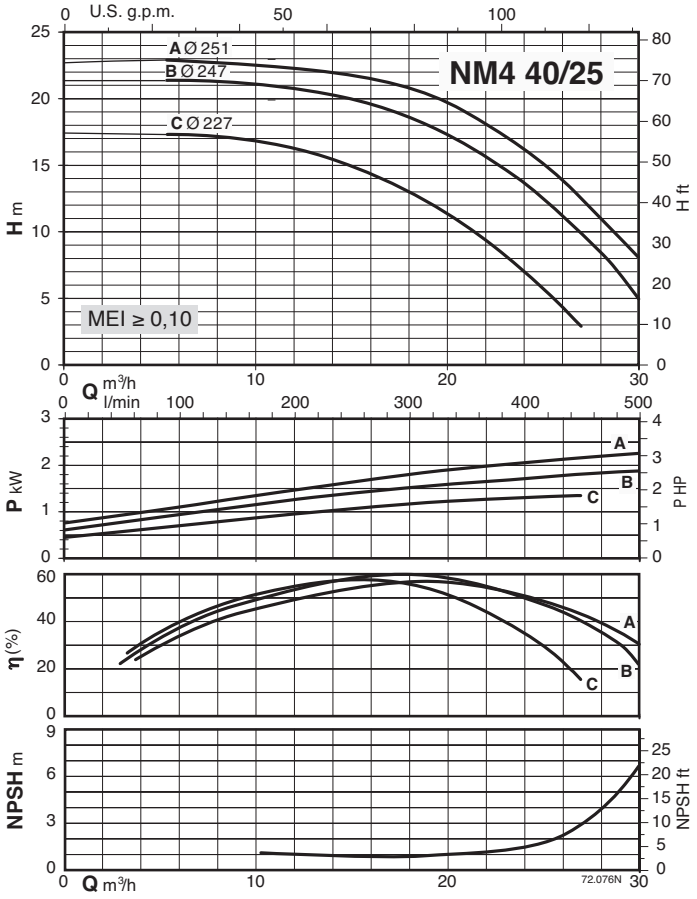


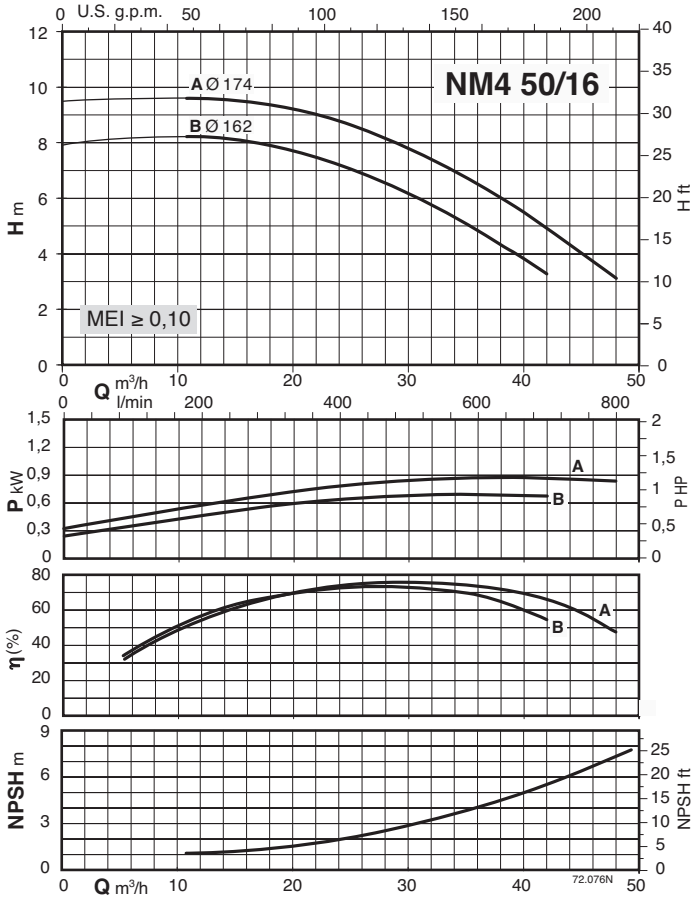


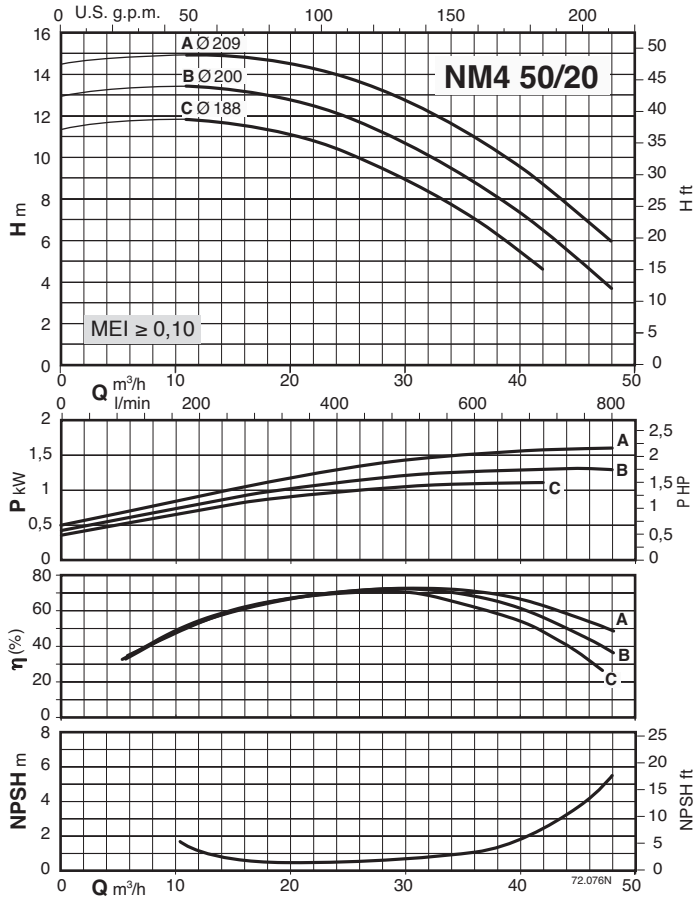


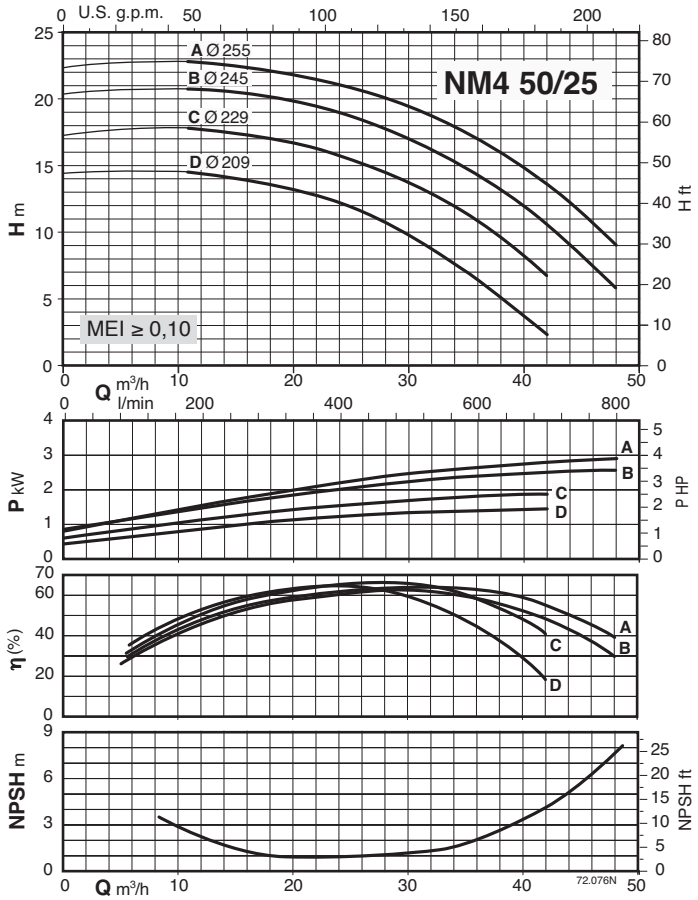


Characteristic curves n ≈ 1450 rpm

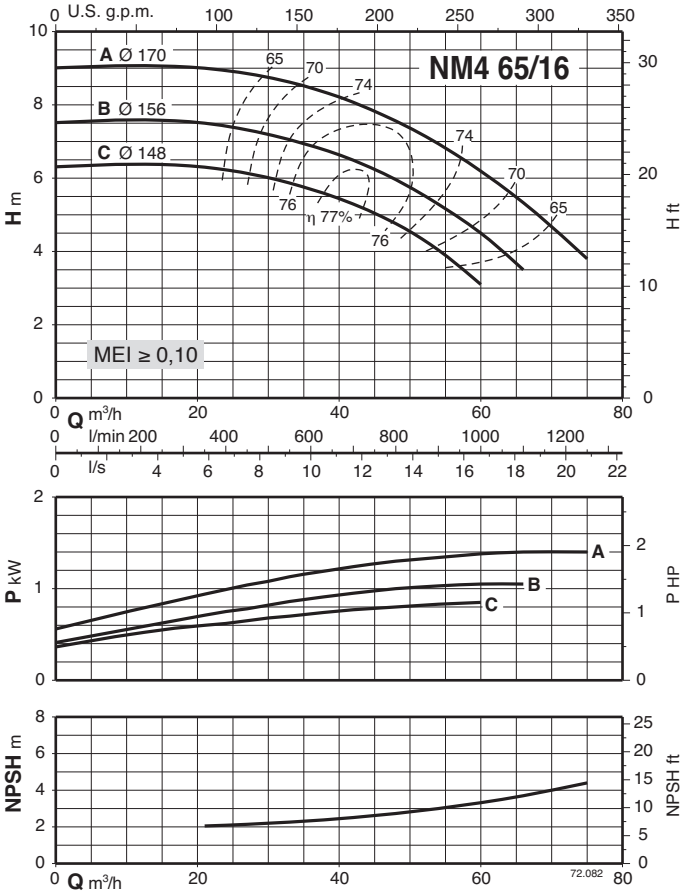


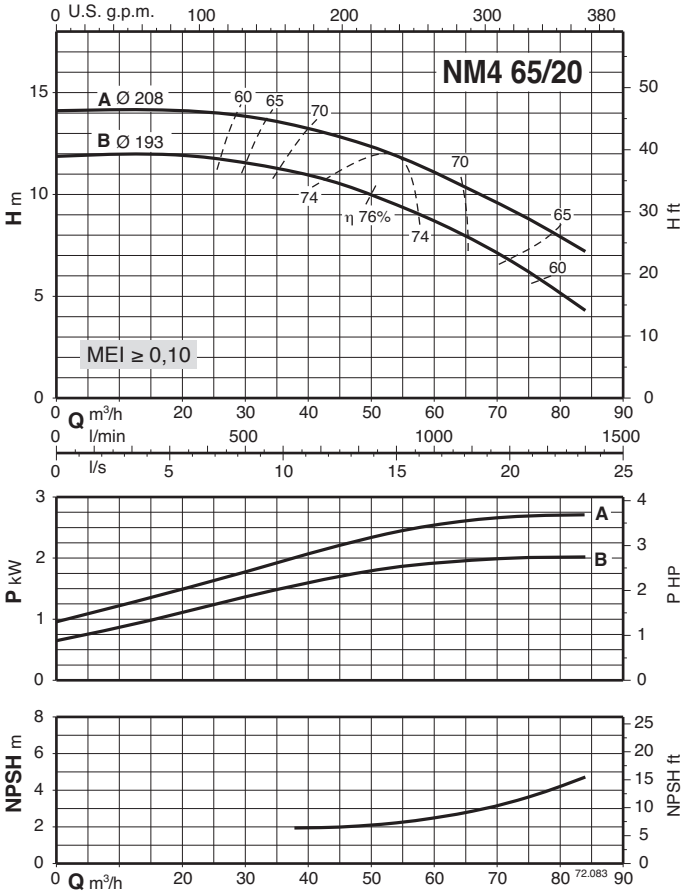


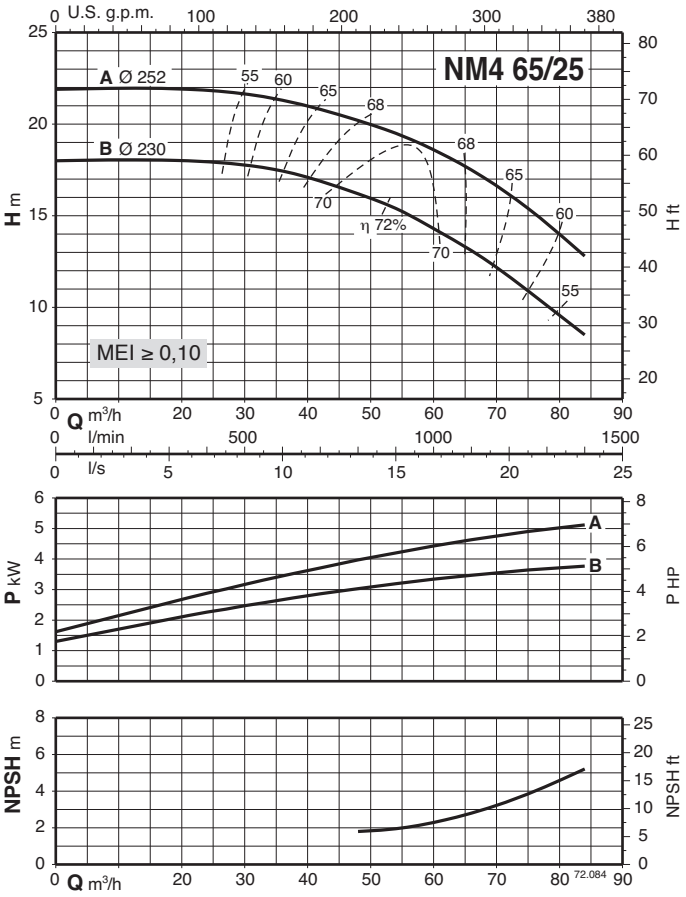


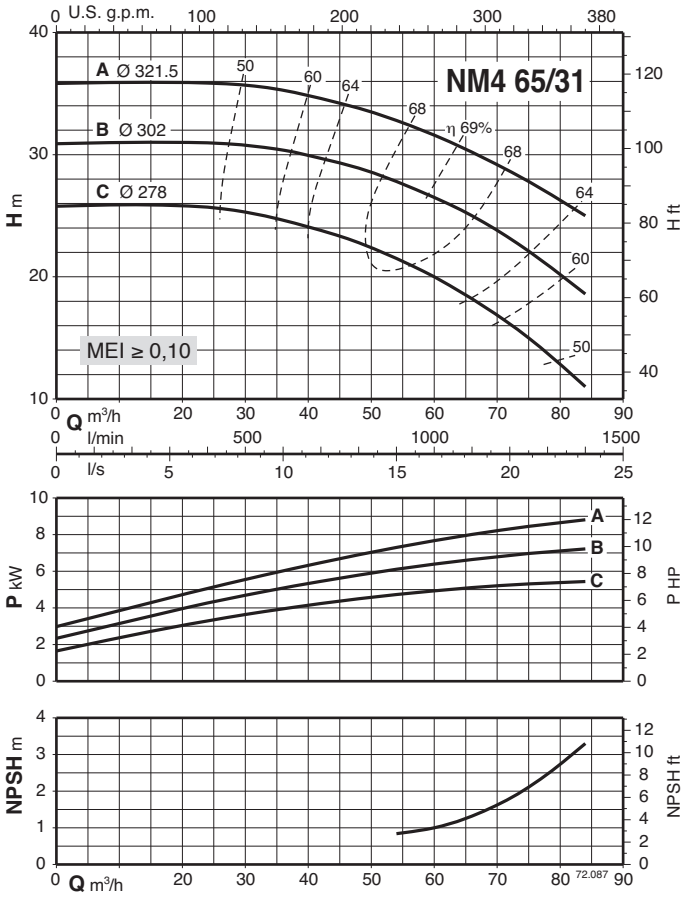


Characteristic curves n ≈ 1450 rpm

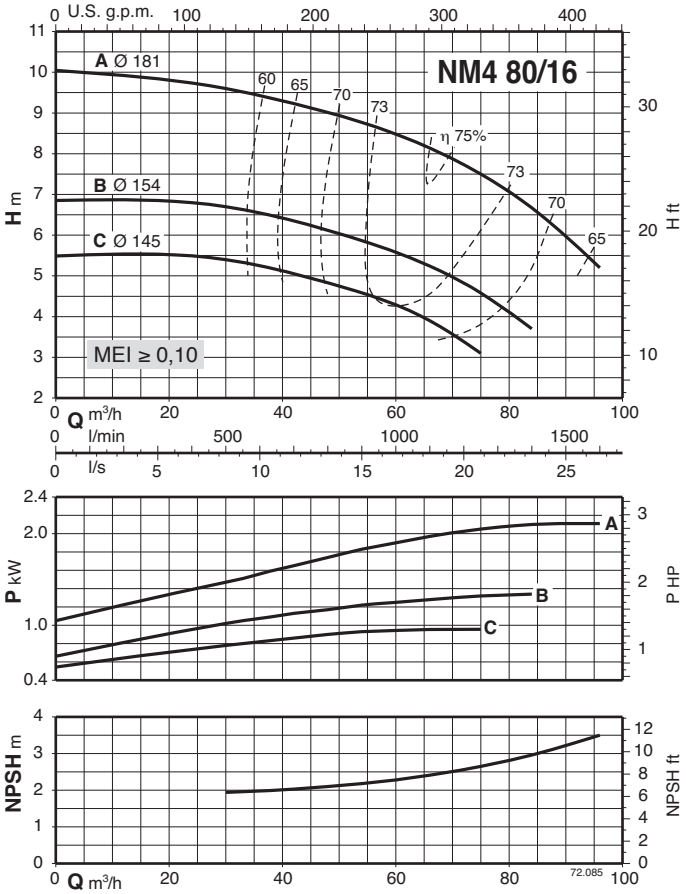


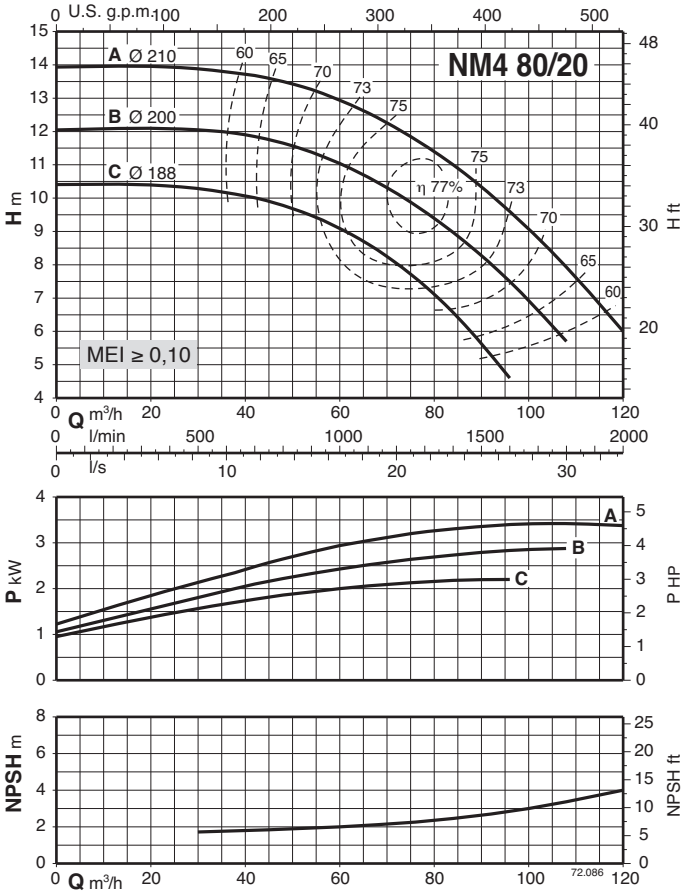


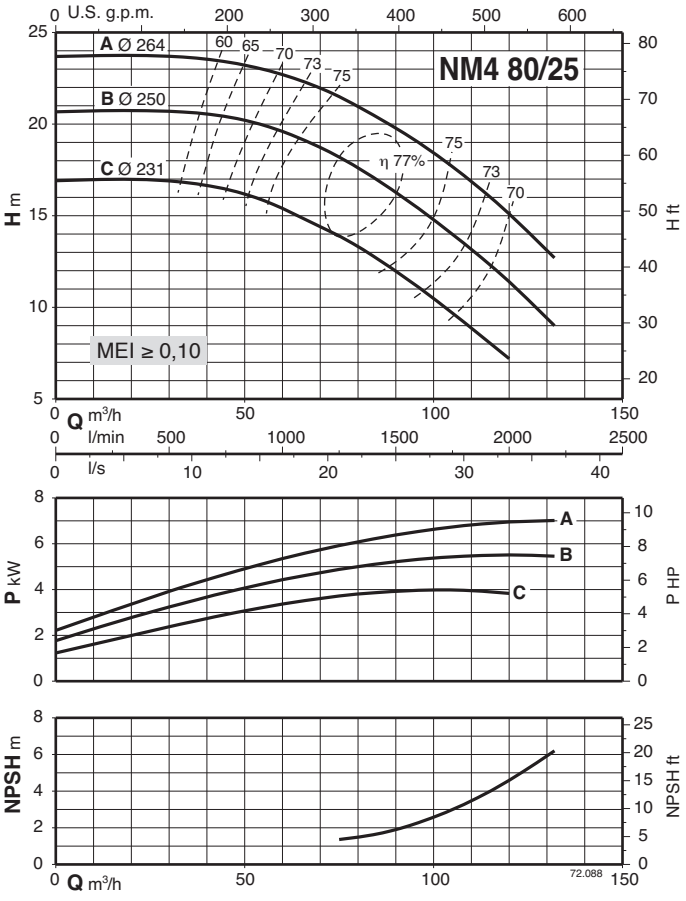




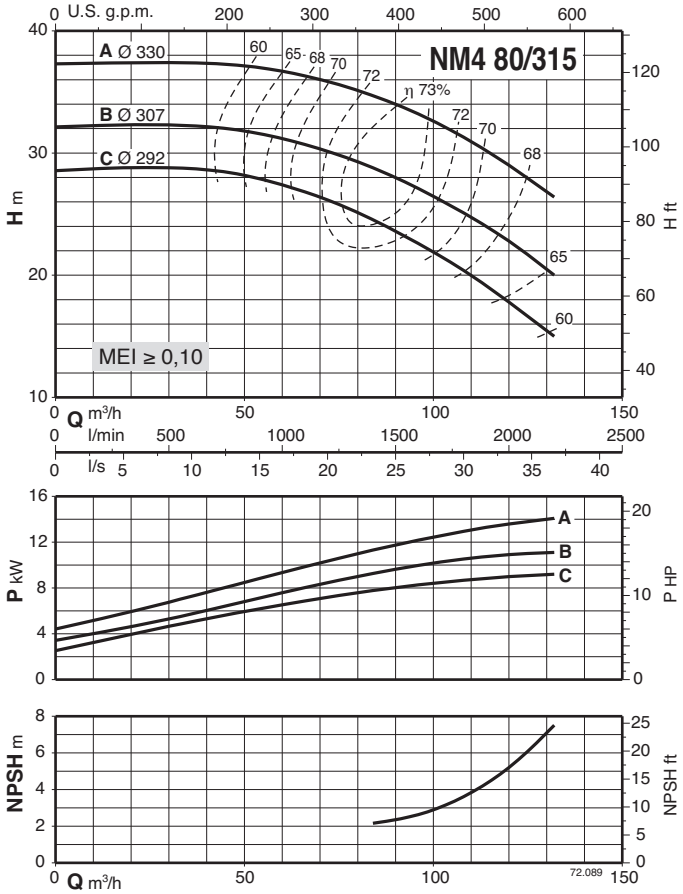
