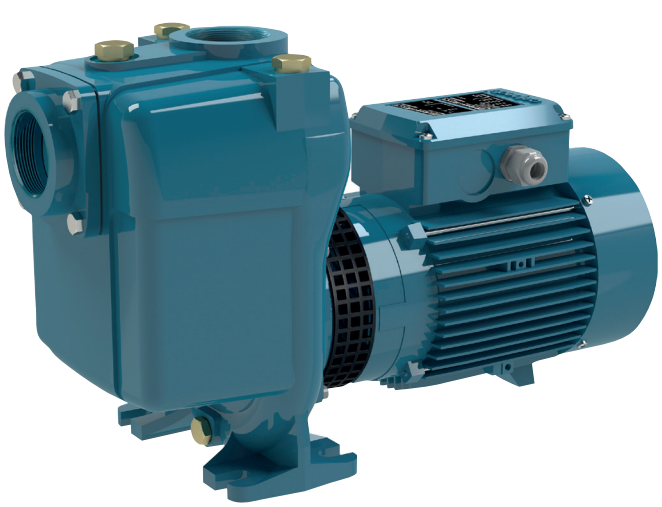
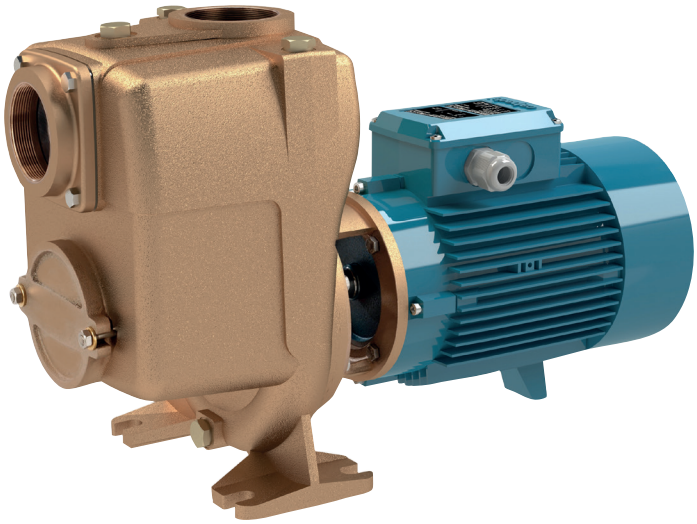
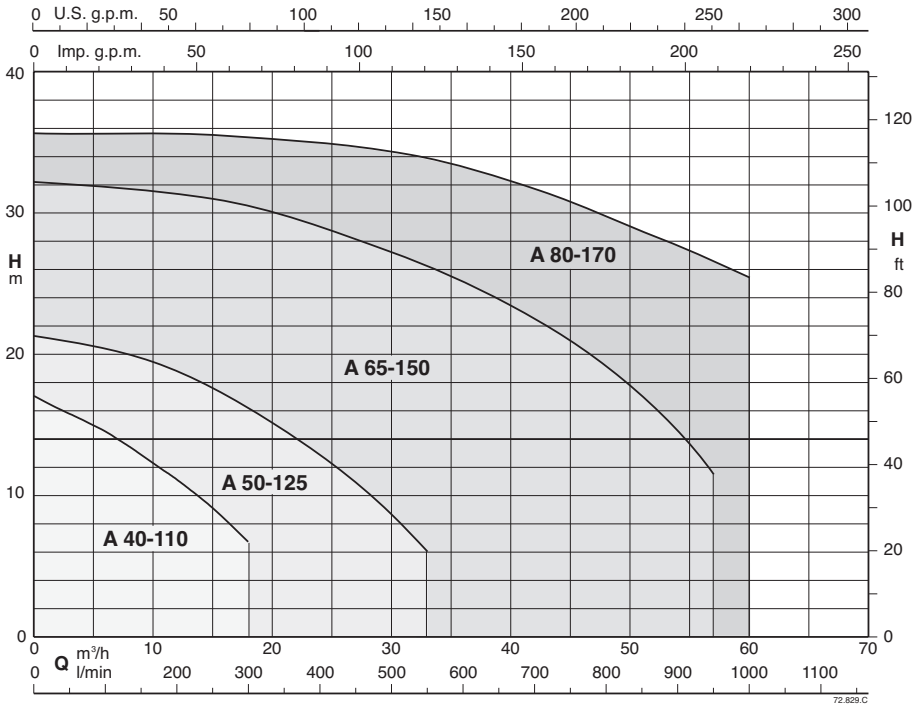
A 60 Hz





