



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 lantern bracket in cast iron.
B-NM(S): version with pump casing and lantern 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 100/250	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.

Classification scheme IE2 for three-phase motor from 0,75 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.

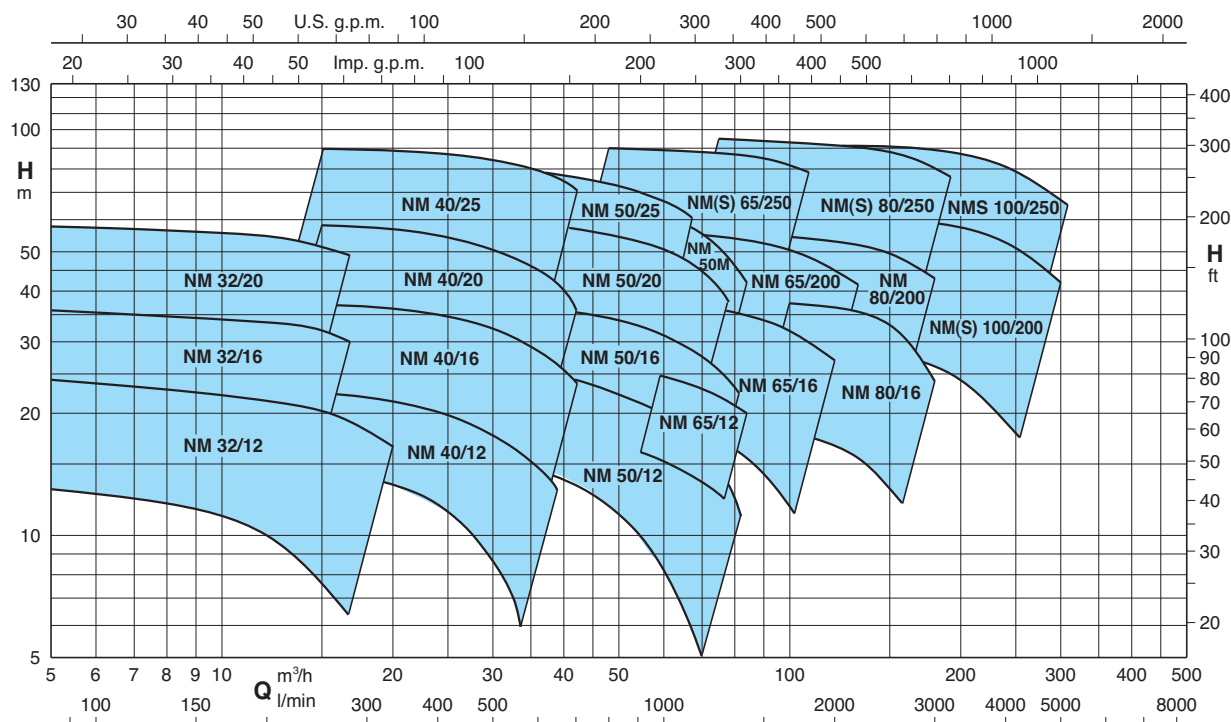
Special features on request

- 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.

Materials

Components	NM, NMS	B-NM, B-NMS
Pump casing	Cast iron	Bronze
Lantern bracket NM	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Casing cover for NMS		
Lantern bracket NMS	Cast iron GJL 200 EN 1561	
Impeller	Cast iron	Bronze
	GJL 200 EN 1561	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	Cr Ni Mo steel AISI 316
	AISI 430 from 3 kW to 75 kW	
Mechanical seal	Carbon - Ceramic - NBR	
Counter-flanges	Steel Fe 430B UNI 7070	

Coverage chart n ≈ 2900 rpm



Performance n ≈ 2900 rpm

B-NM	NM	P ₂		Q	6,6	7,5	8,4	9,6	10,8	12	13,2	15	16,8	18,9	21	24	27	30
		kW	HP	m³/h 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	P ₂		Q	15	16,8	18,9	21	24	27	30	33	37,8	39	42	45	48	54
		kW	HP	m³/h 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 40/20B/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 40/20A/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	P ₂		Q	24	27	30	33	37,8	42	48	54	60	66	69	72	75	78	81	84
		kW	HP	m³/h 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 50/16B/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 50/16A/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 50/20B/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 50/20A/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 50/20S/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	P ₂		Q	37,8	42	48	54	60	66	75	84	96	108	120	132	150	168
		kW	HP	m³/h 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*				

Performance $n \approx 2900$ rpm

B-NM - B-NMS	NM - NMS	P ₂		Q	75	84	96	108	120	132	150	168	180	192	210	240	270	300
				m³/h														
		kW	HP	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	H m	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		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 ISO 9906, annex A.