Characteristic curves n ≈ 1450 rpm

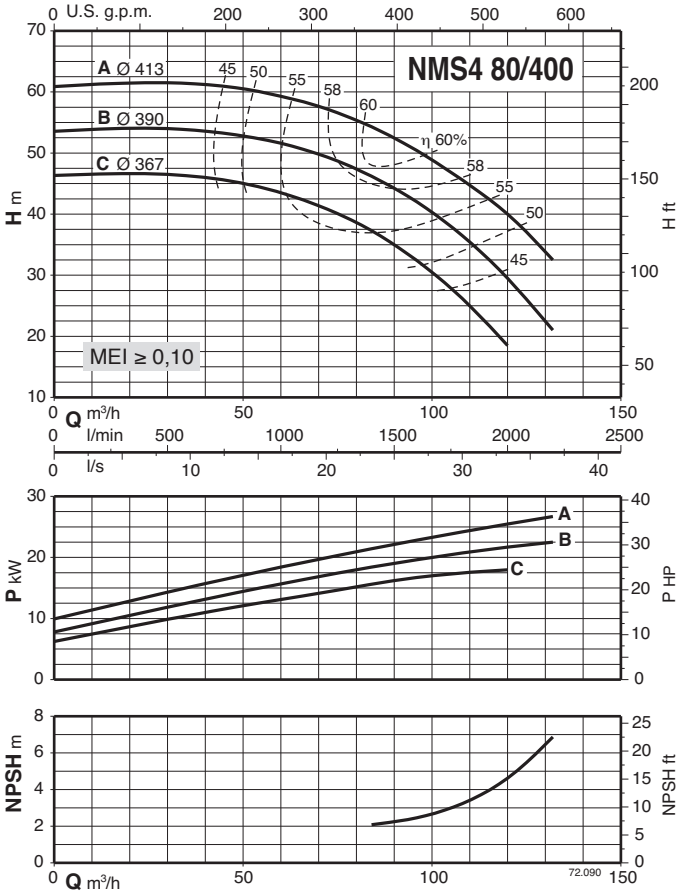




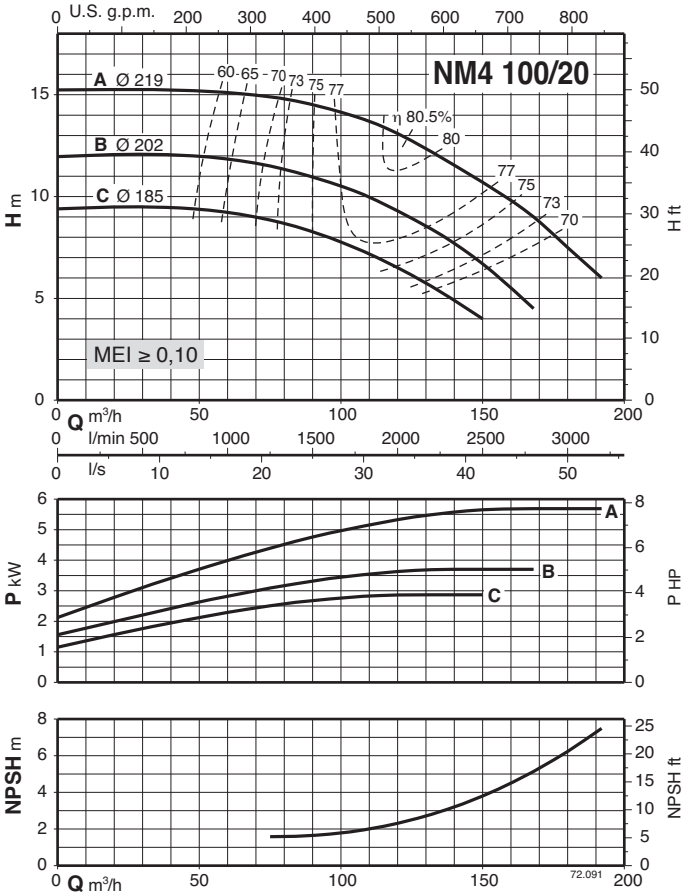


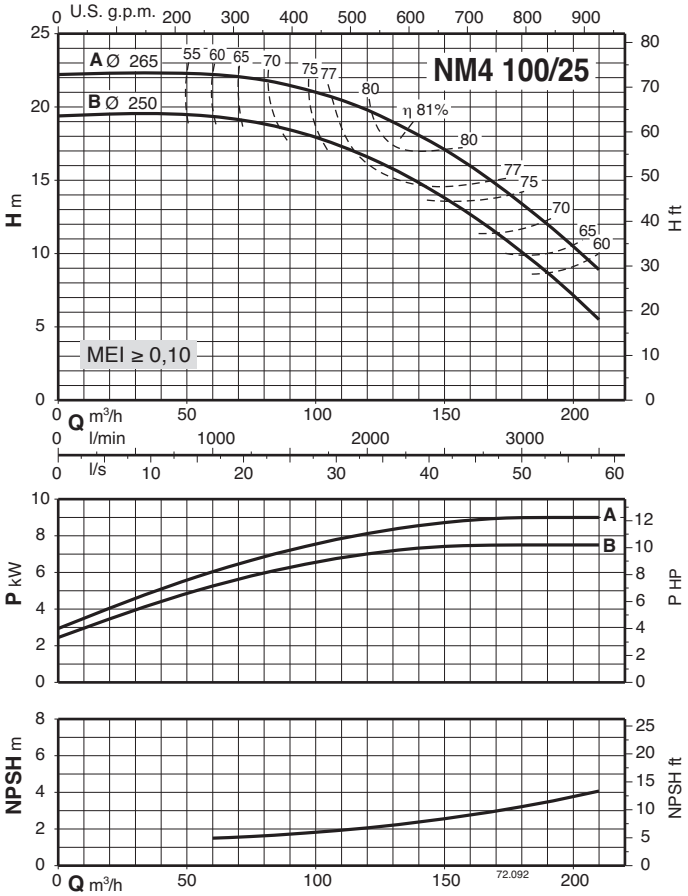
Characteristic curves n ≈ 1450 rpm

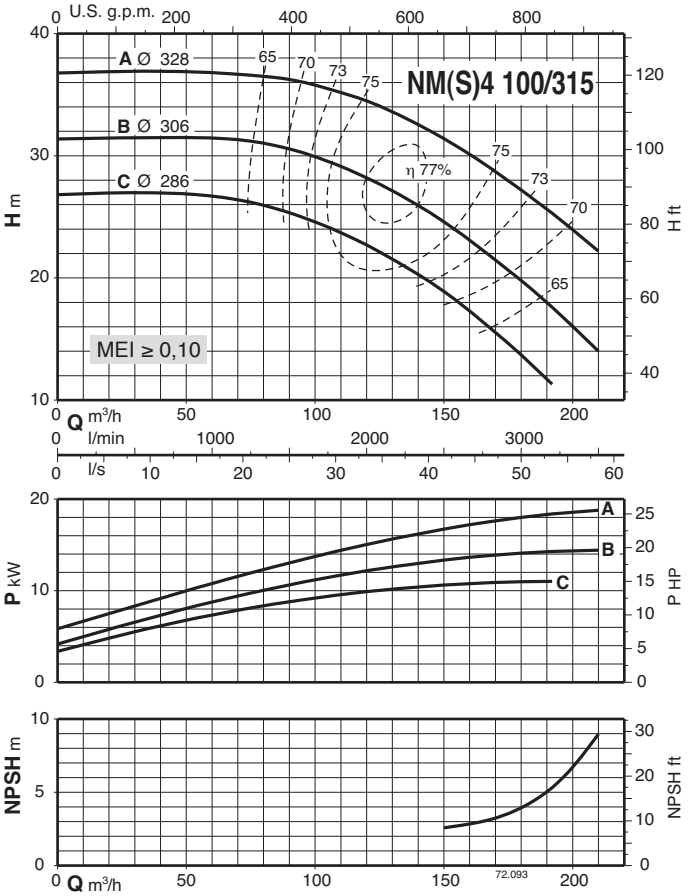


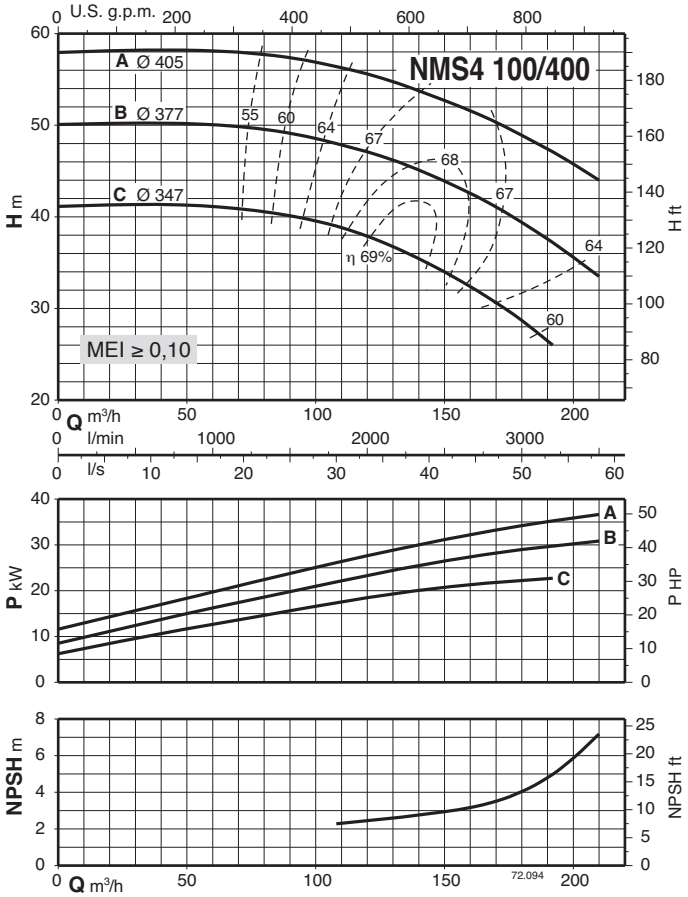


Characteristic curves n ≈ 1450 rpm

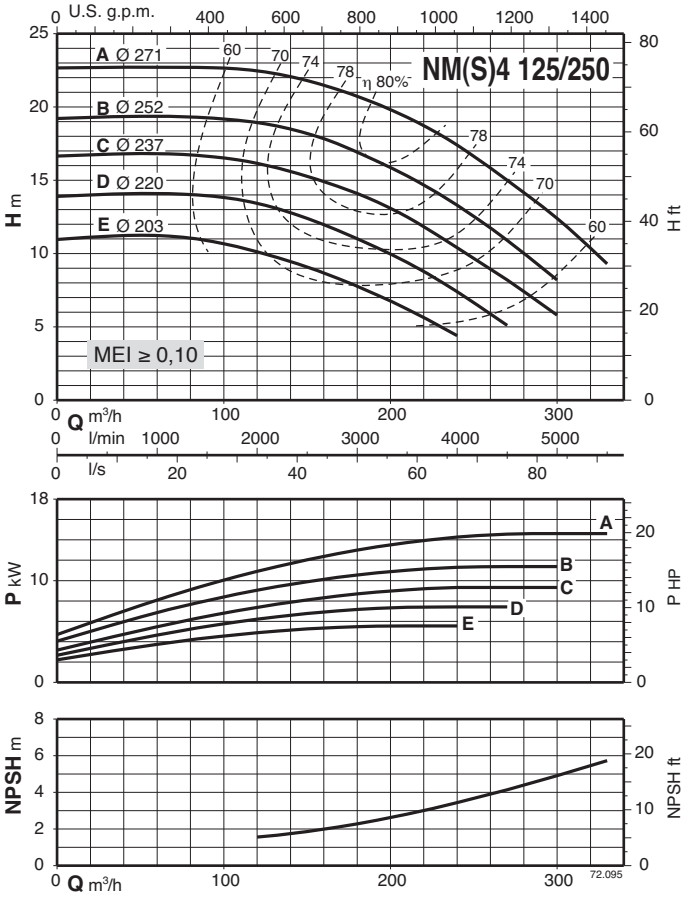


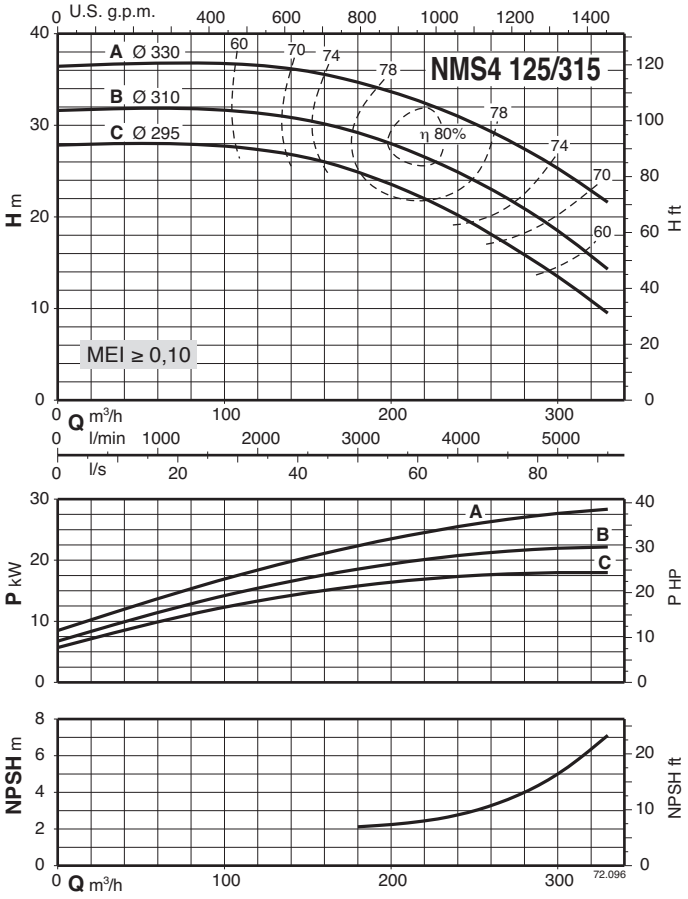


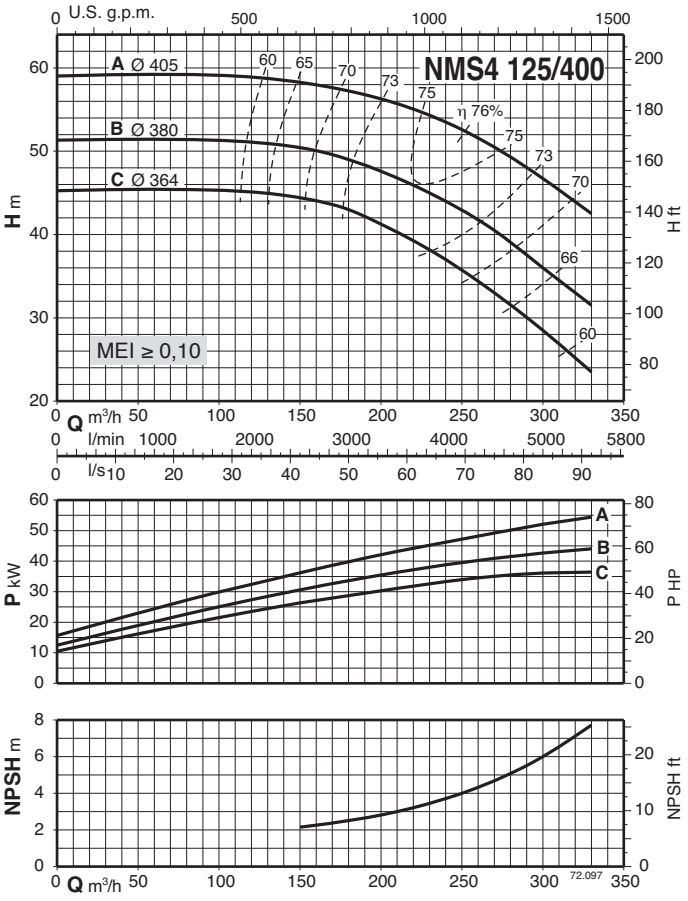




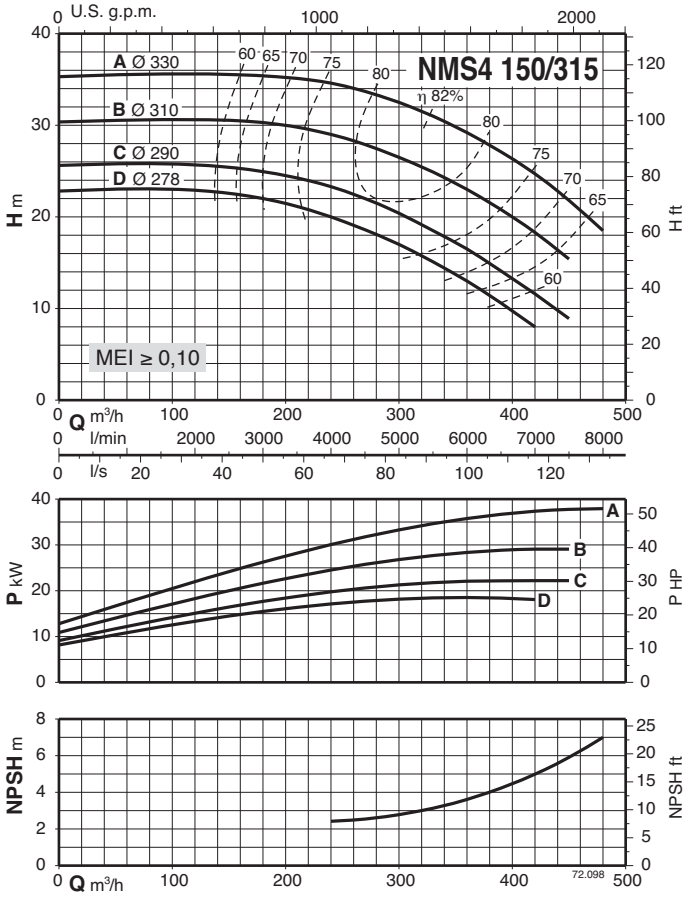
Characteristic curves n ≈ 1450 rpm

