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NM, NMD 60 Hz

Close Coupled Centrifugal Pumps with threaded ports

calpeda®



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).

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, 60 Hz (n = 3450 rpm).
NM, NMD: three-phase 220/380 V, 380/660 V.
NMM, NMDM: single-phase 220 V.
With thermal protector up to 1.1 kW.
Insulation class F.
Protection IP 54.
Constructed in accordance with IEC 60034.

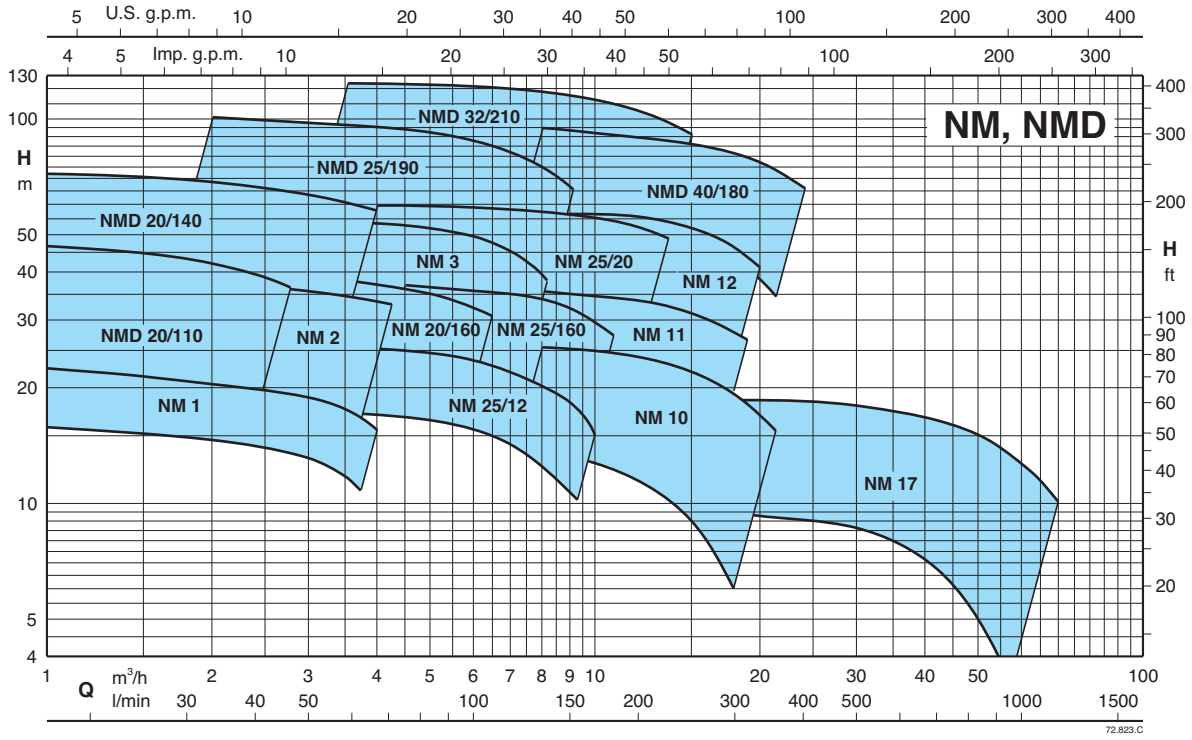
Special features on request

- Other voltages.
- Protection IP 55.
- Special mechanical seal
- Higher or lower liquid or ambient temperatures.

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	

Coverage chart n = 3450 rpm



NM, NMD 60 Hz

Close Coupled Centrifugal Pumps with threaded ports

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Performance n ≈ 3450 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-60●	0,37	0,5		22	21,8	21,5	21	20,3	19,4	18,1	16,3	14,2					
NM 2/BE-60●	0,55	0,75		27	26,5	26	25,5	25	24	23	22	20					
NM 2/SE-60●	0,55	0,75		32	31,5	31	30,5	30	28	25,5	23	19,5					
NM 2/AE-60●	0,75	1	H	36	35,5	35	34,5	34	32,5	31,5	30	28,5	27				
NMM 3/CE-60	1,1	1,5	m		39,5	39	39	38	37	36,5	35	33,5					
NM 3/CE-60	1,1	1,5			40	39,5	39,5	39	38	37	36	34	32*	29*			
NMM 3/BE-60	1,5	2			45,5	45	45	44,5	44	43	42	41	39*	36*	32*		
NM 3/BE-60	1,5	2			47	46,5	46	45,5	45	44,5	43,5	42	40*	37*	33,5*	28*	
NM 3/AE-60	2,2	3			55,5	55	54,5	54	53,5	53	52,5	52	51*	49*	46,5*	42*	35*

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 20/110BE-60●	NMD 20/110BE-60●	0,45	0,6		36,5	35,5	34	32	28,5	24	19*							
B-NMD 20/110ZE-60●	NMD 20/110ZE-60●	0,55	0,75		41	40	38	36	32,5	28	23	17*						
B-NMD 20/110AE-60●	NMD 20/110AE-60●	0,75	1		47	46,5	45	42,5	39	34	29	23,5*						
B-NMDM 20/140BE-60	NMDM 20/140BE-60	1,1	1,5	H	59	58,5	58	57	55	52	47,5							
B-NMD 20/140BE-60	NMD 20/140BE-60	1,1	1,5	m	60	59,5	59	58	56	53	49	45						
B-NMDM 20/140AE-60	NMDM 20/140AE-60	1,5	2		66,5	65,5	65	64	62,5	60	57,5	55	51	47,5				
B-NMD 20/140AE-60	NMD 20/140AE-60	1,5	2		77	76,5	76	75	73,5	71	69	66	63	59	54			
B-NM 20/160BE-60●	NM 20/160BE-60●	0,75	1					33	33	32	31	30	28,5	26,5	25	23*		
B-NM 20/160AE-60●	NM 20/160AE-60●	1,1	1,5					39	38,5	38	37	36	35	34	33	31*		

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 25/12BE-60●	NM 25/12BE-60●	0,55	0,75		20,8	20,8	20,7	20,3	19,6	19,2	18,4	17,6	16,1	14,3	12	9,3		
B-NM 25/12AE-60●	NM 25/12AE-60●	0,75	1		24,5	24,6	24,6	24,3	23,6	23,1	22,4	21,6	20,4	19	17	14,5		
B-NM 25/160BE-60●	NM 25/160BE-60●	1,1	1,5			32	31,5	31	30	29	28	26,5	23,5*					
B-NM 25/160AE-60●	NM 25/160AE-60●	1,5	2			38	37,5	37	36	35,5	34,5	33	31	27,5	22,5*			
B-NM 25/200BE-60	NM 25/20BE-60	2,2	3	H		46	45,5	45	44	43,5	42,5	41,5	39	36,5	33*			
B-NM 25/200AE-60	NM 25/20AE-60	3	4	m		53	52,5	52	51,5	48,5	50	49	47,5	45,5	43	40*		
B-NM 25/200SE-60	NM 25/20SE-60	4	5,5			60	59,5	59	58,5	58	57,5	56,5	55	54	52	50	45,5	
B-NMD 25/190CE-60	NMD 25/190CE-60	2,2	3		69	67	65	60	53	50	42							
B-NMD 25/190BE-60	NMD 25/190BE-60	3	4		81	80	78	73	67,5	64	58	51,5	41*					
B-NMD 25/190AE-60	NMD 25/190AE-60	4	5,5		98	97	95	92	87	84	79	72,5	63*					

