



Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733.

Connections: Flanges according to PN 10, EN 1092-2.

Counter-flanges (on request)

Sizes	Flanges
from NM 32/... to NM 50/...	Screwed flanges UNI 2247, PN 16
from NM 65/... to NM 100/250	Flanges for welding UNI 2277, UNI 2278, 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.

Materials

Components	NM	B-NM	I-NM
Pump casing	Cast iron	Bronze	Cr Ni Mo steel AISI 316
Lantern bracket	GJL 200 EN 1561	G-Cu Sn 10 UNI 7013	
Impeller	Cast iron	Bronze	
	GJL 200 EN 1561	G-Cu Sn 10 UNI 7013	
	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	Cr Ni steel AISI 303 up to 2.2 kW	Cr Ni Mo steel AISI 316	
	Cr steel AISI 430 from 3 kW to 75 kW		
Mechanical seal	Carbon - Ceramic - NBR		
Counter-flanges	Steel Fe 430B UNI 7070		

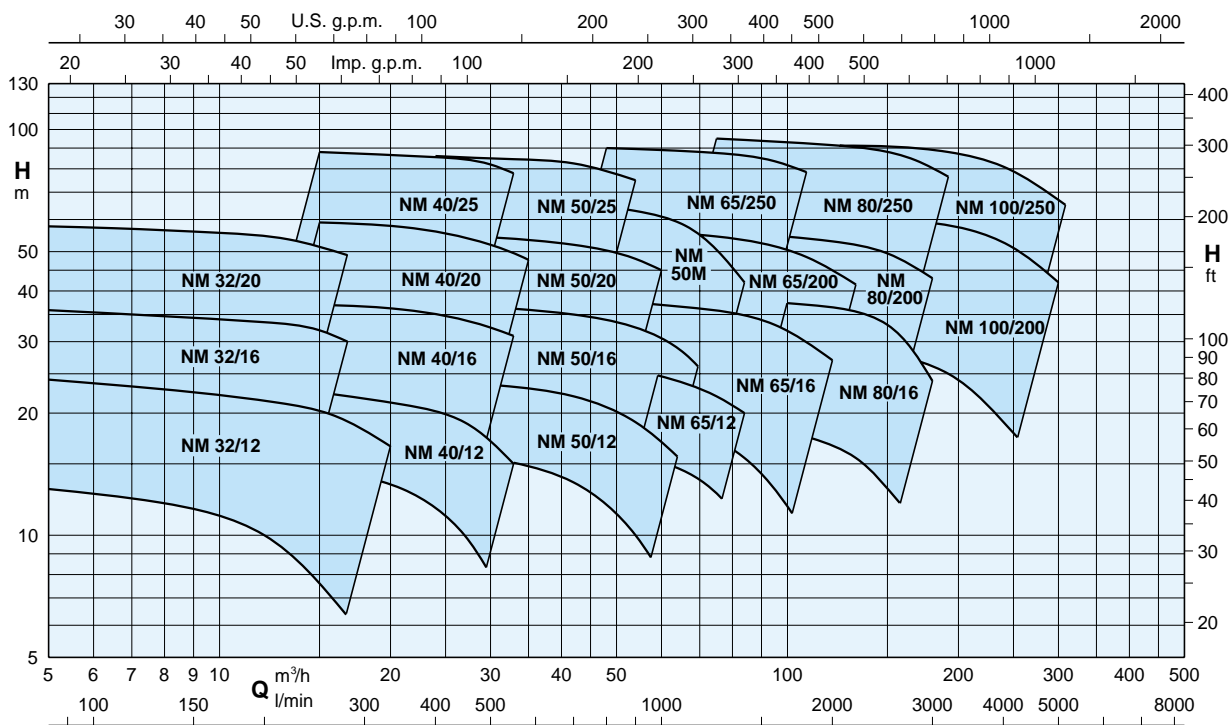
Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).
NM: 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.
 Constructed in accordance with IEC 34.

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. - Motor EEx-d II B T4.
- Higher or lower liquid or ambient temperatures.

Coverage chart n ≈ 2900 rpm



Performance $n \approx 2900$ rpm

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

B-NM I-NM	NM	P ₂		Q m ³ /h l/min	15	16,8	18,9	21	24	27	30	33	37,8	42	48	54	60	66		
		kW	HP		H m															
					250	280	315	350	400	450	500	550	630	700	800	900	1000	1100		
B-NM 40/125FE	NM 40/12FE	1,1	1,5	H m	14,5	14	13,5	13	11,5	10	8*									
B-NM 40/125CE	NM 40/12CE	1,5	2		18	17,5	17	16,5	15,5	14	12	10*								
B-NM 40/125AE	NM 40/12AE	2,2	3		22,5	22	21,5	21	20	19	17,5	15*								
B-NM 40/160CE	NM 40/16CE	2,2	3		26	25,5	25	24	23	21										
B-NM 40/160BE	NM 40/16BE	3	4		31,5	31	30,5	30	29	27,5	25,5									
B-NM 40/160AE	NM 40/16AE	4	5,5		37	36,8	36,3	36	35	34	32,5	31*								
B-NM 40/200CE	NM 40/20CE	4	5,5		44	43	42	41	39	36,5										
B-NM 40/200BE	NM 40/20BE	5,5	7,5		51,5	51	50	49	48	46	43,5	40,5								
B-NM 40/200AE	NM 40/20AE	5,5	7,5		55	54,5	54	53	51	49										
B-NM 40/200AE	NM 40/20AE	7,5	10		59	58,5	58	57,5	56	54	52	49	45	40*						
I-B-NM 4025/CE	NM 40/25CE	9,2	12,5	63,5	63	62,5	61,5	60	58*	55,5*	52*									
I-B-NM 4025/BE	NM 40/25BE	11	15	71,5	71	70,5	69,5	68	67*	65*	62*									
I-B-NM 4025/AE	NM 40/25AE	15	20	88	87,5	87	86,5	85,5	84*	82*	78*									

B-NM I-NM	NM	P ₂		Q m ³ /h l/min	24	27	30	33	37,8	42	48	54	60	66	75	84	96	108		
		kW	HP		H m															
					400	450	500	550	630	700	800	900	1000	1100	1250	1400	1600	1800		
B-NM 50/125FE	NM 50/12FE	2,2	3	H m			15,5	15	14,5	13,5	12	10*	8*							
B-NM 50/125DE	NM 50/12DE	3	4				18,5	18	17,5	16,5	15,5	13,5*	11,5*							
B-NM 50/125AE	NM 50/12AE	4	5,5				23,5	23	22,5	22	20,5	19*	17,5*	15*						
B-NM 50/160BE	NM 50/16BE	5,5	7,5				31	30,5	30	29	27,5	25,5	23,5*	21*						
B-NM 50/160AE	NM 50/16AE	7,5	10					36,5	36	35,5	35	34	32,5	30,5*	28*	23*				
B-NM 50/200BE	NM 50/20BE	9,2	12,5			48	47,5	47	46,5	45,5	44,5	43*	41*	37*						
B-NM 50/200AE	NM 50/20AE	11	15			55	55	54,5	54	53	52	50,5*	48*	45*						
I-B-NM 5025/CE	NM 50/25CE	11	15			60,5	59,5	58,5	57,5	55	52	47*	40*							
I-B-NM 5025/BE	NM 50/25BE	15	20			71	70,5	70	69,5	68	66,5	64*	60*							
I-B-NM 5025/AE	NM 50/25AE	18,5	25			86	85,5	85	84,5	84	82,5	80*	75*							
I-B-NM 5025/65EE	NM 50M/EE	11	15			48	47,5	47	46	45	43	40	37	32	24					
I-B-NM 5025/65DE	NM 50M/DE	15	20				57	56,5	56	55	53	51	48	44,5	37	25*				
I-B-NM 5025/65CE	NM 50M/CE	18,5	25				68	67,5	67	66,5	65	63	61	58	51,5	42*				