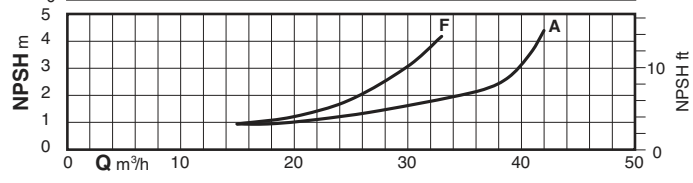
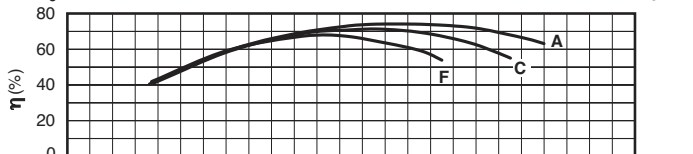
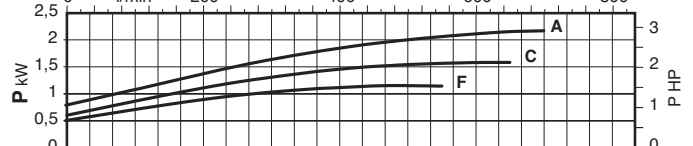
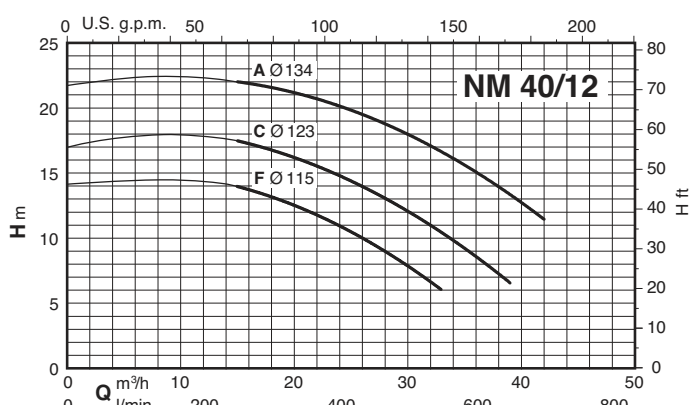
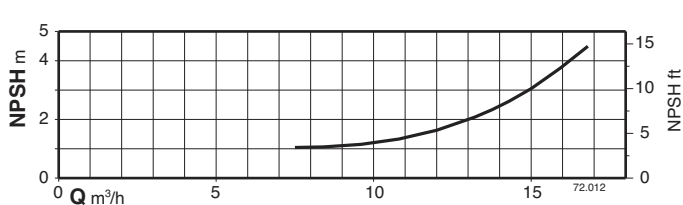
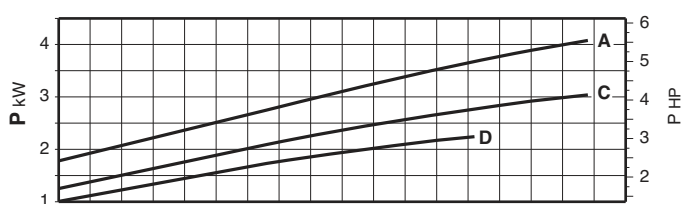
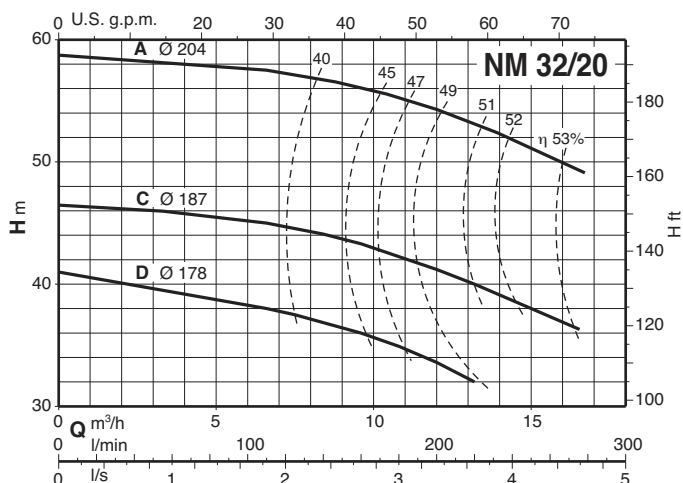