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-60●	0,55	0,75		14	13,5	13	12,5	12	11,5	10,5	9						
NM 10/DE-60●	0,75	1		19,5	19	19	18,5	18	17,5	16,5	15,5						
NM 10/AE-60●	1,1	1,5		24,5	24	24	23,5	23	22	21,5	20						
NM 10/SE-60●	1,5	2		26	26	25,5	25,5	25	24,5	24	22,5	21	19	16,5	12,5		
NMM 11/BE-60	1,5	2	H	29,5	29	28,5	28	27	26	25	22,5	20					
NM 11/BE-60	1,5	2	m	31	30,5	30	29,5	29	28	27	25	23*					
NM 11/AE-60	2,2	3		36,5	36	35,5	35	34	33	32,5	31	29*					
NM 12/DE-60	2,2	3		39	38	37,5	36,5	35	34	32*							
NM 12/CE-60	3	4		45	44,5	44	43	42	41	40	37	34*					
NM 12/AE-60	4	5,5		57	56,5	56	55,5	55	54	53	51	49*					

NM, NMD 60 Hz

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Performance n ≈ 3450 rpm

B-NMD	NMD	P2 kW	P2 HP	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
				l/min	90	100	110	125	140	160	180	200	220	250	280	315	350	400
B-NMD 32/210DE-60	NMD 32/210DE-60	4	5,5		68	67	65	63	60	55	50	45	40*					
B-NMD 32/210CE-60	NMD 32/210CE-60	5,5	7,5		89	88	87	85	83	79	74	68	63	52*				
B-NMD 32/210BE-60	NMD 32/210BE-60	7,5	10		110	109	108	106	104	100	96	91	86	78*				
B-NMD 32/210AE-60	NMD 32/210AE-60	9,2	12,5	H	121	120	119	118	117	114	110	105	99	89*				
B-NMD 40/180DE-60	NMD 40/180DE-60	4	5,5	m				60	58,5	57	55,5	53,5	51,5	47,5	43,5	38,5	33,5	
B-NMD 40/180CE-60	NMD 40/180CE-60	5,5	7,5					68	67,5	66,5	65,5	64	63	59,5	57	50	47,5	
B-NMD 40/180BE-60	NMD 40/180BE-60	7,5	10					86,5	86	84,5	83,5	82	80	77,5	74	68	65,5	58*
B-NMD 40/180AE-60	NMD 40/180AE-60	9,2	12,5					93,5	92,5	91,5	90,5	89	87	84,5	83	75,5	73,5	66*

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

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 ISO 9906, annex A.

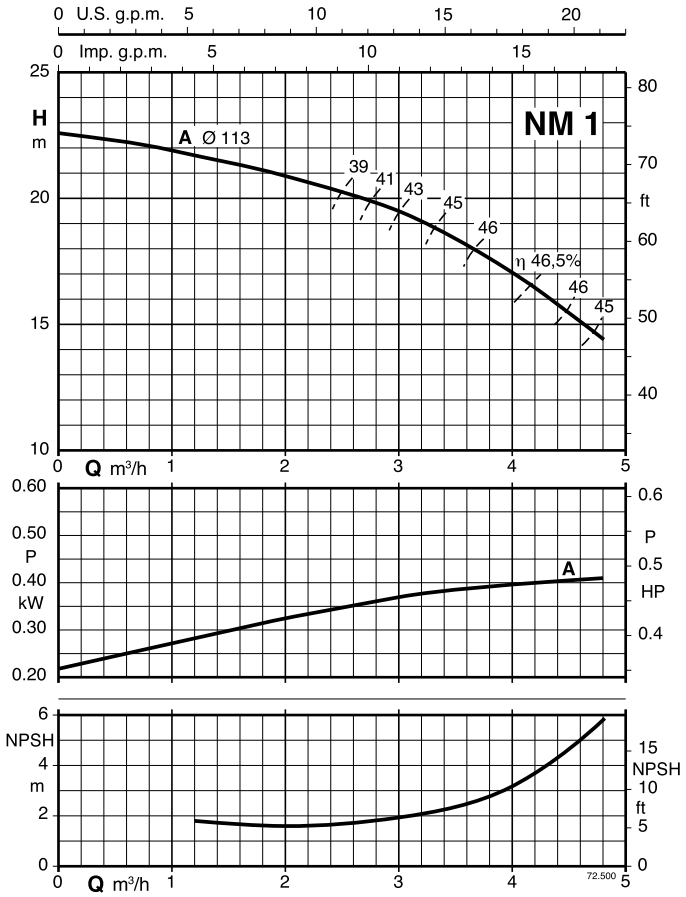
Rated currents

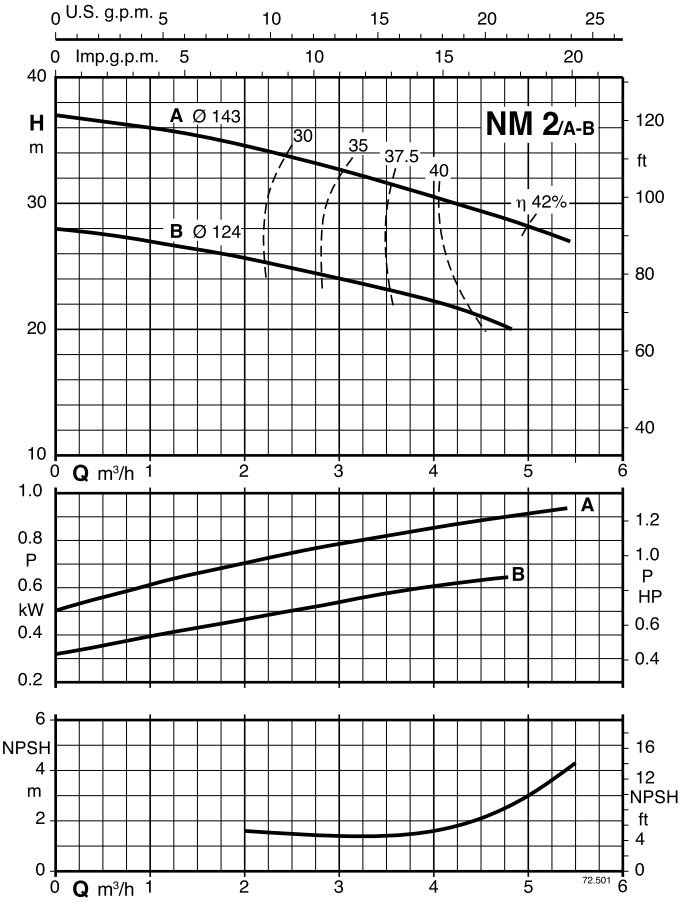
P2 kW	P2 HP	220 V 1~ IN A	IA/IN
0,37	0,5	3,4	2,3
0,45	0,6	4,1	2,5
0,55	0,75	5,2	3,1
0,75	1	6,5	2,9
1,1	1,5	8,5	3
1,5	2	10,6	3,8