B-NM I-NM	NM	P ₂		Q m ³ /h l/min	37,8	42	48	54	60	66	75	84	96	108	120	132	150	168		
		kW	HP		H m															
					630	700	800	900	1000	1100	1250	1400	1600	1800	2000	2200	2500	2800		
B-NM 65/125CE	NM 65/12CE	4	5,5	H m	18	17,5	17	16,5	16	15	13,5*									
B-NM 65/125AE	NM 65/12AE	5,5	7,5		22	21,5	21	20,5	20	19,5	18	15,5*								
B-NM 65/160EE	NM 65/16EE	5,5	7,5				20	19,5	19	18,5	17	15,5	13*	10*						
B-NM 65/160DE	NM 65/16DE	7,5	10				26	25,5	25	24,5	23,5	22	20*	16,5*	13*					
B-NM 65/160CE	NM 65/16CE	9,2	12,5					30	29,5	29	28,5	28	26,5	24,5*	21,5*	18*				
B-NM 65/160BE	NM 65/16BE	11	15					33,5	33	32,5	32	31	30	28*	25,5*	22*				
B-NM 65/160AE	NM 65/16AE	15	20					38	37,5	37	36,5	36	35	33*	30,5*	27*				
B-NM 65/200CE	NM 65/20CE	15	20					44	43,5	43	42,5	41	39,5	37,5*	35*	31*	27*			
B-NM 65/200BE	NM 65/20BE	18,5	25					50	49,5	49	48,5	47,5	46,5	44,5*	42*	39*	35*			
B-NM 65/200AE	NM 65/200AE	22	30					56,5	56	55,5	55	54,5	53,5	51*	48,5*	45,5*	41,5*			
B-NM 65/250CE	NM 65/250CE	22	30				64	63,5	63	61,5*	60*	57,5*	54,5*	50*						
I-B-NM 65/250BE	NM 65/250BE	30	40				79,5	79	78,5	78*	77*	75*	72*	67*						
I-B-NM 65/250AE	NM 65/250AE	37	50				90	89,5	89	88,5*	87,5*	86*	83,5*	78,5						

Performance $n \approx 2900$ rpm

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

NM Standard construction.

B-NM Bronze construction.

I-NM Stainless steel 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 ISO 9906, annex A.

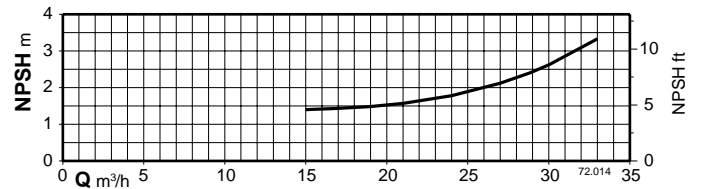
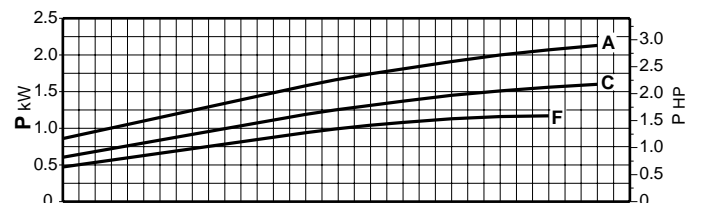
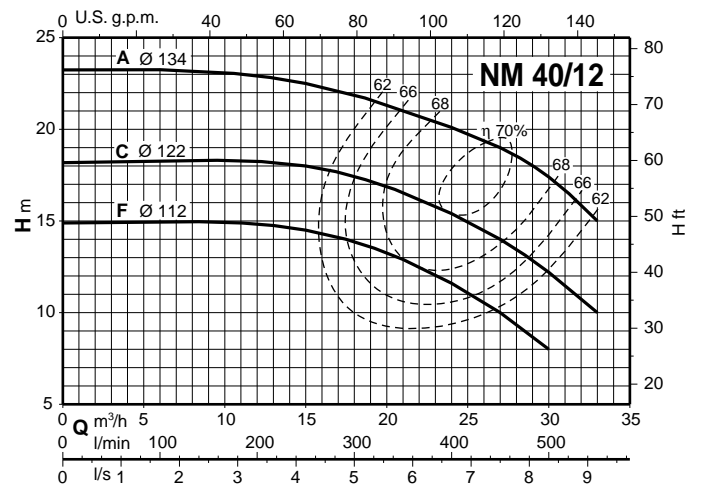
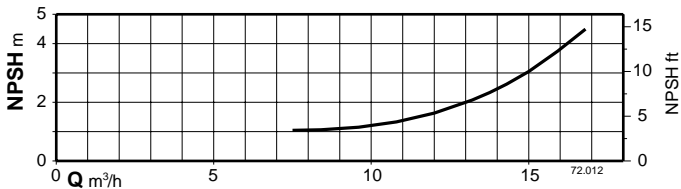
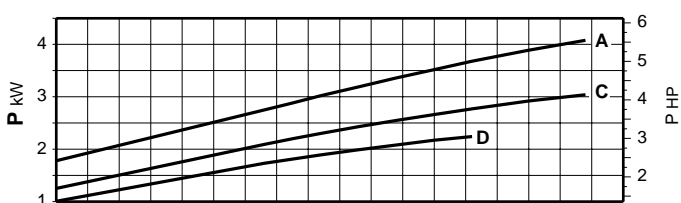
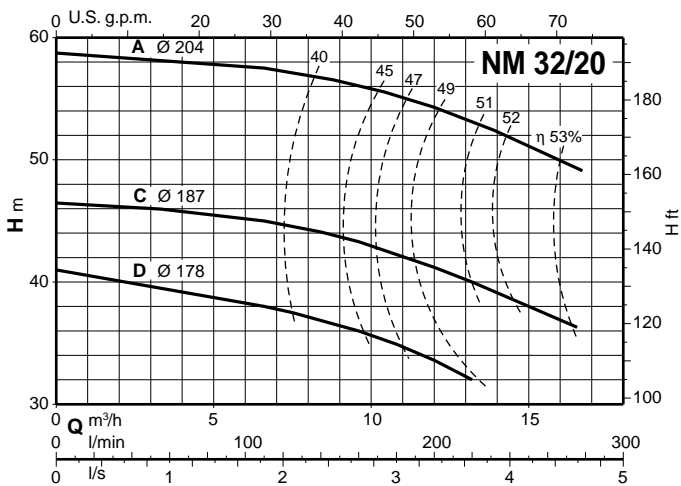
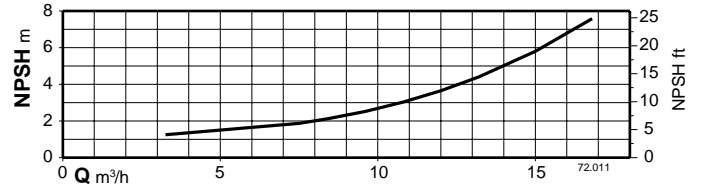
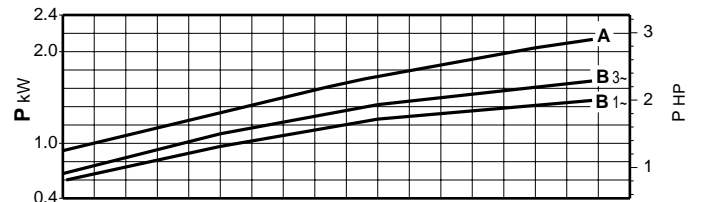
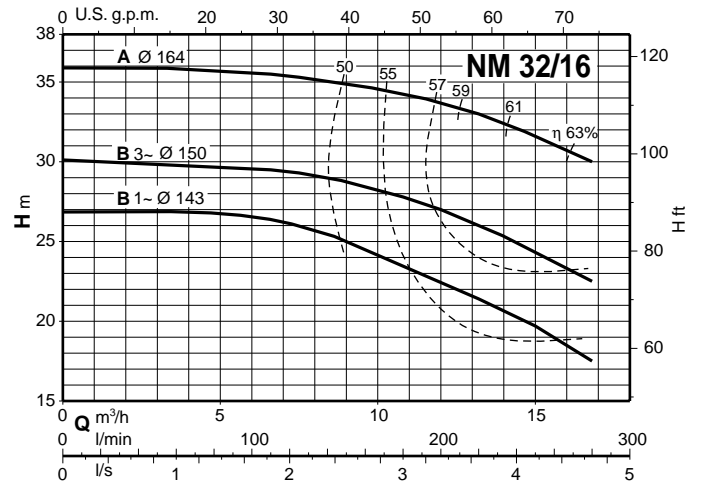
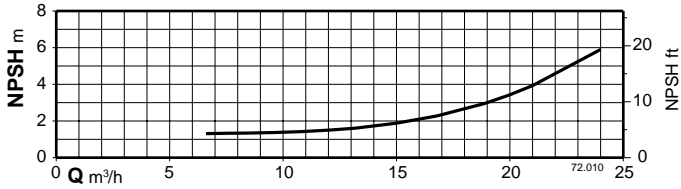
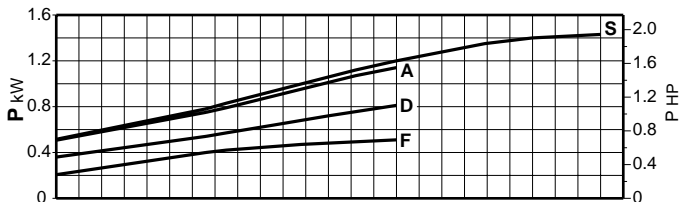
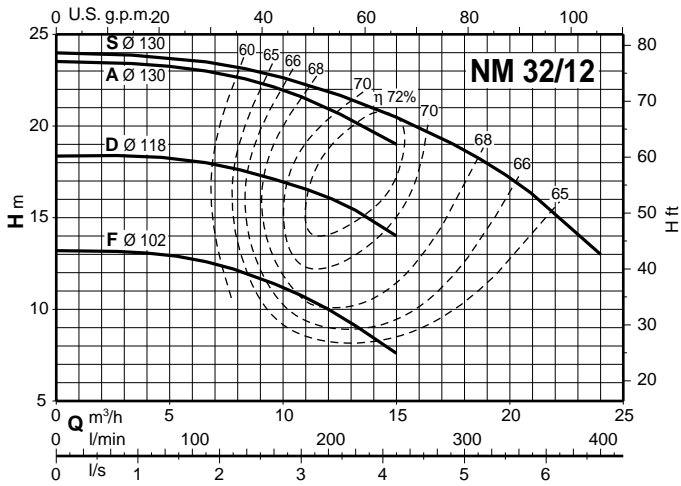
Rated currents