Coverage chart n ≈ 2900 rpm



Self-priming pumps with open impeller

A 60 Hz

Construction

Close-coupled centrifugal pumps with open impeller.
The built-in backflow preventer
avoids reverse siphoning when the pump is stopped and assures automatic re-priming at the next start.
The pump re-primes itself even if partially filled with liquid and with completely empty suction pipe.
A: version with pump casing and lantern bracket in cast iron.
B-A: version with pump casing and lantern bracket in bronze.
The pumps are supplied fully painted.

Applications

For clean or slightly dirty water, also with solids up to 10 mm grain size for A 40, A 50 and 15 mm for A 65, A 80.
For draining a basin or a sump.
For irrigation.
For civil and industrial applications.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40° C.
Maximum permissible working pressure up to 6 bar (10 bar for A 80-170).
Continuous duty (S3 60% for single-phase pump to 1,5 kW).

Motor

2-pole induction motor, 60 Hz (n ≈ 3450 rpm).
A: three-phase 220/380 V, 220/440 V, up to 3 kW.
380/660 V, from 4 to 11 kW;
AM: single-phase 110 V, 127 V, 220 V, 110/220 V
with thermal protector up to 1.1 kW 220V only.
Capacitor inside the terminal box.
Insulation class F.
Protection IP54
Classification scheme IE3 for three-phase motors from 0,75 kW.
- Constructed in accordance with EN 60034-1; EN 60034-30-1.
EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
Frequency 60 Hz (as per 60 Hz data sheet).
IP protection: IP55
Special mechanical seal
Higher or lower liquid or ambient temperatures.
Construction with bearing bracket.

Designation

Example: BAM 40-/110B-60/A
B = Bronze version (no indication: the pump is in the Cast Iron version)
A = Series
M = Single-phase version (no indication: three-phase)
40 = Delivery port diameter in mm
110 = Nominal impeller diameter
B = Impeller diameter
/A = It refers to a revision
60 = Frequency 60 Hz

Materials

Components	A	BA
Pump casing	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
cylindrical suction	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Inspection cover (A65, A80)	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Lantern bracket	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Impeller	Cast iron GJL 200 EN 1561	Bronze CC480K EN 1982
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)	Stainless Steel 1.4401 EN 10088 (AISI 316)
	Steel 1.4104 EN 10088 (AISI 430F) for A 40-110, A 65-150A,B	Stainless Steel 1.4401 EN 10088 (AISI 316)
Mechanical seal	Carbon - Ceramic - NBR	Carbon - Ceramic - NBR

A 60 Hz

Performance n ≈ 3450 1/min

Three-phase

						Q = Flow										
						m³/h	0	3,6	4,8	6	7,5	8,4	9,6	10,8	12	15	18
Model		220V	380V	P2		l/min		60	80	100	125	140	160	180	200	250	300
		A		kW	HP	H (m) = Total head											
BA	A 40-110B-60/A	3,6	2,1	0,55	0,75		14,3	12,5	12	11,3	10,5	10	9,4	8,6	7,8	5,4	-
BA	A 40-110A-60/B	4,5	2,6	0,75	1		17,1	15,4	14,9	14,2	13,3	12,9	12,1	11,3	10,5	8,4	5,6