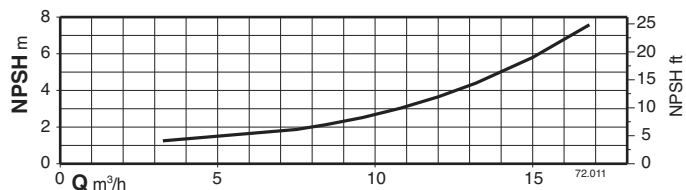
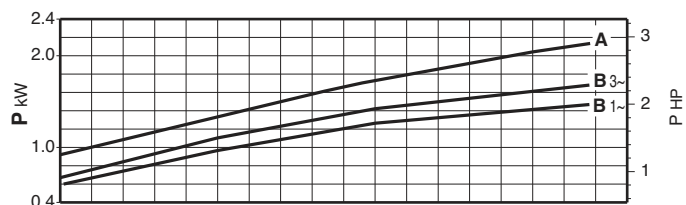
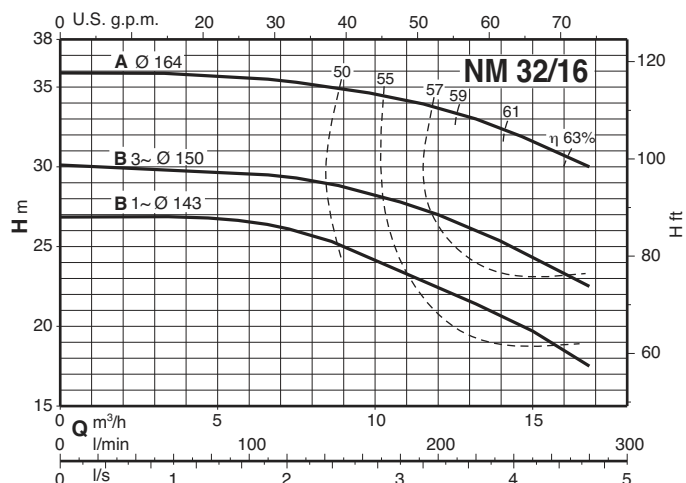
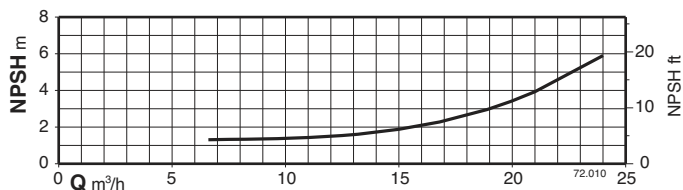
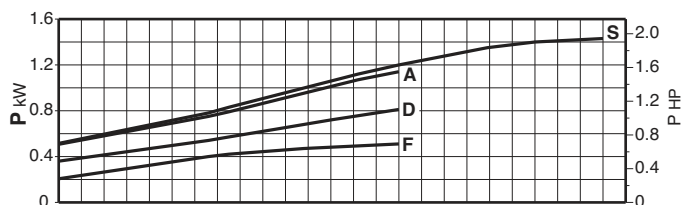
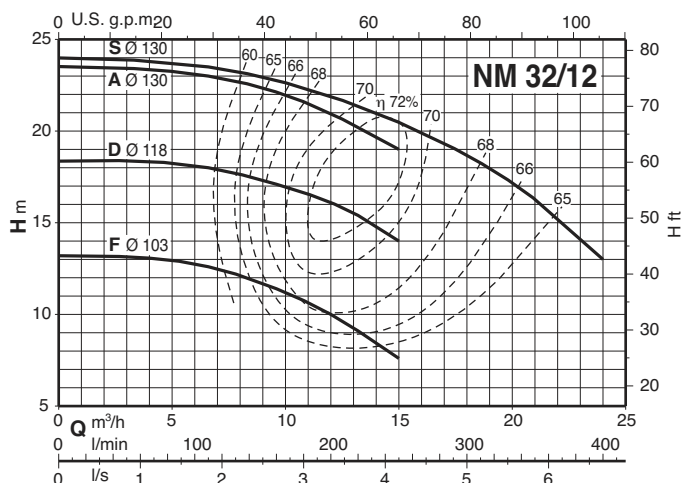
Rated currents