P ₂		230V Δ/ 400V Y			IA/IN
kW	HP	IN A	IN A	IN A	
0,55	0,75	3	1,7		4,7
0,75	1	4	2,3		5,5
1,1	1,5	5	2,9		5,4
1,5	2	7,5	4,3		5,2
2,2	3	9,15	5,3		4,7
3	4	11,5	6,6		7,8
4	5,5		9,6	5,5	5,9
5,5	7,5		12	7	6
7,5	10		16	9,2	9,3
9,2	12,5		20	11,5	9,5
11	15		23	13,5	10,5
15	20		30	17,5	13
18,5	25		37	21,5	14
22	30		42,5	24,5	10
30	40		54,5	31,5	11
37	50		68	39,5	8,5
45	60		85	49	8
55	75		105	60	7,2
75	100		140	81	6

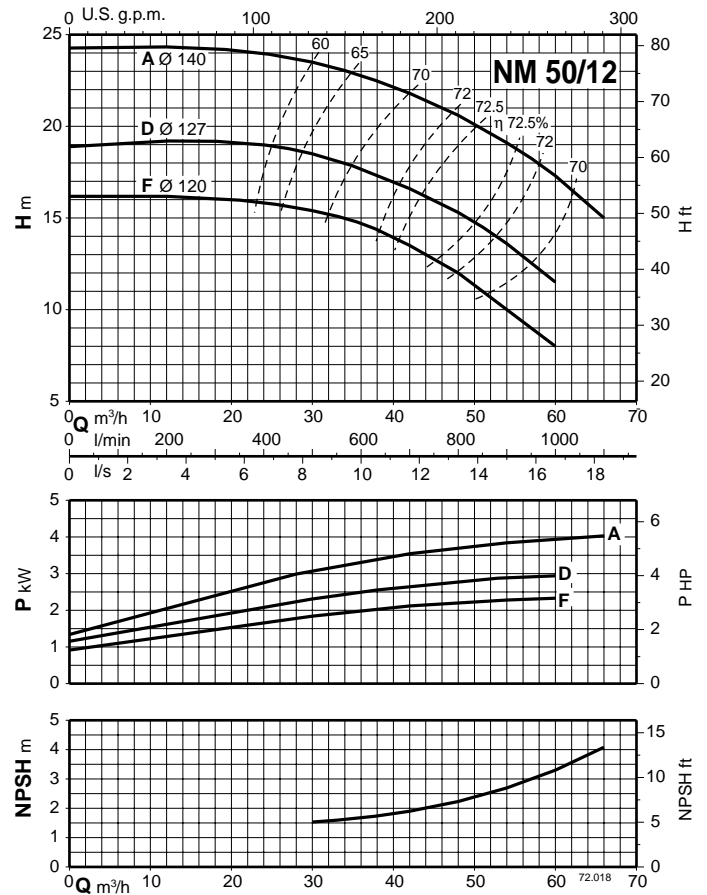
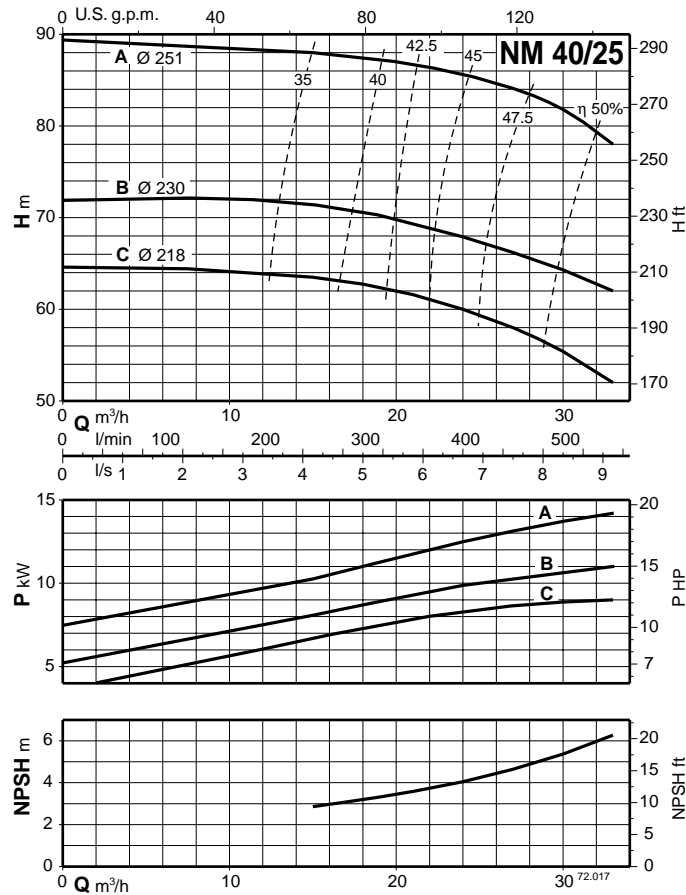
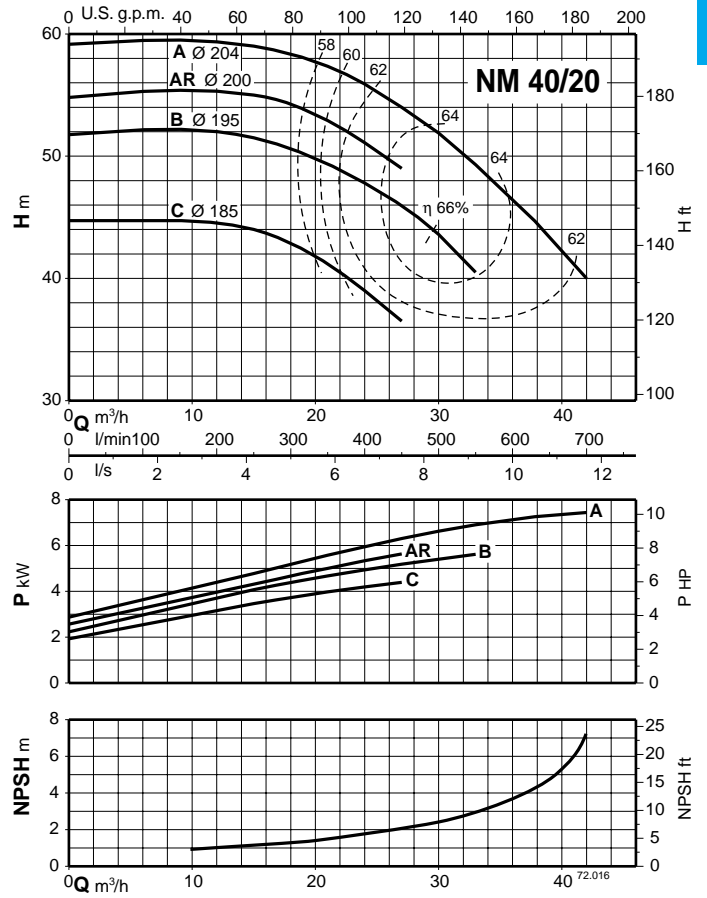
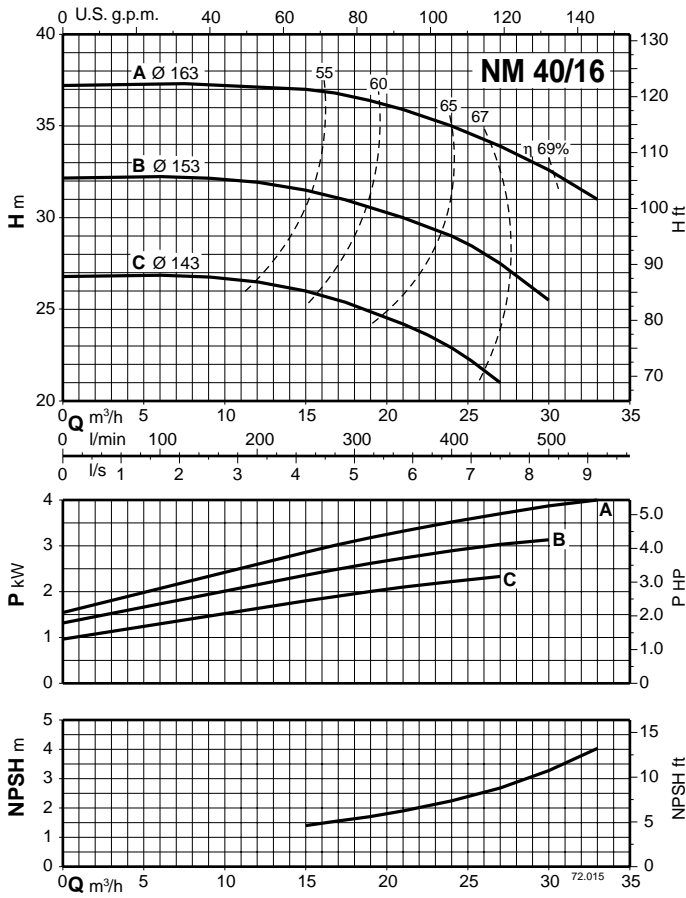
P₂ Rated motor power output.

