



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-priming 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. Room temperature up to 40 °C. Maximum permissible working pressure up to 6 bar (10 bar for A 80-170). Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).
A three-phase 230/400 V ± 10% up to 3 kW; 400/690 V ± 10% from 4 to 7,5 kW;
AM: single-phase 230 V ± 10%, with thermal protector. Capacitor inside the terminal box.
 Insulation class F.
 Protection IP 54
 Constructed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41.

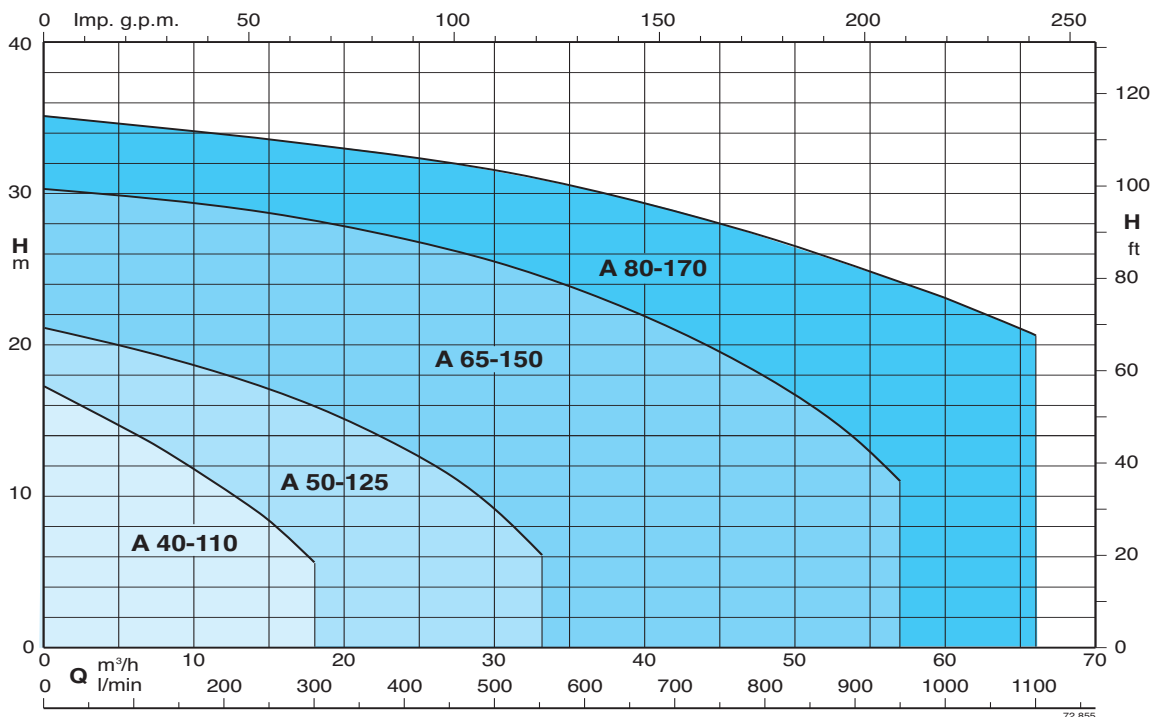
Special features on request

Other voltages. Frequency 60 Hz (as per 60 Hz data sheet). Protection IP 55. Special mechanical seal. Higher or lower liquid or ambient temperatures. Explosion proof construction in accordance with Directive 94/9 EEC (ATEX). Construction with bearing bracket.

Materials

| Components | A | B-A |
|--|---|--|
| Pump casing Suction flange Inspection cover (for A 65, A 80) Lantern bracket Impeller | Cast iron G.JL 200 EN 1561 | Bronze G-Cu Sn 10 EN 1982 |
| Shaft | Chrome-nickel steel 1.4305 EN 10088 (AISI 303) Chrome steel 1.4104 EN 10088 (AISI 430) for A 65-150 | Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316) |
| Mechanical seal | Carbon - Ceramic - NBR | |

