



SH-W SUBMERSIBLE DRAINAGE PUMP

The body of motor and pump is made of hard cast iron for long-lasting durability. Greatly increased maximum submersion depth due to mechanical seal resistant to high pressure. The pump can be only partially immersed, with hydraulic part under motor and motor cooled by pumped water for safe operation. The top discharge design maximize the utilization of space. Hermetically sealed motor equipped with built-in thermal protection. Seal pressure relief ports is incorporated to prevent the pumping pressure from applying to the shaft seal. The back-to-back design of the double impeller greatly reduces the axial force of the pump and improves the service life of the bearing. Discharge 50mm(2") to 150mm(6"), motor 3.0kW (4.0HP) to 150 kW(200HP). Motor is dry type submersible induction motor (2 poles).



Specification

- Capacity: up to 218m³/h
- Head: up to 230 meters
- power: 3.0kw (4.0HP) to 150kw (200HP)
- power supply: three phase 400V $\pm$ 10%, 50HZ
380V $\pm$ 10%, 60HZ
- Insulation class: F
- protection class: IP68
- cable length: 20m
- water temperature: up to 40°C
- Max. water depth: 30m

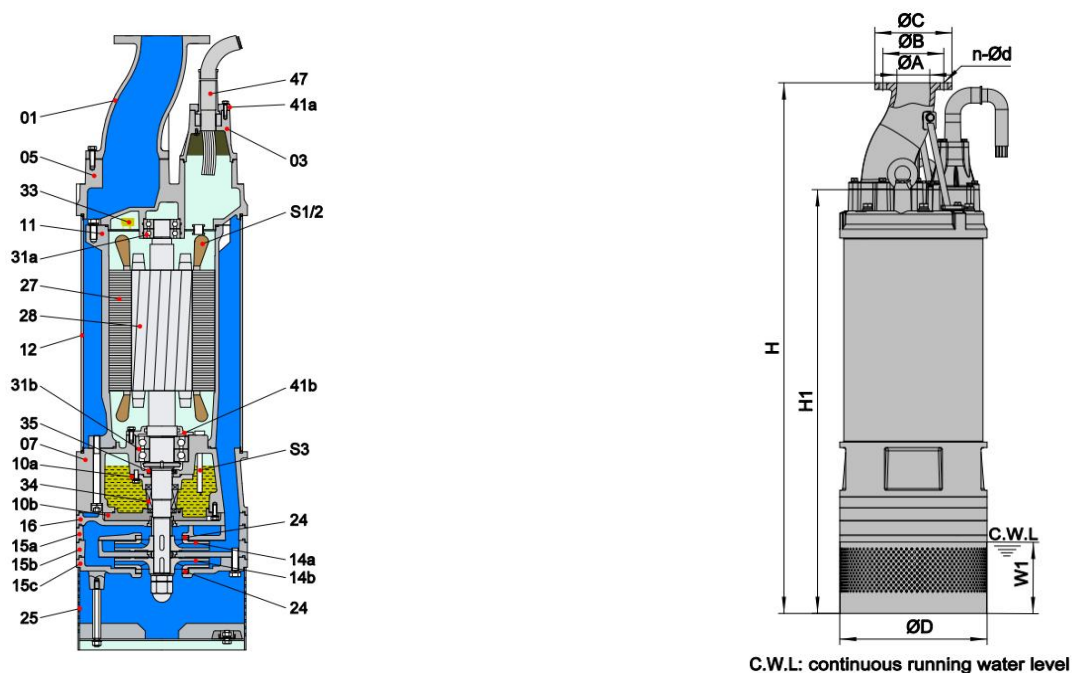
Application

- Deep-well pre-dewatering or high-head dewatering
- Civil engineering and construction works
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