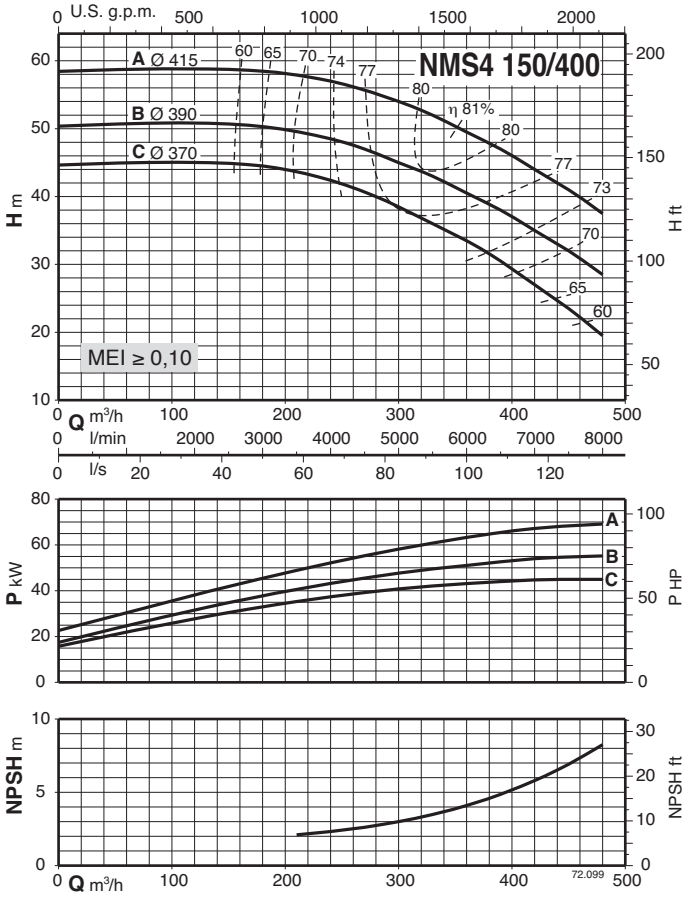






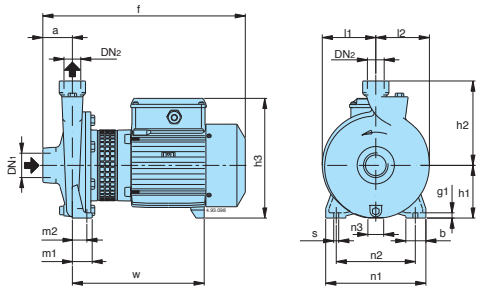
Characteristic curves n ≈ 1450 rpm





Dimensions and weights

1



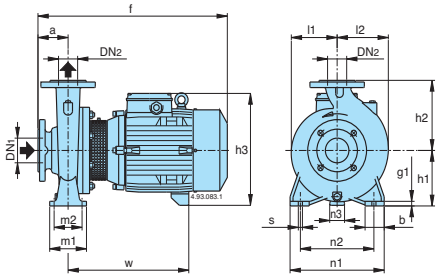
Standard construction

Picture	NM4	DN1 ISO 228	DN2 ISO 228	mm a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g	kg
1	NM4 25/12A/A	G 1½	G 1	56	313	90	140	199	37,5	27,5	170	130	9	38	9,5	85	88	250	10	13,5
	NM4 25/160AE-BE			56	380	100	160	228	37,5	27,5	190	150	30	38	9,5	102	102	250	10	17,5
	NM4 25/200A/A-BE-CE			63	385	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	27-23-21,5