IA/IN D.O.L. starting current / Nominal current

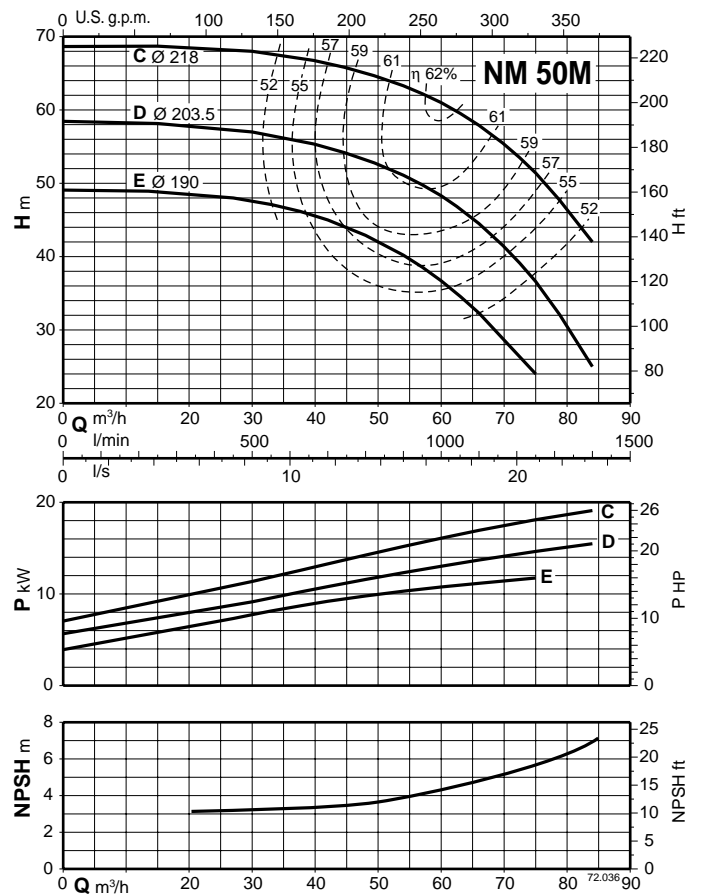
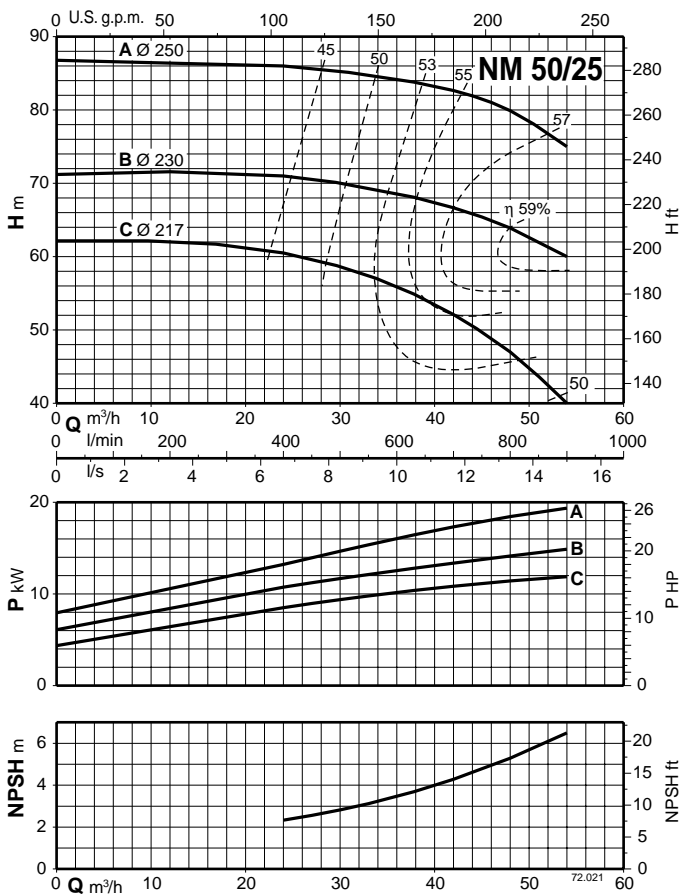
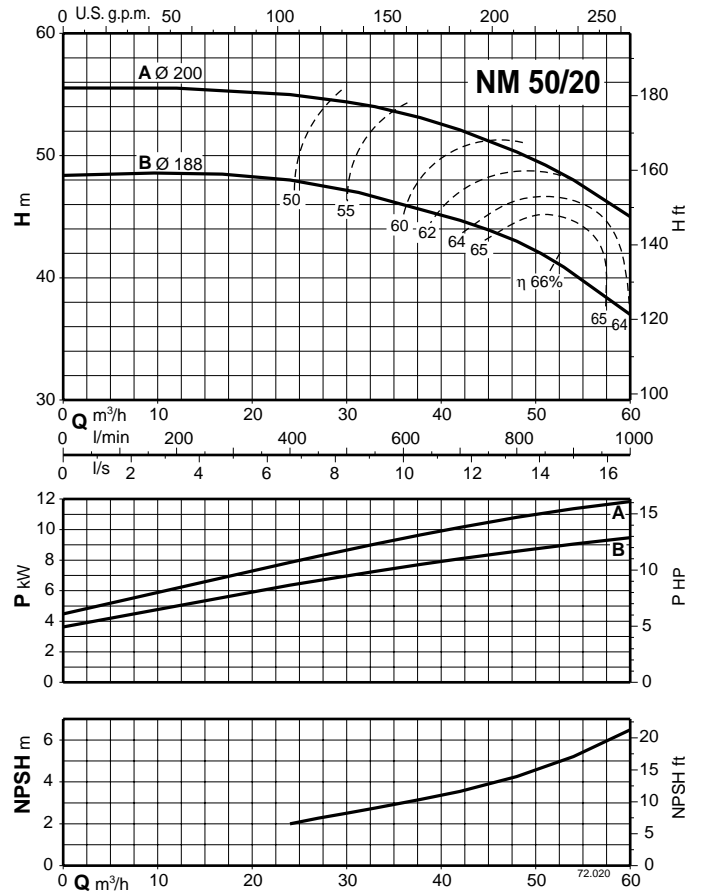
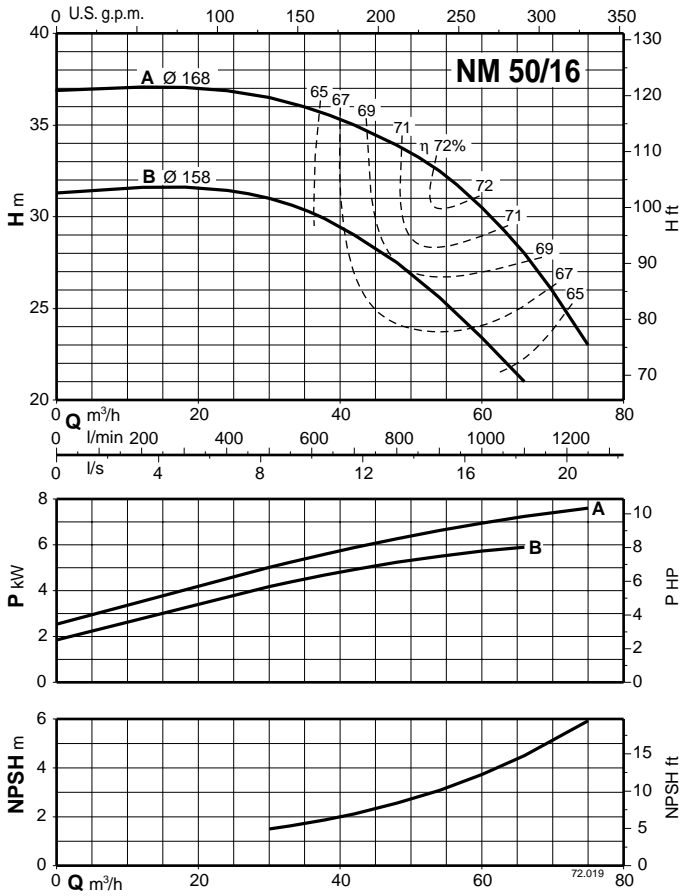
Characteristic curves $n \approx 2900$ rpm