Coverage chart n ≈ 2900 rpm





Performance $n \approx 2900$ rpm

| 3 ~ | 230 V 400 V | | 1 ~ | 230 V | | P ₁ | | P ₂ | | Q | | | | | | | | | | |
|------------------------------|-------------|-----|--------------------------------|-------|------|----------------|------|-------------------|-------|------|------|------|------|------|------|------|------|-----|----|----|
| | A | A | | A | kW | kW | HP | m ³ /h | l/min | | 3,6 | 4,8 | 6 | 7,5 | 8,4 | 9,6 | 10,8 | 12 | 15 | 18 |
| A 40-110B/A B-A 40-110B/A | 2,8 | 1,6 | AM 40-110B/A B-AM 40-110B/A | 4,5 | 0,85 | 0,55 | 0,75 | H m | 12,9 | 12,4 | 11,8 | 11 | 10,4 | 9,8 | 9 | 8,3 | 6 | 3,4 | | |
| A 40-110A/A B-A 40-110A/A | 3,5 | 2 | AM 40-110A/A B-AM 40-110A/A | 6 | 1,1 | 0,75 | 1 | | 15,4 | 14,9 | 14,2 | 13,3 | 12,9 | 12,1 | 11,3 | 10,5 | 8,4 | 5,6 | | |

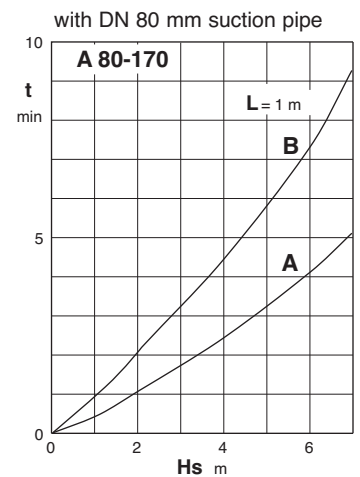
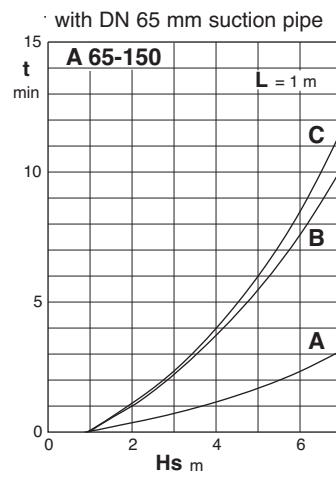
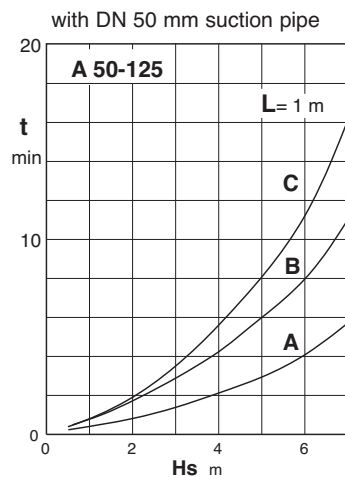
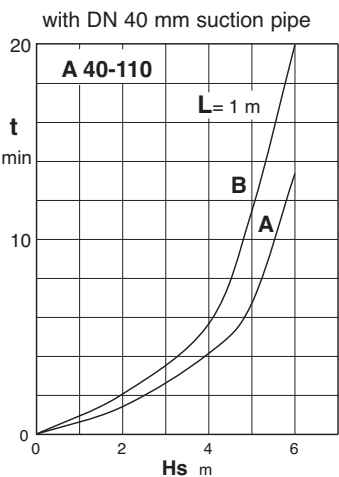
| 3 ~ | 230 V 400 V | | 1 ~ | 230 V | | P ₁ | | P ₂ | | Q | | | | | | | | | | |
|----------------------------|-------------|-----|------------------------------|-------|-----|----------------|-----|-------------------|-------|------|------|------|------|----|------|------|----|----|----|----|
| | A | A | | A | kW | kW | HP | m ³ /h | l/min | | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 |
| A 50-125CE B-A 50-125CE | 4 | 2,3 | AM 50-125CE B-AM 50-125CE | 5,8 | 1,2 | 0,75 | 1 | H m | 12,8 | 12,2 | 11,3 | 10 | 8,5 | 7 | 5,3 | 3,3 | | | | |
| A 50-125BE B-A 50-125BE | 5 | 2,9 | AM 50-125BE B-AM 50-125BE | 7,4 | 1,6 | 1,1 | 1,5 | | 15,5 | 14,9 | 14,2 | 12,9 | 11,6 | 10 | 8,3 | 6,2 | 4 | | | |
| A 50-125AE B-A 50-125AE | 7,5 | 4,3 | AM 50-125AE B-AM 50-125AE | 9,2 | 2,1 | 1,5 | 2 | | 19,5 | 19 | 18 | 17 | 15,5 | 14 | 12,5 | 10,5 | 8 | 5 | | |