P ₂		230V Δ / 400V Y 400V Δ / 690V Y			I _A /I _N
kW	HP	I _N A	I _N A	I _N A	
0,55	0,75	3	1,7		4,3
0,75	1	3,3	1,9		5,8
1,1	1,5	4,7	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

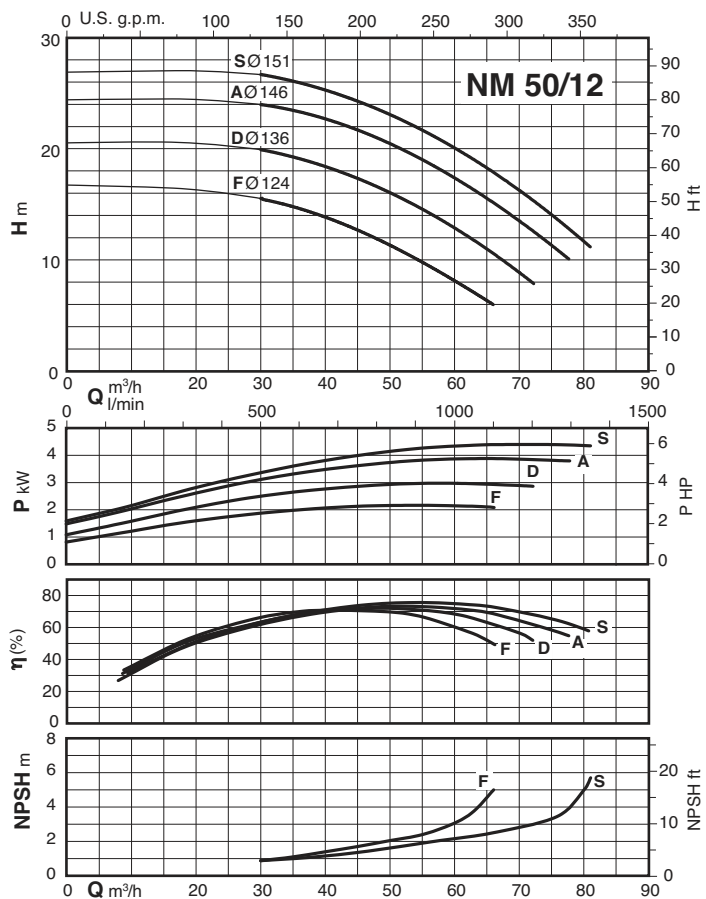
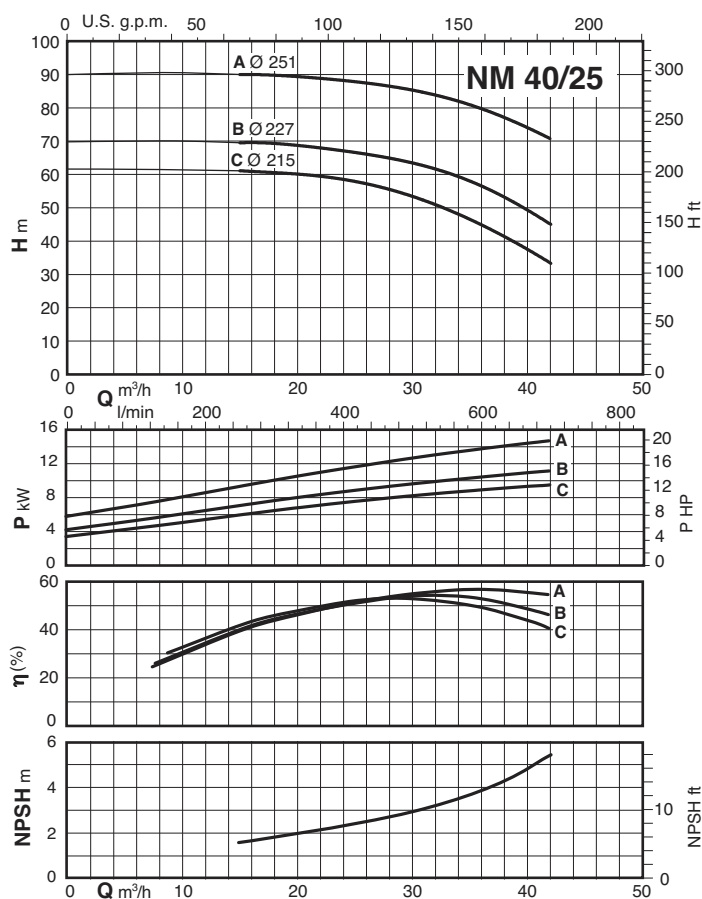
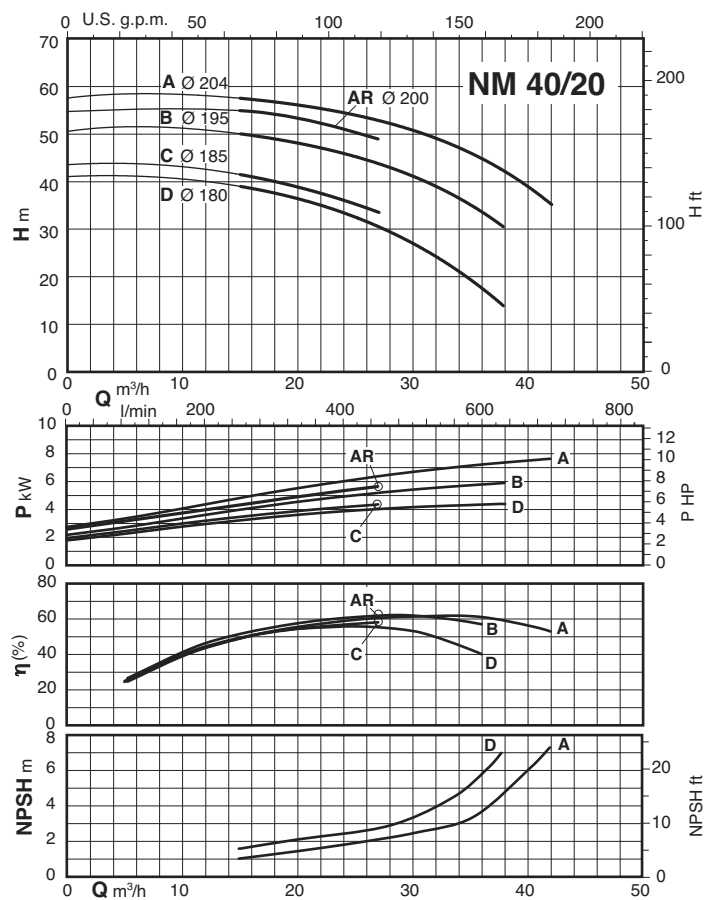
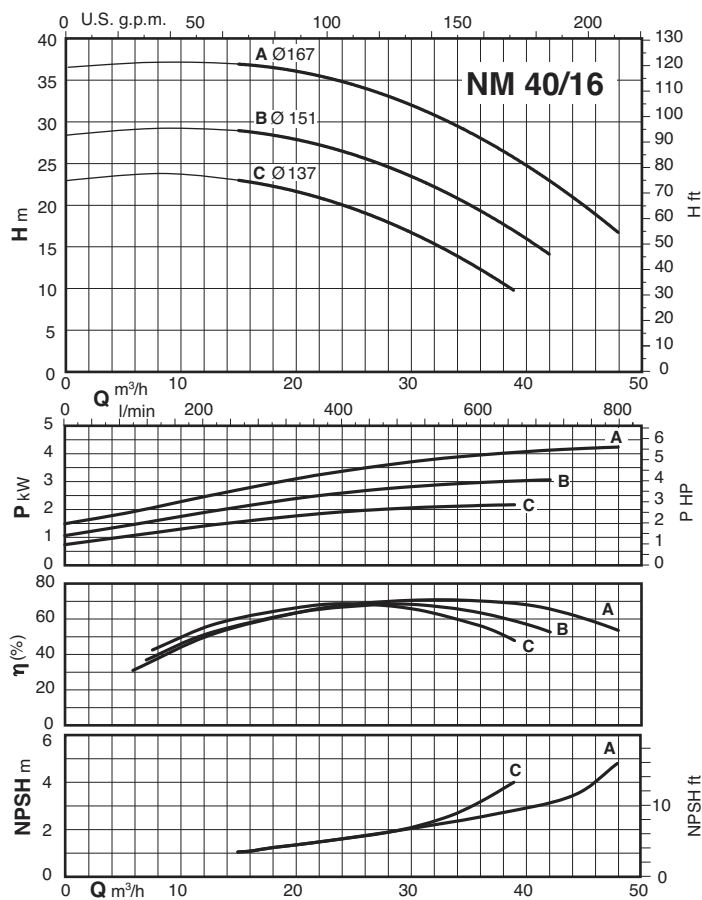
P₂ Rated motor power output.