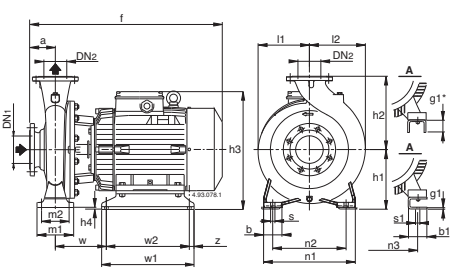
Bronze construction **B-NM4**

Picture	B-NM4	DN1 ISO 228	DN2 ISO 228	mm a	f	h1	h2	h3	m1	m2	n1	n2	n3	b	s	l1	l2	w	g	kg
1	B-NM4 25/160AE-BE	G 1½	G 1	56	380	100	160	228	37,5	27,5	190	150	30	38	9,5	102	102	250	10	19-19
	B-NM4 25/200A/A-BE-CE			63	400	125	180	253	45	32,5	245	200	49	45	11,5	125	125	250	11	29-25-23

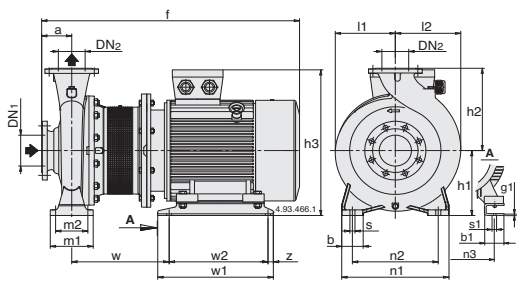
2



3

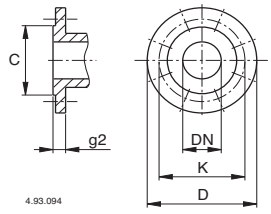


4



Picture	B-NM4	DN1	DN2	mm a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	kg
