



SINCE 1976

SHOWFOU PUMP

SUBMERSIBLE DRAINAGE PUMP

修附電機



標檢局

ISO-9001/CNS12681

SC/SF

一般污水用

SCA/SFA

自動浮球污水用

SC/SF

Drainage pump

SCA/SFA

Automatic drainage pump



SC 1/3HP~1HP



SCA 1/3HP~1HP



SF 1/3HP~3HP



SFA 1/3HP~1HP

修附電機股份有限公司 SHOWFOU ELECTRIC MACHINE CO., LTD.

CAT. NO.: C0212-8

SC -- SUBMERSIBLE DRAINAGE PUMP

SCA -- AUTOMATIC SUBMERSIBLE DRAINAGE PUMP

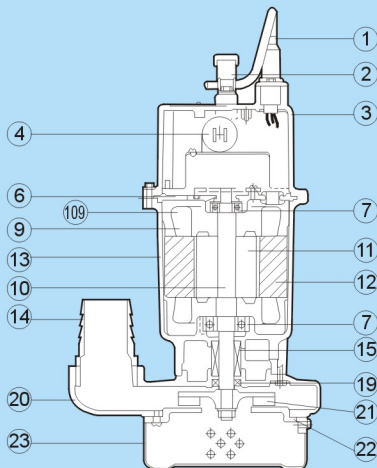
■ FEATURES:

- A. Motor: Dry motor with level of protection IP 68, suitable for continuous duty.
- B. Thermal Protector: Single phase model built-in thermal protector prevents any burning damage to the motor.
- C. Pump Casing: Tough cast iron casing guarantees high pumping efficiency.
- D. Impeller: Excellent durability, semi-open type impeller design, prevents clogging by mud, sand, etc.
- E. Suction Cover: Easily replaceable.
- F. Triplex Seals: Equipped with double mechanical seal with one oil seal.

■ APPLICATION:

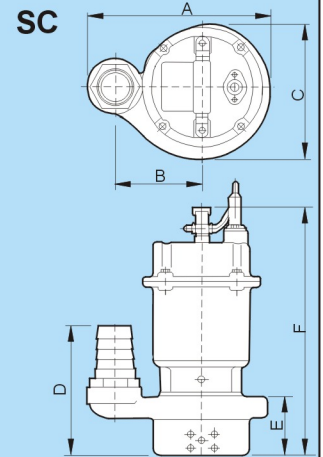
1. Civil engineering & construction.
2. Fountains and water features
3. Tunnel & caisson drainage.
4. Agricultural irrigation.
5. Drainage of seepage water, pumping of rain waste water, draining of environments, bathing and swimming pools, industrial applications

■ CONSTRUCTIONS:



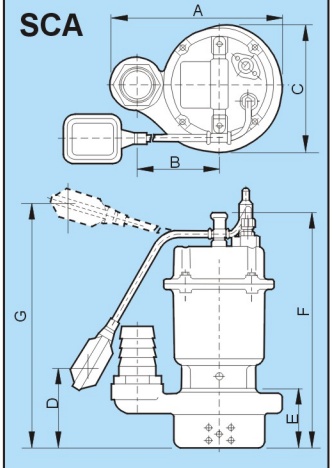
NO.	PARTS LIST	MATERIAL
1	Cable	V. C. T.
2	Handle	Stainless Steel
3	Motor Head Cover	Cast Iron
4	Condenser	1ø only
6	Upper Bracket	1ø only
7	Upper Ball Bearing	Cast Iron
9	Coil	
10	Shaft	Stainless Steel
11	Rotor	Steel Plate
12	Stator	Steel Plate
13	Motor Casing	Cast Iron
14	Hose Coupling	Plastic
15	Mechanical Seal	Ceramic-Carbon
19	Oil Seal	Synthetic Rubber
20	Pump Casing	Cast Iron
21	Impeller	Cast Iron
22	Suction Cover	Cast Iron
23	Strainer	Steel
24	Float Switch	Only for SCA