special features on request

- Other voltages
- The length of cable is optional

SUBMERSIBLE DRAINAGE PUMP SH-W



Materials of components

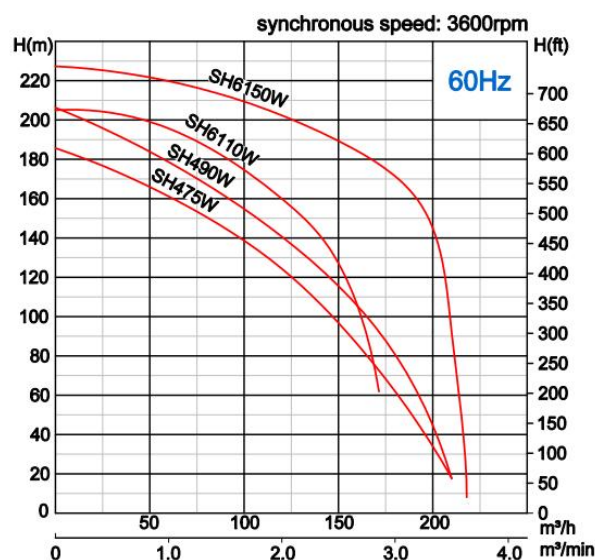
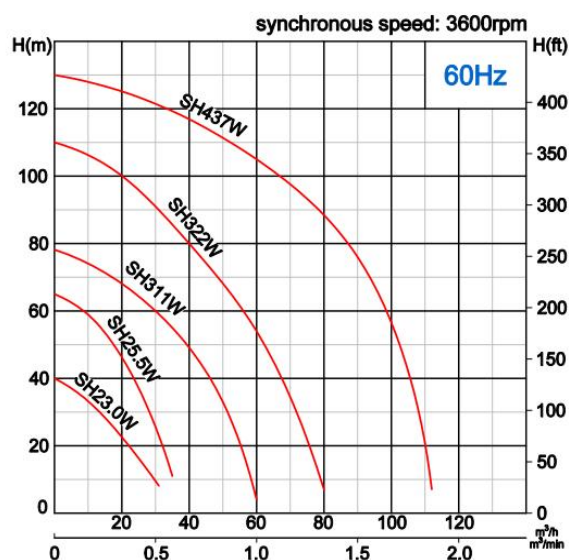
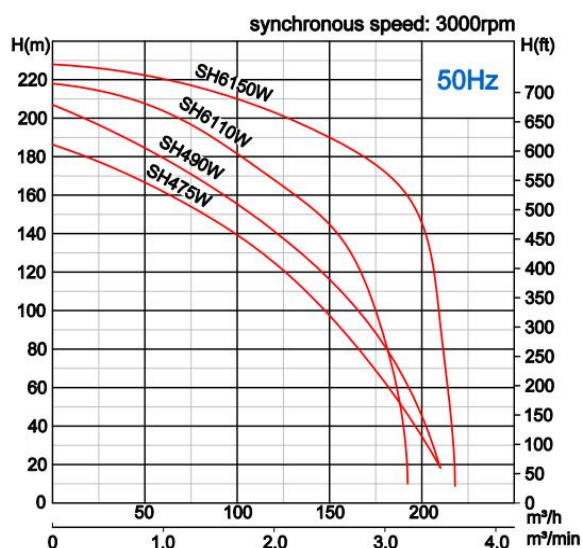
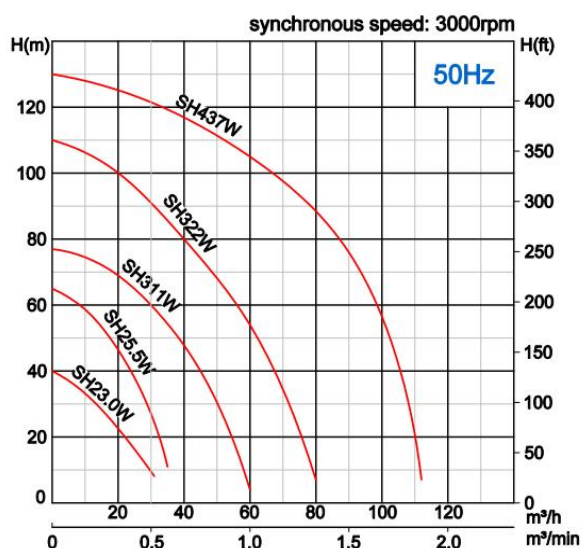
Item No.	Part name	Material	Item No.	Part name	Material
01	Discharge connection	Ductile iron	25	Strainer	Stainless steel
03	Terminal box	Cast iron	27	Stator	
05	Upper cover	Cast iron	28	Rotor	Shaft:AISI420SS
07	Bearing house	Cast iron	31a	Bearing	
10a	Seal bracket	Cast iron	31b	Bearing	
10b	Seal bracket	Cast iron	33	Motor protector	3~11kW
11	Motor body	Cast iron	34	Mechanical seal	
12	Outer casing	Steel	35	Oil seal	
14a	Impeller	High chrome alloy	41a	Cable fixing plate	Cast iron
14b	Impeller	High chrome alloy	41b	Bearing fixing plate	Cast iron
15a	Diffuser & Casing	Ductile iron	47	Cable	
15b	Diffuser & Casing	Ductile iron	S1/2	Overheat protector : 22~150kW	
15c	Diffuser & Casing	Ductile iron	S3	Oil water leakage probe : 37~150kW (22kW : on option)	
16	Inlet plate	Ductile iron			
24	Neck ring	High chrome alloy			

