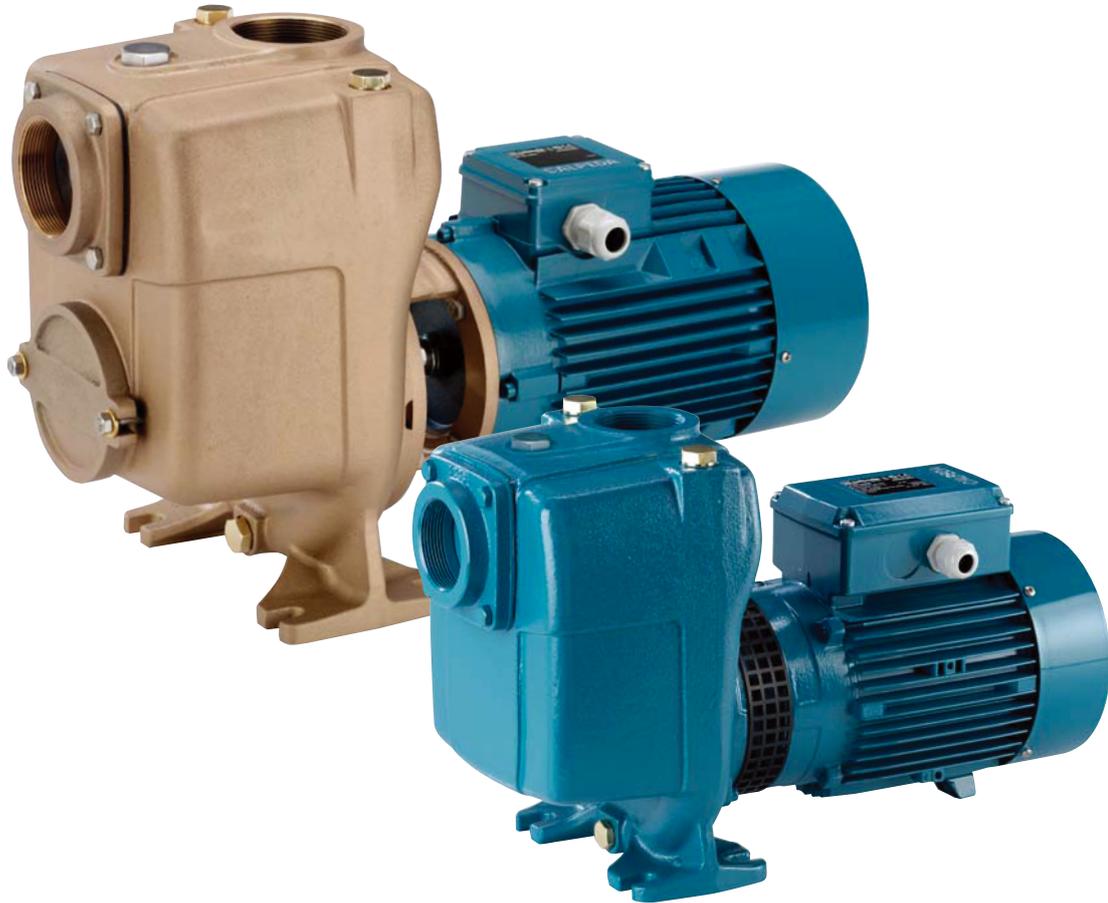


A 60 Hz



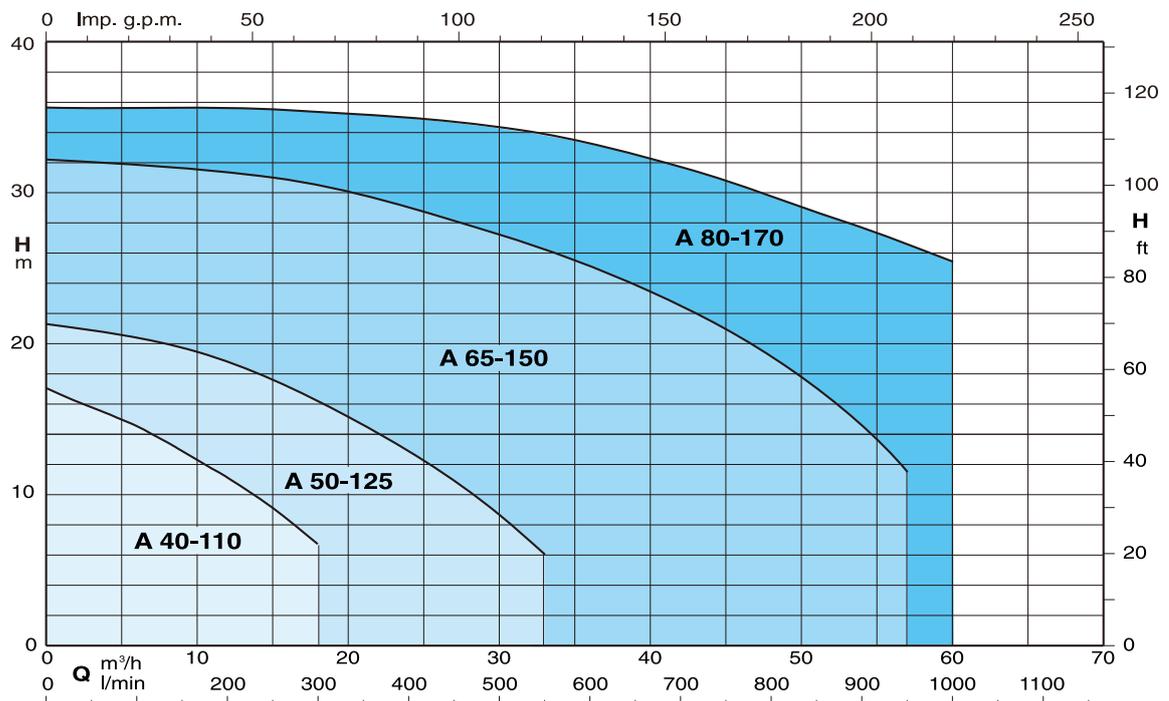
Self-Priming Centrifugal Pumps with open impeller

直結自吸離心式泵浦 開放式葉片



Coverage chart - 性能總表

n ≈ 3450 rpm



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.

Connections: threaded ports **ISO 228/1**.
threaded ports **NPT (ANSI/ASME B1.20.1)** on request
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 40-110, A 50-125 and 15 mm for A 65-150, A 80-170.
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, 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 only 220V.
Capacitor inside the terminal box.
Insulation class F.
Protection IP 54.
Classification scheme IE2 for three-phase motors from 0,75 kW to 5,5 kW, IE3 from 7,5 kW.
Constructed in accordance with: EN 60034-1; EN 60034-30.
EN 60335-1, EN 60335-2-41.

Special features on request

Other voltages.
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 GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Shaft	Cr-Ni steel 1.4305 EN 10088 (AISI 303)	Cr-Ni-Mo steel 1.4401 EN 10088 (AISI 316)
	Cr steel 1.4104 EN 10088 (AISI 430) for A 65-150AE, BE	
Mechanical seal	Carbon - Ceramic - NBR	

結構

直結自吸離心式泵浦；開放式葉片。
內建防止回流裝置，當泵浦停止時可以防止倒虹吸，以確保下次啟動時會自動自吸即使泵浦中並未注滿，吸入管內亦無液體時，泵浦本身亦有自吸功能。

接口方式：牙口 ISO228/1

牙口 **NPT (ANSI/ASME B1.20.1)** 依需求提供
A：泵浦鑄鐵材質之泵浦外殼及托架
B-A：青銅材質之泵浦外殼及托架(泵浦本體整體烤漆)，應用於海水。

應用

乾淨水或微髒水，A 40-110, A 50-125之固體最大粒徑至10mm，A 65-150, A 80-170至15mm。
污水坑之排水應用。
農業灌溉之應用。
民生及工業之應用。