Single-phase

						Q = Flow											
						m³/h	0	3,6	4,8	6	7,5	8,4	9,6	10,8	12	15	18
Model		220V	P2		P1	l/min		60	80	100	125	140	160	180	200	250	300
		A	kW	HP	kW	H (m) = Total head											
BAM	AM 40-110B-60/A	5,2	0,55	0,75	1,08		14,3	12,5	12	11,3	10,5	10	9,4	8,6	7,8	5,4	-
BAM	AM 40-110A-60/A	6,9	0,75	1	1,45		17,1	15,4	14,9	14,2	13,3	12,9	12,1	11,3	10,5	8,4	5,6

Three-phase

						Q = Flow											
						m³/h	0	6	9	12	15	18	21	24	27	30	33
Model		220V	380V	P2		l/min		100	150	200	250	300	350	400	450	500	550
		A		kW	HP	H (m) = Total head											
BA	A 50-125CE-60	4,8	2,8	0,75	1		14,6	13,5	13	12	11	9,5	8	6	4	-	-
BA	A 50-125B-60/A	5,7	3,3	1,1	1,5		17,3	16,5	16	15	13,5	12	10,5	9	7	5	-
BA	A 50-125A-60/A	9	5,2	1,5	2		21,4	20	19,5	18,5	17,5	16	14,5	13	11	9	6

Single-phase

						Q = Flow											
						m³/h	0	6	9	12	15	18	21	24	27	30	33
Model		220V	P2		P1	l/min		100	150	200	250	300	350	400	450	500	550
		A	kW	HP	kW	H (m) = Total head											
BAM	AM 50-125CE-60	7	0,75	1	1,48		14,6	13,5	13	12	11	9,5	8	6	4	-	-
BAM	AM 50-125BE-60	8,5	1,1	1,5	1,8		17,3	16,5	16	15	13,5	12	10,5	9	7	5	-
BAM	AM 50-125AE-60	11	1,5	2	2,35		21,4	20	19,5	18,5	17,5	16	14,5	13	11	9	6

Three-phase

							Q = Flow										
							m³/h	0	15	18	24	30	33	36	42	48	54	57
Model		220V	380V	660V	P2		l/min		250	300	400	500	550	600	700	800	900	950
		A			kW	HP	H (m) = Total head											
BA	A 65-150C-60/B	13,4	7,7	-	2,2	3		21,4	19,5	19	17	15,5	14,5	13	11	6,5	-	-
BA	A 65-150B-60/B	13,4	7,7	-	3	4		24	22,5	21,5	20	18,5	17	16	13,5	10	5	-
BA	A 65-150A-60/C	-	11,2	6,5	4	5,5		32,4	31	30,5	29	27	26	25	22,5	19	15	11,5

Three-phase

						Q = Flow									
						m³/h	0	15	18	21	24	30	36	45	54	60
Model		380V	660V	P2		l/min		250	300	350	400	500	600	750	900	1000
		A		kW	HP	H (m) = Total head										
BA	A 80-170B-60/A	13,7	7,9	5,5	7,5		30,2	29,9	29,8	29,7	29,3	28,2	26,6	23,8	20,3	17,3
BA	A 80-170A-60/A	17	9,8	7,5	10		35,7	35,5	35,5	35,2	35	34,4	33,2	30,9	27,6	25,4

P1: Maximum power input.
P2: Rated motor power output.

Tolerances according to UNI EN ISO 9906:2012

A 60 Hz

Rated current for special voltages

Single-phase

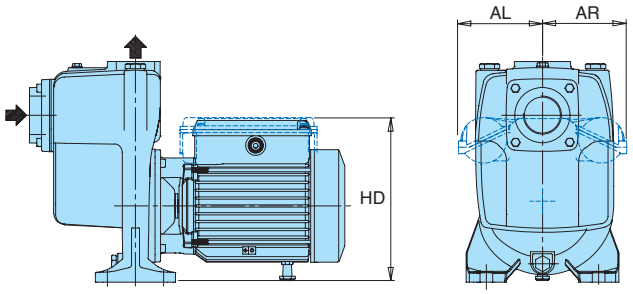
TYPE	P2		monofase 1~			
			127 V	110 V	110/220V	
	kW	HP	In A	In A	In A	Ia/In:
	0.55	0.75	9	10.4	9.2/4.7	3.1
AM 40-100A-60/A	0.75	1	12	13.8	12.5/6.4	2.9
AM 50-125CE-60	0.75	1	11.3	13	-	2.9
	1.1	1.5	14.7	-	-	3
	1.5	2	-	-	-	3.8