■ DIMENSIONS

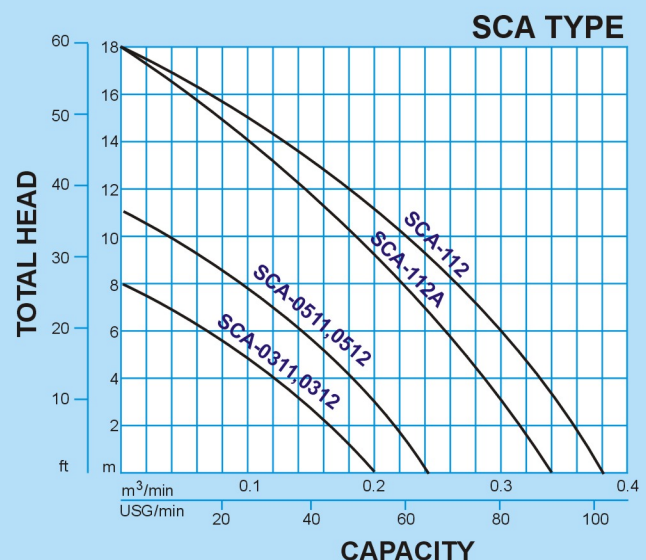
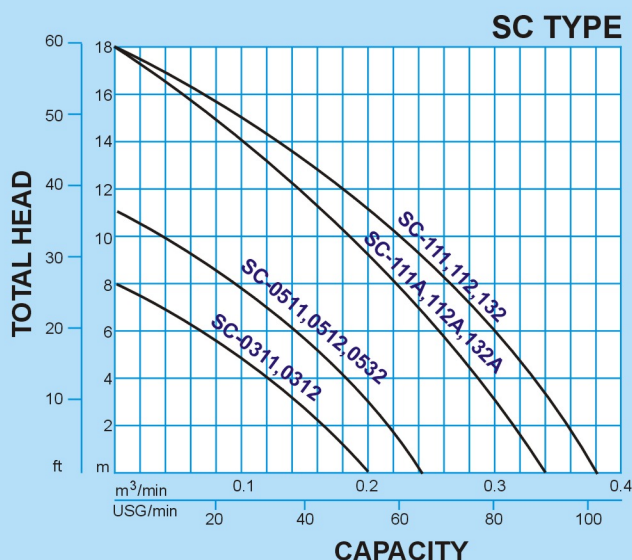


■ SPECIFICATIONS 50Hz/60Hz

型 式 TYPE	電 動 機 MOTOR			抽 水 機 PUMP			電 纜 Cable	重 量 Weight	Spherical Solid Handling	尺 寸 SIZE								
	Power	Phase	Volt	Disch. Dia.	Max. Head	Max. Flow				A	B	C	D	E	F	G		
	KW	HP	PH	V	mm	inch				M	M ³ /MIN	mm ² xM	KG	mm	mm	mm	mm	mm
DRAINAGE PUMP																		
SC-0311	0.25	1/3	1	110	40	1 1/2"	8	0.20	1.25 ² x6	15	7	225	110	170	163	80	350	
SC-0312				220														
SC-0511	0.4	1/2	1	110	50	2"	11	0.24	1.25 ² x6	18	7	255	120	190	165	85	410	
SC-0512				220														
SC-0532	0.75	1	3	220-440	50	2"	18	0.34	1.25 ² x6	26	7	255	120	190	165	85	430	
SC-111A			1	110														
SC-112A			1	220														
SC-132A			3	220-440														
SC-111			1	110														
SC-112			1	220														
SC-132	3	220-440	80	3"	18	0.38	1.25 ² x6	28	7	310	125	210	225	95	430			
AUTOMATIC DRAINAGE PUMP																		
SCA-0311	0.25	1/3	1	110	40	1 1/2"	8	0.20	1.25 ² x6	15	7	225	110	170	85	80	350	400
SCA-0312				220														
SCA-0511	0.4	1/2	1	110	50	2"	11	0.24	1.25 ² x6	18	7	255	120	190	90	85	410	450
SCA-0512				220														
SCA-112A	0.75	1	1	220	50	2"	18	0.34	1.25 ² x6	26	7	255	120	190	90	85	430	480
SCA-112			1	220	80	3"	18	0.38		28	7	310	155	210	100	95	430	480



■ PERFORMANCE CURVE 50Hz (RPM: 3000) / 60 Hz (RPM: 3600)