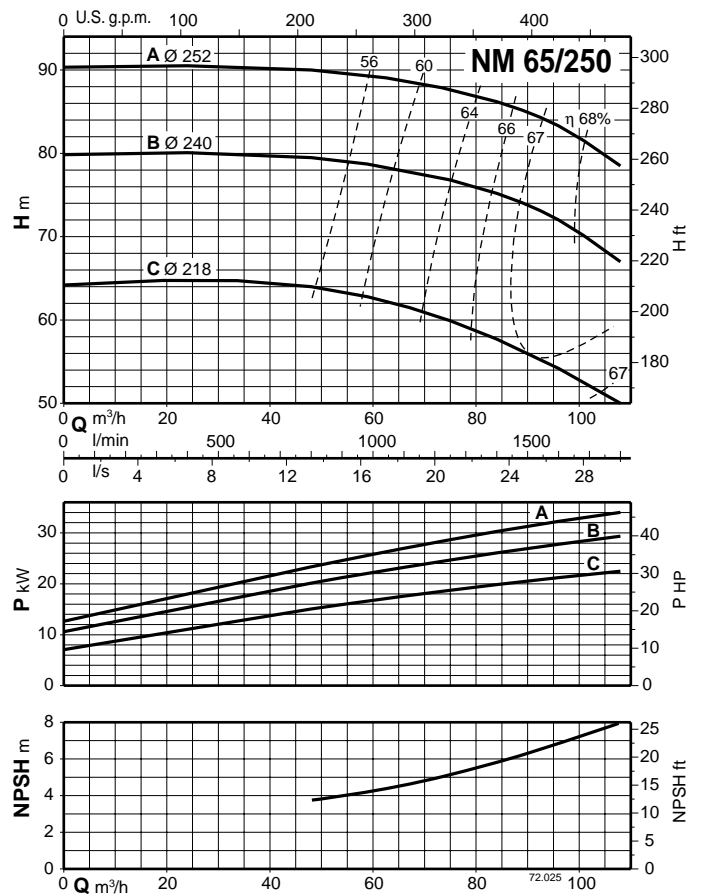
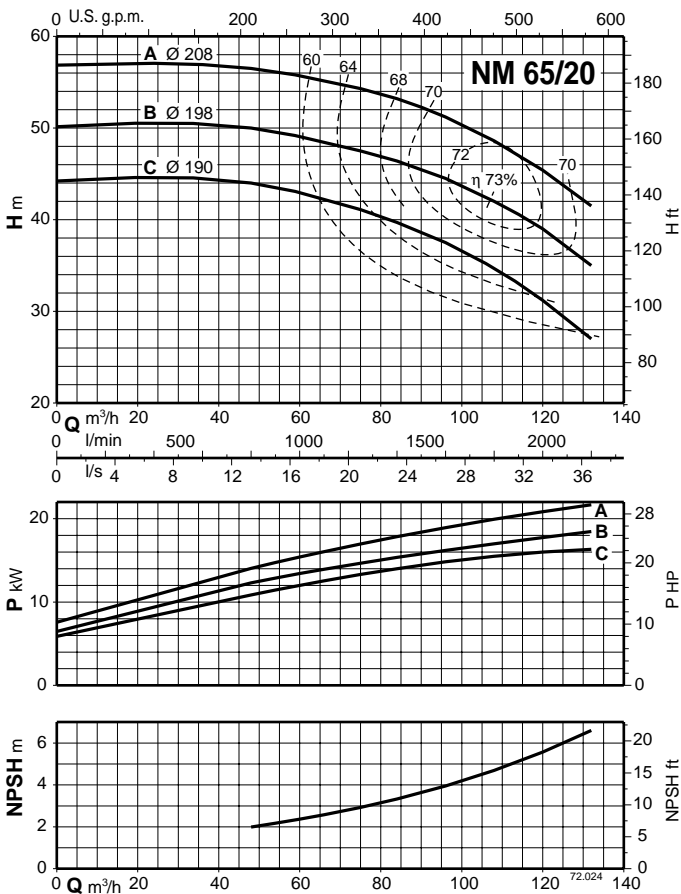
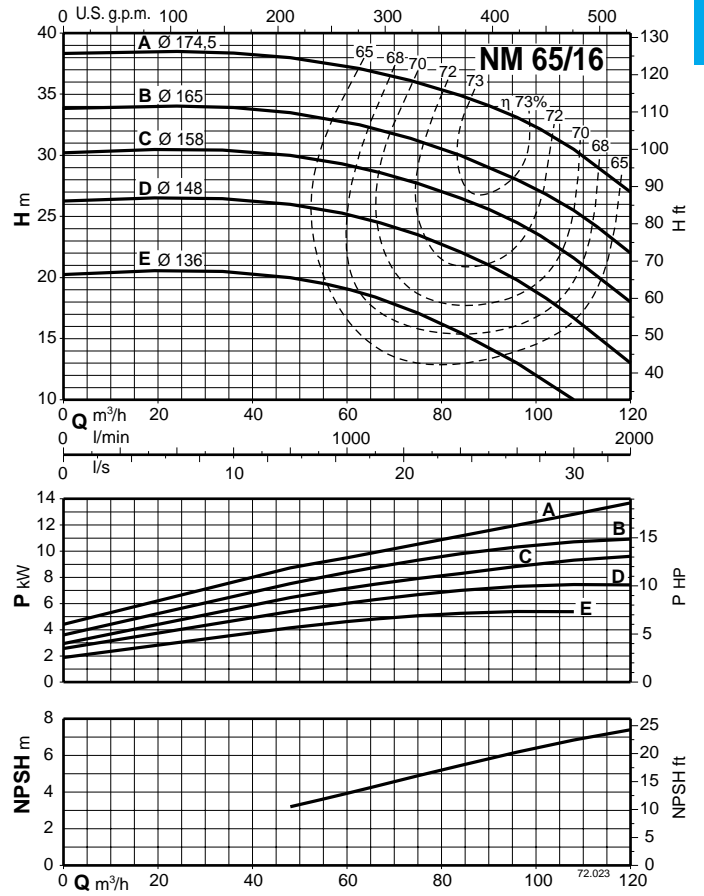
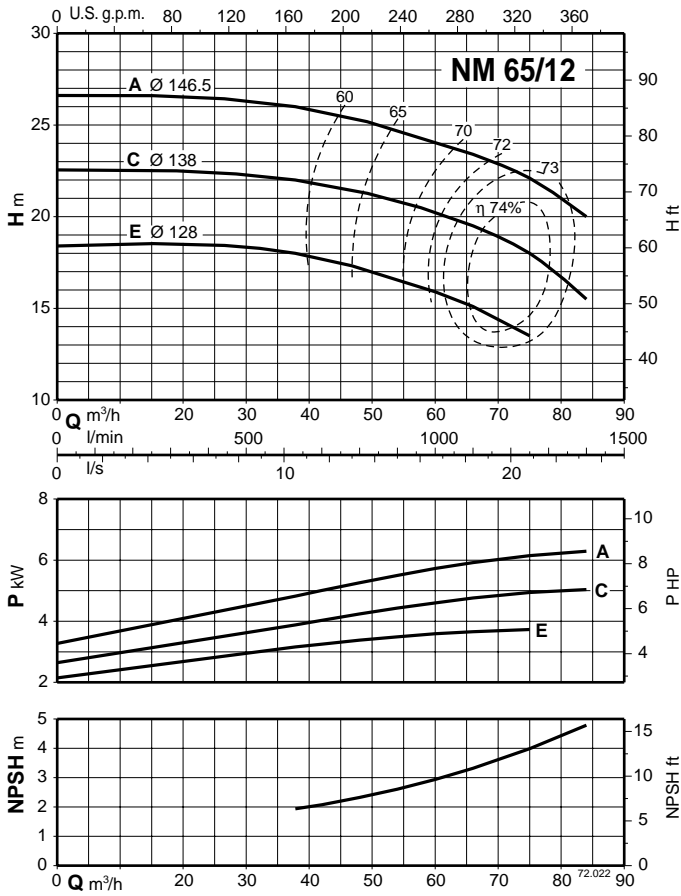
Characteristic curves $n \approx 2900$ rpm