操作條件

液體溫度 -10°C 至 +90°C
周圍溫度至 40°C
泵浦可承受之最大壓力值：6bar(A 80-170為10bar)
連續運轉

馬達

2極感應電動馬達，60Hz(n=3450 rpm)
A：三相 220/380V, 220/440V, 至 3kW 以下
380/660V 為 4 至 11kW
AM：單相 110V, 127V, 220V, 110/220V
只有 220V 配有 1.1kW 以下過熱保護器。
接線盒內有電容器。
絕緣等級：F
保護等級：IP54
三相馬達 0.75kW 至 5.5kW 使用歐盟效能指標高效率 IE2，7.5kW 以上使用 IE3。
結構設計符合 EN 60034-1; EN 60034-30;
EN 60335-1; EN 60335-2-41 之規範。

可依客戶需求客製

- 其他電壓值
- 保護等級 IP55
- 特殊機械軸封
- 更高或是更低的液體或是周圍溫度之需求
- 防爆結構依據 94/9 EEC (ATEX)
- 附有軸承托架之結構

材質

零件	A	B-A
泵浦外殼 入口法蘭 檢查蓋 (A65, A80) 托架 葉片	鑄鐵 GJL 200 EN 1561	青銅 G-Cu Sn 10 EN 1982
泵浦軸心	不鏽鋼 1.4305 EN 10088 (AISI 303)	不鏽鋼 1.4401 EN 10088 (AISI 316)
	A 65-150AE, BE 為 不鏽鋼 1.4104 EN 10088 (AISI 430)	
機械軸封	碳精 - 陶瓷 - NBR	

Rated currents - 性能

3 ~	1 ~	P ₂		Q										
		kW	HP		m ³ /h	l/min	3,6	4,8	6	7,5	8,4	9,6	10,8	12
A 40-110B-60/A B-A 40-110B-60/A	AM 40-110B-60/A B-AM 40-110B-60/A	0,55	0,75	H m	12,5	12	11,3	10,5	10	9,4	8,6	7,8	5,4	
A 40-110A-60/A B-A 40-110A-60/A	AM 40-110A-60/A B-AM 40-110A-60/A	0,75	1		15,5	15	14,5	13,7	13,2	12,5	11,8	11,1	9,1	6,7

3 ~	1 ~	P ₂		Q										
		kW	HP		m ³ /h	l/min	6	9	12	15	18	21	24	27
A 50-125CE-60 B-A 50-125CE-60	AM 50-125CE-60 B-AM 50-125CE-60	0,75	1	H m	13,5	13	12	11	9,5	8	6	4		
A 50-125BE-60 B-A 50-125BE-60	AM 50-125BE-60 B-AM 50-125BE-60	1,1	1,5		16,5	16	15	13,5	12	10,5	9	7	5	
A 50-125AE-60 B-A 50-125AE-60	AM 50-125AE-60 B-AM 50-125AE-60	1,5	2		20	19,5	18,5	17,5	16	14,5	13	11	9	6

3 ~		P ₂		Q										
		kW	HP		m ³ /h	l/min	15	18	24	30	33	36	42	48
A 65-150C-60/B B-A 65-150C-60/A		2,2	3	H m	19,5	19	17	15,5	14,5	13	11	6,5		
A 65-150B-60/B B-A 65-150B-60/A		3	4		22,5	21,5	20	18,5	17	16	13,5	10	5	
A 65-150A-60/B B-A 65-150A-60/A		4	5,5		31	30,5	29	27	26	25	22,5	19	15	11,5

3 ~		P ₂		Q										
		kW	HP		m ³ /h	l/min	15	18	21	24	30	36	45	54
A 80-170B-60/A B-A 80-170B-60/A		5,5	7,5	H m	29,9	29,8	29,7	29,3	28,2	26,6	23,8	20,3	17,3	
A 80-170A-60/A B-A 80-170A-60/A		7,5	10		35,5	35,5	35,2	35	34,4	33,2	30,9	27,6	25,4	

A Standard construction.
標準結構

P₂ Rated motor power output.
馬達額定輸出功率

Tolerances according to UNI EN ISO 9906:2012.
水量誤差值依據 ISO 9906:2012 之標準。

B-A Bronze construction.
青銅結構

H Total head in m.
總揚程 (單位m)