Three-phase

TYPE	P2		trifase 3~	
			220V Δ/ 440V Y	
	kW	HP	In A	Ia/In:
	0.55	0.75	3,8/2,2	3.7
A 40-100A-60/A	0.75	1	4,7/2,7	5.6
A 50-125CE-60	0.75	1	4,2/2,4	7.3
	1.1	1.5	6/3,5	5.4
	1.5	2	9,4/5,5	6.1
	2.2	3	11,6/6,7	8.4
	3	4	14,0/8,1	8.4
	4	5.5	-	9.2
	5.5	7.5	-	8.7
	7.5	10	-	9.2

Ia/In: D.O.L. starting current / Nominal current

Dimensions for special voltages



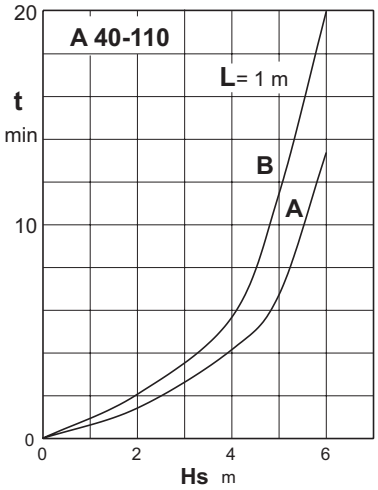
TYPE	Filettatura	HD	AL mm			AR mm		
	NPT	mm	127V	110V	110/220V	127V	110V	110/220V
(B)-AM 40-110B-60/A	#	187	•	•	116	-	-	-
(B)-AM 40-110A-60/A	#	187	116	116	131	-	-	-
(B)-AM 50-125CE-60	#	228	-	-	-	116	131	$
(B)-AM 50-125BE-60	#	228	-	-	-	131	$	$
(B)-AM 50-125AE-60	#	228	-	-	-	$	$	$