2	B-NM4 32/16A-B	50	32	80	410	132	160	260	-	100	70	240	190	47	-	50	-	14	-	120	120	255	-	-	12	38-38
	B-NM4 32/20A/A-B	50	32	80	410	160	180	288	-	100	70	240	190	62	-	50	-	14	-	140	140	255	-	-	12	45-41
	B-NM4 40/16A/A-B-C	65	40	80	410	132	160	260	-	100	70	240	190	47	-	50	-	14	-	119	119	255	-	-	12	43-40-38
	B-NM4 40/20A/A-B/A	65	40	100	470	160	180	288	-	100	70	265	212	62	-	50	-	14	-	140	140	255	-	-	12	55-55
3	B-NM4 4025/B/B-C/B B-NM4 4025/A/B	65	40	100	535 560	190	225	318 350	10	125	95	320	250	140 190	15	65	54 60	14	10 12	175	175	156 125	205 280	175 250	6	73-73 89
2	B-NM4 50/16A/A-B/A	65	50	100	470	160	180	288	-	100	70	265	212	62	-	50	-	14	-	127	141	255	-	-	12	55-55
3	B-NM4 5025/C/B-D/A B-NM4 5025/A/B-B/B	65	50	100	535 560	190	225	318 350	10	125	95	320	250	140 190	15	65	54 60	14	10 12	175	175	156 125	205 280	175 250	6	79,5 105-92
2	B-NM4 65/16B/A-C/A B-NM4 65/16A/A	80	65	100	470 495	160	200	288 306	-	125	95	280	212	62 60	-	65	-	14	-	150	172	255 300	-	-	15	63-63 71

Flanges EN 1092-2



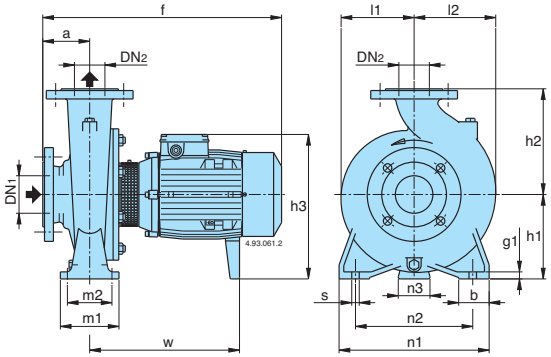
DN	C	K	D	Holes N°	Holes Ø	g2
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24
150	211	240	285	8	23	26
200	266	295	340	8	23	30