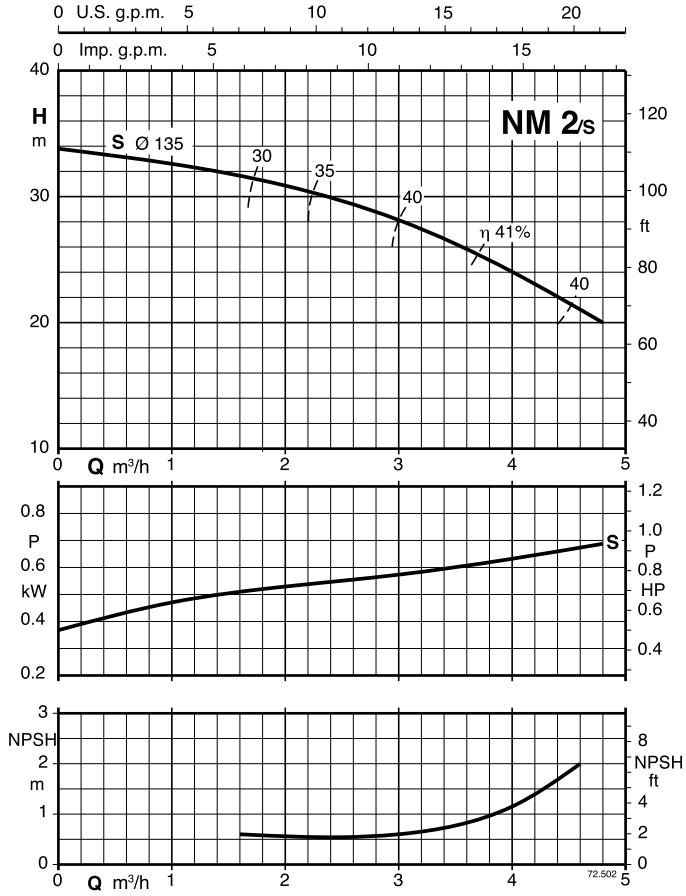
P2 kW	P2 HP	220 V Δ / 380 V Y IN A	380 V Δ / 660 V Y IN A	IN A	IA/IN
0,37	0,5	3	1,7		3,8
0,45	0,6	2,6	1,5		3,5
0,55	0,75	3,3	1,9		4,3
0,75	1	4,5	2,6		5,2
1,1	1,5	5,7	3,3		5,3
1,5	2	9	5,2		6
2,2	3	10,7	6,2		5,9
3	4	13	7,5		9,5
4	5,5		11,3	6,5	9,8
5,5	7,5		14,5	8,4	8,2
7,5	10		18,2	10,5	9,5
9,2	12,5		21,5	12,4	8,2

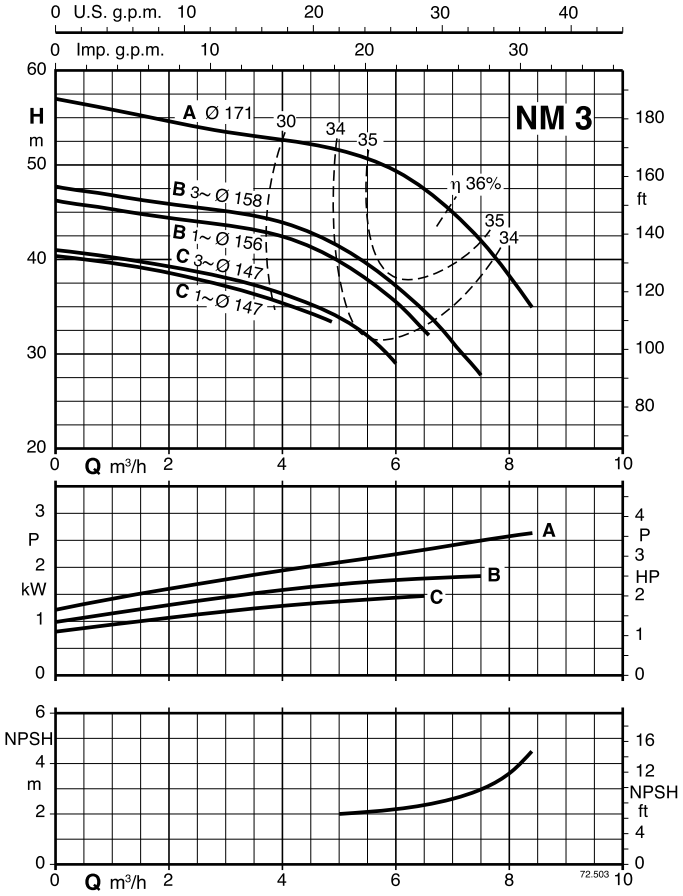
P2 Rated motor power output.
IA/IN D.O.L. starting current / Rated current

