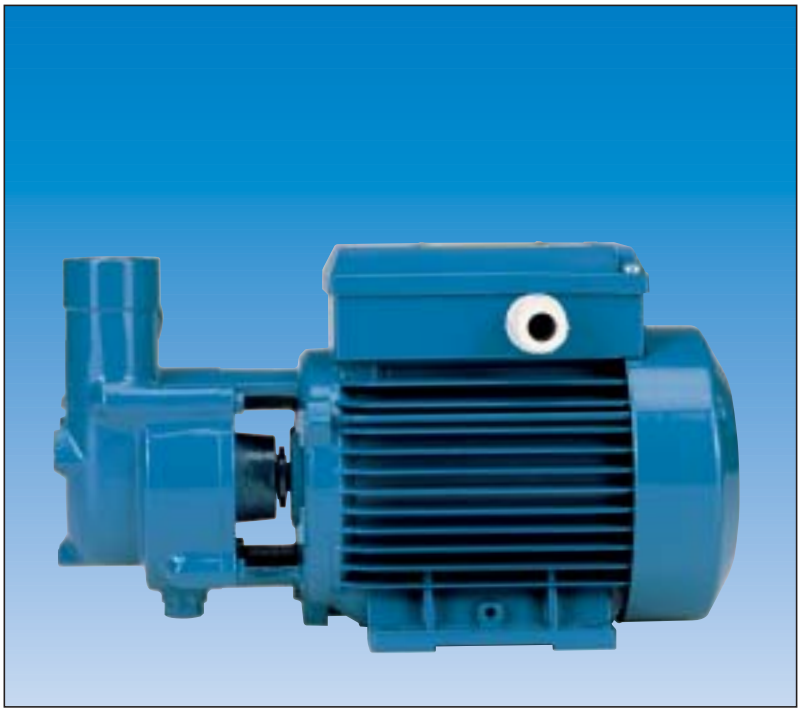


Construction
Close-coupled self-priming liquid ring pumps with star impeller.

Applications
For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials.
If the liquid to be pumped has entrained air or gas or the flow in the suction pipe is not stable.
For drawing water out of a well.
For increasing network pressure (follow local specifications).

Operating conditions
Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40 °C.
Negative suction pressure up to 9 m.
Continuous duty.

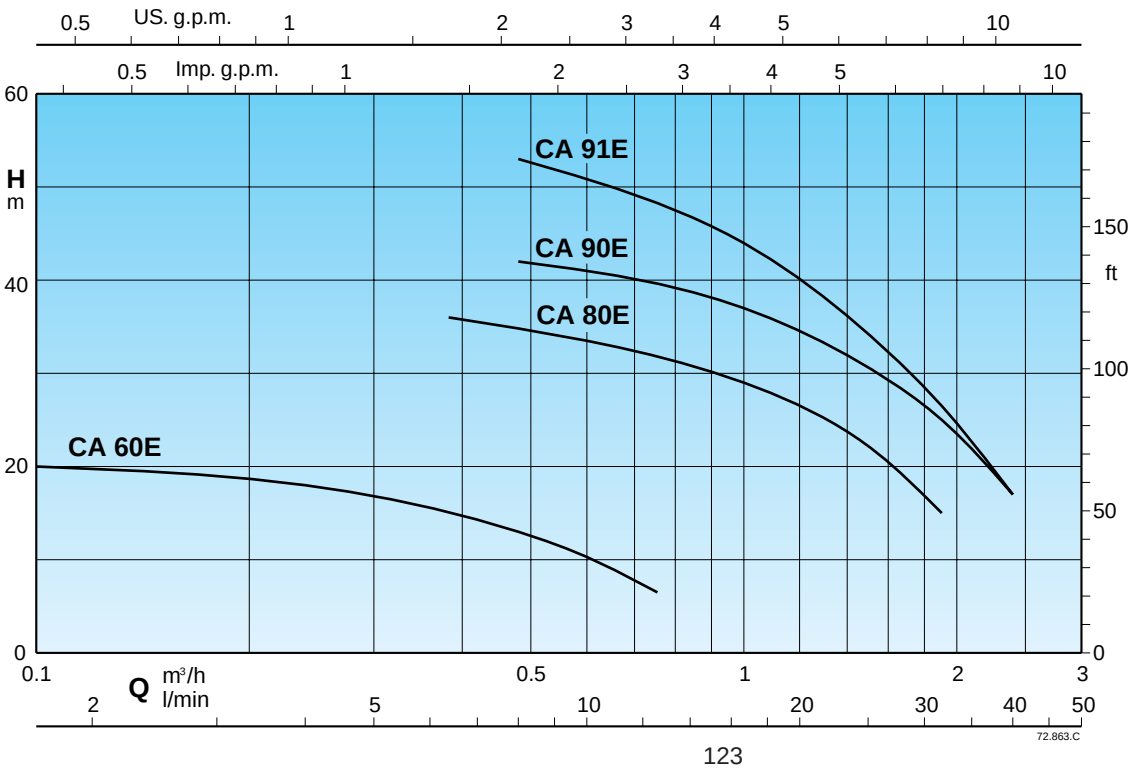
Motor
2-pole induction motor, 50 Hz (n = 2900 rpm).
CA: three-phase 230/400 V ± 10%.
CAM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Constructed in accordance with IEC 34.