| 3 ~ | 230 V 400 V | | P ₂ | | Q | | | | | | | | | | | |
|-----------------------------|-------------|-----|----------------|----|-----|-------------------|-------|------|----|------|------|------|------|------|-----|-----|
| | A | A | kW | HP | | m ³ /h | l/min | 15 | 18 | 24 | 30 | 33 | 36 | 42 | 48 | 54 |
| A 65-150C/A B-A 65-150CE | 10 | 5,8 | 2,2 | 3 | H m | 17,5 | 17 | 16 | 14 | 13 | 11,5 | 9 | 6,5 | | | |
| A 65-150B/A B-A 65-150BE | 11,5 | 6,6 | | | | 3 | 4 | 21,5 | 21 | 19,5 | 17,5 | 16,5 | 15,5 | 12,5 | 9,5 | 6,5 |
| A 65-150A/A B-A 65-150AE | - | 9,6 | | | | 4 | 5,5 | 29 | 28 | 27 | 25,5 | 24,5 | 23,5 | 21 | 18 | 14 |

| 3 ~ | 230 V 400 V | | P ₂ | | Q | | | | | | | | | | |
|--------------------------|-------------|----|----------------|-----|-----|-------------------|-------|------|------|------|------|------|------|------|------|
| | A | A | kW | HP | | m ³ /h | l/min | 15 | 18 | 21 | 24 | 30 | 36 | 45 | 54 |
| A 80-170B B-A 80-170B | - | 12 | 5,5 | 7,5 | H m | 27,3 | 27,3 | 27 | 26,8 | 25,7 | 24,4 | 22,1 | 19 | 16,7 | 13,7 |
| A 80-170A B-A 80-170A | - | 16 | | | | 33,6 | 33,2 | 32,9 | 32,5 | 31,6 | 30,5 | 28,1 | 25,3 | 23,2 | 20,4 |

P₁ Maximum power input. P₂ Rated motor power output. H Total head in m. B-A, B-AM = Bronze construction. Tolerances according to ISO 9906, annex A.

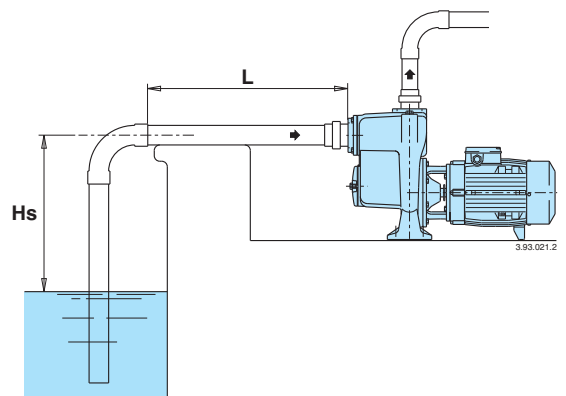
Self-priming Capability



H_s (m) Suction lift.