Characteristic curves n = 3450 rpm

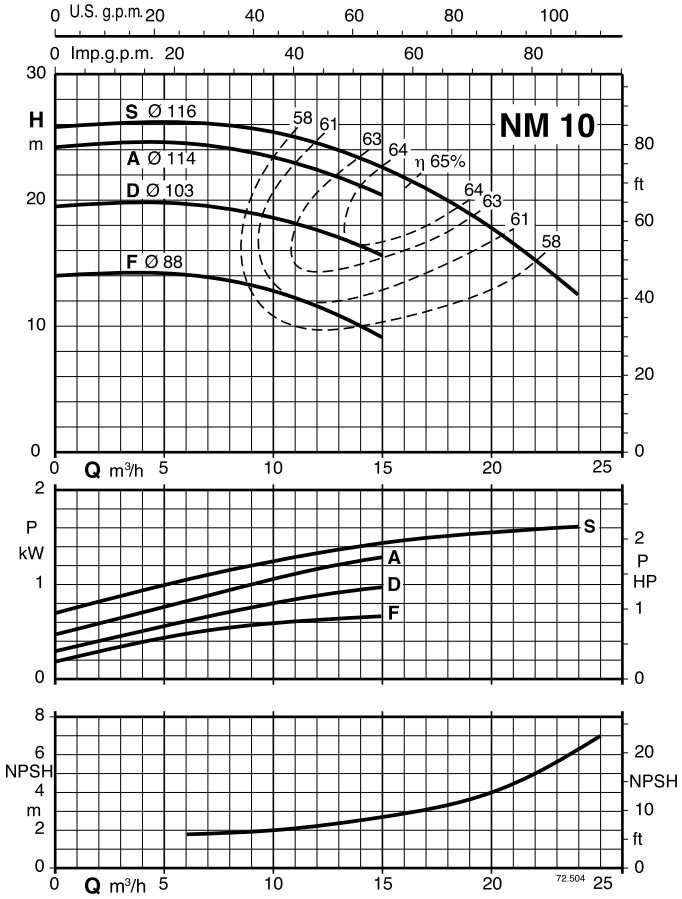


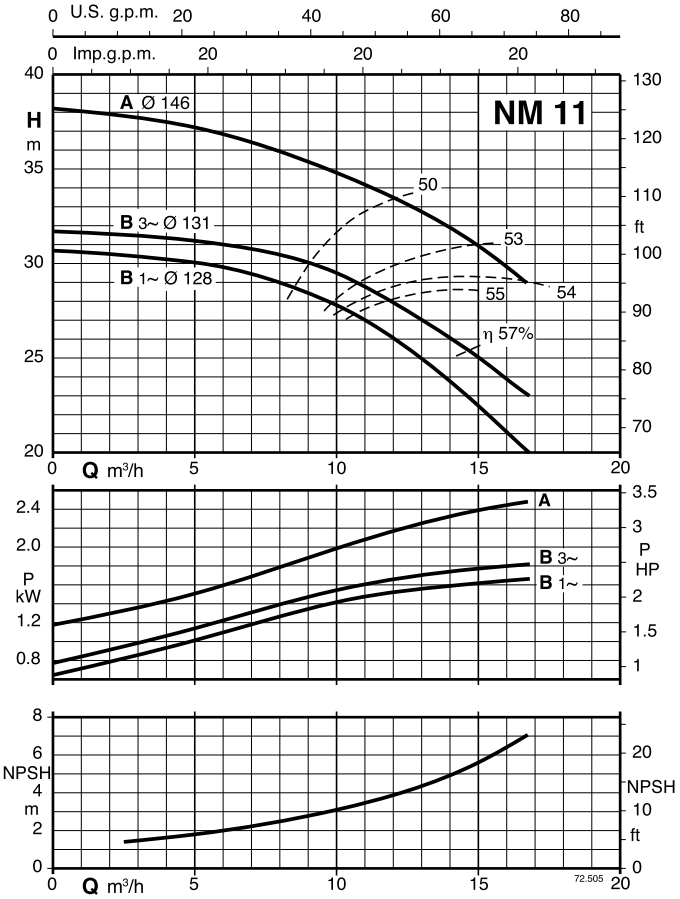


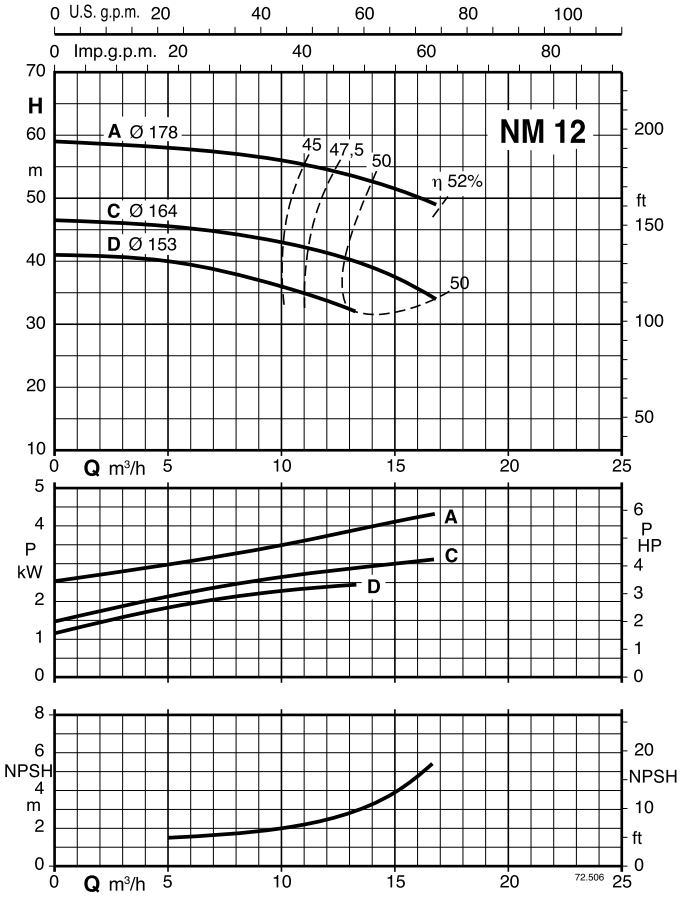


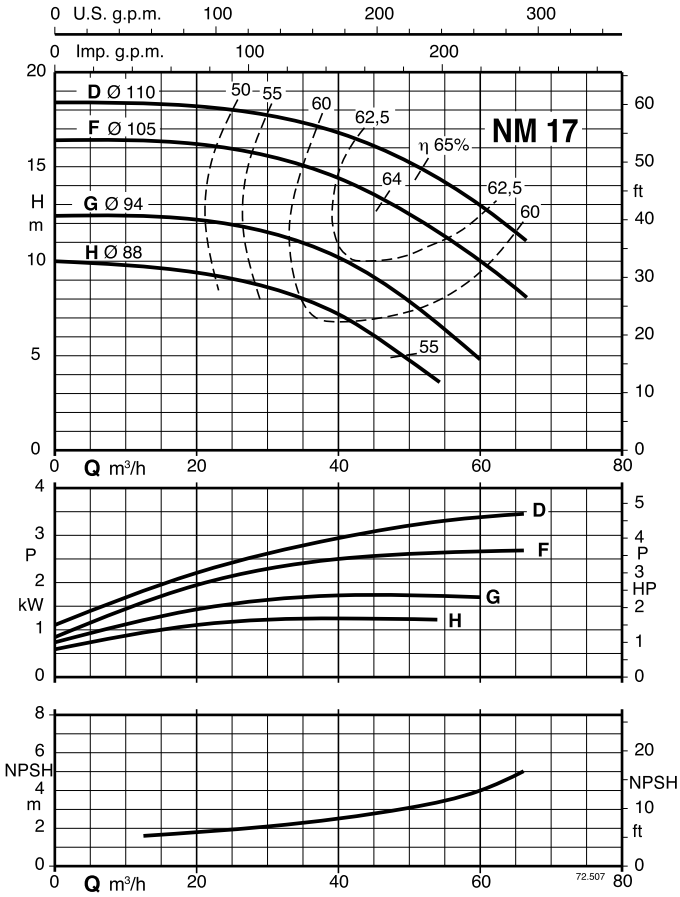


Characteristic curves n = 3450 rpm

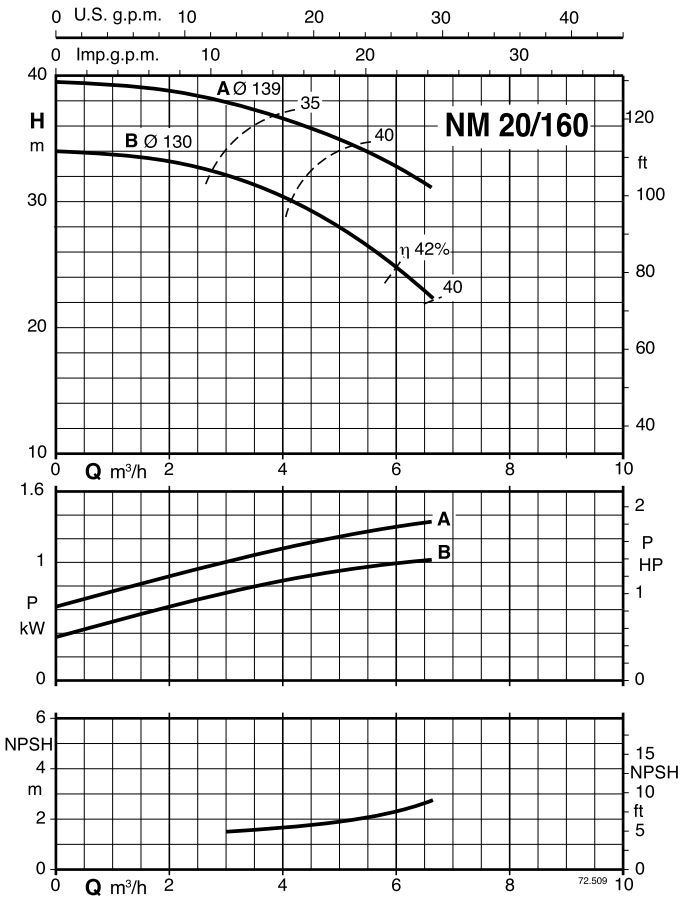


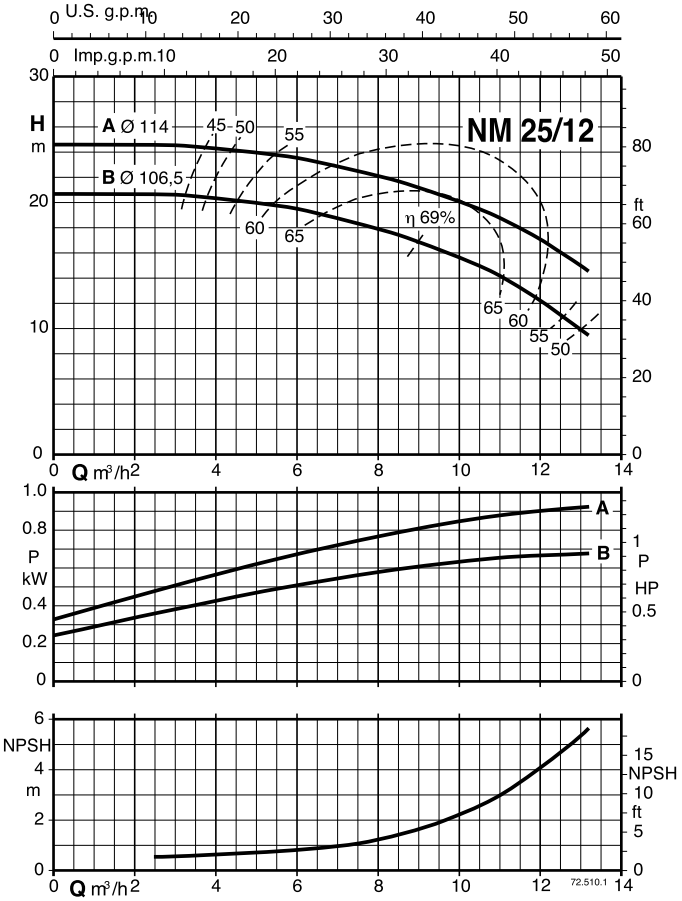


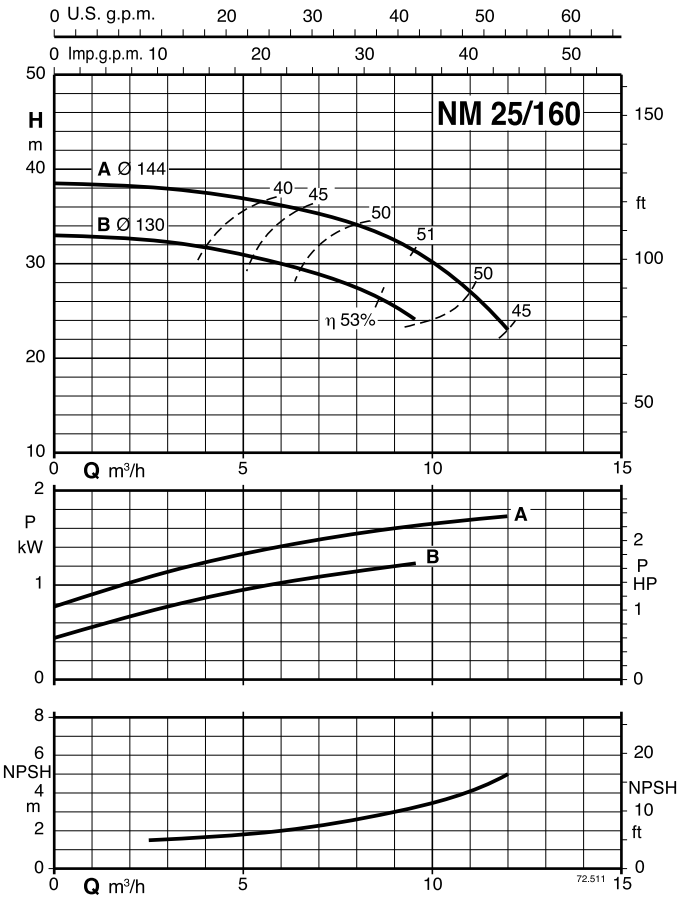


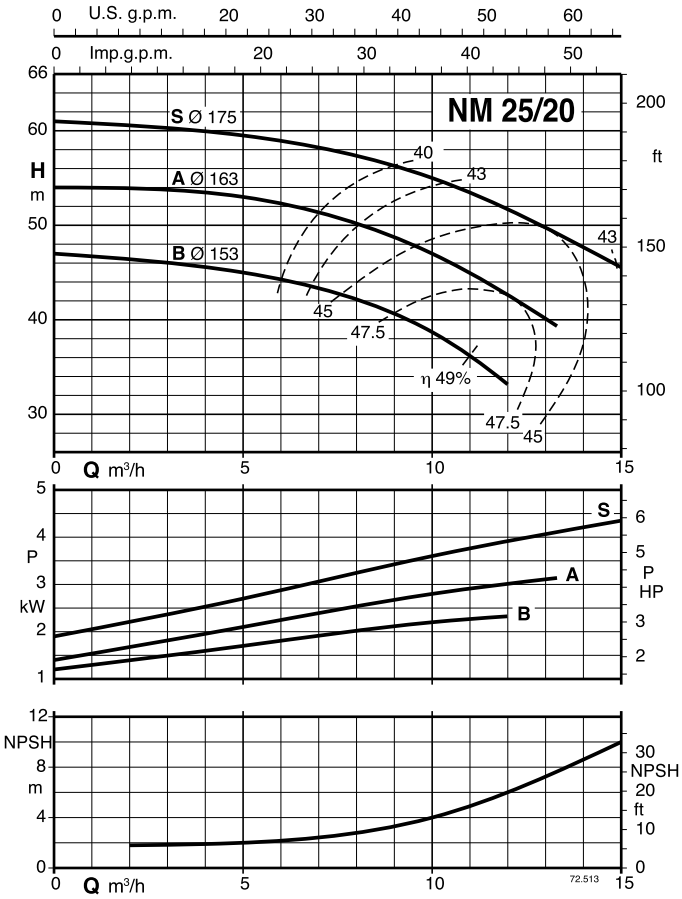