Rated currents - 額定電流

TYPE 型號	P ₂		single-phase - 單相					I _A /I _N
			1 ~					
	kW	HP	220V I _N A	127V I _N A	110V I _N A	110/220V I _N A		
	0,55	0,75	5,2	9	10,4	9,2/4,7	3,1	
AM 40-100A-60/A	0,75	1	6,9	12	13,8	12,5/6,4	2,9	
AM 50-125CE-60	0,75	1	6,5	11,3	13	-	2,9	
	1,1	1,5	8,5	14,7	17	-	3	
	1,5	2	10,6	18,4	-	-	3,8	

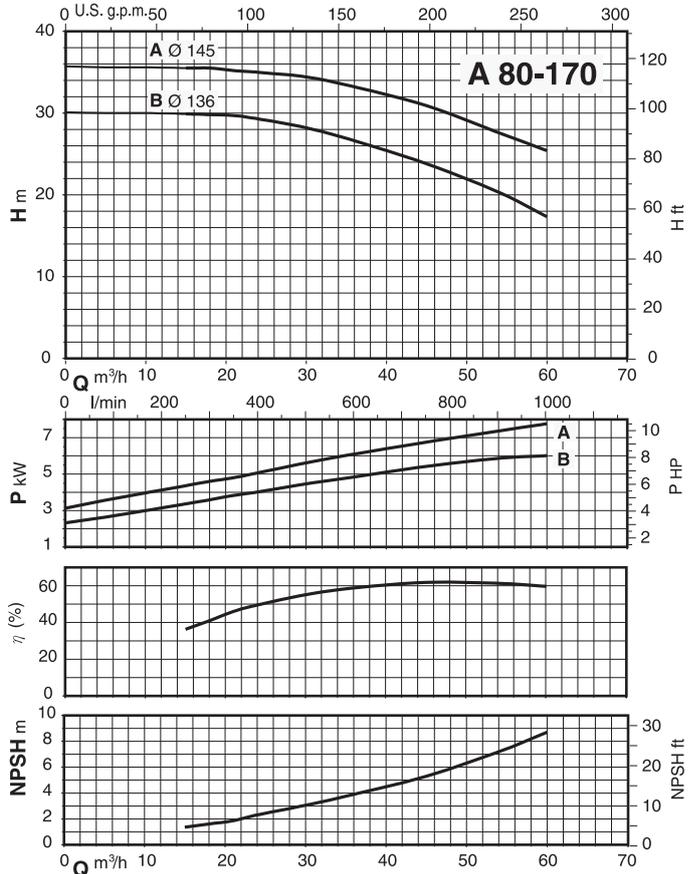
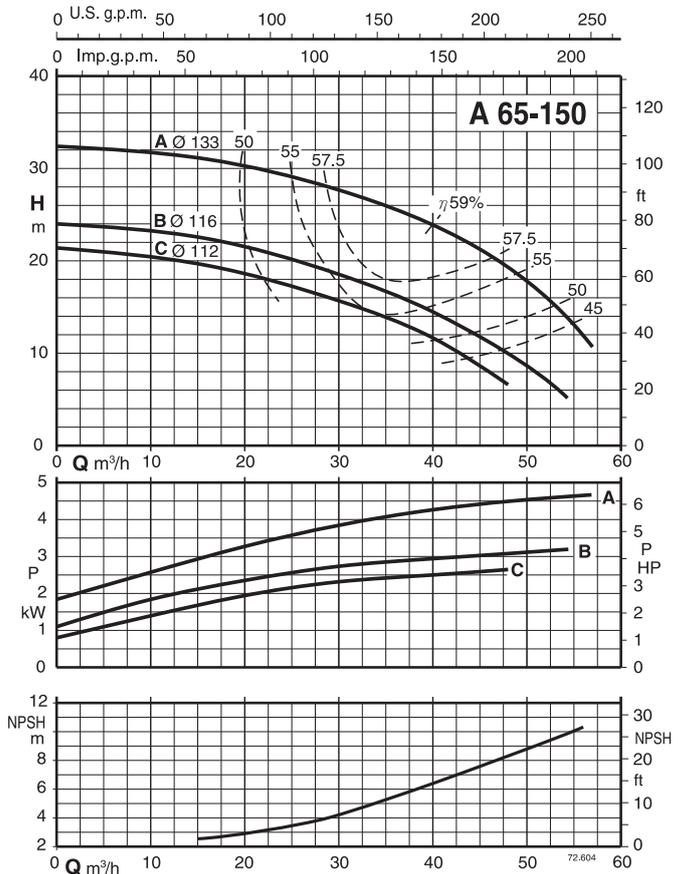
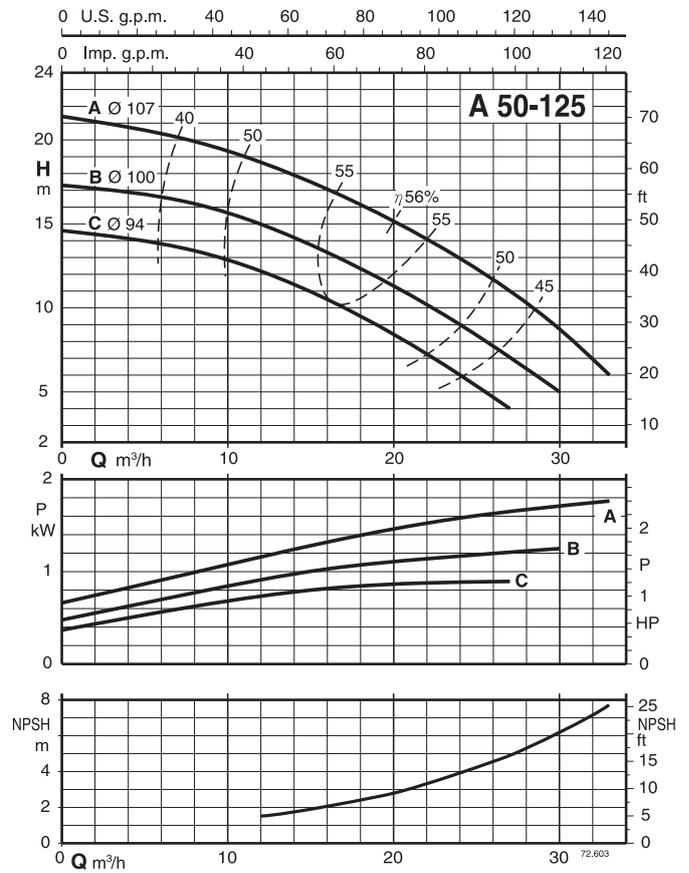
