



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 lantern bracket in cast iron.

B-NM, B-NMD: version with pump casing and lantern 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 ($n \approx 2900$ rpm).

NM, NMD: three-phase 230/400 V $\pm 10\%$ up to 3 kW;

400/690 V $\pm 10\%$ from 4 to 9,2 kW;

NMM, NMDM: single-phase 230 V $\pm 10\%$, 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

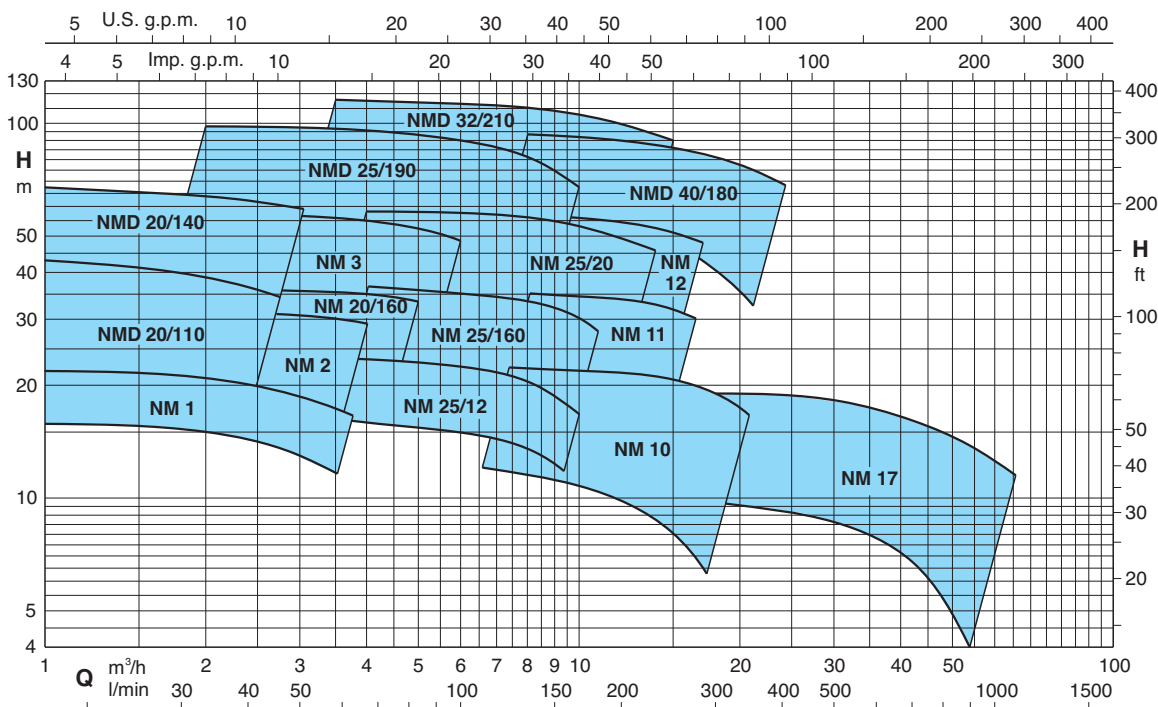
- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal
- Higher or lower liquid or ambient temperatures.
- Motor suitable operation with frequency converter.

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 steel AISI 303 1,1 -1,5 - 2,2 kW	Cr Ni Mo steel AISI 316
Mechanical seal	Carbon - Ceramic - NBR	

Coverage chart $n \approx 2900$ rpm



Performance n ≈ 2900 rpm

	NM	P ₂		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
		kW	HP		l/min	16	20	25	31,5	40	50	60	70	80	90	100	110	125
		H m																
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	33,5	33	32,5	32	31,5	30,5	29,5	28,5	27	26	24					
NMMD 3/CE	1,1	1,5		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					
NMMD 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		
NMMD 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		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
		kW	HP		l/min	16	20	25	31,5	40	50	60	70	80	90	100	110	125
		H m																
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	52	51,5	51	50	48,5	47	45								
B-NMD 20/140BE	NMD 20/140BE	1,1	1,5	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		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
		kW	HP		l/min	40	50	60	80	100	110	125	140	160	180	200	220	250
		H m																
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		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		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		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
		kW	HP		l/min	110	125	140	160	180	200	220	250	280	315	350	400	450
		H m																
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				
NMMD 11/BE	1,5	2	26,5	25,5	25	24	23	22,5	21,5	19,5	17,5							
NM 11/BE	1,5	2	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							

Performance n ≈ 2900 rpm

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B-NMD	NMD	P ₂		Q m ³ /h l/min	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		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	H m	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		114	113	112	110	108	105	103	99	96*	90*				
B-NMD 40/180D/A	NMD 40/180D/A	4	5,5					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	P ₂		Q m ³ /h l/min	21	24	27	30	33	37,8	42	48	54	60	66	75	84	96
		kW	HP		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	H m	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		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			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.