I_A/I_N D.O.L. starting current / Nominal current

Characteristic curves $n \approx 2900$ rpm

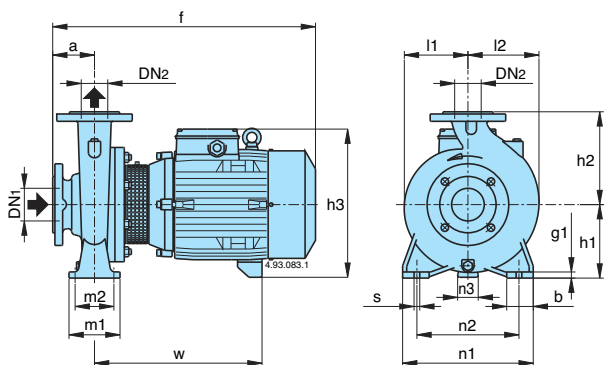


Characteristic curves $n \approx 2900$ rpm

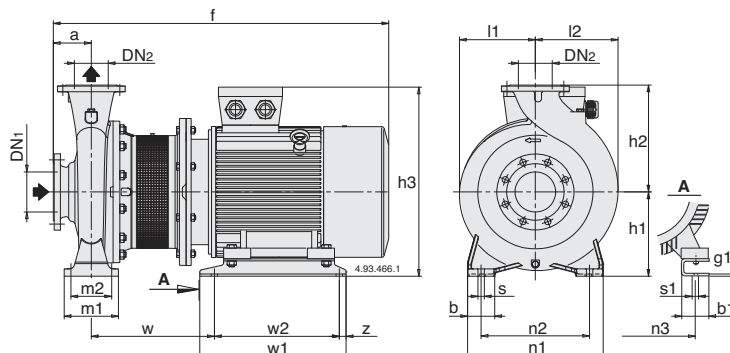


Dimensions and weights

1

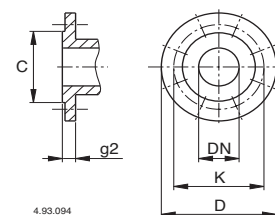


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Picture	NM	mm																			kg
		DN1	DN2	a	f	h1	h2	h3	m1	m2	n1	n2	n3	z	b	s	l1	l2	w	g1	
1	NM 32/12SE-AE-DE-FE	50	32	80	405	112	140	240	100	70	190	140	37	-	50	14	93	97	245	12	27-25-24-24
	NM 32/16BE				410														250		34
	NM 32/16A/A	50	32	80	450	132	160	260	100	70	240	190	47	-	50	14	120	120	290	12	39
	NM 32/20D/A				450			288					62						290		42
	NM 32/20C/A	50	32	80	475	160	180	298	100	70	240	190	60	-	50	14	140	140	295	12	52
	NM 32/20A/A				475			298					60						295		52,5
	NM 40/12C/A-F/A	65	40	80	410	112	140	240	100	70	210	160	37	-	50	14	100	113	250	12	29-27
	NM 40/12A/B				450														290		34
	NM 40/16C/B				450			260					47						290		39
	NM 40/16B/B	65	40	80	475	132	160	270	100	70	240	190	45	-	50	14	119	119	295	12	48
	NM 40/16A/B				475			270					45						295		49,5
	NM 40/20C/A-D/A				495			298					60						295		55,5-55,5
	NM 40/20A/A-AR/A-B/A	65	40	100	525	160	180	320	100	70	265	212	49	-	50	14	140	140	320	12	72,5-66-66
	NM 40/25B/B-C/B				640														410		116-110
	NM 40/25A/B	65	40	100	715	180	225	365	125	95	320	250	50	-	65	14	175	175	460	15	145,5
	NM 50/12F/B				470			260					47						290		41
	NM 50/12D/B	65	50	100	495	132	160	270	100	70	240	190	45	-	50	14	121	137	295	12	50
	NM 50/12A/B-S/B				495			270					45						295		51,5-51,5
	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				640														410		106-100
	NM 50/20S/B	65	50	100	720	160	200	345	100	70	265	212	40	-	50	14	140	153	460	15	124,5
	NM 50/25C/B				645														415		126
	NM 50/25B/B	65	50	100	720	180	225	365	125	95	320	250	50	-	65	14	175	175	465	15	144,5
	NM 50/25A/B				720														465		153
	NM 50M/E/A				700																135
	NM 50M/D/A	65	50	100	750	192	225	377	298	258	262	216	-	20	69	12	175	175	239	6*	151
	NM 50M/C/A				775																165
	NM 65/12E/A				495			298					60						295		55,5