• Standard dimensions
$ Cannot constructed
# On request version

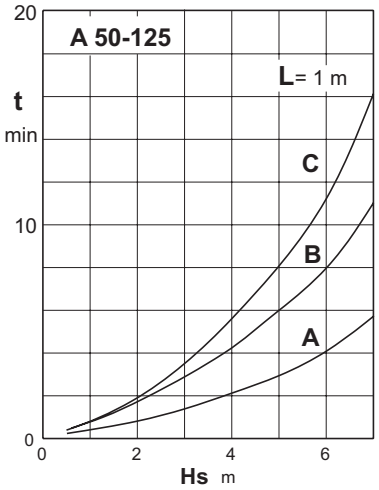
A 60 Hz

Self-Priming Capability with the pump located above the water level

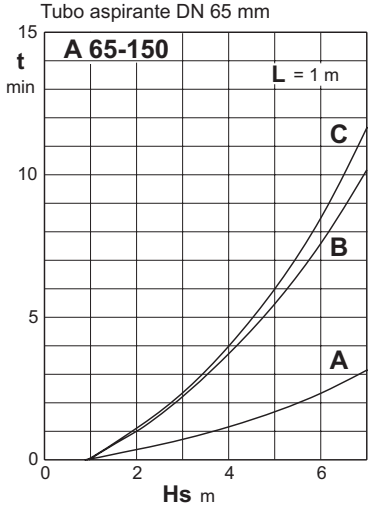
Tubo aspirante DN 40 mm



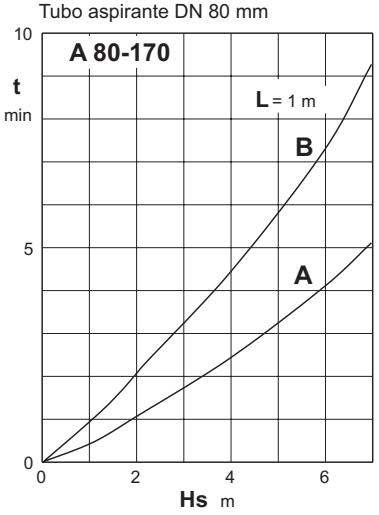
Tubo aspirante DN 50 mm