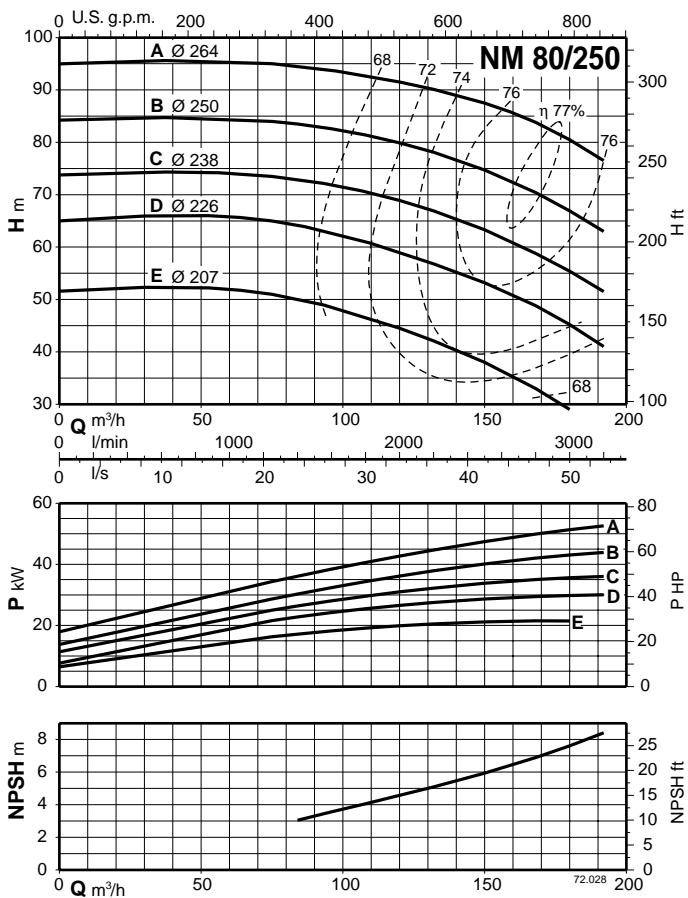
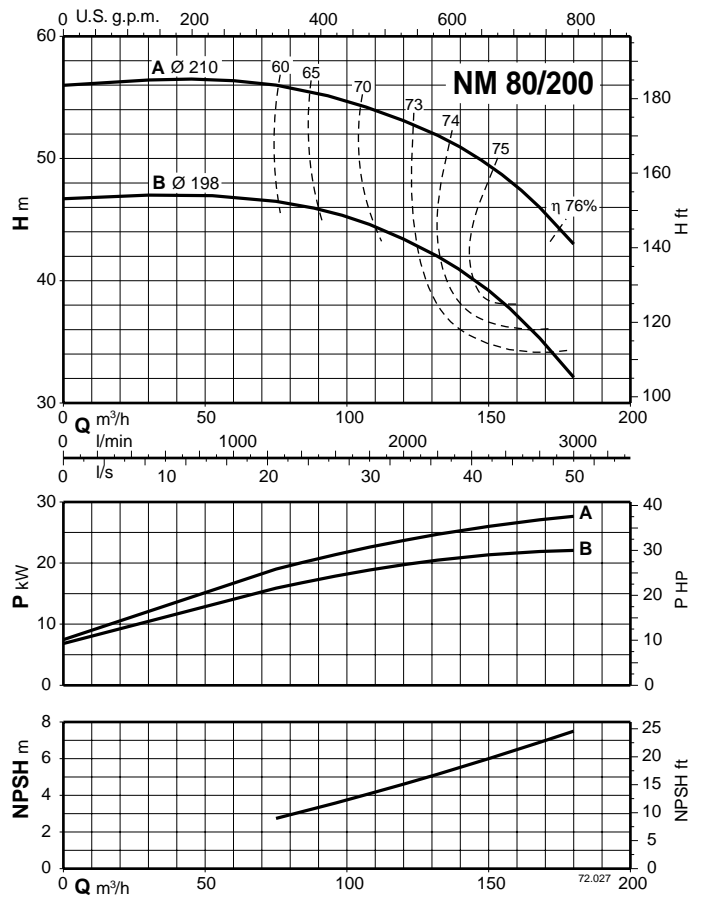
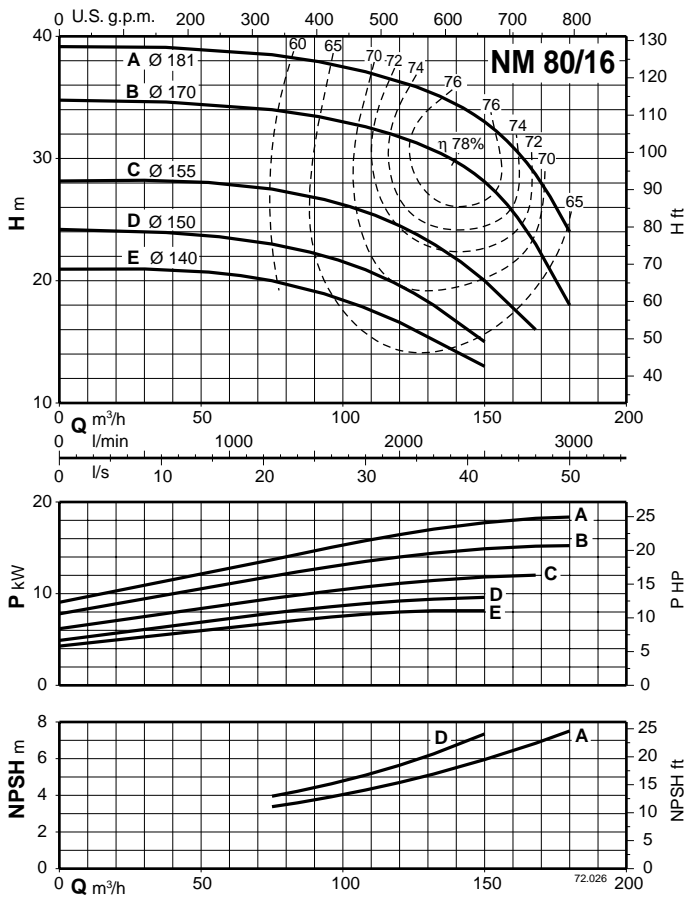
Characteristic curves $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm

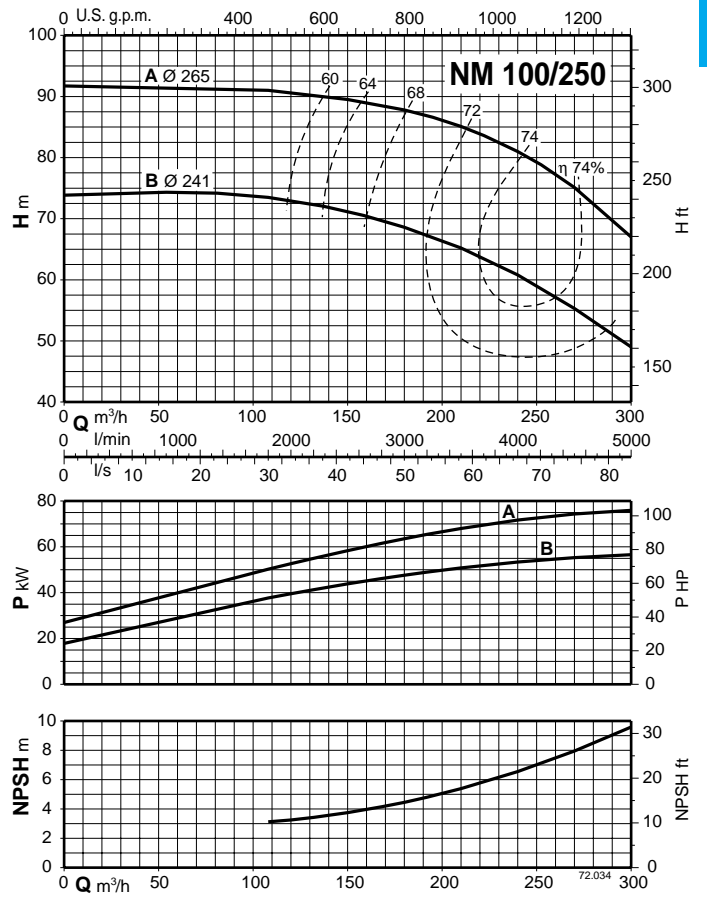
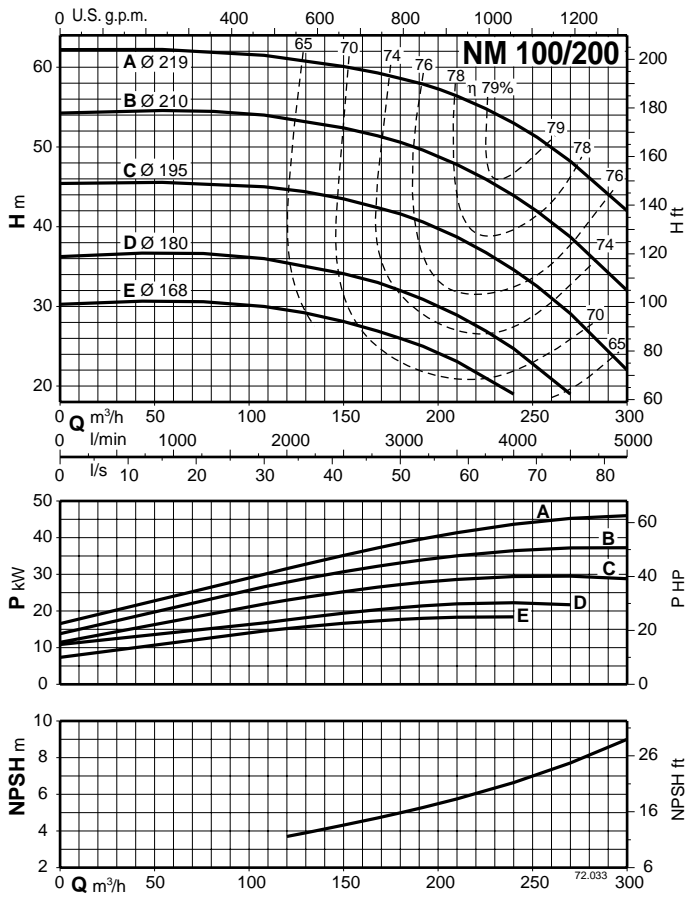


Characteristic curves $n \approx 2900$ rpm

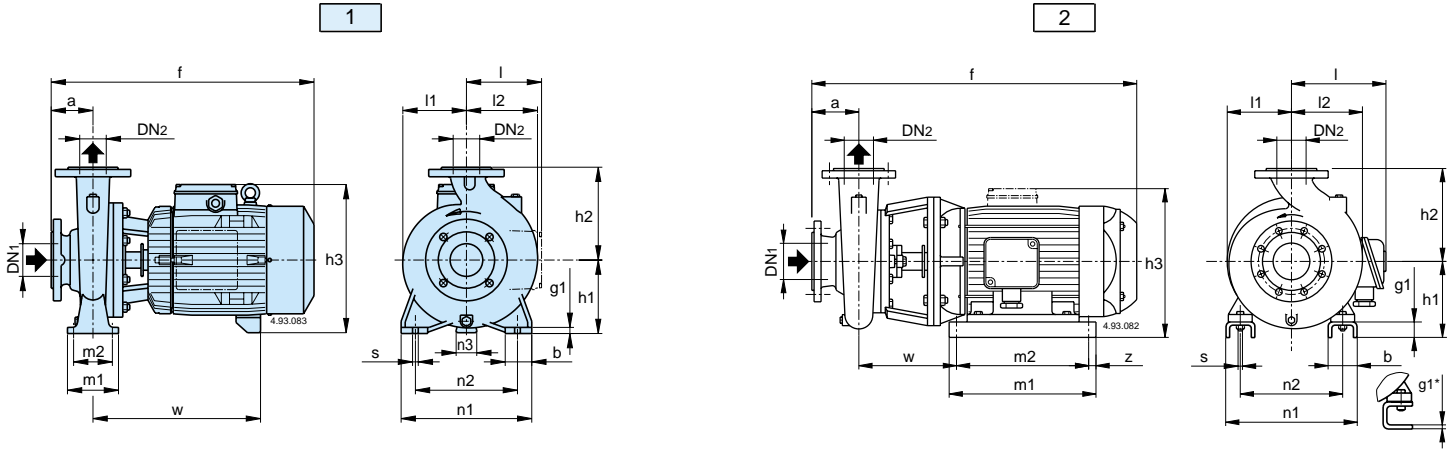


Characteristic curves $n \approx 2900$ rpm

2

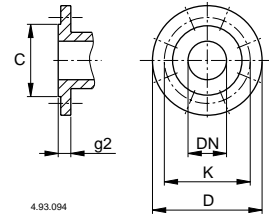


Dimensions and weights



Picture	NM	mm																			kg		
		DN1	DN2	a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l	l1	l2	w		g1	
1	NM 32/12SE-AE-DE-FE	50	32	80	405	112	140	222	100	70	190	140	37	-	50	14	-	93	97	245	12	27-25-24-24	
	NM 32/16AE-BE	50	32	80	410	132	160	242	100	70	240	190	47	-	50	14	-	120	120	250	12	36-34	
	NM 32/20DE	50	32	80	410	160	180	270	100	70	240	190	62	-	50	14	-	140	140	250	39	12	49
	NM 32/20CE				288			60					295							52			
	NM 32/20AE				288			60					295							52			
	NM 40/12AE-CE-FE	65	40	80	410	112	140	222	100	70	210	160	37	-	50	14	-	100	113	250	12	31-29-27	
	NM 40/16CE	65	40	80	410	132	160	242	100	70	240	190	47	-	50	14	-	119	119	250	36	12	45
	NM 40/16BE				260			45					295							49			
	NM 40/16AE				260			45					295							49			
	NM 40/20CE	65	40	100	490	160	180	288	100	70	265	212	60	-	50	14	-	140	140	295	55	12	72-65-65
	NM 40/20AE-ARE-BE				525			49					320							49			
	NM 40/25BE-CE	65	40	100	640	180	225	365	125	95	320	250	50	-	65	14	-	175	175	410	116-110	15	133
	NM 40/25AE				690			125					320							50	460		
	NM 50/12FE	65	50	100	430	132	160	242	100	70	240	190	47	-	50	14	-	121	137	250	38	12	47
	NM 50/12DE				260			45					295							51			
NM 50/12AE	260				45			295					51										
NM 50/16AE-BE	65	50	100	525	160	180	-	100	70	265	212	49	-	50	14	170	127	141	320	14	70-64		
NM 50/20AE-BE	65	50	100	640	160	200	345	100	70	265	212	40	-	50	14	-	140	153	410	15	106-100		
NM 50/25CE	65	50	100	645	180	225	365	125	95	320	250	50	-	65	14	-	175	175	415	126	15	147	
NM 50/25BE				695			132					465											
NM 50/25AE				720			147					465											
2	NM 50M/EE	65	50	100	700	192	225	377	298	258	262	216	-	20	69	12	-	175	175	239	135	6*	165
NM 50M/DE	750				151																		
NM 50M/CE	775				165																		
1	NM 65/12EE	80	65	100	490	160	180	288	125	95	280	212	60	-	65	14	-	134	156	295	55	15	73-67
	NM 65/12AE-CE				525			49					320										
	NM 65/16DE-EE	80	65	100	525	160	200	-	125	95	280	212	49	-	65	14	-	150	172	320	75-70	15	106-100
	NM 65/16BE-CE				345			40					460										
	NM 65/16AE				345			40					460										
NM 65/20CE	80	65	100	690	180	225	365	125	95	320	250	50	-	65	14	-	155	175	460	127	15	139	
NM 65/20BE				715			139																
2	NM 65/200AE	80	65	100	825	202	225	408	400	360	344	254	-	20	90	14	-	155	175	245	42	164	
2	NM 65/250BE-CE	80	65	100	825	202	250	408	400	360	344	254	-	20	90	14	-	180	190	245	195-174	42	299
	NM 65/250AE				945			25												290	263		
1	NM 80/16EE	100	80	125	545	180	225	-	125	95	320	250	60	-	65	14	-	165	193	320	83	15	144
	NM 80/16CE-DE				670			50					465										
	NM 80/16BE				720			50					465										
	NM 80/16AE				745			50					465										
2	NM 80/200AE-BE	100	80	125	850	202	250	408	400	360	344	254	-	20	90	14	-	170	194	245	42	194-173	
	NM 80/250DE-EE	100	80	125	850	202	280	408	400	360	344	254	-	20	90	14	-	191	210	245	203-182	42	377-361-331
	NM 80/250AE-BE-CE				970			25												290	263		
	NM 100/200EE				800			20												69	12		
	NM 100/200CE-DE	125	100	125	850	202	280	408	400	360	344	254	-	20	90	14	-	180	212	245	195-174	42	355-323
	NM 100/200AE-BE				970			25												290	263		
2	NM 100/250BE	125	100	140	980	245	280	-	475	425	424	318	-	25	106	18	-	290	205	263	45	386	498
	NM 100/250AE				1050			275												480	430		