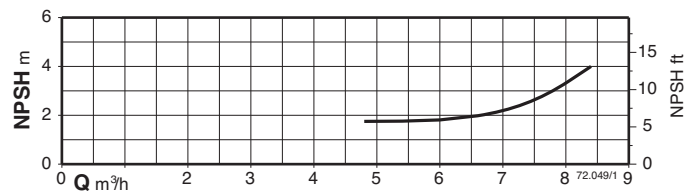
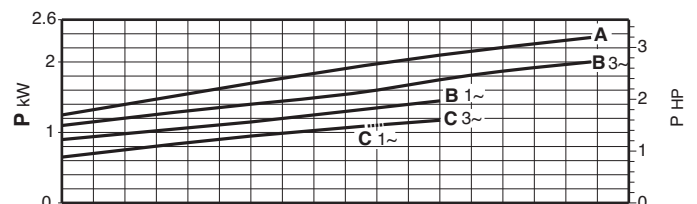
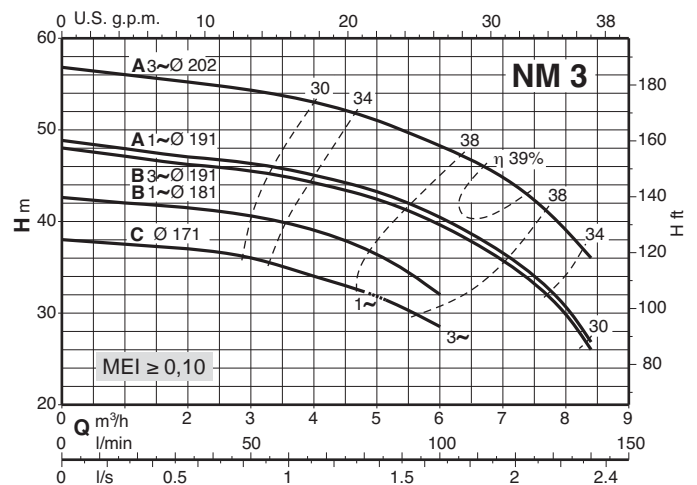
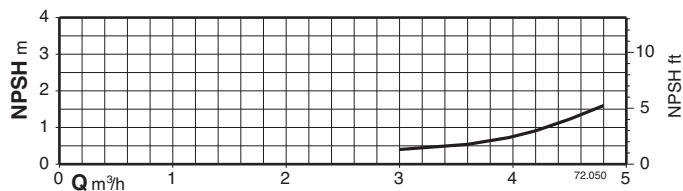
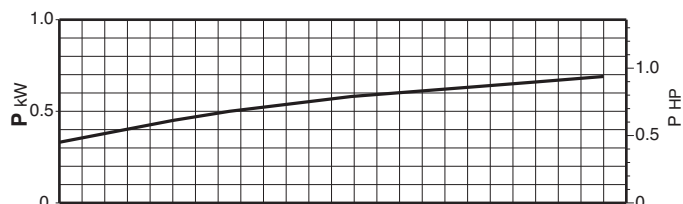
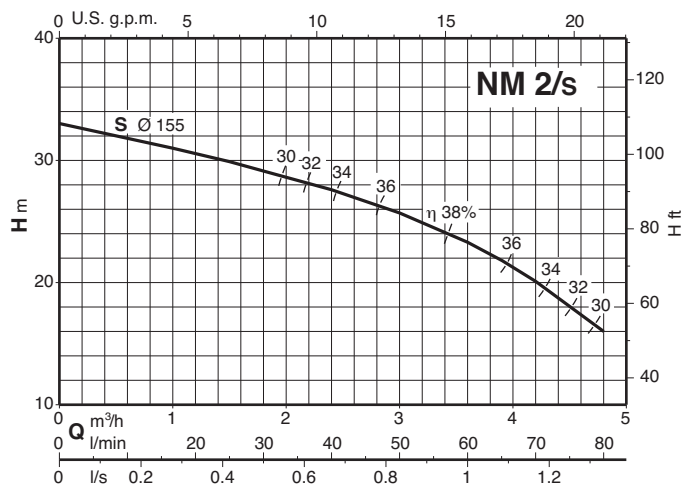