Picture	B-NMS4	DN1	DN2	mm a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	kg
4	B-NMS4 80/315A-B	100	80	125	948	250	315	457	-	160	120	400	315	254	20	80	60	18	15	220	232	271	435	395	6	
	B-NMS4 80/400C	125	80	125	974	280	355	542	-	160	120	435	355	279	25	80	70	18	15	268	268	318	520	435	6	
	B-NMS4 80/400B	125	80	125	1025	280	355	542	-	160	120	435	355	279	25	80	70	18	15	268	268	318	520	435	6	
	B-NMS4 80/400A	125	80	125	1025	280	355	580	-	160	120	435	355	318	25	80	83	18	19	268	268	334	540	455	6	
	B-NMS4 100/315B-C	125	100	140	963	250	315	457	-	160	120	400	315	254	20	80	60	18	15	230	250	271	435	395	6	
	B-NMS4 100/315A	125	100	140	984	250	315	512	-	160	120	400	315	279	25	80	70	18	15	230	250	312	432	382	6	
	B-NMS4 100/400C	125	100	140	1040	280	355	542	-	200	150	500	400	279	25	100	70	22	15	268	280	318	520	435	6	
	B-NMS4 100/400B	125	100	140	1040	280	355	580	-	200	150	500	400	318	25	100	83	22	19	268	280	334	540	455	6	
	B-NMS4 100/400A	125	100	140	1139	280	355	605	-	200	150	500	400	356	55	100	103	22	19	268	280	384	540	460	8	
	B-NMS4 125/250A-B	150	125	140	951	250	355	457	-	160	120	400	315	254	20	80	60	18	15	235	268	259	435	395	6	
	B-NMS4 125/315C	150	125	140	989	280	355	542	-	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	
	B-NMS4 125/315B	150	125	140	1040	280	355	542	-	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	
	B-NMS4 125/315A	150	125	140	1040	280	355	580	-	200	150	500	400	318	25	100	83	22	19	247	278	334	540	455	6	
	B-NMS4 125/400C	150	125	140	1139	315	400	640	-	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	
	B-NMS4 125/400B	150	125	140	1199	315	400	640	-	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	
	B-NMS4 125/400A	150	125	140	1307	315	400	707	-	200	150	500	400	406	25	100	100	22	24	280	305	454	540	461	8	
	B-NMS4 150/315D	200	150	160	1009	280	400	542	-	200	150	550	450	279	25	100	70	22	15	260	298	318	520	435	6	
	B-NMS4 150/315C	200	150	160	1060	280	400	542	-	200	150	550	450	279	25	100	70	22	15	260	298	318	520	435	6	
	B-NMS4 150/315B	200	150	160	1060	280	400	580	-	200	150	550	450	318	25	100	83	22	19	260	298	334	540	455	6	
	B-NMS4 150/315A	200	150	160	1159	280	400	605	-	200	150	550	450	356	55	100	103	22	19	260	298	384	540	460	8	
	B-NMS4 150/400C	200	150	160	1219	315	450	640	-	200	150	550	450	356	25	100	103	22	19	295	328	409	540	461	8	
	B-NMS4 150/400B	200	150	160	1277	315	450	707	-	200	150	550	450	406	25	100	100	22	24	295	328	404	540	461	8	
	B-NMS4 150/400A	200	150	160	1280	315	450	747	-	200	150	550	450	457	45	100	100	22	24	295	328	432	625	535	6	

Pumps with packed gland, dimensions available on request (excluded NMS4).

Dimensions and weights

2



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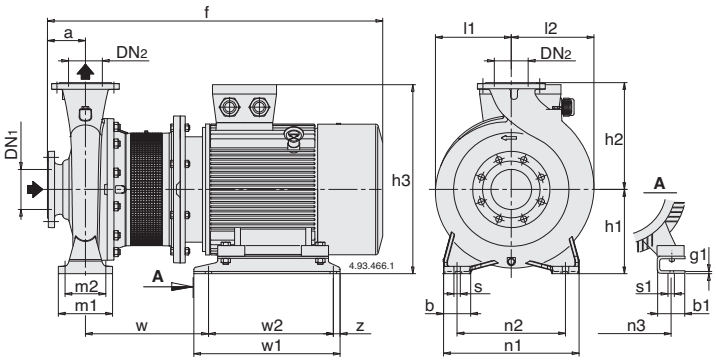
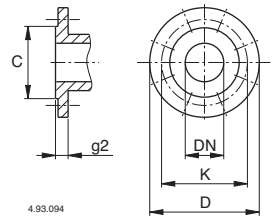


Standard construction

Picture	NM4	mm																							kg
		DN1	DN2	a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	
2	NM4 32/16AE-BE	50	32	80	410	132	160	260	-	100	70	240	190	47	-	50	-	14	-	120	120	255	-	-	12	30,5-30
	NM4 32/20A/A-BE	50	32	80	410	160	180	288	-	100	70	240	190	62	-	50	-	14	-	140	140	255	-	-	12	38-34,5
	NM4 40/16A/B-B/A-C/A	65	40	80	410	132	160	268	-	100	70	240	190	47	-	50	-	14	-	119	119	255	-	-	12	37-33-31
	NM4 40/20A/A-B/A	65	40	100	470	160	180	288	-	100	70	265	212	62	-	50	-	14	-	140	140	255	-	-	12	41-40,5
	NM4 40/25B/B-C/B NM4 40/25A/B	65	40	100	495 525	180	225	308 340	-	125	95	320	250	60	-	65	-	14	-	175	175	300 330	-	-	15	66,5-62 78
	NM4 50/16A/B-B/B	65	50	100	470	160	180	288	-	100	70	265	212	62	-	50	-	14	-	127	141	255	-	-	12	40-39,5
	NM4 50/20C/B NM4 50/20A/B-B/B	65	50	100	480 505	160	200	288	-	100	70	265	212	62 60	-	50	-	14	-	140	153	265 310	-	-	14	44,5 57-52,5
	NM4 50/25C/B-D/A NM4 50/25A/B-B/B	65	50	100	490 530	180	225	308 340	-	125	95	320	250	60	-	65	-	14	-	175	175	300 330	-	-	15	68 85,5-78
	NM4 65/16B/A-C/A NM4 65/16A/A	80	65	100	470 495	160	200	288	-	125	95	280	212	62 60	-	65	-	14	-	150	172	255 300	-	-	15	48-48 54,5
	NM4 65/20B/A NM4 65/20A/A	80	65	100	505 525	180	225	308 340	-	125	95	320	250	60	-	65	-	14	-	155	175	310 330	-	-	15	61 73,5
	NM4 65/25B/A NM4 65/25A/A	80	65	100	540 645	200	250	360 385	-	160	120	360	280	60	-	80	-	18	-	175	190	345 415	-	-	18	97 116
	NM4 65/31B/A-C/A NM4 65/31A/A	80	65	125	670 720	225	280	410	-	160	120	400	315	75	-	80	-	18	-	220	220	415 465	-	-	20	164-153 176
	NM4 80/16C/A NM4 80/16A/A-B/A	100	80	125	495 520	180	225	288 308	-	125	95	320	250	62 60	-	65	-	14	-	165	193	255 300	-	-	15	53 65,5-61
	NM4 80/20C/A NM4 80/20A/A-B/A	100	80	125	540 560	180	250	308 340	-	125	95	345	280	60	-	65	-	14	-	170	194	320 340	-	-	15	74,5 91-82
	NM4 80/25C/A NM4 80/25A/A-B/A	100	80	125	565 670	200	280	360 385	-	160	120	400	315	60	-	80	-	18	-	191	210	335 415	-	-	20	102 135-124
	NM4 80/31C/A	100	80	125	720	250	315	435	-	160	120	400	315	90	-	80	-	18	-	220	232	465	-	-	20	181
3	NM4 80/315A/A-B/A	100	80	125	850	260	315	466	10	160	120	400	315	254	20	80	74	18	14	220	232	210	435	395	6	269-248
2	NM4 100/20B/A-C/A NM4 100/20A/A	125	100	125	565 665	200	280	360 385	-	160	120	360	280	60	-	80	-	18	-	180	212	330 410	-	-	20	99-90 109
	NM4 100/25B/A NM4 100/25A/A	125	100	140	685 735	225	280	410	-	160	120	400	315	75	-	80	-	18	-	205	233	415 465	-	-	20	143 152
3	NM4 100/315B/A-C/A	125	100	140	865	260	315	466	10	160	120	400	315	254	20	80	74	18	14	230	250	210	435	395	6	280-261
2	NM4 125/25D/A-E/A NM4 125/25C/A	150	125	140	685 735	250	355	435	-	160	120	400	315	90	-	80	-	18	-	235	268	415 465	-	-	20	161-149 173
3	NM4 125/250A/A-B/A	150	125	140	865	260	355	466	10	160	120	400	315	254	20	80	74	18	14	235	268	210	435	395	6	261-243