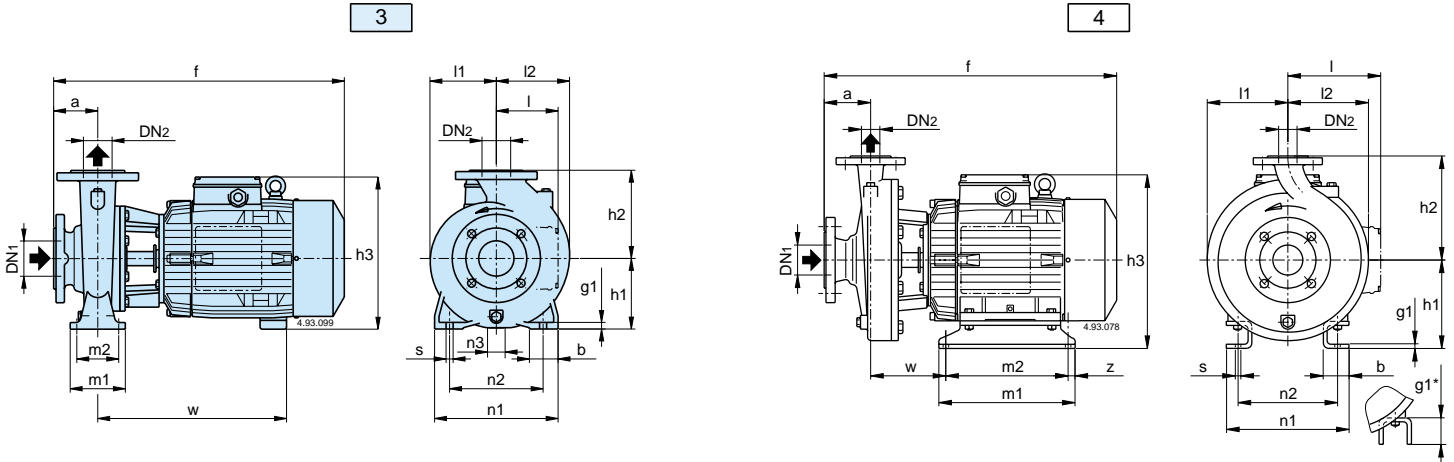
Flanges EN 1092-2



mm					
DN	C	K	D	Holes N°	g2 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	8	19 20
80	132	160	200	4	19 22
100	156	180	220	8	19 24
125	184	210	250	8	19 24

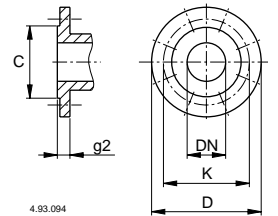
Dimensions and weights

2



Picture	B- NM I- NM	mm																			kg		
		DN1	DN2	a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l	l1	l2	w	g1	B-NM	I-NM
3	B-NM 32/125SE-AE B-NM 32/125DE-FE	50	32	80	450	112	140	222	100	70	190	140	37	-	50	14	-	93	97	290	12	33-32 31-29	
	B-NM 32/160BE B-NM 32/160AE	50	32	80	455 475	132	160	242	100	70	240	190	47	-	50	14	-	120	120	295 315	12	44 45	
	I- B-NM 32/200DE I- B-NM 32/200CE I- B-NM 32/200AE	50	32	80	475 525 525	160	180	270 288 288	100	70	240	190	45 60 60	-	50	14	-	140	140	315 350 350	12	49 57 61	45 55 59
	B-NM 40/125FE B-NM 40/125AE-CE	65	40	80	455 475	112	140	222	100	70	210	160	37	-	50	14	-	100	113	295 315	12	33 37-35	
	B-NM 40/160CE B-NM 40/160BE B-NM 40/160AE	65	40	80	475 525 525	132	160	242 260 260	100	70	240	190	47 45 45	-	50	14	-	119	119	315 350 350	12	45 53 57	
	B-NM 40/200CE B-NM 40/200AE-BE	65	40	100	545 580	160	180	288 --	100	70	265	212	60 49	-	50	14	-	170	140	350 375	12	63 80-74	
4	I- B-NM 4025/BE-CE I- B-NM 4025/AE	65	40	100	635 685	192	225	377	298	258	262	216	-	20	69	12	-	175	175	174	6	130-124 147	127-120 144
	B-NM 50/125FE B-NM 50/125DE B-NM 50/125AE	65	50	100	495 545 545	132	160	242 260 260	100	70	240	190	47 45 45	-	50	14	-	121	137	315 350 350	12	49 58 63	
4	B-NM 50/160AE-BE	65	50	100	580	160	180	-	100	70	265	212	49	-	50	14	170	127	141	375	14	80-74	
	B-NM 50/200AE-BE	65	50	100	695	192	200	377	298	258	262	216	-	20	69	12	-	140	153	234	6	128-121	
	I- B-NM 5025/CE I- B-NM 5025/BE I- B-NM 5025/AE	65	50	100	635 685 710	192	225	377	298	258	262	216	-	20	69	12	-	175	175	174	6	135 144 155	130 138 149
	I- B-NM 5025/65EE I- B-NM 5025/65DE I- B-NM 5025/65CE	65	50	100	635 685 710	192	225	377	298	258	262	216	-	20	69	12	-	175	175	174	6	135 144 155	130 138 149
3	B-NM 65/125AE-CE	80	65	100	580	160	180	-	125	95	280	212	49	-	65	14	170	134	156	375	15	93-72	
	B-NM 65/160DE-EE B-NM 65/160CE	80	65	100	575 660	160	200	- 345	125	95	280	212	49 40	-	65	14	170 -	150	172	375 430	15	83-78 108	
4	B-NM 65/160BE B-NM 65/160AE	80	65	100	695 745	192	200	377	298	258	262	216	-	20	69	12	-	150	172	234	6	149 166	
	B-NM 65/200CE B-NM 65/200BE B-NM 65/200AE	80	65	100	750 775 825	192 225 202	377 377 408	298 258 400	262 216 360	216 216 344	254	-	20	69 90	12 14	-	155	175	239 239 245	6 6 42*	157 177 179		
	B-NM 65/250BE-CE I- B-NM 65/250BE I- B-NM 65/250AE	80	65	100	825 840 945	202 222 245	408 - 475	400 387 425	360 347 425	344 369 424	254 279 318	-	20 20 25	90 90 106	14 14 18	- 270 290	175	190	245 258 263	42* 42* 45*	210-189 277 343		
	B-NM 80/160EE B-NM 80/160DE	100	80	125	605 685	180	225	- 365	125	95	320	250	60 50	-	65	14	170 -	165	193	375 430	15	108 116	
4	B-NM 80/160CE B-NM 80/160BE B-NM 80/160AE	100	80	125	725 775 800	192	225	377	298	258	262	216	-	20	69	12	-	165	193	239	6	155 163 166	

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	8	19	20
80	132	160	200	4	19	22
100	156	180	220	8	19	24
125	184	210	250	8	19	24