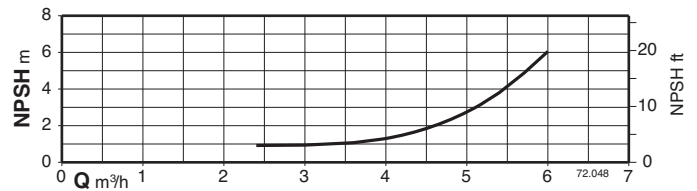
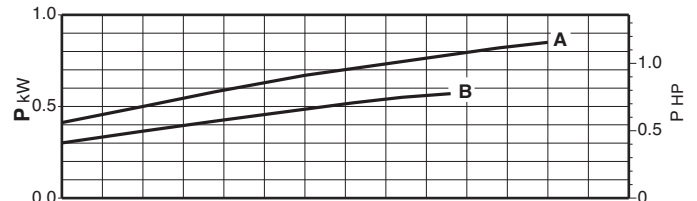
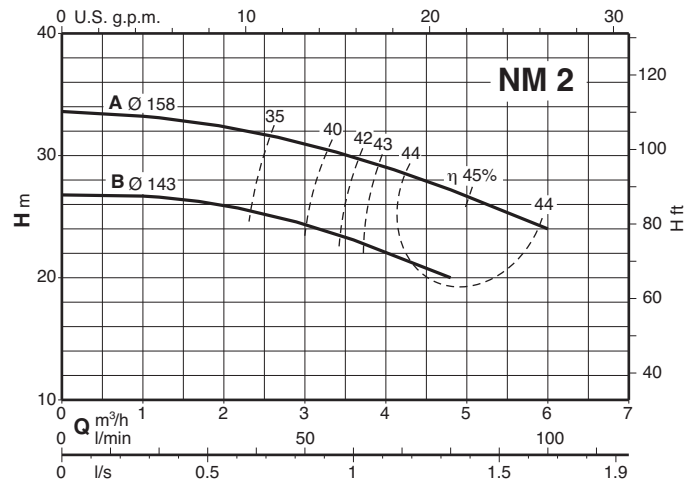
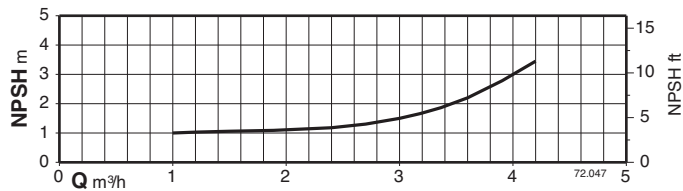
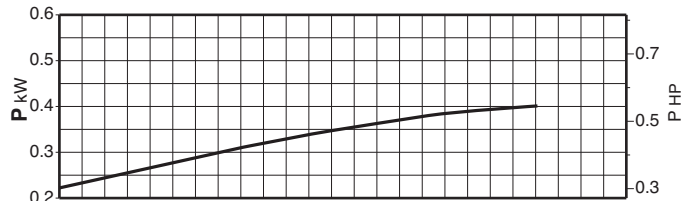
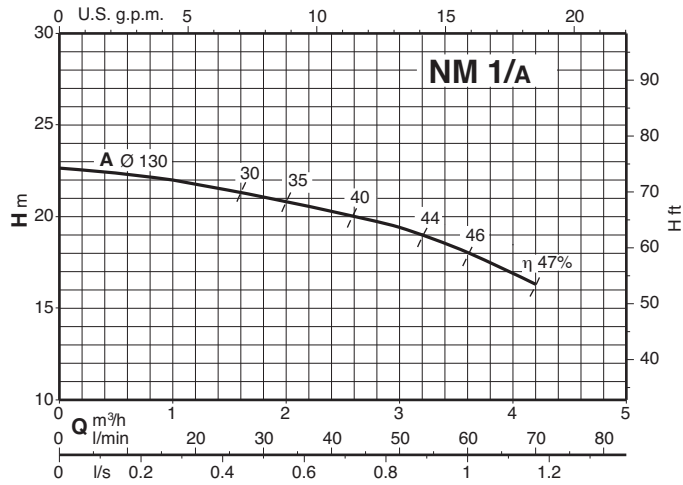
Rated currents