Dimensions & weights

Model (50/60Hz)	A mm	B mm	C mm	n-Ø d mm	D mm	H mm	H1 mm	W1 mm	N.W Kg	G.W Kg	Packing dimension mm
SH23.0W	50	-	-	-	185	685	570	146	52	57	740x220x295
SH25.5W	50	125	165	4-Ø 18	243	788	616	170	100	107	840x280x385
SH311W	80	160	200	8-Ø 18	275	1036	824	210	160	172	1085x310x415
SH322W	80	160	200	8-Ø 18	330	1174	914	260	278	308	1225x375x545
SH437W	100	180	220	8-Ø 18	420	1500	1198	227	500	540	1625x465x705
SH475W	100	190	235	8-Ø 22	550	1762	1410	400	1000	1052	1900x620x690
SH490W	100	190	235	8-Ø 22	550	1822	1470	400	1055	1110	1960x620x700
SH6110W	150	250	300	8-Ø 26	592	1793	1388	370	1245	1301	1935x665x965
SH6150W	150	250	300	8-Ø 26	592	1925	1520	415	1428	1488	2065x665x975

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Performance curves



Performance table

Model (50/60Hz)	Outlet	Motor power		Starting method	Rated current	Rated capacity		Rated head	Max capacity		Max head	Impeller passage
	mm	KW	HP		A	m³/h	m³/min	m	m³/h	m³/min	m	mm
SH23.0W	50	3.0	4.0	D.O.L.	6.2/6.3	18	0.3	26	30	0.5	39	6
SH25.5W	50	5.5	7.5	D.O.L.	11.4/11.6	18	0.3	48	35	0.59	65	6
SH311W	80	11	15	D.O.L.	22/22.5	30	0.5	60	60	1	78	8.5
SH322W	80	22	30	Star-Delta	41.5/42	40	0.7	80	78	1.3	110	8.5
SH437W	100	37	50	Star-Delta	66/68	60	1.0	105	112	1.87	130	6
SH475W	100	75	100	Star-Delta	134/139	120	2.0	125	210	3.5	185	15
SH490W	100	90	120	Star-Delta	162/166	120	2.0	140	210	3.5	205	15
SH6110W	150	110	150	Star-Delta	198/203	120	2.0	168/160	192/171	3.2/2.85	218/205	8
SH6150W	150	150	200	Star-Delta	260/268	150	2.5	190	218	3.63	230	12