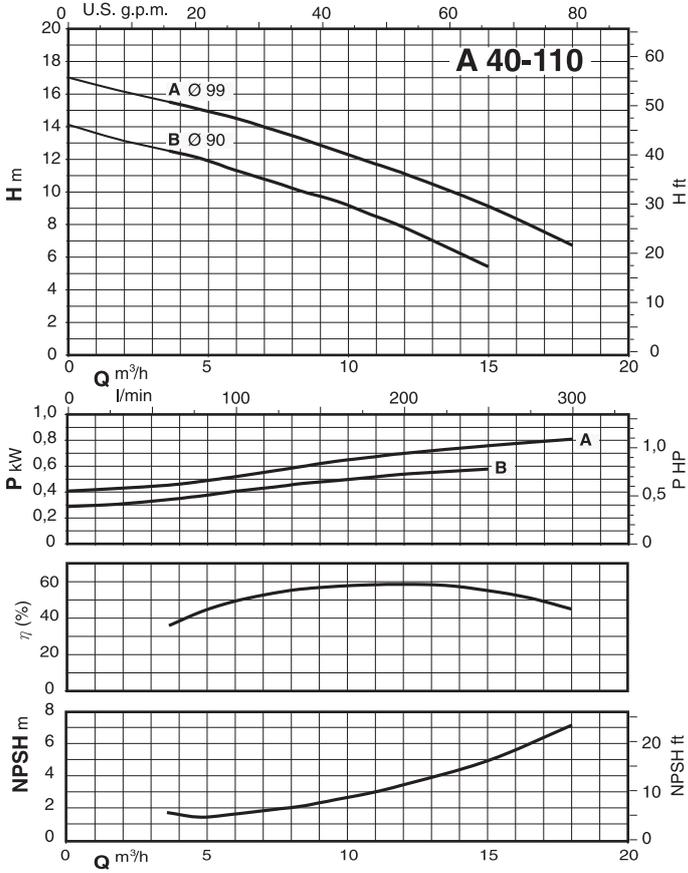
TYPE 型號	P ₂		three-phase - 三相					I _A /I _N
			3 ~					
	kW	HP	220/380V I _N A	380/660V I _N A	220/440V I _N A			
	0,55	0,75	3,6/2,1	-	3,8/2,2	3,7		
A 40-100A-60/A	0,75	1	4,5/2,6	-	4,7/2,7	6,8		
A 50-125CE-60	0,75	1	4/2,3	-	4,2/2,4	4,8		
	1,1	1,5	5,7/3,3	-	6/3,5	5,5		
	1,5	2	9/5,2	-	9,4/5,5	5,4		
	2,2	3	11,2/6,4	-	11,6/6,7	7,3		
	3	4	13,4/7,7	-	14,0/8,1	8,4		
	4	5,5		11,2/6,5		7,8		
	5,5	7,5		13,7/7,9		8,7		
	7,5	10		17/9,8		9,2		