P ₁ kW	P ₂		230 V 1~ IN A		IA/IN
	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	

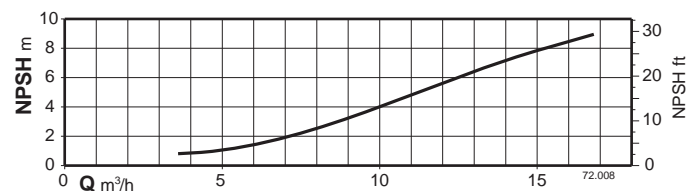
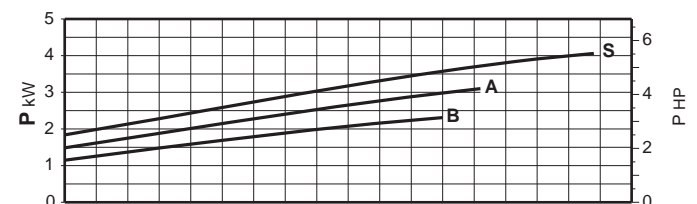
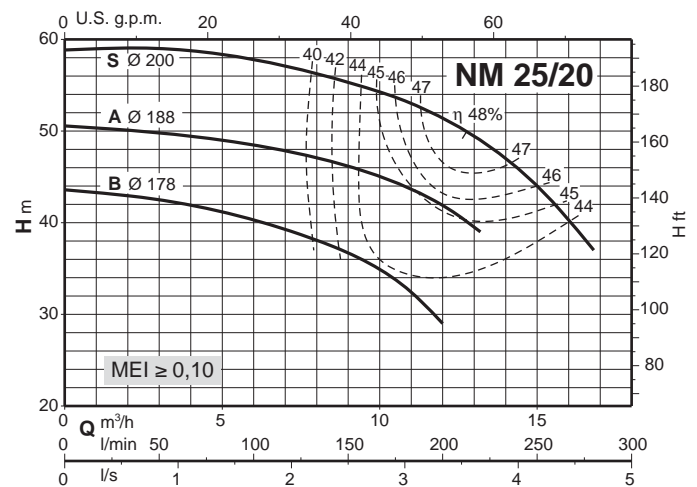
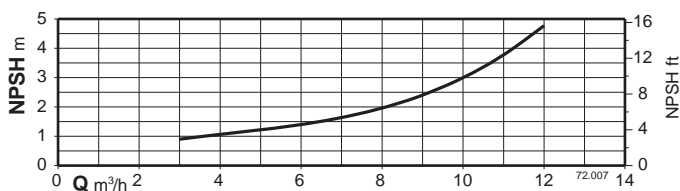
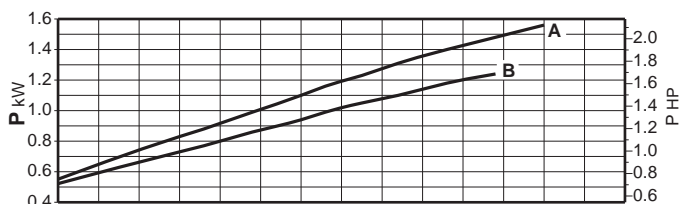
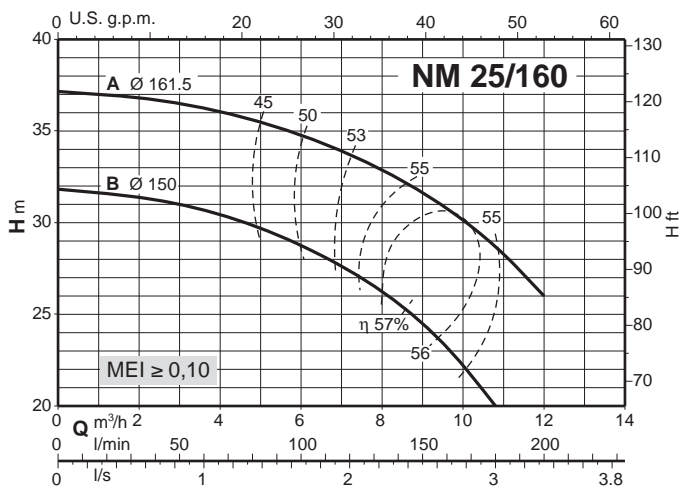
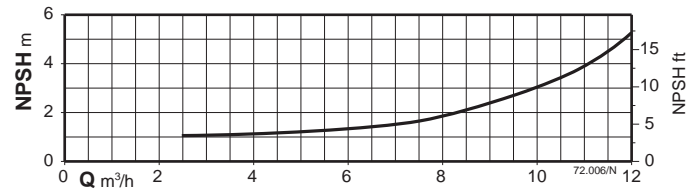
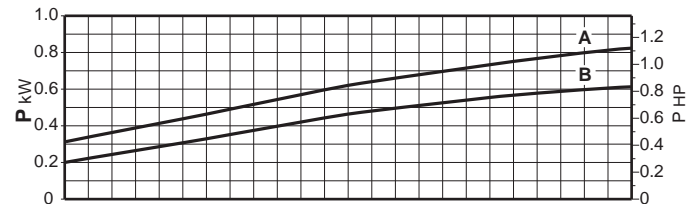
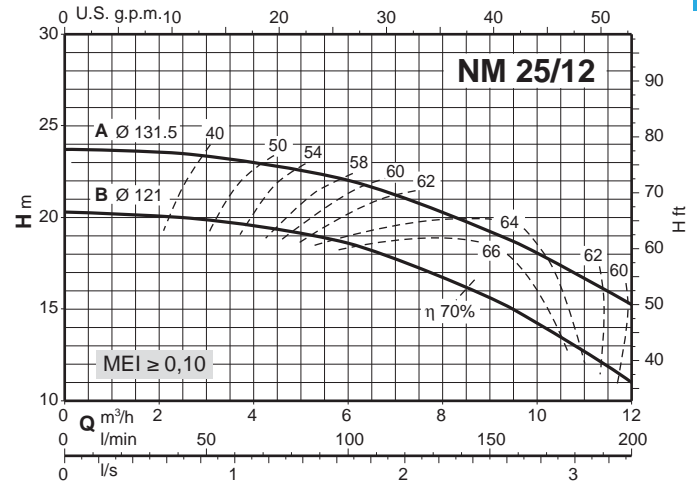