SF -- SUBMERSIBLE DRAINAGE PUMP

SFA -- AUTOMATIC SUBMERSIBLE DRAINAGE PUMP

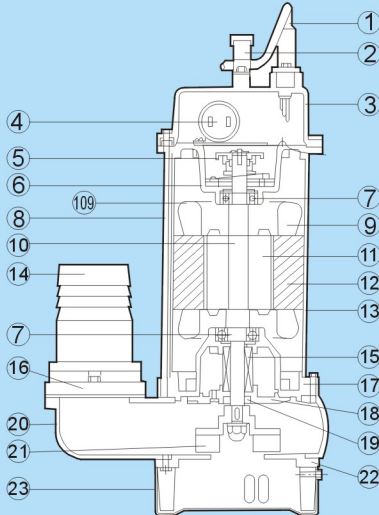
■ FEATURES:

1. Mini size light-weight , best quality among similar type.
2. The housing of motor and screws are manufactured with stainless steel.
3. The pumping performance is better, electricity-saving. The water volume is large and its usage and maintenance are very convenient.
4. Supplied with float level switch in the Automatic version - SFA type.

■ APPLICATION:

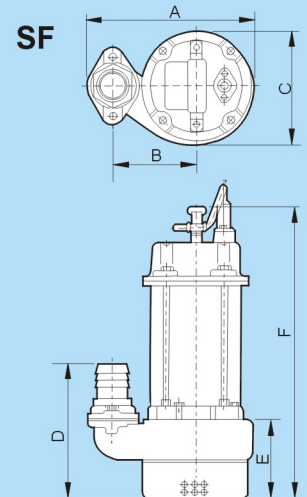
1. Civil engineering & construction.
2. Fountains and water features
3. Tunnel & caisson drainage.
4. Agricultural irrigation.
5. Drainage of seepage water, pumping of rain waste water, draining of environments, bathing and swimming pools, industrial applications

■ CONSTRUCTIONS:



NO.	PARTS LIST	MATERIAL
1	Cable	V. C. T.
2	Handle	Stainless Steel(1/2~3HP)
3	Motor Head Cover	Cast Iron
4	Condenser	1φ only
5	Centrifugal Switch	1φ only
6	Upper Bracket	Cast Iron
7	Upper Ball Bearing	
8	Bolt	Stainless Steel
9	Coil	
10	Shaft	Stainless Steel
11	Rotor	Steel Plate
12	Stator	Steel Plate
13	Motor Casing	Stainless Steel
14	Hose Coupling	Plastic & Cast Iron
15	Mechanical Seal	Ceramic-Carbon
16	Flange Setter	Cast Iron
17	Motor Lower Cover	Cast Iron
18	Mechanical Seal Cover	Plastic / Cast Iron
19	Oil Seal	Synthetic Rubber
20	Pump Casing	Cast Iron
21	Impeller	Cast Iron / Bronze
22	Suction Cover	Cast Iron
23	Strainer	Plastic (1/3HP& 1/2HP) Stainless Steel (1~3HP)
24	Float Switch	Only for SFA