Materials

Components	CA	B-CA
Pump casing Lantern bracket	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 UNI 7013
Impeller	Brass P- Cu Zn Pb 2 UNI 5705	
Shaft	Chrome steel 1.4104 EN 10088 AISI 430	Cr-Ni-Mo steel 1.4401 EN 10088 AISI 316
Mechanical seal	Carbon - Ceramic - NBR	

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.

Coverage chart *n ≈ 2900 rpm*

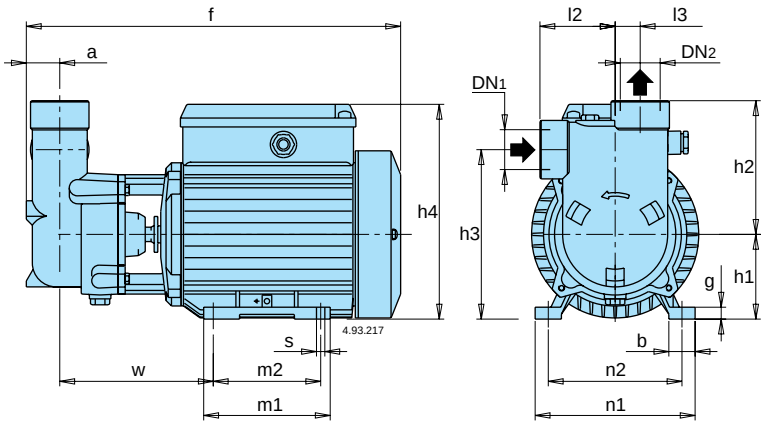


Performance $n \approx 2900$ rpm

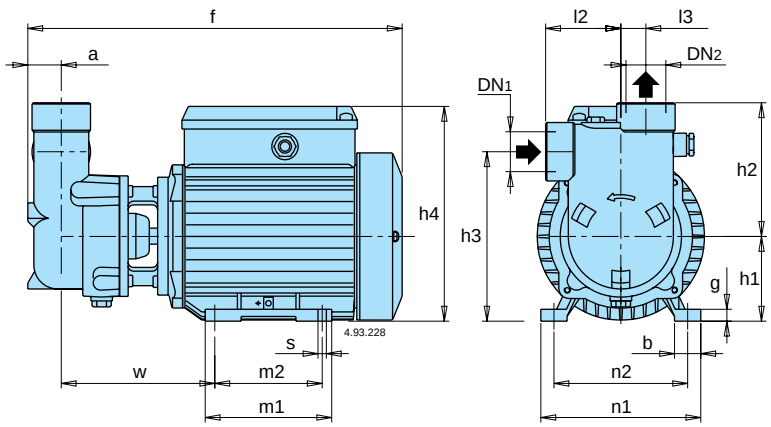
3 ~	230 V A	400 V A	1 ~	230 V A	P_1 kW	P_2 kW	P_2 HP	Q m^3/h	0,12	0,24	0,38	0,48	0,6	0,75	1	1,2	1,5	1,89	2,4
								l/min	2	4	6,3	8	10	12,5	16	20	25	31,5	40
CA 60E B-CA 60E	1,7	1	**CAM 60E** B-CAM 60E	1,6	0,26	0,15	0,2		20	18	15,5	13	10,5	6,5					
CA 80E B-CA 80E	2,8 2,3	1,6 1,3	**CAM 80E** B-CAM 80E	3,3 3,6	0,72	0,45	0,6	**H** m			36	35	33,5	31,5	29	26	22	15	
CA 90E B-CA 90E	3	1,7	**CAM 90E** B-CAM 90E	4,5	0,9	0,55	0,75					42	41	40	37	34	30	25	17
CA 91E B-CA 91E	3,7	2,2	**CAM 91E** B-CAM 91E	5,7	1,2	0,75	1					53	51	48	44	39	34	26,5	17

P_1 Maximum power input. P_2 Rated motor power output. B-CA = Bronze construction. **H** Total head in m.

Dimensions and weights



TYPE	DN1 ISO 228	DN2 ISO 228	mm a	f	h1	h2	h3	h4	m1	m2	n1	n2	b	s	l2	l3	w	g	kg CA	kg B-CA
CA 60E - B-CA 60E	G 1/2	G 1/2	18	256	63	65	103	158	96	80	122	100	22	7	45	14	103	8	6	6,8
CA 80E	G 3/4	G 3/4	23	272	63	90	126	158	96	80	122	100	22	7	55	17	109	8	7,6	-
CA 90E	G 1	G 1	28	318	71	112	142	180	106	90	134	112	22	10	63	21	128	10	10,8	-
CA 91E																			11,4	-



TYPE	DN1 ISO 228	DN2 ISO 228	mm a	f	h1	h2	h3	h4	m1	m2	n1	n2	b	s	l2	l3	w	g	kg B-CA
B-CA 80E	G 3/4	G 3/4	23	307	71	90	134	180	106	90	134	112	22	10	55	17	122	10	10
B-CA 90E	G 1	G 1	28	318	71	112	142	180	106	90	134	112	22	10	63	21	128	10	13,1
B-CA 91E																			13,9

Characteristic curves $n \approx 2900$ rpm