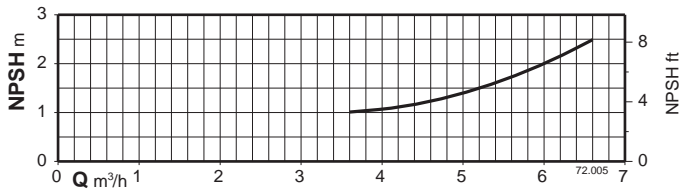
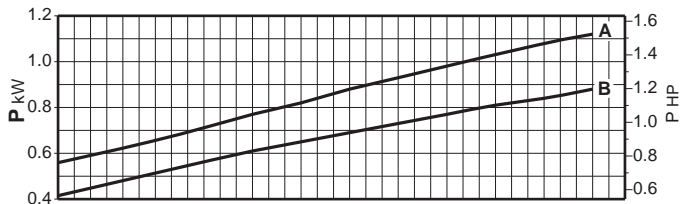
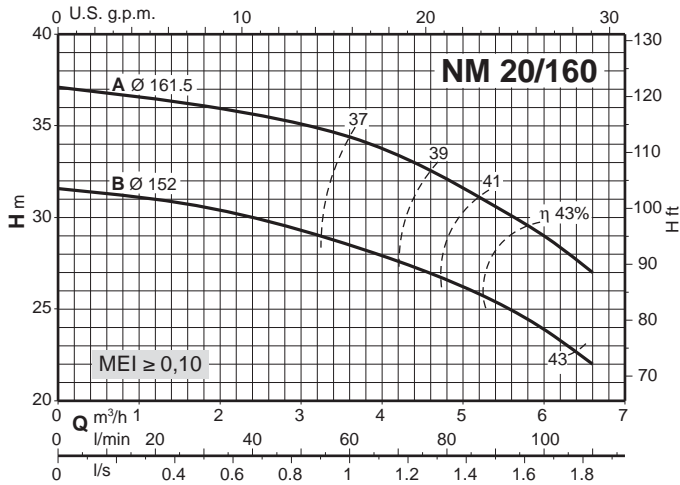
P ₂ kW	HP	230 V Δ / 400 V Y 400 V Δ / 690 V Y			IA/IN
		IN A	IN A	IN A	
0,37	0,5	2,3	1,3	3,8	
0,45	0,6	2,3	1,3	3,5	
0,55	0,75	3	1,7	4,3	
0,75	1	3,7	2,2	3,9	
1,1	1,5	4,6	2,7	5,6	
1,5	2	7,5	4,3	5,5	
2,2	3	9,15	5,3	7,4	
3	4	11,5	6,6	8,2	
4	5,5		9,6	5,5	7,6
5,5	7,5		10,9	6,3	9,1
7,5	10		14,3	8,3	9,1
9,2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