Characteristic curves n = 3450 rpm

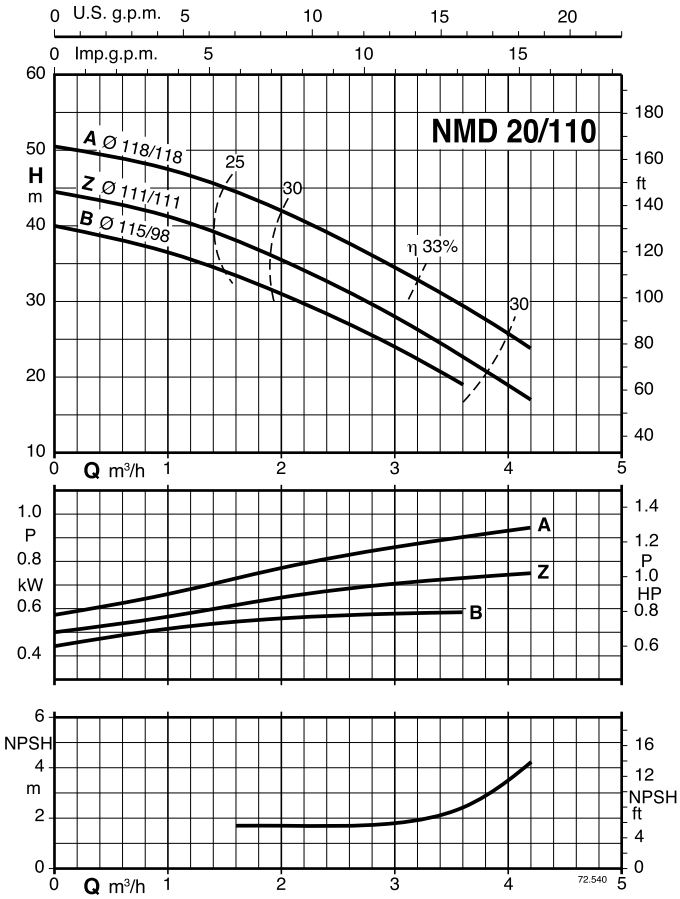


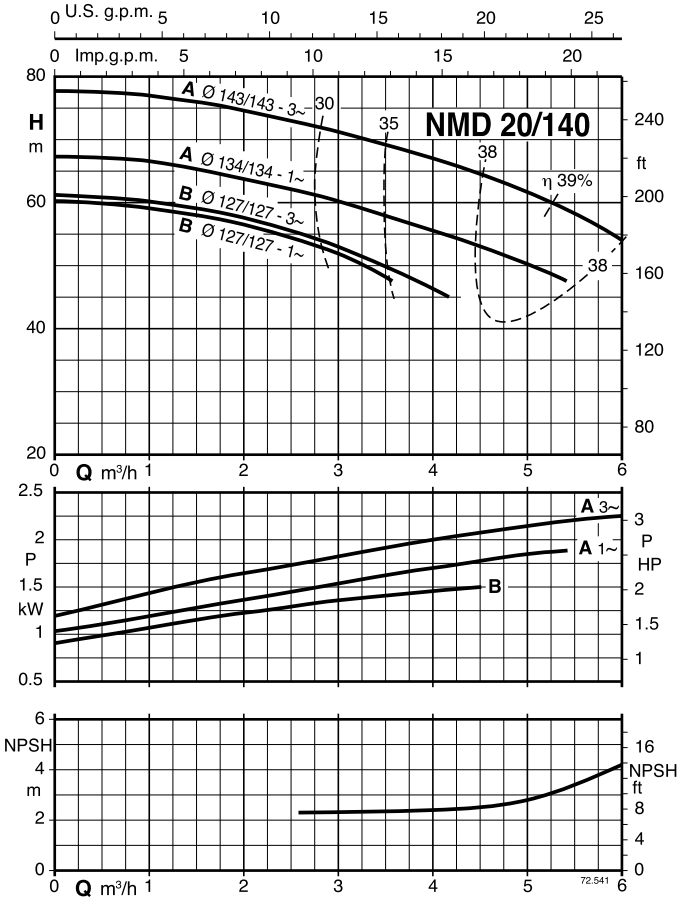




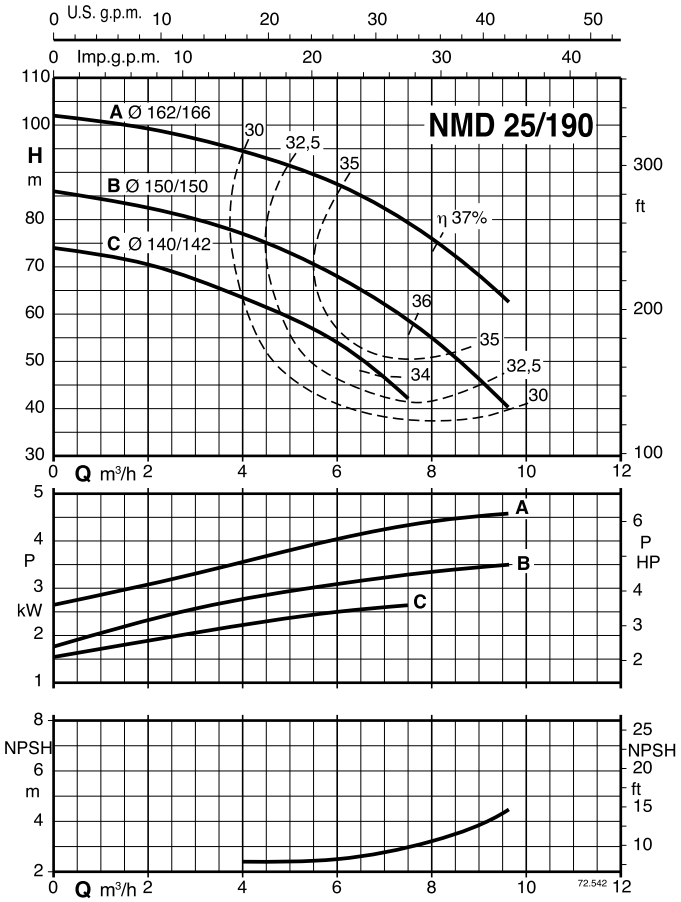


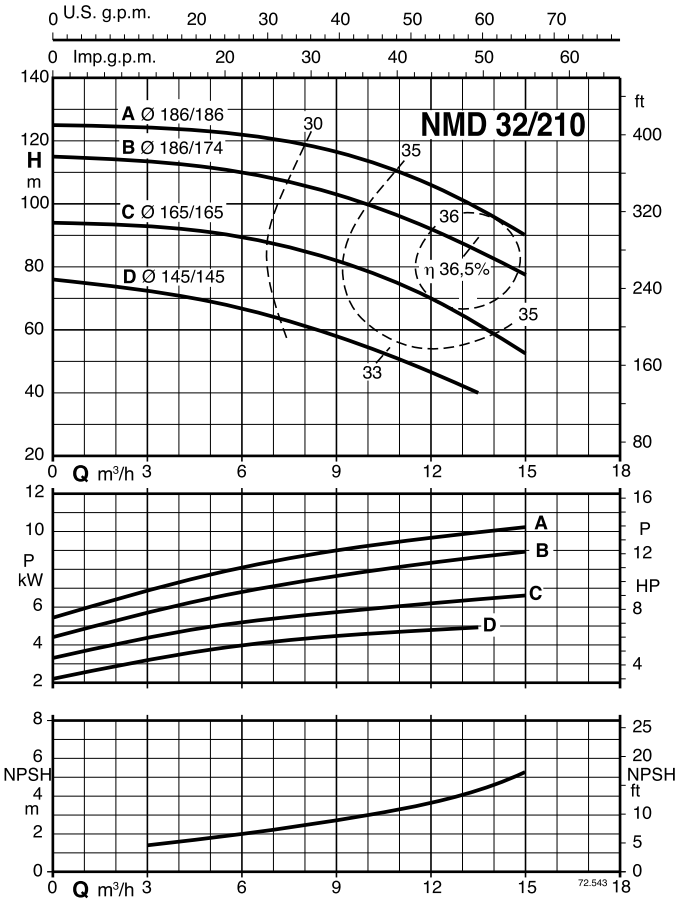
Characteristic curves n = 3450 rpm

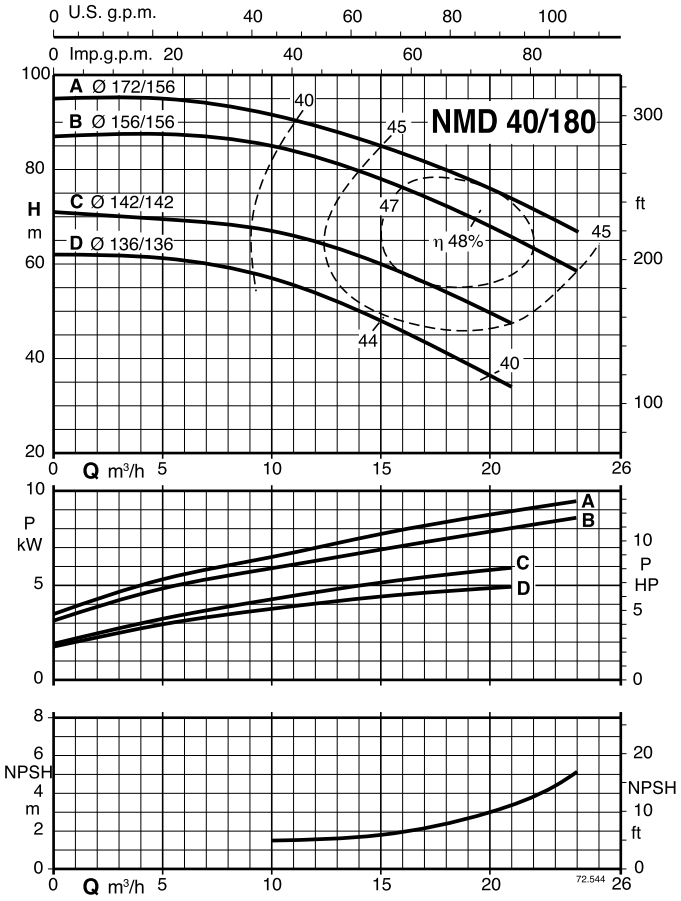




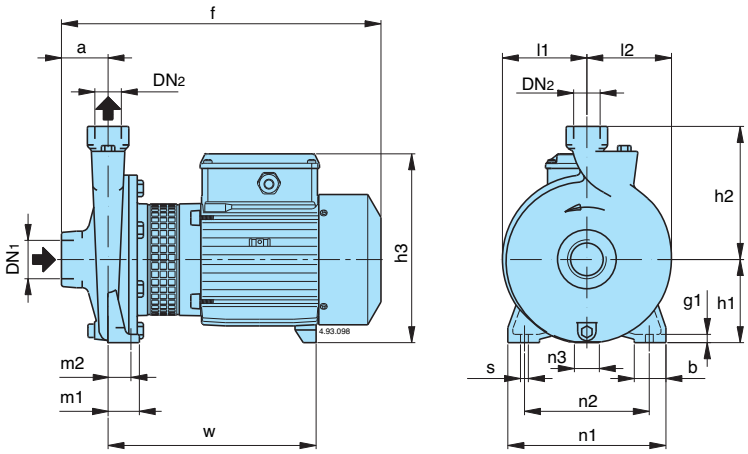
Characteristic curves n = 3450 rpm







Dimensions and weights

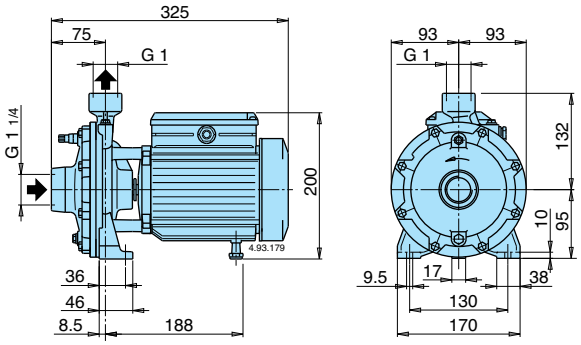