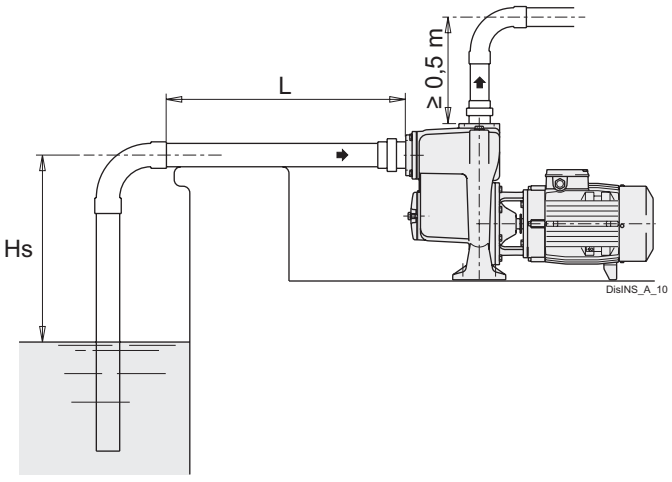
Tubo aspirante DN 65 mm



Tubo aspirante DN 80 mm

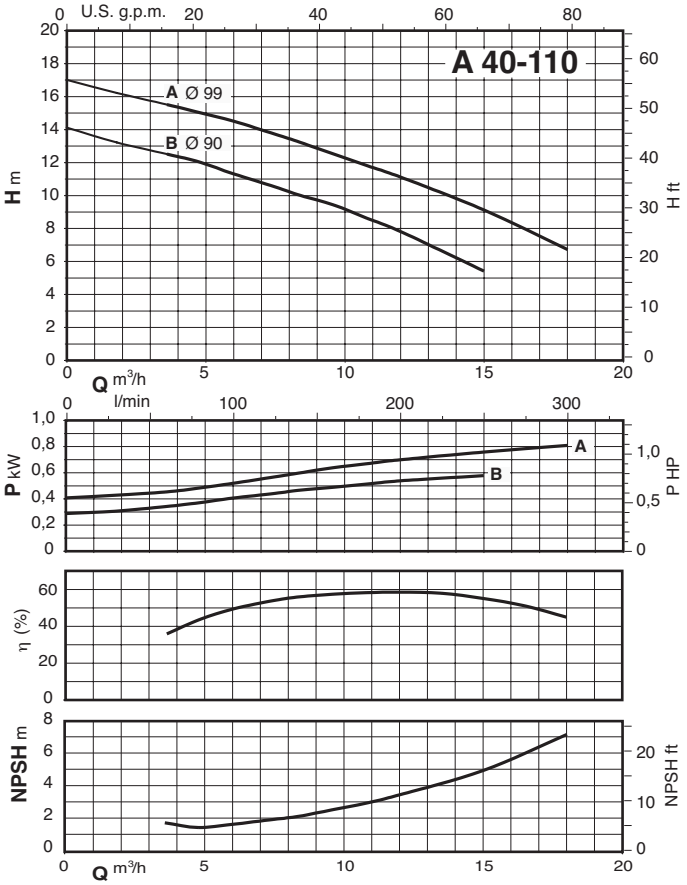


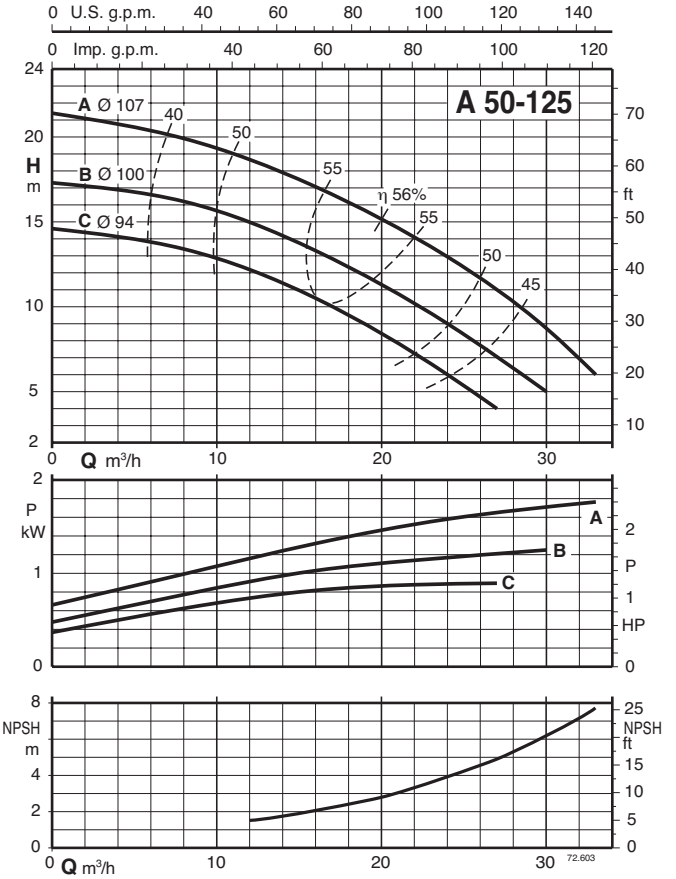
Hs (m) Suction lift.
L (m) Horizontal length of suction pipe above the water level.
t (min) Self-priming time.
Test results with cold water