■ DIMENSIONS

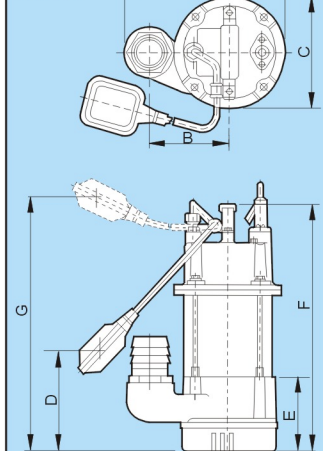


■ SPECIFICATIONS 50Hz/60Hz

■ DIMENSIONS

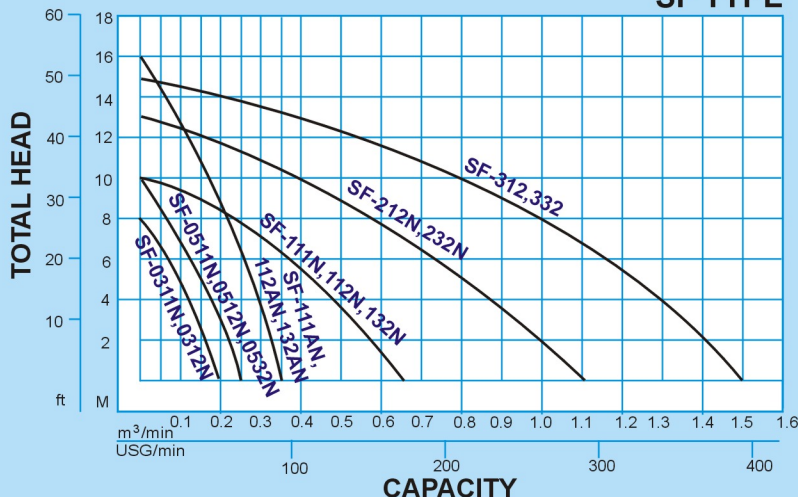
型 式	電 動 機 MOTOR			抽 水 機 PUMP				電 纜	重 量	Spherical Solid Handling	尺 寸							SIZE	
TYPE	Power		Phase	Volt	Disch. Dia.		Max. Head	Max. Flow	Cable		Weight	A	B	C	D	E	F	G	
	KW	HP	PH	V	mm	inch	M	M ³ /MIN	mm ² xM	KG	mm	mm	mm	mm	mm	mm	mm		
DRAINAGE PUMP																			
SF-0311N	0.25	1/3	1	110	40	1 1/2"	8	0.20	1.25 ² x6	9	4	200	100	140	155	75	340		
SF-0312N				220															
SF-0511N	0.4	1/2	1	110	50	2"	10	0.22	1.25 ² x6	11	4	215	120	155	161	80	355		
SF-0512N				220															
SF-0532N				3 220-440															
SF-111AN	0.75	1	1	110	50	2"	16	0.35	2 ² x6	21	6	265	130	190	180	85	460		
SF-112AN				220															
SF-132AN				3 220-440															
SF-111N				110															
SF-112N				220															
SF-132N	3 220-440																		
SF-212N	1.5	2	1	220	100	4"	13	1.10	3.5 ² x10	35	9	385	192	225	280	130	545		
SF-232N				3 220-440						30		385	192	225	280	130	440		
SF-312	2.2	3	1	220	125	5"	15	1.50	3.5 ² x10	48	9	410	200	240	300	140	585		
SF-332				3 220-440						46		410	200	240	300	140	485		
AUTOMATIC DRAINAGE PUMP																			
SFA-0311N	0.25	1/3	1	110	40	1 1/2"	8	0.20	1.25 ² x6	9	4	200	100	140	80	75	340	425	
SFA-0312N				220															
SFA-0511N	0.4	1/2	1	110	50	2"	10	0.22	1.25 ² x6	11	4	235	120	155	85	80	355	450	
SFA-0512N				220															
SFA-112AN				0.75															1
SFA-112N	220	80	3"		10	0.65	2 ² x6	24	300	150	190	100	125	505	550				

SFA

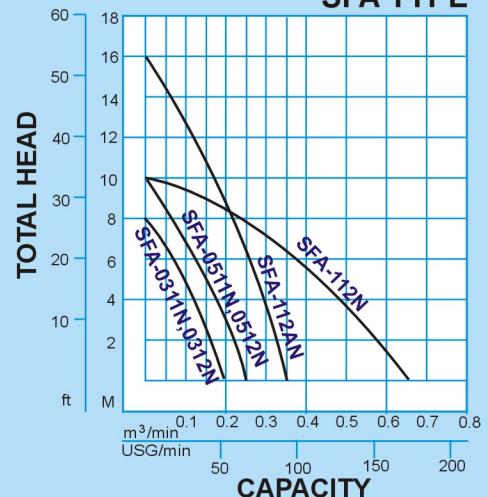


■ PERFORMANCE CURVE 50Hz (RPM: 3000) / 60 Hz (RPM: 3600)