TYPE	NMM kg	NM kg	B-NM kg
NM 1/AE-60	8,7	8,6	
NM 2/BE-60	14	13,1	
NM 2/SE-60	14,2	13,3	
NM 2/AE-60	15,1	14,2	
NM 3/CE-60	24	22,9	
NM 3/BE-60	26	25,1	
NM 3/AE-60		26,1	
B- **NM 20/160BE-60**	19,9	18,4	21
B- **NM 20/160AE-60**	20,7	19,7	22,5
B- **NM 25/12BE-60**	13,2	12,3	13,5
B- **NM 25/12AE-60**	14,2	13,3	14,5
B- **NM 25/160BE-60**	20,4	19,7	22,8
B- **NM 25/160AE-60**	22,5	21,5	24
NM 25/20BE-60		28,6	
NM 25/20AE-60		37,9	
NM 25/20SE-60		41,7	
B- NM 25/200BE-60			32,7
B- NM 25/200AE-60			40,7
B- NM 25/200SE-60			44,7
NM 10/FE-60	19,3	18,5	
NM 10/DE-60	19,4	18,8	
NM 10/AE-60	20,2	19,3	
NM 10/SE-60	22,1	21,5	
NM 11/BE-60	24,7	24,1	
NM 11/AE-60		25,1	
NM 12/DE-60		30,5	
NM 12/CE-60		39	
NM 12/AE-60		43	
B- NM 17/HE-60	23	22,2	29,2
B- NM 17/GE-60	24,2	23,2	30,2
B- NM 17/FE-60		25,2	32,2
B- NM 17/DE-60		33,2	40,2