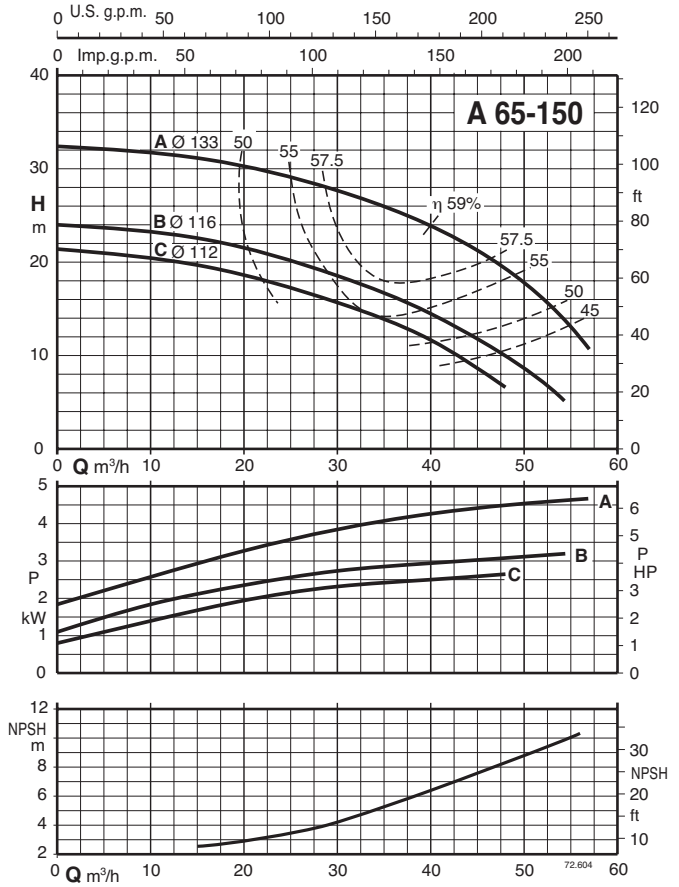


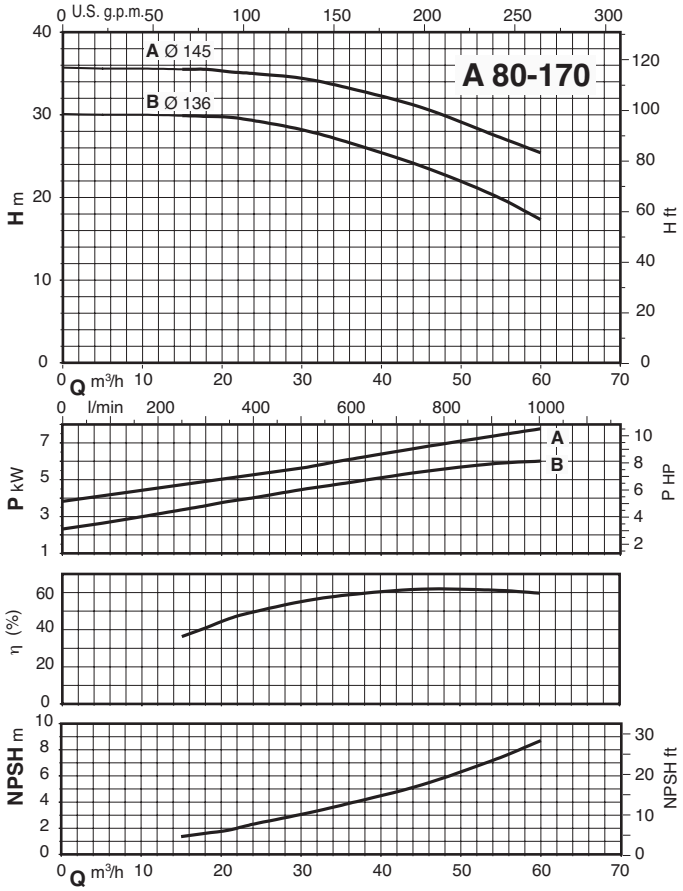
A 60 Hz

Characteristic curves n ≈ 3450 rpm



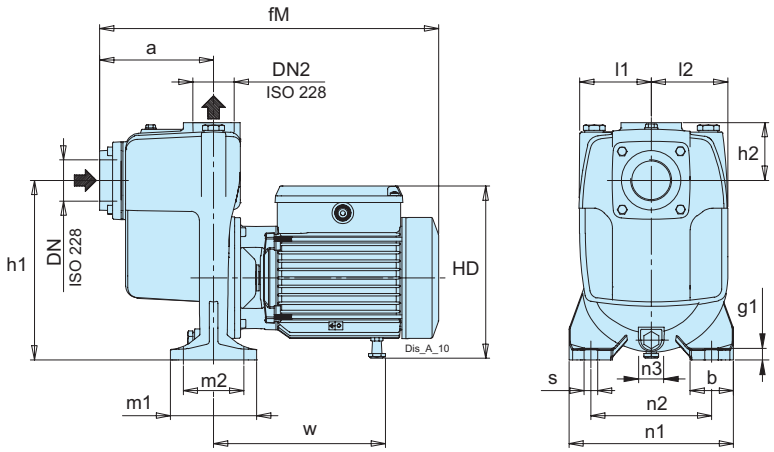






A 60 Hz

Dimensions and weight



TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l1	l2	m1	m2	n1	n2	n3	s	w	Weight
A 40-110B-60/A	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	19.5
A 40-110A-60/B	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	20.7
A 50-125CE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	26.2
A 50-125B-60/A	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	28.3
A 50-125A-60/A	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	29.7