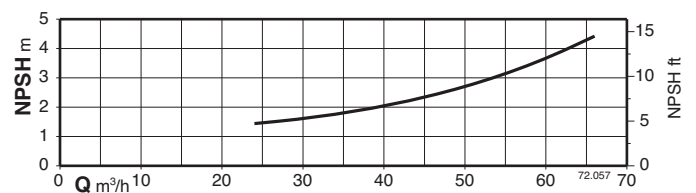
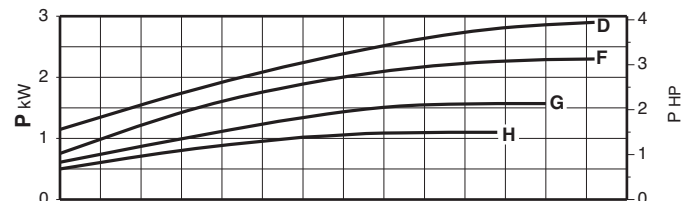
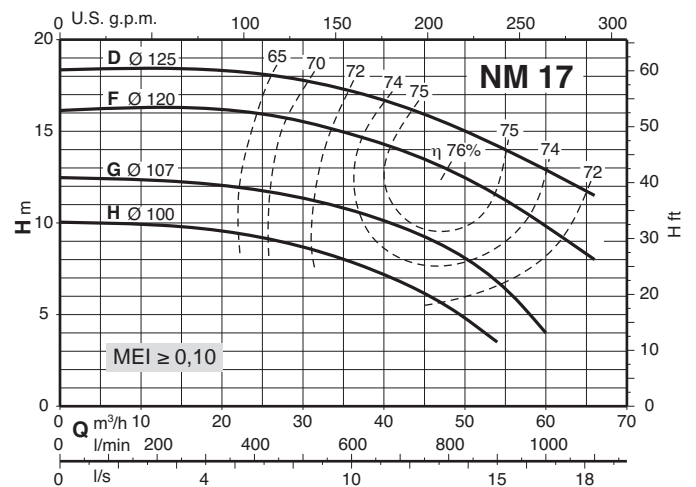
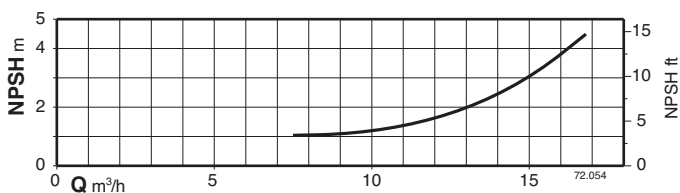
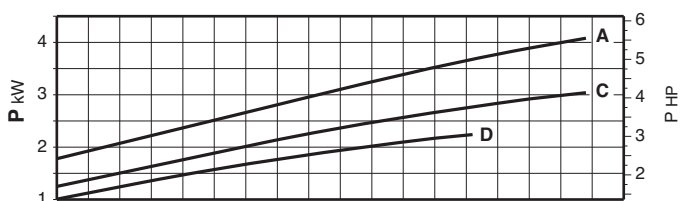
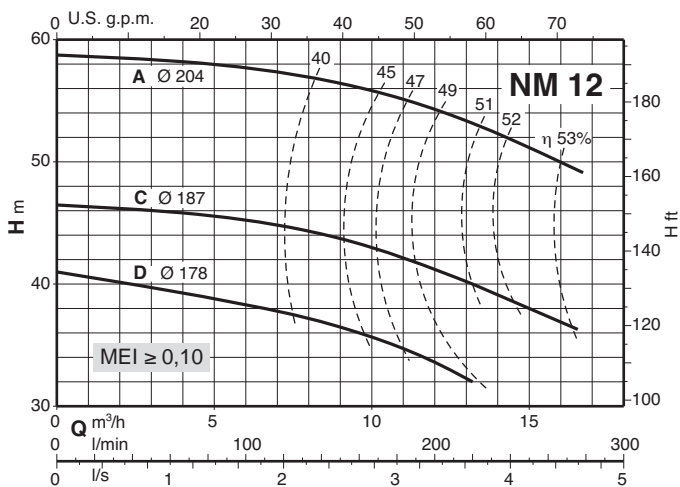
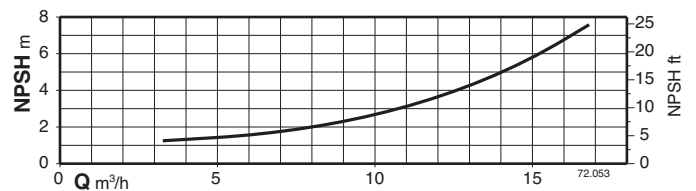