SF TYPE



SFA TYPE



幫浦特性試驗表

電腦編號：1SC-0106122202

型式：SC-112A

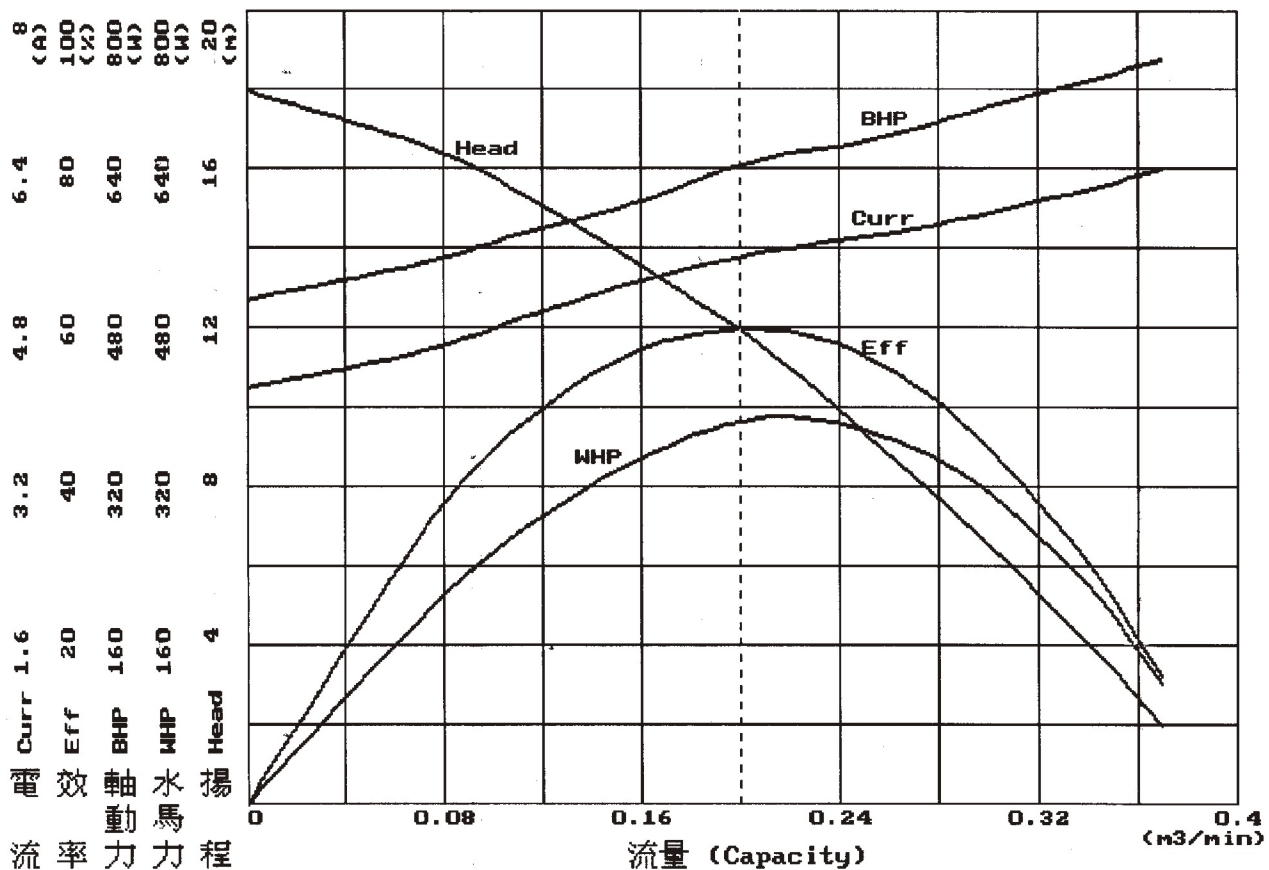
印表日期：95年09月01日

試驗日期：95年09月01日

電動機	週率 (Hz)	馬力 (HP)	電壓 (V)	相數 (PH)	電流 (A)	極數 (P)	回轉速 RPM	幫浦	口徑 (mm)	葉輪 開放式	葉輪 封閉式
MOTOR	60	1	220	1	7	2	3600	PUMP	50	✓	

試驗液體：(清水) 吐出量測定方式： 常溫：32.2℃ 水溫：29.8℃

測試點	流量 m3/min	揚程 m	電 動 機 MOTOR				幫 浦 PUMP		
			電 壓 V	電 流 A	入 力 (Pin) KW	出 力 (BHP) KW	水 馬 力 (WHP) KW	效 率 %	
1	0.37	2.0	220	6.4	1.12	0.75	0.12	16.1	
2	0.25	9.4	220	5.7	0.99	0.66	0.38	57.7	
3	0.21	11.7	220	5.6	0.98	0.66	0.40	61.0	
4	0.20	12.0	220	5.5	0.97	0.65	0.39	60.4	
5	0.18	12.7	220	5.4	0.94	0.63	0.37	59.2	
6	0.00	18.0	220	4.2	0.76	0.51	0.00	0.0	



修附電機股份有限公司
SHOWFOU ELECTRIC MACHINE CO.,LTD.

廠 長	課 長	品管主管	品管員
邱萬成	李進川	李進川	許鏡瑋

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