	NM 65/12A/A-C/A	80	65	100	525	160	180	320	125	95	280	212	49	-	65	14	134	156	320	15	73,5-68
	NM 65/16D/A-E/A				525			320					49						320		75-70
	NM 65/16B/A-C/A	80	65	100	640	160	200	345	125	95	280	212	40	-	65	14	150	172	410	15	106-100
	NM 65/16A/A				715			345					40						460		133,5
	NM 65/20C/A																				139,5
	NM 65/20B/A	80	65	100	715	180	225	365	125	95	320	250	50	-	65	14	155	175	460	15	145
4	NM 65/200A/A	80	65	100	825	202	225	408	400	360	344	254	-	20	90	14	155	175	245	42*	185
	NM 65/250B/A-C/A	80	65	100	825	202	250	408	400	360	344	254	-	20	90	14	175	190	245	42*	201-195
1	NM 80/16E/A				545			340					60						320		83,5
	NM 80/16C/A-D/A				670			365					50						415		113-108
	NM 80/16B/A	100	80	125	745	180	225	365	125	95	320	250	50	-	65	14	165	193	465	15	142,5
	NM 80/16A/A				745			365					50						465		150
4	NM 80/200A/A-B/A	100	80	125	850	202	250	408	400	360	344	254	-	20	90	14	170	194	245	42*	200-194
	NM 80/250D/A-E/A	100	80	125	850	202	280	408	400	360	344	254	-	20	90	14	191	210	245	42*	209-203
	NM 100/200E/A				800			377					216						239	6	179
	NM 100/200C/A-D/A	125	100	125	850	192	280	408	400	360	344	254	-	20	90	14	180	212	245	42*	201-195

Flanges EN 1092-2



mm					
DN	C	K	D	Holes N° 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

Picture	NMS	mm																				kg		
		DN1	DN2	a	f1	f	h1	h2	h3	m1	m2	n1	n2	n3	b	b1	s	s1	l1	l2	w		w1	w2
2	NMS 65/250A	80	65	100	373	1032	200	250	505	160	120	360	280	318	80	83	18	19	175	190	406	355	305	
	NMS 80/250C	100	80	125	398	1057	200	280	505	160	120	400	315	318	80	83	18	19	200	210	406	355	305	
	NMS 80/250B	100	80	125	421	1130	225	280	550	260	220	410	315	356	80	80	18	19	225	225	445	361	286	
	NMS 80/250A				451	1198	250		642					406		100		24	275	275	619	409	349	
	NMS 100/200B	125	100	125	398	1057	200	280	505	160	120	360	280	318	80	83	18	19	200	212	406	355	305	
	NMS 100/200A	125	100	125	421	1130	250	280	550	260	220	410	315	356	80	80	18	19	225	225	445	361	286	
	NMS 100/250B					1213	250		642					406		100		24			494	409	349	
	NMS 100/250A	125	100	125	466	1286	280	280	712	260	220	410	315	457	80	100	18	24	275	275	516	479	368	

Pumps with packed gland, dimensions available on request.