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-60	G 1	G 1	40	261	80	132	176	40	32	170	140	17	35	9,5	77	81	171	10
	NM 2/AE-60,SE-60,BE-60	G 1	G 1	45	305	95	150	203	40	32	190	160	17	35	9,5	87	90	218	10
	NM 3/AE-60,BE-60,CE-60	G 1	G 1	50	375	112	180	240	55	43	245	205	37	45	11,5	110	113	244	12
B-NM 20/160AE-60,BE-60	**NM 20/160AE-60,BE-60**	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 25/12AE-60,BE-60	**NM 25/12AE-60,BE-60**	G 1 1/2	G 1	56	313	90	140	195	37,5	27,5	170	130	9	38	9,5	85	88	195	10
B-NM 25/160AE-60,BE-60	**NM 25/160AE-60,BE-60**	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 25/20BE-60	G 1 1/2	G 1	63	393	125	180	253	45	32,5	245	200	49	45	11,5	125	125	251	11
	NM 25/20AE-60,SE-60				460								42					295	
B-NM 25/200BE-60		G 1 1/2	G 1	63	405	125	180	253	45	32,5	245	200	49	45	11,5	125	125	263	11
B-NM 25/200AE-60,-SE-60					460								42					295	
	NM 10/SE-60,AE-60,DE-60,FE-60	G 2	G 1 1/4	63	382	100	150	228	50	35	190	140	30	50	13	90	97	239	14
	NM 11/AE-60,BE-60	G 2	G 1 1/4	70	400	112	170	240	50	35	210	160	37	50	15	103	110	247	14
	NM 12/DE-60	G 2	G 1 1/4	70	400	132	190	260	50	35	240	190	47	50	15	125	127	247	14
	NM 12/AE-60,CE-60				470								45					300	
B-NM 17/FE-60,GE-60,HE-60	**NM 17/FE-60,GE-60,HE-60**	G 2 1/2	G 2 1/2	80	417	112	160	240	50	35	210	160	37	50	14	96	113	257	14
B-NM 17/DE-60	**NM 17/DE-60**				480								20					295	

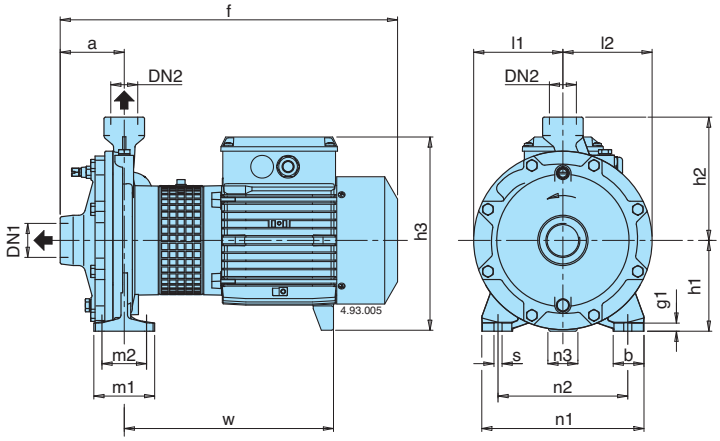
Dimensions and weights

NMD 20/110



TYPE	NMDM kg	NMD kg	B-NMD kg
B- **NMD 20/110BE-60**	13	12,1	13,4
B- **NMD 20/110ZE-60**	14	13	14,2
B- **NMD 20/110AE-60**	15,1	14,2	17,4

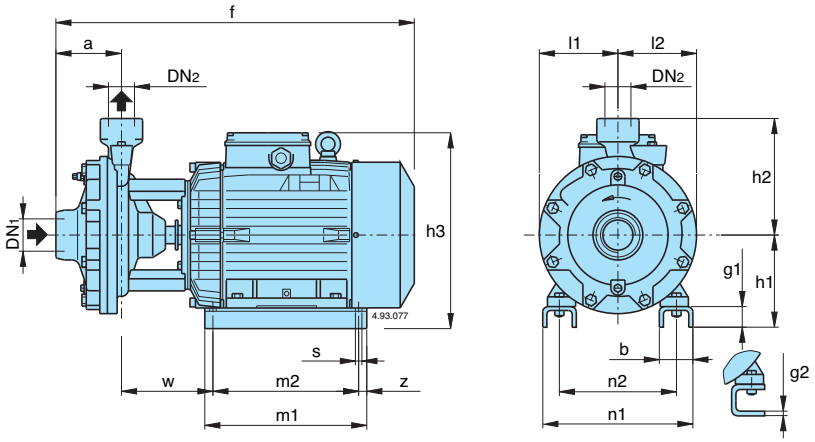
NMD 20/140
NMD 25/190



TYPE	NMDM kg	NMD kg	B-NMD kg
B- **NMD 20/140BE-60**	23,9	22,7	25,2
B- **NMD 20/140AE-60**	25,2	24,8	27,6
B- **NMD 25/190CE-60**		39	42,7
B- **NMD 25/190BE-60**		46,7	51
B- **NMD 25/190AE-60**		51	55

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-60,BE-60	NMD 20/140AE-60,BE-60	G 1 1/4	G 1	80	410	112	150	243	75	55	200	160	37	38	9,5	110	110	256	10
B- NMD 25/190CE-60	NMD 25/190CE-60				447								50					274	
B- NMD 25/190BE-60	NMD 25/190BE-60	G 1 1/2	G 1	97	500	140	180	268	100	70	240	190	49	50	14	133	133	306	13
B- NMD 25/190AE-60	NMD 25/190AE-60				500								49					306	

NMD 32/210
NMD 40/180



TYPE	NMD kg	B-NMD kg
B- **NMD 32/210DE-60**	60	66
B- **NMD 32/210CE-60**	70	76
B- **NMD 32/210BE-60**	76,5	82
B- **NMD 32/210AE-60**	99	105
B- **NMD 40/180DE-60**	59	65
B- **NMD 40/180CE-60**	69	75
B- **NMD 40/180BE-60**	75,5	81
B- **NMD 40/180AE-60**	97	102

B - NMD	NMD	DN1 ISO 228	DN2 ISO 228	mm																
				a	f	h1	h2	h3	m1	m2	n1	n2	z	b	s	l	l1	l2	w	g1	g2
B-NMD 32/210DE-60	NMD 32/210DE-60				530	155		283	205	175	194	140		54	10	-			139	-	6
B-NMD 32/210BE-60,CE-60	NMD 32/210BE-60,CE-60	G 2	G 1 1/4	110	550	150	215	310	280	250	258	190	15	68	12	-	150	150	108	38	-
B-NMD 32/210AE-60	NMD 32/210AE-60				625	170		355	298	268	286	216		70	12	-			152	38	-
B-NMD 40/180DE-60	NMD 40/180DE-60				535	155		283	205	175	194	140		54	10	-			133	-	6
B-NMD 40/180BE-60,CE-60	NMD 40/180BE-60,CE-60	G 2	G 1 1/2	121	555	150	215	310	280	250	258	190	15	68	12	-	145	145	102	38	-
B-NMD 40/180AE-60	NMD 40/180AE-60				630	170		355	298	268	286	216		70	12	-			145	38	-

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