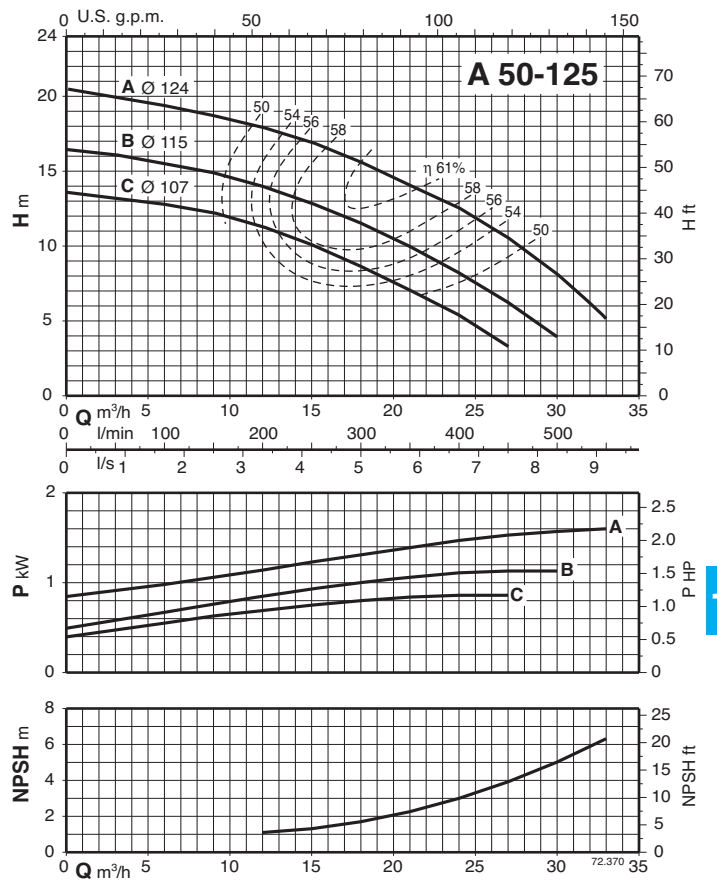
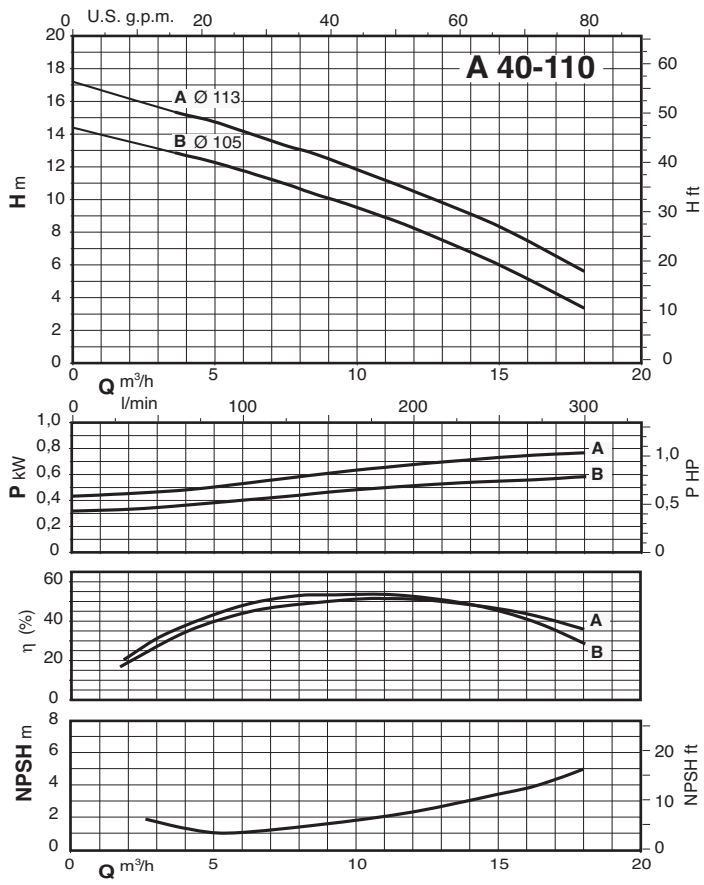
L (m) Horizontal length of suction pipe above the water level.

t (min) Self-priming time.