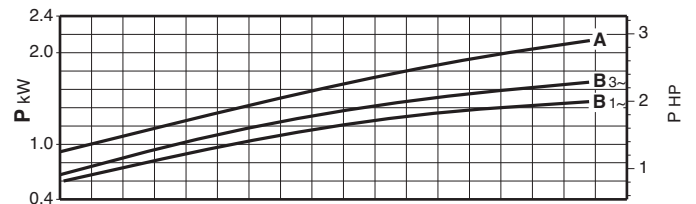
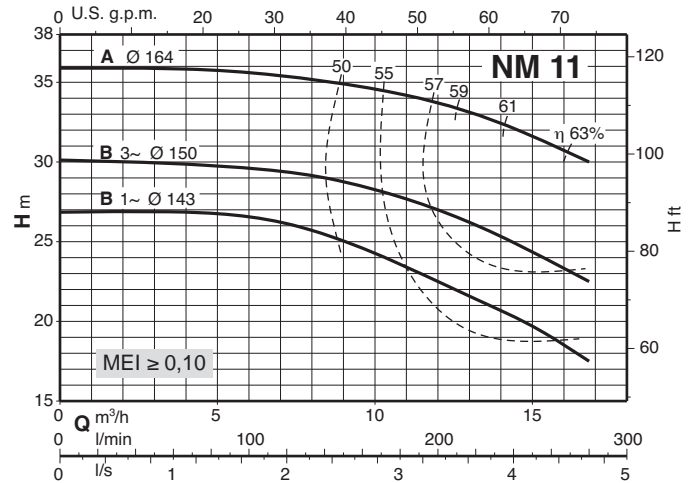
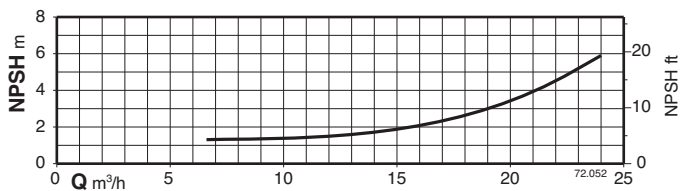
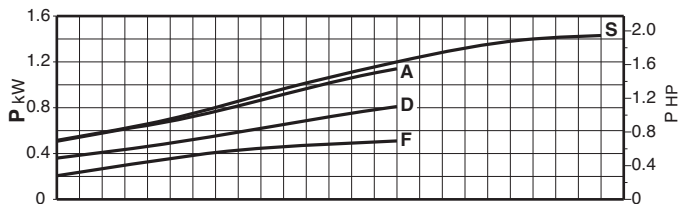
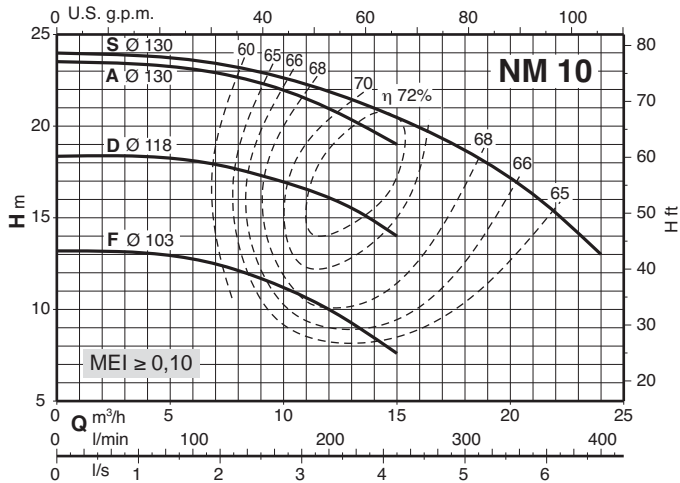
Characteristic curves $n \approx 2900$ rpm