P₂ Rated motor power output.
馬達額定輸出功率

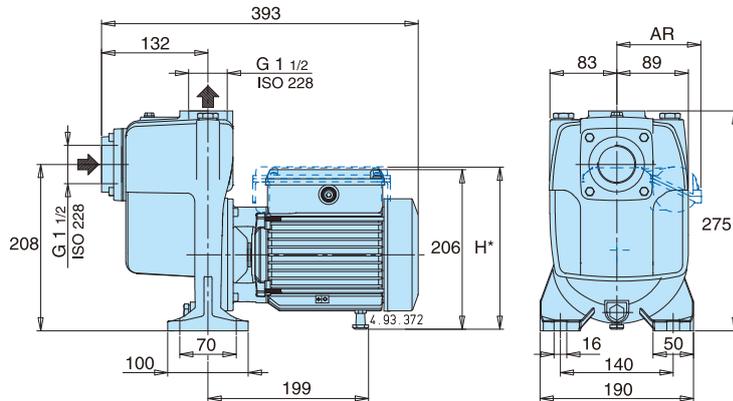
I_A/I_N D.O.L. starting current / Rated current
啟動電流 / 額定電流

Characteristic curves - 性能曲線

$n \approx 3450 \text{ rpm}$



Dimensions and weights - 尺寸及重量

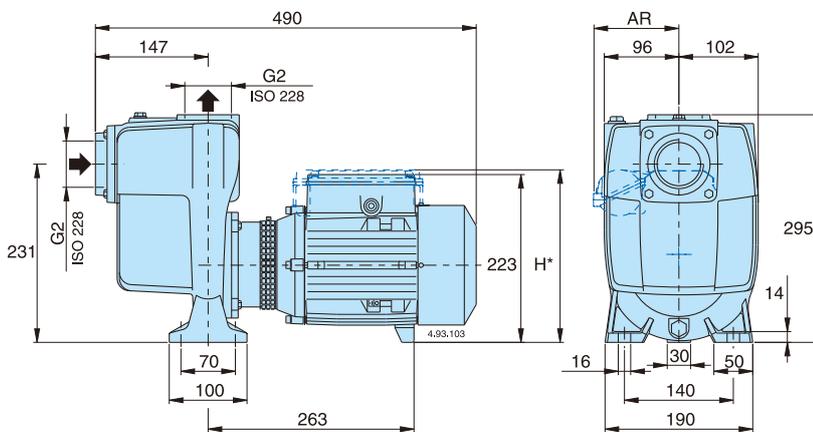


TYPE 型號	H*	AR mm			
		220V	127V	110V	110/220V
(B)-AM 40-110B-60/A	187	●	●	●	116
(B)-AM 40-110A-60/A	187	●	116	116	131

● Standard dimensions - 標準尺寸
 □ Cannot constructed - 未供應

		kg		kg	
A 40-110A-60/A	19,8	B-A 40-110A-60/A	22,5		
AM 40-110A-60/A	20,8	B-AM 40-110A-60/A	23,5		
A 40-110B-60/A	18,9	B-A 40-110B-60/A	21,6		
AM 40-110B-60/A	19,8	B-AM 40-110B-60/A	22,5		