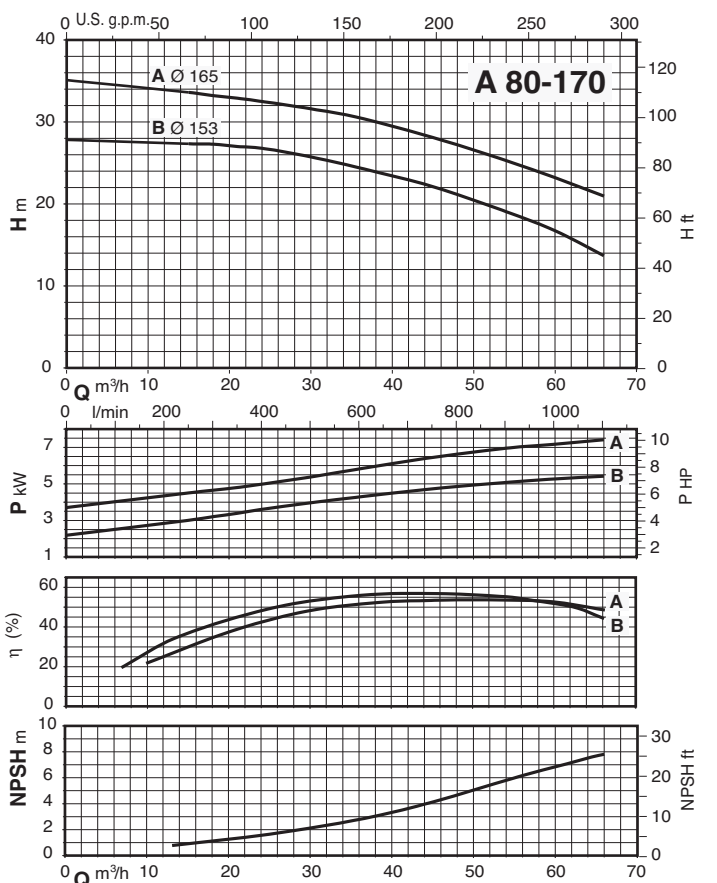
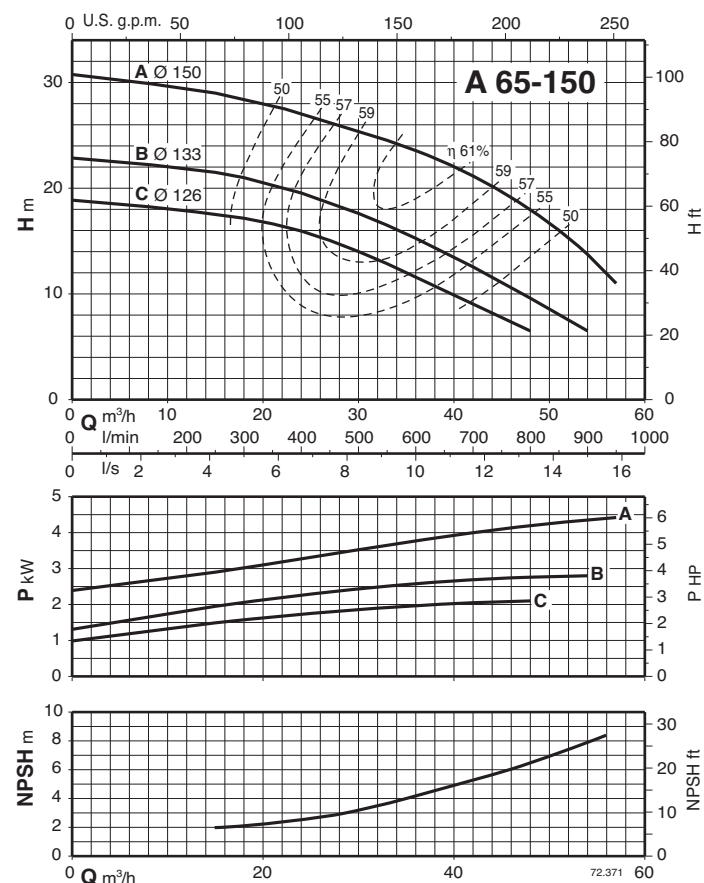




Characteristic curves $n \approx 2900$ rpm

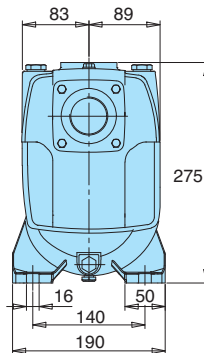
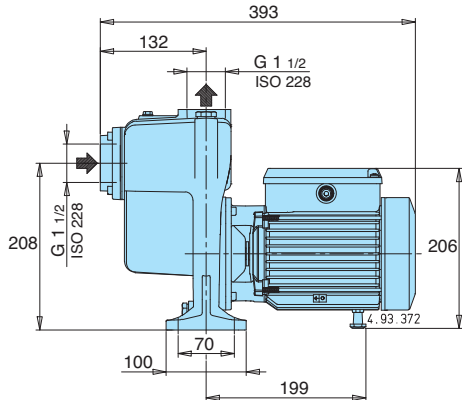


17

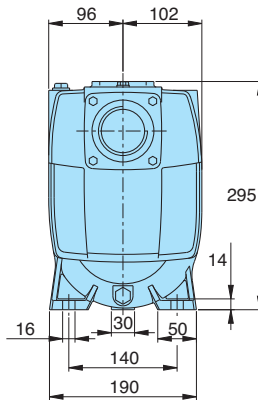
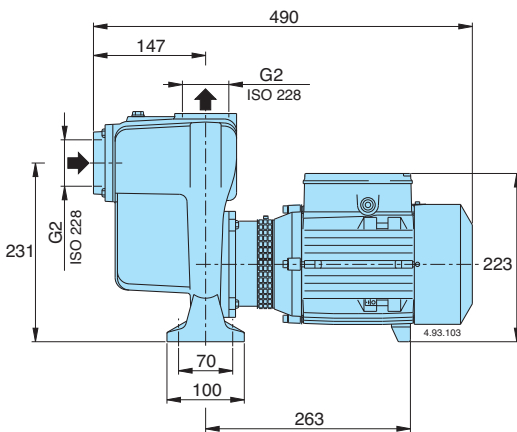