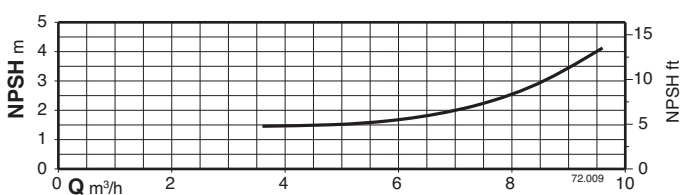
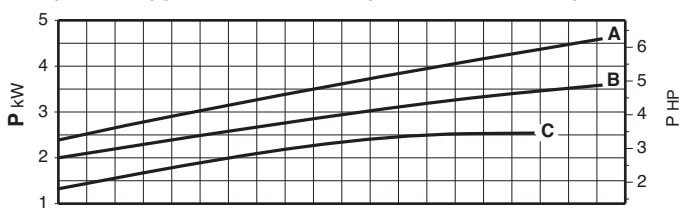
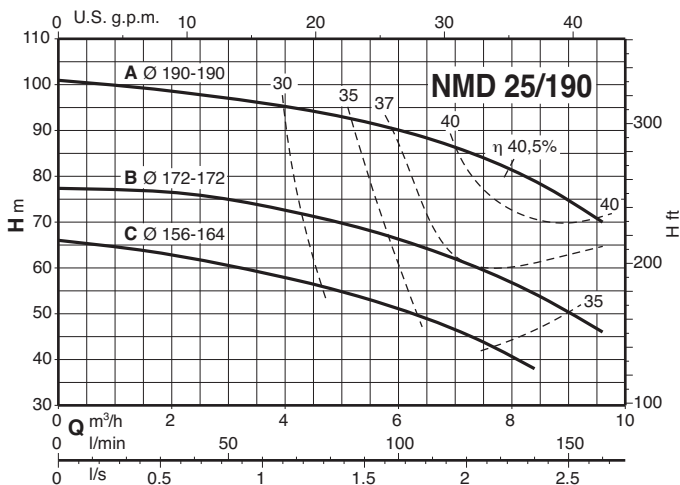
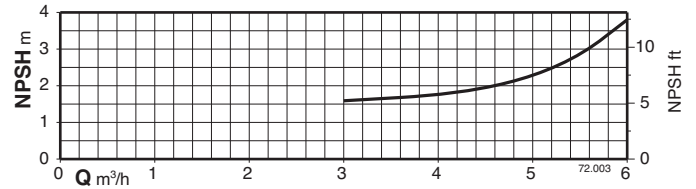
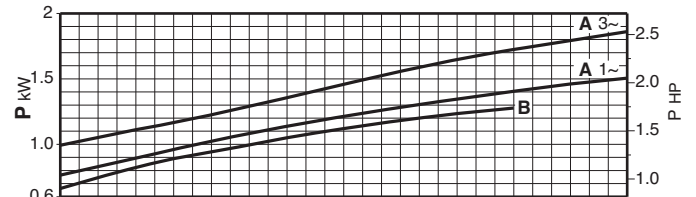
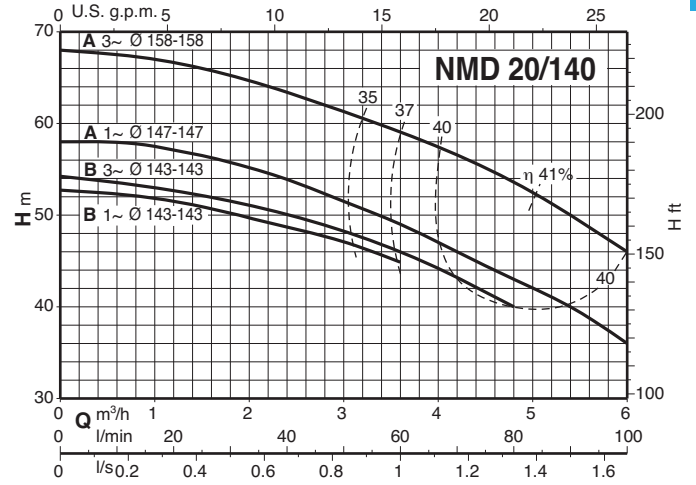
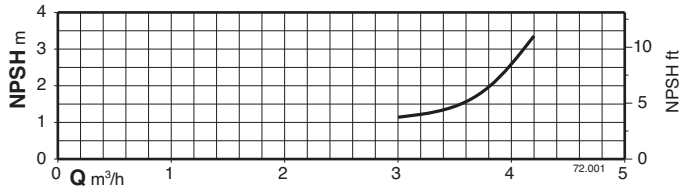
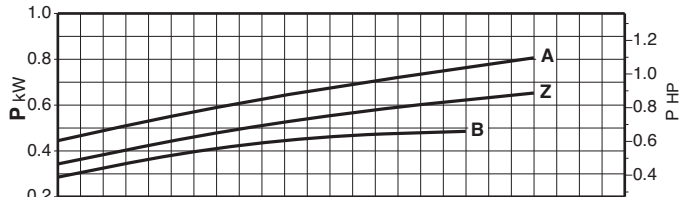
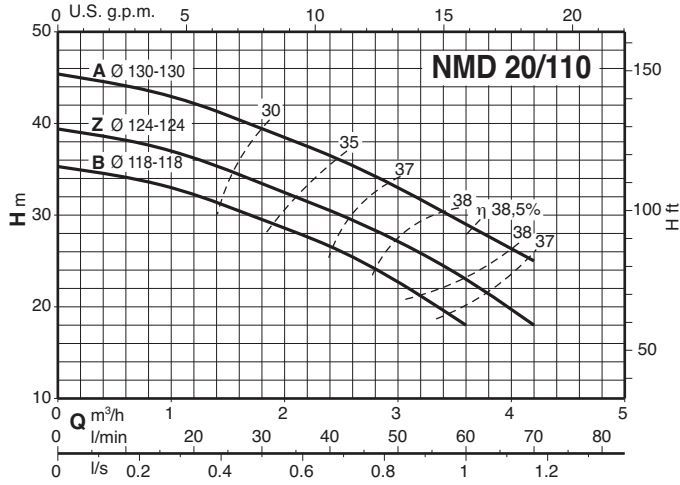
Characteristic curves $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm



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