DN NPT Version on demand - DN NPT 接口 (依需求提供)

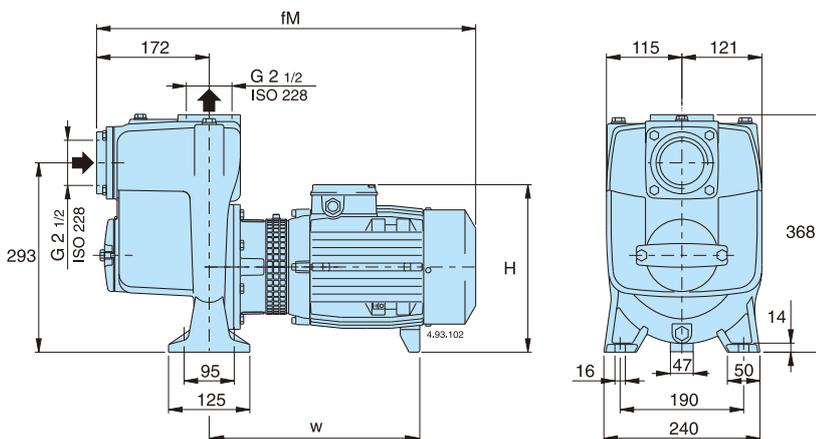


TYPE 型號	Hc	AS mm			
		220V	127V	110V	110/220V
(B)-AM 50-125CE-60	228	●	116	131	□
(B)-AM 50-125BE-60	228	●	131	131	□
(B)-AM 50-125AE-60	228	●	131	□	□

● Standard dimensions - 標準尺寸
 □ Cannot constructed - 未供應

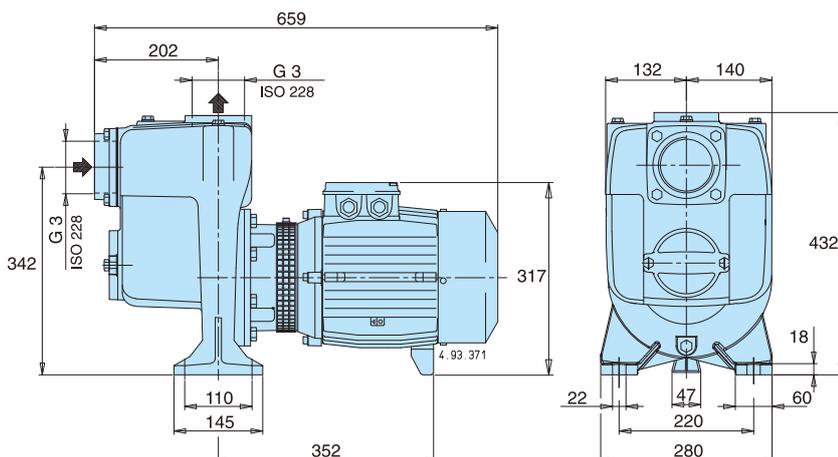
		kg		kg	
A 50-125AE-60	29,9	B-A 50-125AE-60	33,6		
AM 50-125AE-60	31	B-AM 50-125AE-60	33,6		
A 50-125BE-60	28	B-A 50-125BE-60	31		
AM 50-125BE-60	29,1	B-AM 50-125BE-60	32,6		
A 50-125CE-60	26,9	B-A 50-125CE-60	29,6		
AM 50-125CE-60	27,8	B-AM 50-125CE-60	30,6		

DN NPT Version on demand - DN NPT 接口 (依需求提供)