Flanges EN 1092-2

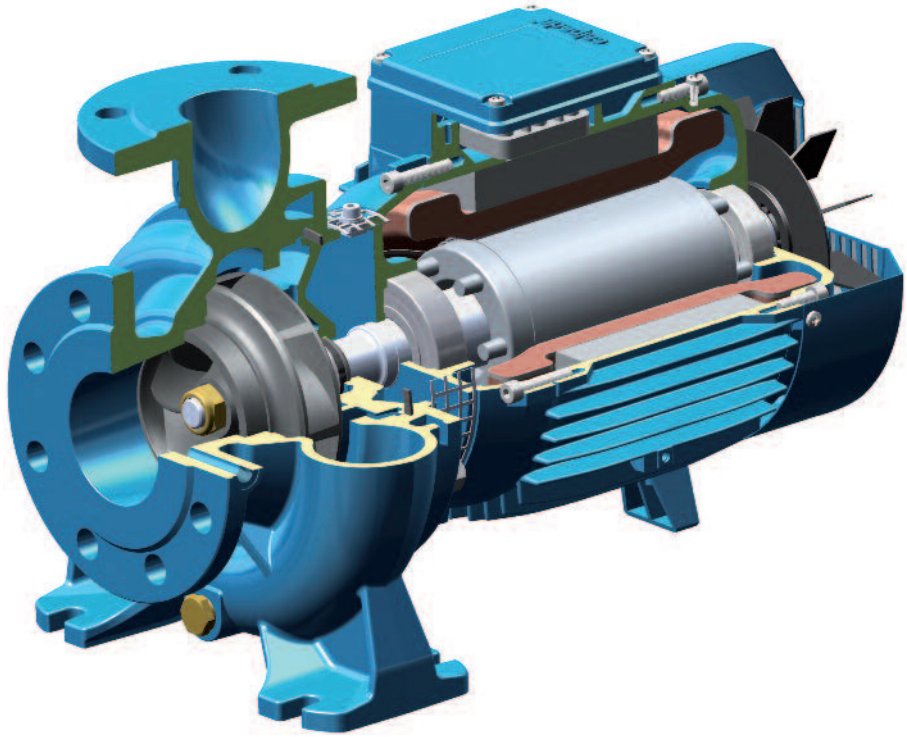


mm						
DN	C	K	D	Holes		g2
				N°	Ø	
32	76	100	140	4	19	18
40	84	110	150	4	19	18
50	99	125	165	4	19	20
65	118	145	185	4	19	20
80	132	160	200	8	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24
150	211	240	285	8	23	26
200	266	295	340	8	23	30

Picture	NMS4	mm																							kg
		DN1	DN2	a	f	h1	h2	h3	h4	m1	m2	n1	n2	n3	z	b	b1	s	s1	l1	l2	w	w1	w2	g1	
4	NMS4 80/400C	125	80	125	974	280	355	542	-	160	120	435	355	279	25	80	70	18	15	268	268	318	520	435	6	-
	NMS4 80/400B	125	80	125	1025	280	355	542	-	160	120	435	355	279	25	80	70	18	15	268	268	318	520	435	6	-
	NMS4 80/400A	125	80	125	1025	280	355	580	-	160	120	435	355	318	25	80	83	18	19	268	268	334	540	455	6	413
	NMS4 100/315A	125	100	140	984	250	315	512	-	160	120	400	315	279	25	80	70	18	15	230	250	312	432	382	6	308
	NMS4 100/400C	125	100	140	1040	280	355	542	-	200	150	500	400	279	25	100	70	22	15	268	280	318	520	435	6	366
	NMS4 100/400B	125	100	140	1040	280	355	580	-	200	150	500	400	318	25	100	83	22	19	268	280	334	540	455	6	419
	NMS4 100/400A	125	100	140	1139	280	355	605	-	200	150	500	400	356	55	100	103	22	19	268	280	384	540	460	8	506
	NMS4 125/315C	150	125	140	989	280	355	542	-	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	331
	NMS4 125/315B	150	125	140	1040	280	355	542	-	200	150	500	400	279	25	100	70	22	15	247	278	318	520	435	6	356
	NMS4 125/315A	150	125	140	1040	280	355	580	-	200	150	500	400	318	25	100	83	22	19	247	278	334	540	455	6	-
	NMS4 125/400C	150	125	140	1139	315	400	640	-	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	-
	NMS4 125/400B	150	125	140	1199	315	400	640	-	200	150	500	400	356	25	100	103	22	19	280	305	409	540	461	8	524
	NMS4 125/400A	150	125	140	1307	315	400	707	-	200	150	500	400	406	25	100	100	22	24	280	305	454	540	461	8	-
	NMS4 150/315D	200	150	160	1009	280	400	542	-	200	150	550	450	279	25	100	70	22	15	260	298	318	520	435	6	349
	NMS4 150/315C	200	150	160	1060	280	400	542	-	200	150	550	450	279	25	100	70	22	15	260	298	318	520	435	6	374
	NMS4 150/315B	200	150	160	1060	280	400	580	-	200	150	550	450	318	25	100	83	22	19	260	298	334	540	455	6	421
	NMS4 150/315A	200	150	160	1159	280	400	605	-	200	150	550	450	356	55	100	103	22	19	260	298	384	540	460	8	-
	NMS4 150/400C	200	150	160	1219	315	450	640	-	200	150	550	450	356	25	100	103	22	19	295	328	409	540	461	8	594
	NMS4 150/400B	200	150	160	1277	315	450	707	-	200	150	550	450	406	25	100	100	22	24	295	328	404	540	461	8	715
	NMS4 150/400A	200	150	160	1280	315	450	747	-	200	150	550	450	457	45	100	100	22	24	295	328	432	625	535	6	-

Pumps with packed gland, dimensions available on request (excluded NMS4).

Features



Cutting edge hydraulics
The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

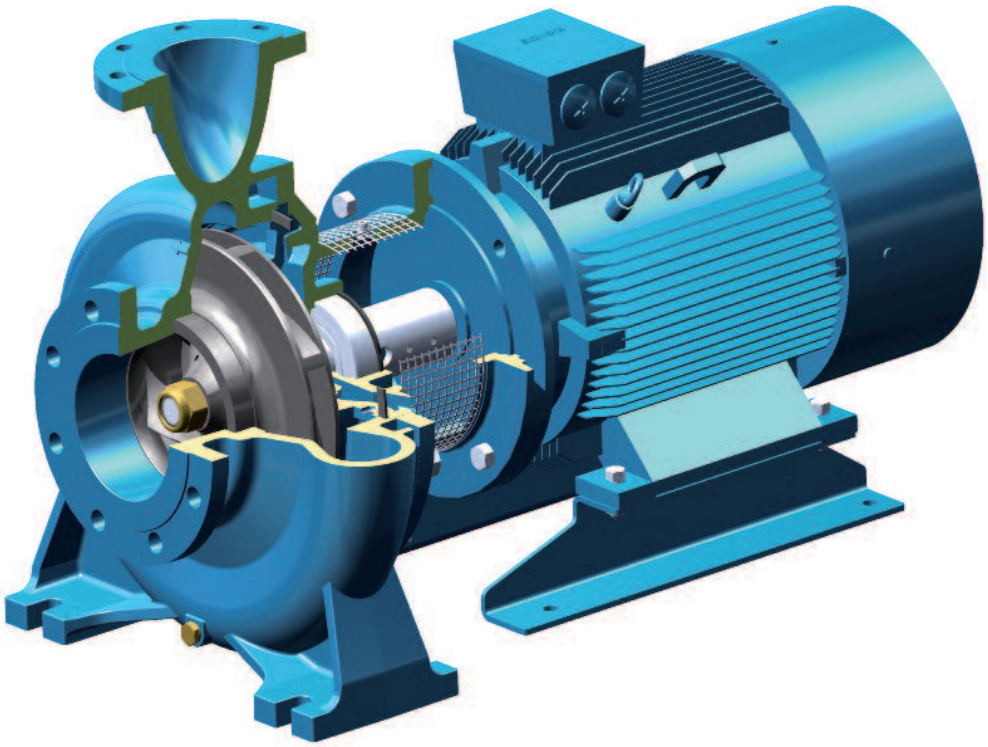
Flexible
The option to choose between cast iron and bronze materias for the hydraulic parts in contact with the pumped liquid allows NM and NM4 series pumps to be selected for use with different types of liquids.

Compact Design
The compact design allows for easy installtion even in confined spaces.

Exclusive design
An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

Reliable
The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

Features



Cutting edge hydraulics
The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

Flexibility
The option to choose between cast iron and bronze materias for the hydraulic parts in contact with the pumped liquid allows NMS and NMS4 series pumps to be selected for use with different types of liquids.

New lantern bracket construction
The lantern brackets incorporate a thrust bearing on the hydraulic side which guarantees the elimination of additional loads on the motor bearings. The flange is sized to be used with standard motors B35.

Exclusive design
An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

Simplified motor maintenance
The presence of the thrust bearing on the hydraulic side makes it easier to remove the motor, facilitating maintenance operations and eliminating the risks of damage to the hydraulic parts.