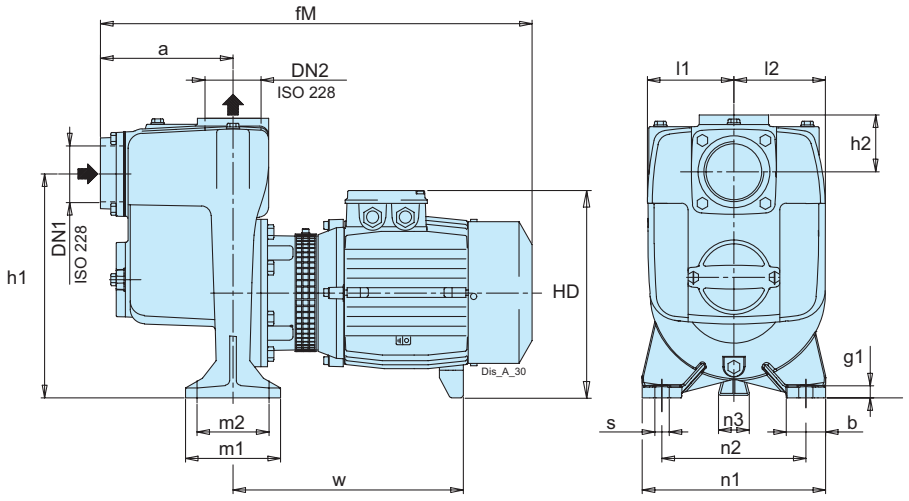
TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l1	l2	m1	m2	n1	n2	n3	s	w	Weight
AM 40-110B-60/A	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	19.7
AM 40-110A-60/A	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	20.9
AM 50-125CE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	27
AM 50-125BE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	28.2
AM 50-125AE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	29.9

TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l1	l2	m1	m2	n1	n2	n3	s	w	Weight
BA 40-110B-60/A	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	21.6
BA 40-110A-60/B	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	23.3
BA 50-125CE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	30.7
BA 50-125B-60/A	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	32.7
BA 50-125A-60/A	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	-

TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l1	l2	m1	m2	n1	n2	n3	s	w	Weight
BAM 40-110B-60/A	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	22.6
BAM 40-110A-60/A	G 1 1/2	G 1 1/2	132	50	393	12	208	67	206	83	89	100	70	190	140	-	16	199	23.5
BAM 50-125CE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	32.3
BAM 50-125BE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	33.5
BAM 50-125AE-60	G 2	G 2	147	50	490	12	231	64	223	96	102	100	70	190	140	30	16	263	34.4

A 60 Hz

Dimensions and weight



TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l1	l2	m1	m2	n1	n2	n3	s	w	Weight
A 65-150C-60/B	G 2 1/2	G 2 1/2	172	50	635	12	293	75	260	115	121	125	95	240	190	47	16	364	52
A 65-150B-60/B	G 2 1/2	G 2 1/2	172	50	595	12	293	75	270	115	121	125	95	240	190	47	16	324	52.1
A 65-150A-60/C	G 2 1/2	G 2 1/2	172	50	595	12	293	75	270	115	121	125	95	240	190	47	16	324	55.1
BA 65-150C-60/B	G 2 1/2	G 2 1/2	172	50	583	12	293	75	260	115	121	125	95	240	190	47	16	319	-
BA 65-150B-60/A	G 2 1/2	G 2 1/2	172	50	595	12	293	75	270	115	121	125	95	240	190	47	16	324	58.6
BA 65-150A-60/B	G 2 1/2	G 2 1/2	172	50	595	12	293	75	270	115	121	125	95	240	190	47	16	324	63.2

TYPE	ISO 228		mm																kg
	DN1	DN2	a	b	fM	g1	h1	h2	HD	l1	l2	m1	m2	n1	n2	n3	s	w	Weight
A 80-170B-60/A	G 3	G 3	202	60	694	16	342	85	327	132	140	145	110	280	220	49	18	366	80
A 80-170A-60/A	G 3	G 3	202	60	694	16	342	85	327	132	140	145	110	280	220	49	18	366	86
BA 80-170B-60/A	G 3	G 3	202	60	694	16	342	85	327	132	140	145	110	280	220	49	18	366	80.3
BA 80-170A-60/A	G 3	G 3	202	60	694	16	342	85	327	132	140	145	110	280	220	49	18	366	-