TYPE 型號	mm			kg
	fM	H	w	
A 65-150C-60/B	635	260	364	56,7
B-A 65-150C-60/A	583	260	319	50,4
A 65-150B-60/B	595	270	324	57
B-A 65-150B-60/A	595	270	324	58,5
A 65-150A-60/B	595	270	324	58,5
B-A 65-150A-60/A	595	270	324	60

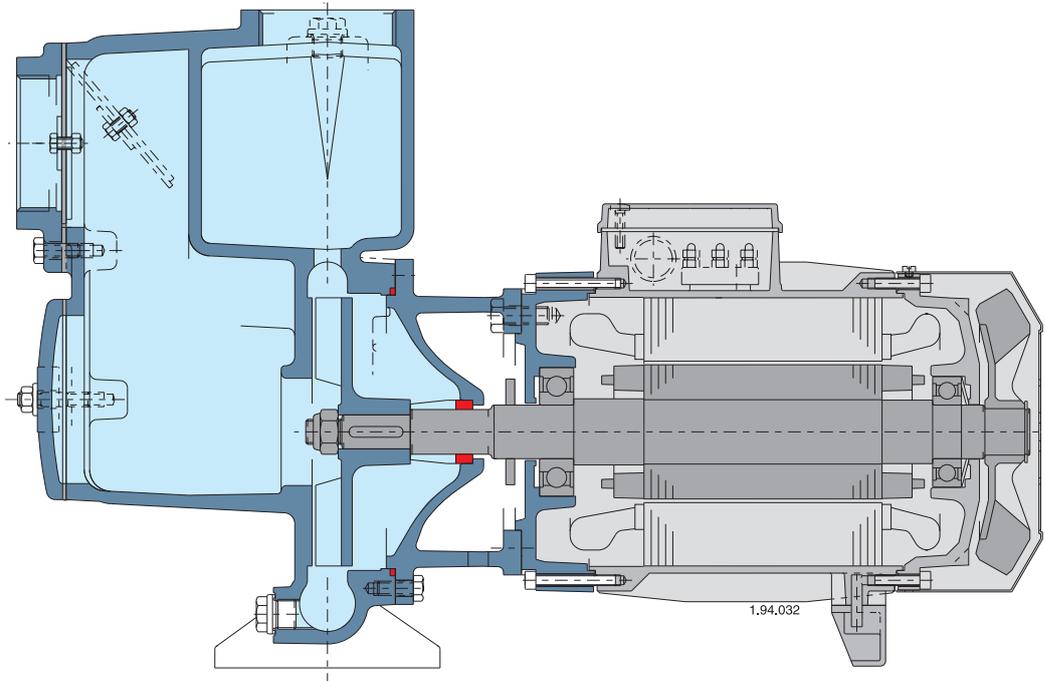
DN NPT Version on demand - DN NPT 接口 (依需求提供)



		kg		kg	
A 80-170A-60/A	85,8	B-A 80-170A-60/A	95,6		
A 80-170B-60/A	80,3	B-A 80-170B-60/A	90,1		

DN NPT Version on demand - DN NPT 接口 (依需求提供)

Features - 特色



Fast self priming

An integrated non-return valve and the design of the pump casing ensures rapid priming, once the pump body has been filled with water.

Flexibility

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows A series pumps to be selected for use with different types of liquids.

Solid parts

The open impeller allows for the passage of suspended solids in pumped liquid.

Exclusive design

An innovative, patented guard prevents contact with rotating parts, providing protection to the end user whilst allowing for inspection of the mechanical seal.

Reliability

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

快速自吸

止回閥與泵浦外殼設計確保一旦泵浦本體注滿水後即能快速自吸。

靈活性

泵浦接液體零件有鑄鐵及青銅材質可供選擇，使A系列泵浦能適用於不同類型之液體。

固體顆粒

開放式葉片允許泵浦液體中的懸浮固體通過。

獨家設計

獨特創新並擁有專利認證之防護網，預防與轉動零件之接觸並提供使用者自行檢查機械軸封。

可靠

軸承及軸心的設計可減少壓力，在所有操作條件下提供更佳的可靠性。