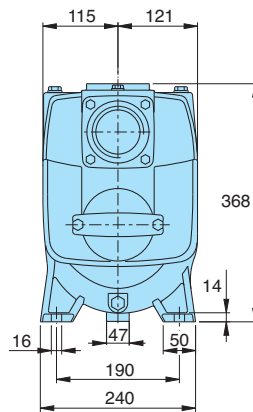
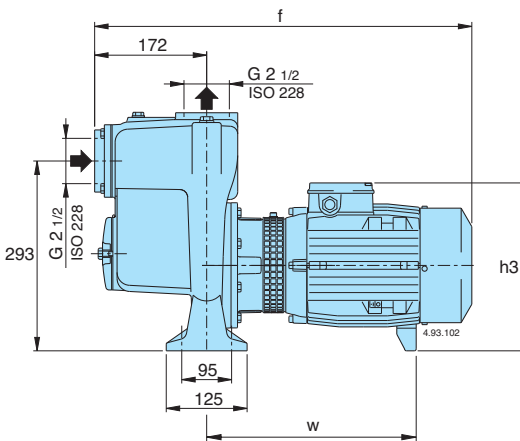
Dimensions and weights



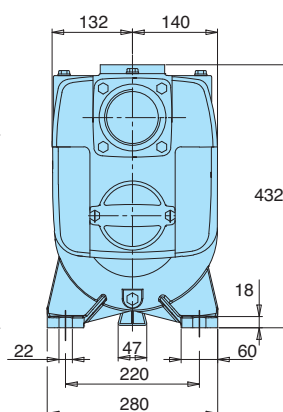
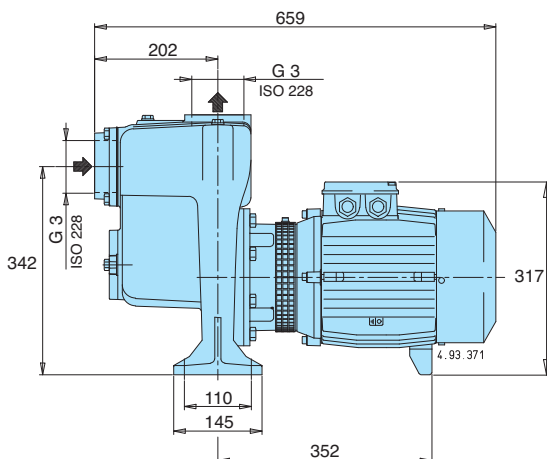
| | kg |
|----------------|------|
| A 40-110A/A | 19,8 |
| AM 40-110A/A | 20,8 |
| A 40-110B/A | 18,9 |
| AM 40-110B/A | 19,8 |
| B-A 40-110A/A | 22,5 |
| B-AM 40-110A/A | 23,5 |
| B-A 40-110B/A | 21,6 |
| B-AM 40-110B/A | 22,5 |



| | kg |
|---------------|------|
| A 50-125AE | 29,9 |
| AM 50-125AE | 31 |
| A 50-125BE | 28 |
| AM 50-125BE | 29,1 |
| A 50-125CE | 26,9 |
| AM 50-125CE | 27,8 |
| B-A 50-125AE | 33,6 |
| B-AM 50-125AE | 33,6 |
| B-A 50-125BE | 31 |
| B-AM 50-125BE | 32,6 |
| B-A 50-125CE | 29,6 |
| B-AM 50-125CE | 30,6 |



| TYPE | mm | | | kg |
|--------------|-----|-----|-----|------|
| | f | h3 | w | |
| A 65-150C/A | 595 | 260 | 324 | 53,8 |
| B-A 65-150CE | 543 | 260 | 279 | 47,5 |
| A 65-150B/A | 595 | 260 | 324 | 54 |
| B-A 65-150BE | 595 | 260 | 324 | 55,5 |
| A 65-150A/A | 595 | 260 | 324 | 58 |
| B-A 65-150AE | 595 | 260 | 324 | 59,5 |



| | kg |
|-------------|------|
| A 80-170A | 85,3 |
| A 80-170B | 79,3 |
| B-A 80-170A | 95,1 |
| B-A 80-170B | 89,1 |